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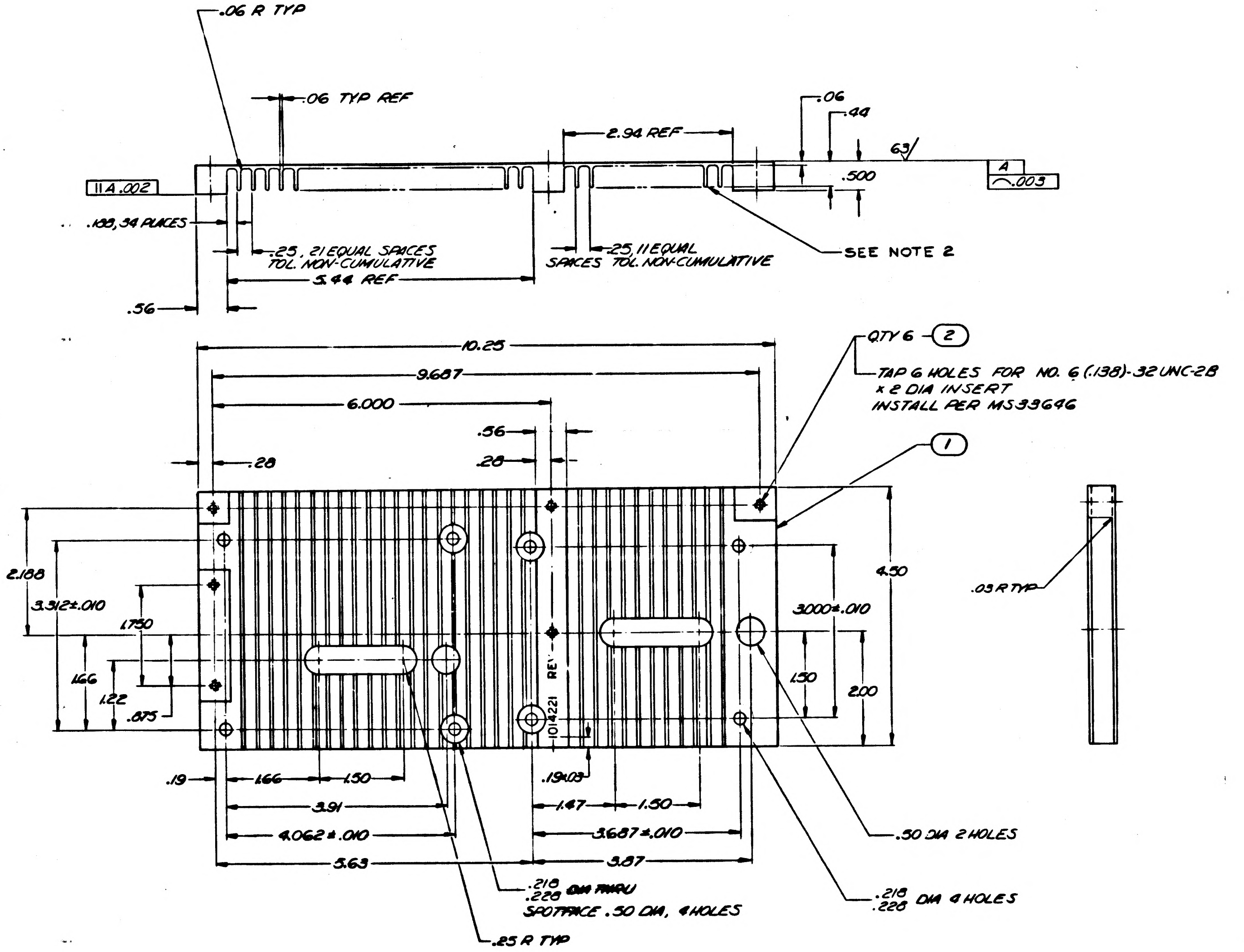
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASE PER TDRR		


.06 R TYP
.06 TYP REF
2.94 REF
.06
.44
63
.500
A
.003
11 A .002
.138, 34 PLACES
.25, 21 EQUAL SPACES TOL. NON-CUMULATIVE
5.44 REF
.25, 11 EQUAL SPACES TOL. NON-CUMULATIVE
SEE NOTE 2
.56
10.25
9.687
6.000
.56
.28
.28
QTY 6 (2)
TAP 6 HOLES FOR NO. 6 (.138)-32 UNC-2B x 2 DIA INSERT INSTALL PER MS33646
(1)
2.188
3.312±.010
1.750
1.66
1.22
.875
4.50
3000±.010
1.50
2.00
.03 R TYP
REV
1014221
.19
1.66
1.50
3.91
4.062±.010
5.63
.19±.03
1.47
1.50
3.687±.010
3.87
.50 DIA 2 HOLES
.218 .228 DIA THRU SPOTFACE .50 DIA, 4 HOLES
.218 .228 DIA 4 HOLES
.25 R TYP

FOR INFORMATION ONLY
CLASS B RELEASE TDRR N00132 DATE 5-1-63

NOTES:

1. MATERIAL: PERMANENT MOLD CAST 43F AL PER QQ-A-596, COMP 7, COND F;
   ALTERNATE: 6061-T6 AL PER QQ-A-327, TEMP T6
2. REMOVE BURRS & SHARP EDGES
3. BLACK ANODIZE PER MIL-A-8625, TYPE II
4. MASK ALL THREADED HOLES BEFORE ANODIZING
5. INSTALL FIND NO. 1 AFTER ANODIZING
6. 125/ ON ALL MACHINED SURFACES UNLESS OTHERWISE SPECIFIED
7. MARK .08 HIGH WHITE CHARACTERS PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
6	MS122159	INSERT, HELICAL COIL	2
1	1014221-1	HEATSINK	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014084	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE

HEAT TREATMENT

FINAL FINISH
SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS9-498
DRAWN DATE 18APR63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HEATSINK
POWER SUPPLY

CODE IDENT NO —
SIZE F
NASA DRAWING NO 1014221
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

1014221

ENT DRAWINGS SPECIFICATIONS OR OTHER DATA
A . HER THAN IN CONNECTION WITH A DEFINITELY
ROCEMENT OPERATION THE UNITED STATES GOVERN-
ESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER
VERNMENT MAY HAVE FORMULATED FURNISHED OR
AID DRAWINGS SPECIFICATIONS OR OTHER DATA IS
MPLICATION OR OTHERWISE AS IN ANY MANNER
ANY OTHER PERSON OR CORPORATION OR CONVEY-
ISSION TO MANUFACTURE USE OR SELL ANY
AY IN ANY WAY BE RELATED THERETO.

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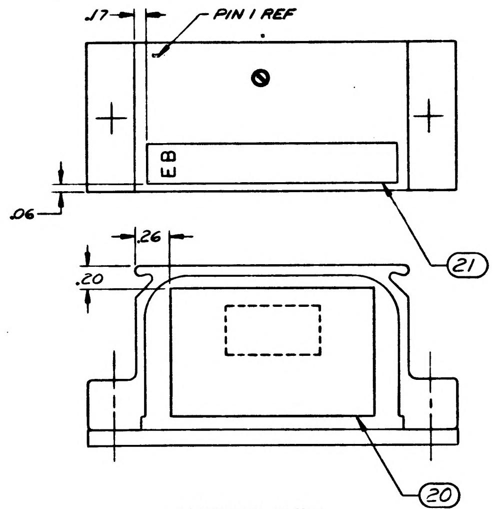
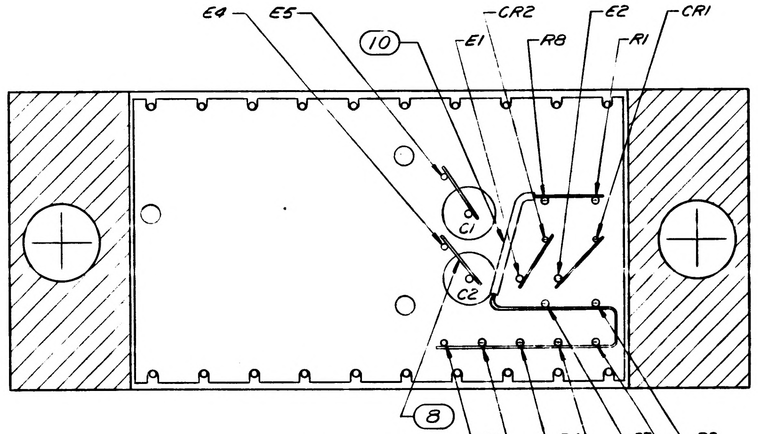
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO.		

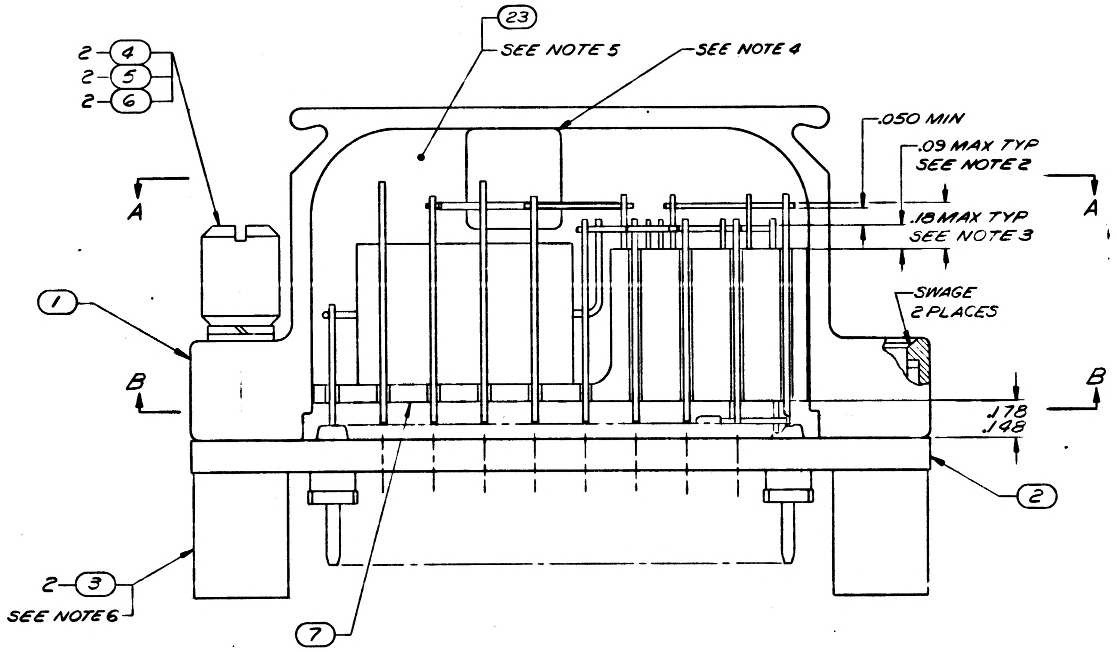
RENCE DESIGNATIONS	
YMBOL	FIND NO
, R8	11
, R7	12
, R6	13
9	14
4, R5	15
F1, CR2	16
, C2	17
, C4	18
, Q2	19

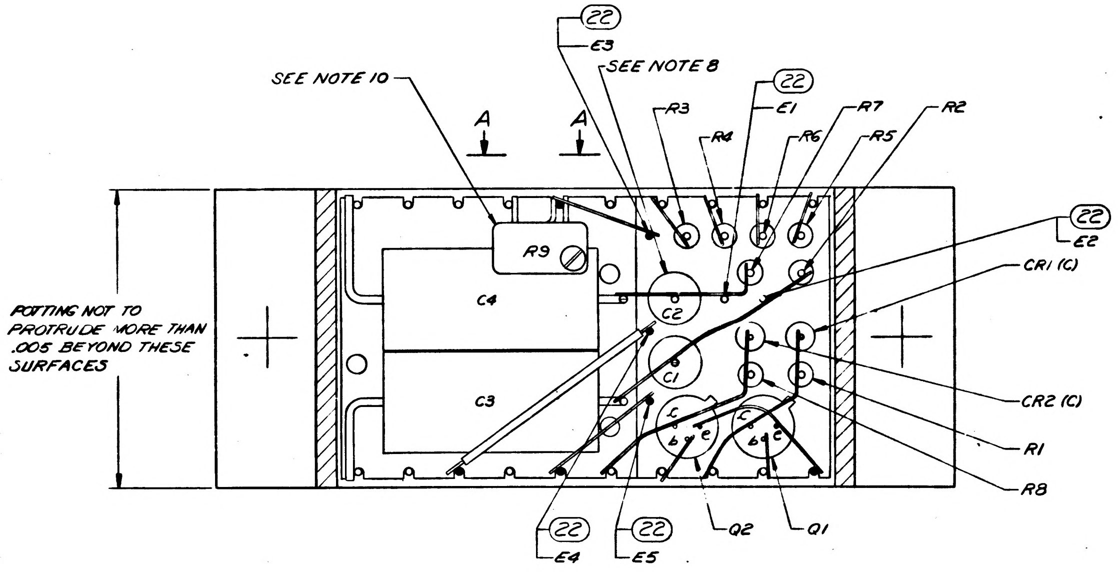

.17
PIN 1 REF
E B
.06
21
.26
.20
20

MARKING VIEW
SCALE 2/1

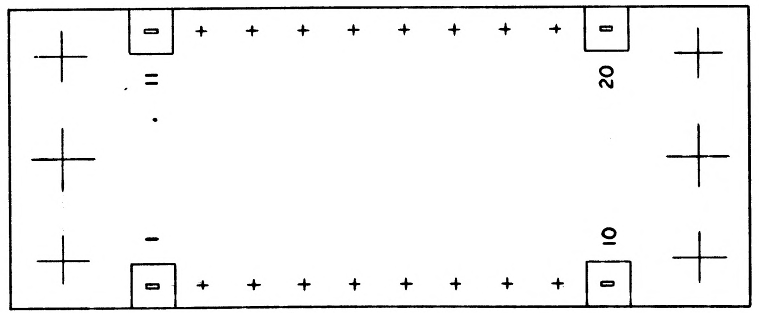

E4
E5
10
E1
CR2
R8
E2
R1
CR1
C1
C2
8
E3
R4
R7
R2
R3
R6
R5

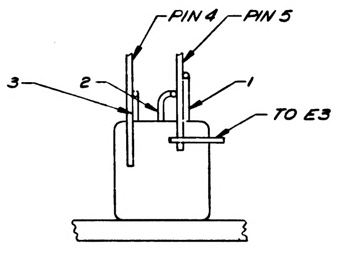
SECTION B-B


23
SEE NOTE 5
SEE NOTE 4
2-4
2-5
2-6
.050 MIN
.09 MAX TYP
SEE NOTE 2
A
A
.18 MAX TYP
SEE NOTE 3
SWAGE
2 PLACES
1
B
B
.178
.148
2
2-3
SEE NOTE 6
7


22
E3
SEE NOTE 8
SEE NOTE 10
22
E1
R3
R4
R6
R7
R5
R2
A
A
22
E2
R9
CR1 (C)
C4
C2
C1
C3
CR2 (C)
R1
R8
POTTING NOT TO PROTRUDE MORE THAN .005 BEYOND THESE SURFACES
22
E4
22
E5
Q2
Q1

SECTION A-A




PIN 4
PIN 5
3
2
1
TO E3

VIEW A-A
TOP OF FIND NO. 1 SHOWN
FOR CLARITY

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02386 DATE 7Aug63

OTES
1. WIRE PER ND1002003
2. WHITE DOT INDICATES FIRST LEVEL WIRING
3. BLACK DOT INDICATES SECOND LEVEL WIRING
4. STAKE FIND NUMBER 14 TO FIND NUMBER 1 & FIND NUMBER 18 TO FIND NUMBER 7 PER ND1002004
5. FILL WITH FIND NO. 23 PER ND1002183,
6. SEE 1014047 FOR POSITIONING OF PROGRAM TABS
7. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
8. STAKE FIND NO. 11, 12, 13, 15, 16, 17 & 19 TO FIND NO. 7 PER ND1002009
9. UNUSED PINS MAY BE TRIMMED FLUSH WITH FIND NO. 2 (CONNECTOR) AND EXCESSIVE LEAD HEIGHT MAY BE TRIMMED .010-.030 ABOVE HIGHEST WELD ON EACH LEAD
10. COAT FIND NO 14 USING FIND NO 9 PER ND1002009
11. NO LEADS OR COMPONENTS TO PROTRUDE THRU POTTING

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1014328	SCHEMATIC	REF
AR	1006904	EPOXY RESIN	23
AR	1006787-2	WIRE, ELECTRICAL	22
1	1014199-11	DECAL, IDENTIFICATION	21
1	1014200-10	DECAL, IDENTIFICATION	20
2	1006752	TRANSISTOR	19
2	1006866	CAPACITOR	18
2	1006867	CAPACITOR	17
2	1006751	SEMICONDUCTOR DEVICE, DIODE	16
2	1006750-78	RESISTOR, 1/4 W ± 2%	15
1	1006864	RESISTOR, VARIABLE	14
2	1006750-63	RESISTOR, 1/4 W ± 2%	13
2	1006750-56	RESISTOR, 1/4 W ± 2%	12
2	1006750-39	RESISTOR, 1/4 W ± 2%	11
AR	1006776-20	INSULATION, SLEEVING	10
AR	1006834	COMPOUND, SILICONE RUBBER	9
AR	1006757-1	WIRE, ELECTRICAL (.010 X .020)	8
1	1014327	MODULE, INJECTION MOLDING	7
2	MS35337-79	WASHER, LOCK	6
2	1006997	WASHER, PLAIN, FLAT	5
2	1006998-1	SCREW, CAPTIVE	4
2	1014032	RECEPTACLE, INDEXING	3
1	1014324	CONNECTOR, 20 PIN	2
1	1014326	FRAME, MODULE	1

LIST OF MATERIALS

1014226

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN Ed Williard DATE 22MAY63
CHECKED A. Perrone 11 JUN 63
APPROVAL C.S. 7/1/63
APPROVAL 7/30/63
APPROVAL
NASA APPROVAL 8/7/63
MIT APPROVAL 8/6/63
MIT APPROVAL George J. 8/7/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CLOCK MODULE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014226
SCALE 4/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1
PHOTOGRAPHIC SCALE ONLY

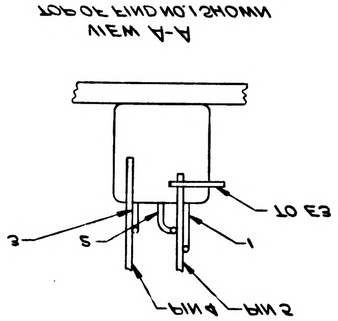
E2

1014226

ET 1014226

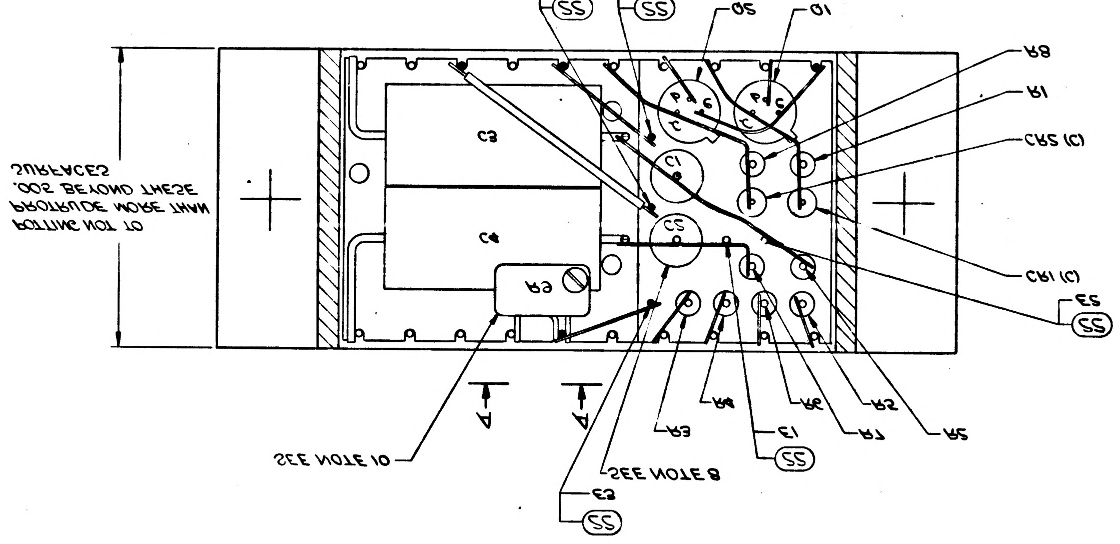
NOTES

1. WIRE PER ND1005003
2. WHITE DOT INDICATES FIRST LEVEL WIRING
3. BLACK DOT INDICATES SECOND LEVEL WIRING
4. STAKE FIND NUMBER 14 TO FIND NUMBER 1 & FIND NUMBER 18 TO FIND NUMBER 7 PER ND1005004
5. FILL WITH FIND NO. 23 PER ND1005183.
6. SEE 1014007 FOR POSITIONING OF PROGRAM TABS
7. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
8. STAKE FIND NO. 11, 12, 13, 15, 16, 17 & 19 TO FIND NO. 7 PER ND1005003
9. UNUSED PINS MAY BE TRIMMED FLUSH WITH FIND NO. 2 (CONNECTOR) AND EXCESSIVE LEAD HEIGHT MAY BE TRIMMED .010-.030 ABOVE HIGHEST WELD ON EACH LEAD
10. COAT FIND NO 14 USING FIND NO 9 PER ND1005003
11. NO LEADS OR COMPONENTS TO PROTRUDE THRU POTTING



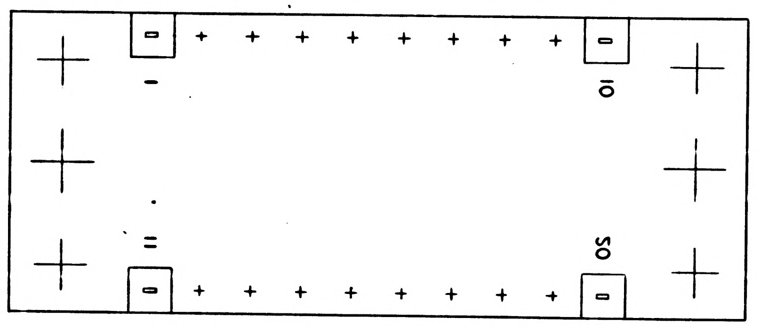
TO E3
1
2
3
PIN 4
PIN 5

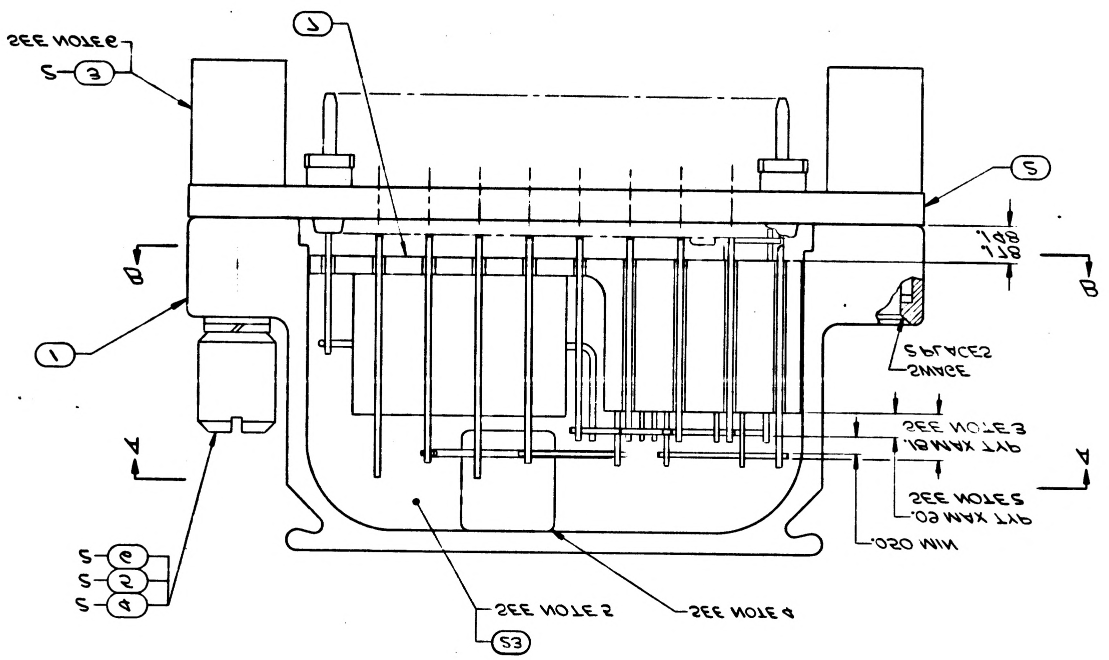
VIEW A-A
TOP OF FIND NO.1 SHOWN FOR CLARITY



E4
E2
(22)
(22)
Q2
Q1
R8
R1
CR2 (C)
CR1 (C)
E2
(22)
R2
R7
R6
E1
(22)
R4
R3
SEE NOTE 8
E3
(22)
SEE NOTE 10
A
A
C3
C4
C1
C2
R9
POTTING NOT TO PROTRUDE MORE THAN .002 BEYOND THESE SURFACES

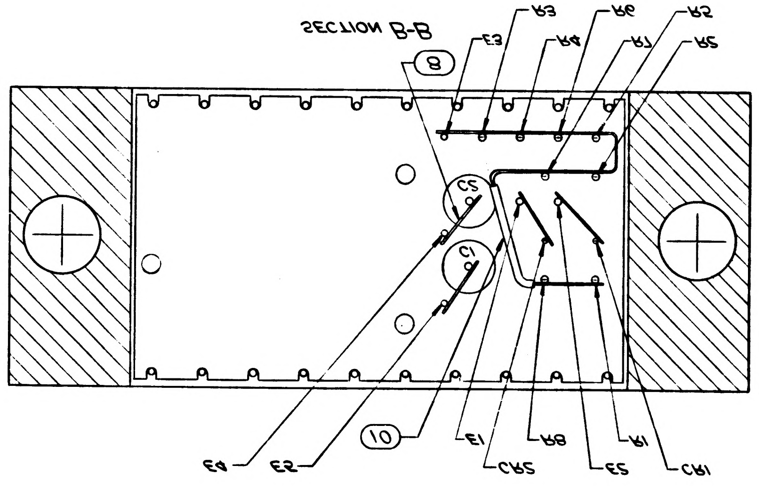
SECTION A-A





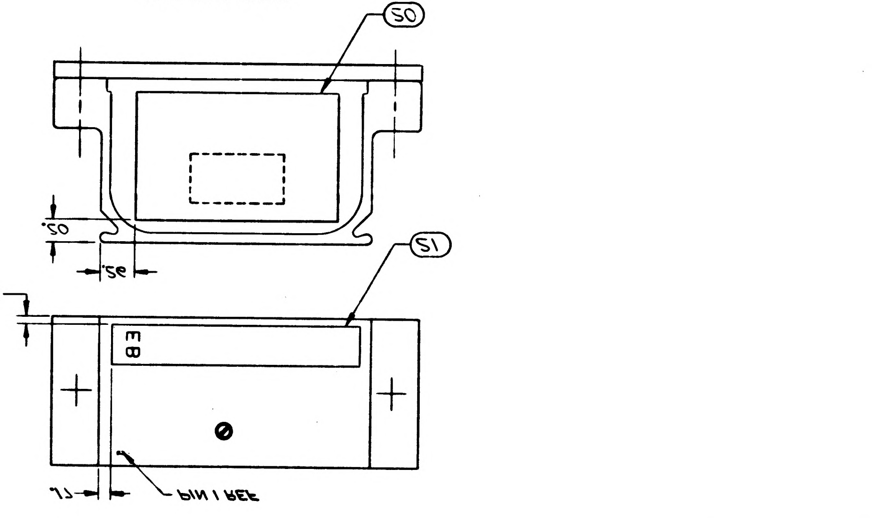
SEE NOTE 6
2 (6)
(7)
(5)
(1)
.198
.178
B
B
5 PLACES
SWAGE
SEE NOTE 3
.16 MAX TYP
SEE NOTE 2
.09 MAX TYP
.020 MIN
A
A
2 (4)
2 (5)
2 (6)
SEE NOTE 5
SEE NOTE 4
(23)

CLASS B RELEASE PER TDRR NO.
FOR INFORMATION ONLY



(8)
E3
R3
R4
R6
R7
R5
C2
C1
E4
E2
(10)
E1
CR2
R8
E5
R1
CR1

SECTION B-B



(20)
.20
.25
(21)
.06
EB
PIN 1 REF
.17

MARKING VIEW
SCALE 2/1

REFERENCE DESIGNATIONS	
SYMBOL	FIND NO.
R1, R8	11
R2, R7	12
R3, R6	13
R9	14
R4, R5	15
CR1, CR2	16
C1, C2	17
C3, C4	18
Q1, Q2	19

1014226

APPLICATION		FINAL FINISH		MIT APPROVAL	SCALE 4/1
NEXT ASSY	USED ON	HEAT TREATMENT		MIT APPROVAL	CODE IDENT NO
	1014156	MATERIAL		NASA APPROVAL	SIZE J
		DO NOT SCALE THIS DRAWING		APPROVAL	CLOCK
		FRACTIONS ±	DECIMALS ±.03	ANGLES ±	CHECKED
		TOLERANCES ON		DRAWN	DATE 22 MAY 63
		DIMENSIONS ARE IN INCHES		CONTRACT NO NAS 9-4998	
		UNLESS OTHERWISE SPECIFIED		RAYTHEON CO LEXINGTON, MASS	MANNED SPACEC HOUSTON

LIST OF MATERIALS

REQD QTY	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
1	1014356	FRAME, MOD
1	1014354	CONNECTOR
2	1014035	RECEPTACLE
2	1006998-1	SCREW, CAP
2	1006997	WASHER, FLA
2	MS35337-79	WASHER, LOC
1	1014357	MODULE
AR	1006727-1	WIRE, ELECTR
AR	1006834	[illegible]
AR	1006776-20	INSULATION
2	1006720-39	RESISTOR, 1/4
2	1006720-26	RESISTOR, 1/4
2	1006720-63	RESISTOR, 1/4
1	1006864	RESISTOR, 1 W
2	1006720-78	RESISTOR, 1/4
2	1006721	SEMICONDUCTOR
2	1006867	CAPACITOR
2	1006866	CAPACITOR
2	1006725	TRANSISTOR
1	1014200-10	DECAL, IDENT
1	1014199-11	DECAL, IDENT
AR	1006787-2	WIRE, ELECTR
AR	1006904	EPOXY RESIN
☒	1014358	SCHEMATIC

SYM	DESCRIPTION
—	CLASS B RELEASED PER TDRR

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		

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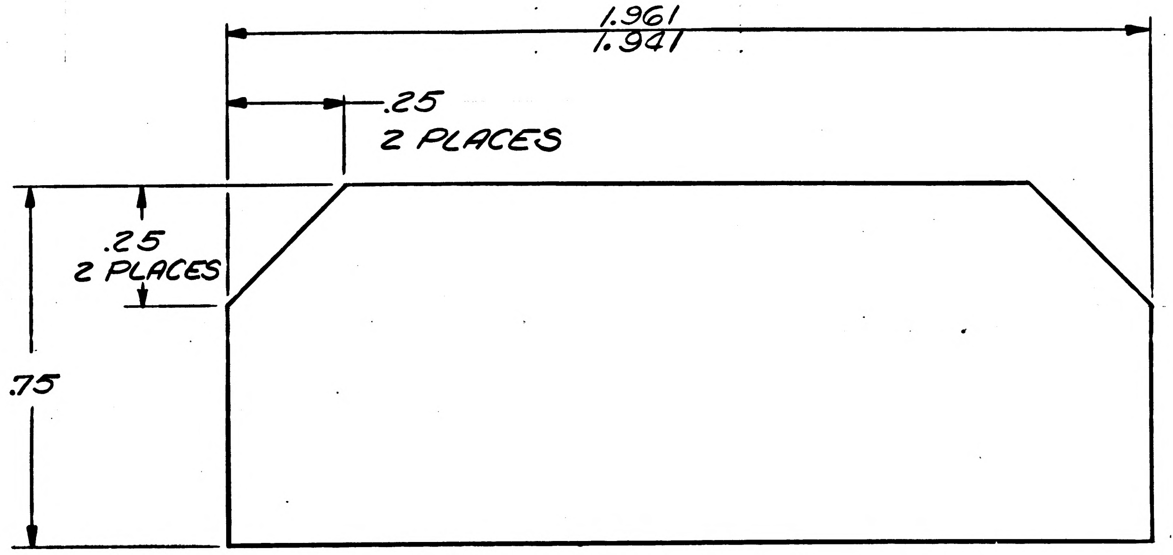

NOTES

1. MATL .031 THK PLASTIC SHEET PER MIL-P-18177, TYPE GEB
2. REMOVE SHARP EDGES

FOR INFORMATION ONLY

CLASS B RELEASE PER TDRR NO. 02386 DATE 8/7/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014219	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE

HEAT TREATMENT

FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498

DRAWN Adrian DATE 22APR63
CHECKED 8 May 63
APPROVAL C Sperling 7/2?/63
APPROVAL 7/28/63
APPROVAL 31 July 63
NASA APPROVAL 8/7/63
MIT APPROVAL 8/6/63
MIT APPROVAL 8/7/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BOARD, COMPONENT

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014227
SCALE 4/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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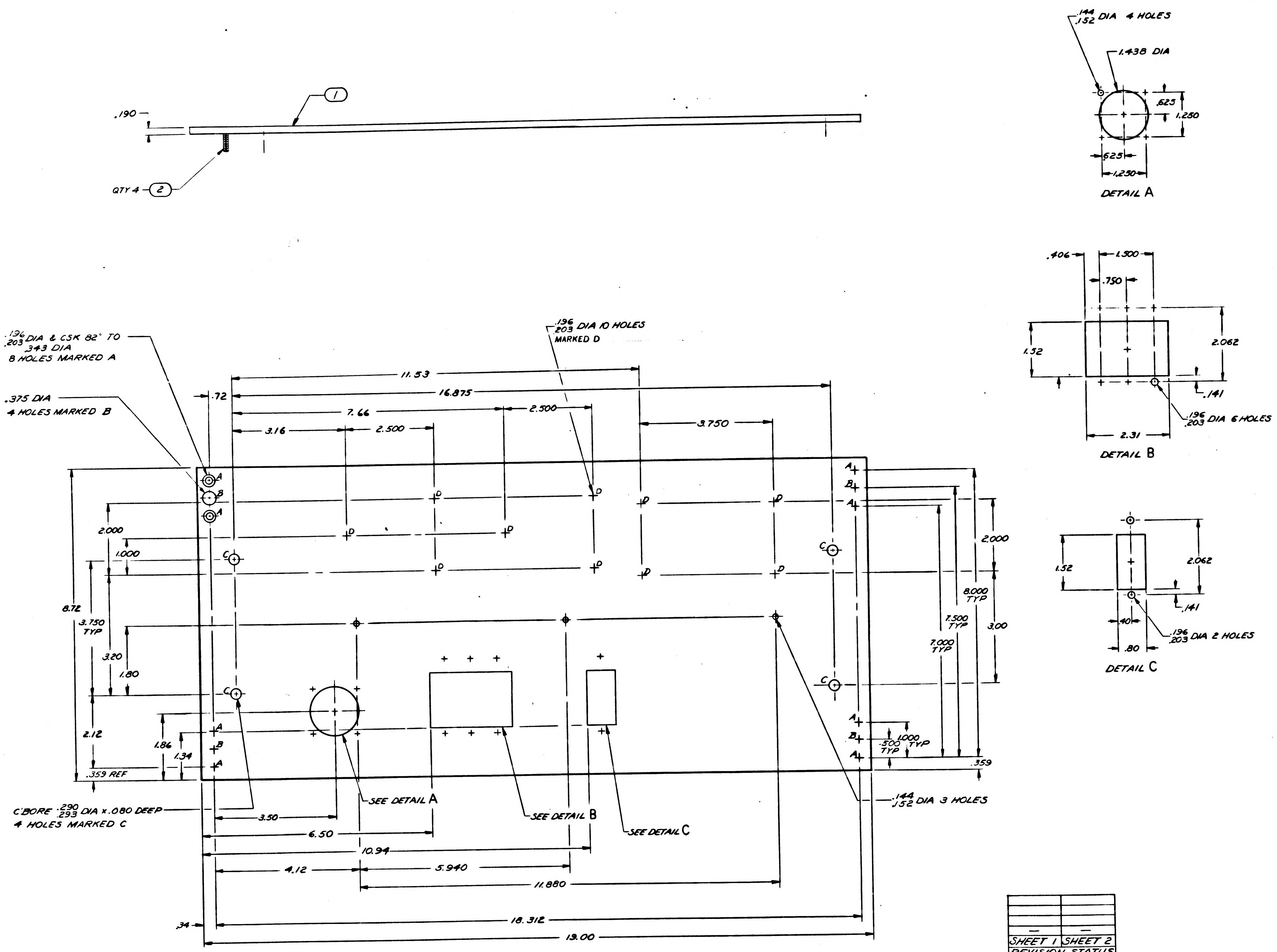
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		



.190
①
QTY 4 ②
.144/.152 DIA 4 HOLES
1.438 DIA
.625
1.250
.625
1.250
DETAIL A
.406
1.500
.750
1.52
2.062
.141
.196/.203 DIA 6 HOLES
2.31
DETAIL B
1.52
2.062
.141
.40
.80
.196/.203 DIA 2 HOLES
DETAIL C
.196/.203 DIA & CSK 82° TO .343 DIA 8 HOLES MARKED A
.375 DIA 4 HOLES MARKED B
.196/.203 DIA 10 HOLES MARKED D
.72
11.53
16.875
7.66
2.500
3.16
2.500
3.750
2.000
1.000
8.72
3.750 TYP
3.20
1.80
2.12
1.86
1.34
.359 REF
2.000
8.000 TYP
7.500 TYP
7.000 TYP
3.00
1.000 TYP
.500 TYP
.359
C'BORE .290/.293 DIA x .080 DEEP 4 HOLES MARKED C
SEE DETAIL A
SEE DETAIL B
SEE DETAIL C
.144/.152 DIA 3 HOLES
3.50
6.50
10.94
4.12
5.940
11.880
18.312
19.00
.34
A
B
C
D

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. C1385 DATE 5-29-63

—	—
SHEET 1	SHEET 2

REVISION STATUS OF SHEETS

,PER QQ-A-327 TEMP T6
ND SHARP EDGES
UCTIVE CHROMATE PER MIL-C-5541
GES (ONE) COAT PER TT-E-529, CLASS B,
LOR NO. 26440, PER MIL-F-14072

RONT OF PANEL) .12, .19 & .31 HIGH
RS PER ND 1002019
ANEL) .12 HIGH BLACK
R ND 1002019

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
4	1006951-007	STUD, CAPTIVE	2
1	1014228-1	PANEL	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014136	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS9-498
DRAWN A. Zecca DATE 29 Mar 63
CHECKED A. Pearce 9 May 63
APPROVAL C. Speedon
APPROVAL 17 May 63
APPROVAL
NASA APPROVAL
MIT APPROVAL 5/29/63
MIT APPROVAL 29 May 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL,
AC INPUT

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014228
SCALE 1/1
WT
SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014228

INCHES
PHOTOGRAPHIC SCALE ONLY

1014228

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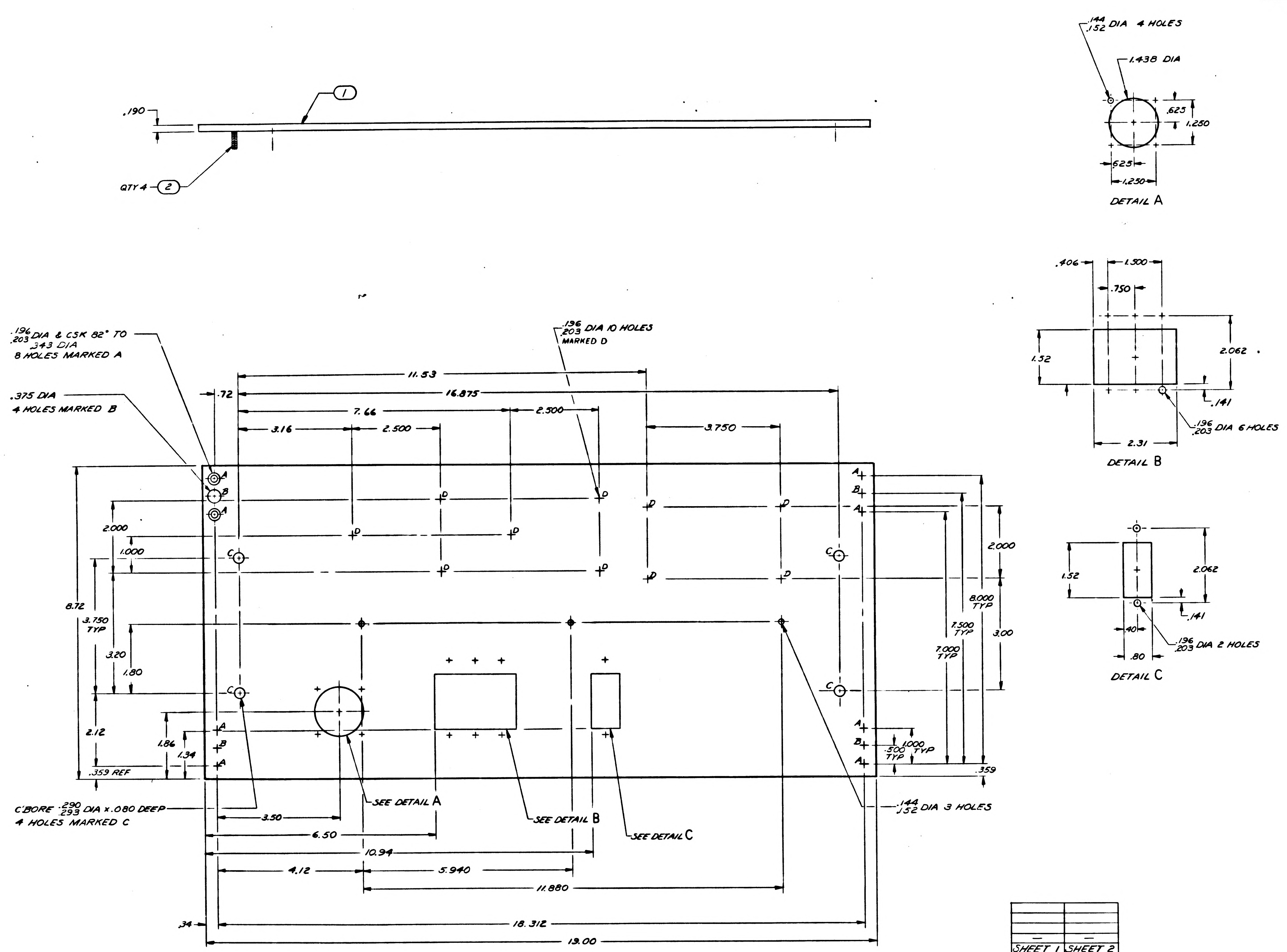
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO

REVISIONS	
SYM	DESCRIPTION
–	CL B RELEASED PER TDRR

1014558



1
.190
QTY 4 – 2
.144/.152 DIA 4 HOLES
1.438 DIA
.625
1.250
.625
1.250
DETAIL A
.406
1.500
.750
1.52
2.062
.141
.196/.203 DIA 6 HOLES
2.31
DETAIL B
1.52
2.062
.141
.40
.80
.196/.203 DIA 2 HOLES
DETAIL C
.196/.203 DIA & CSK 82° TO .343 DIA 8 HOLES MARKED A
.196/.203 DIA 10 HOLES MARKED D
.375 DIA 4 HOLES MARKED B
11.53
.72
16.875
7.66
2.500
3.16
2.500
3.750
2.000
1.000
8.72
3.750 TYP
3.20
1.80
2.12
1.86
1.34
.359 REF
2.000
8.000 TYP
7.500 TYP
7.000 TYP
3.00
1.000 TYP
.500 TYP
.359
C'BORE .290/.293 DIA x .080 DEEP 4 HOLES MARKED C
SEE DETAIL A
SEE DETAIL B
SEE DETAIL C
.144/.152 DIA 3 HOLES
3.50
6.50
10.94
4.12
5.940
11.880
.34
18.312
13.00

FOR INFORMATION ONL
CLASS B RELEASE TDRR NO.

—	—
SHEET 1	SHEET 2
REVISION STATUS OF SHEETS	

NOTES
1. MATL: 6061-T6 AL PER QQ-A-327 TEMP T6
2. REMOVE BURRS AND SHARP EDGES
3. ELECTRICALLY CONDUCTIVE CHROMATE PER MIL-C-5541
4. PAINT FRONT & EDGES 1(ONE) COAT PER TT-E-529, CLASS B, FED-STD-595, COLOR NO. 26440, PER MIL-F-14072 P 513 TYPE II
5. SILK SCREEN (FRONT OF PANEL) .12, .19 & .31 HIGH BLACK CHARACTERS PER ND 1002019
6. MARK (REAR OF PANEL) .12 HIGH BLACK CHARACTERS PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
4	1006951-007	STUD, CAPTIVE
1	1014228-1	PANEL

LIST OF MATERIALS

NEXT ASSY	USED ON
1014136	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS9-498
DRAWN A. Efece DATE 29 MAR 63
CHECKED A. Pereira 9 May 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT C
HOUSTON, TEXAS

PANEL,
AC INPUT

CODE IDENT NO —
SIZE J
1014
SCALE 1/1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

[illegible] SPECIFICATIONS OR OTHER DATA [illegible] IN CONNECTION WITH A DEFINITELY [illegible] THE UNITED STATES GOVERN- [illegible] INCUR ANY OBLIGATION WHATSOEVER [illegible] HAVE FORMULATED FURNISHED OR [illegible] SPECIFICATIONS OR OTHER DATA IS [illegible] OR OTHERWISE AS IN ANY MANNER [illegible] OR CORPORATION OR CONVEY- [illegible] MANUFACTURE USE OR SELL ANY [illegible] BE RELATED THERETO

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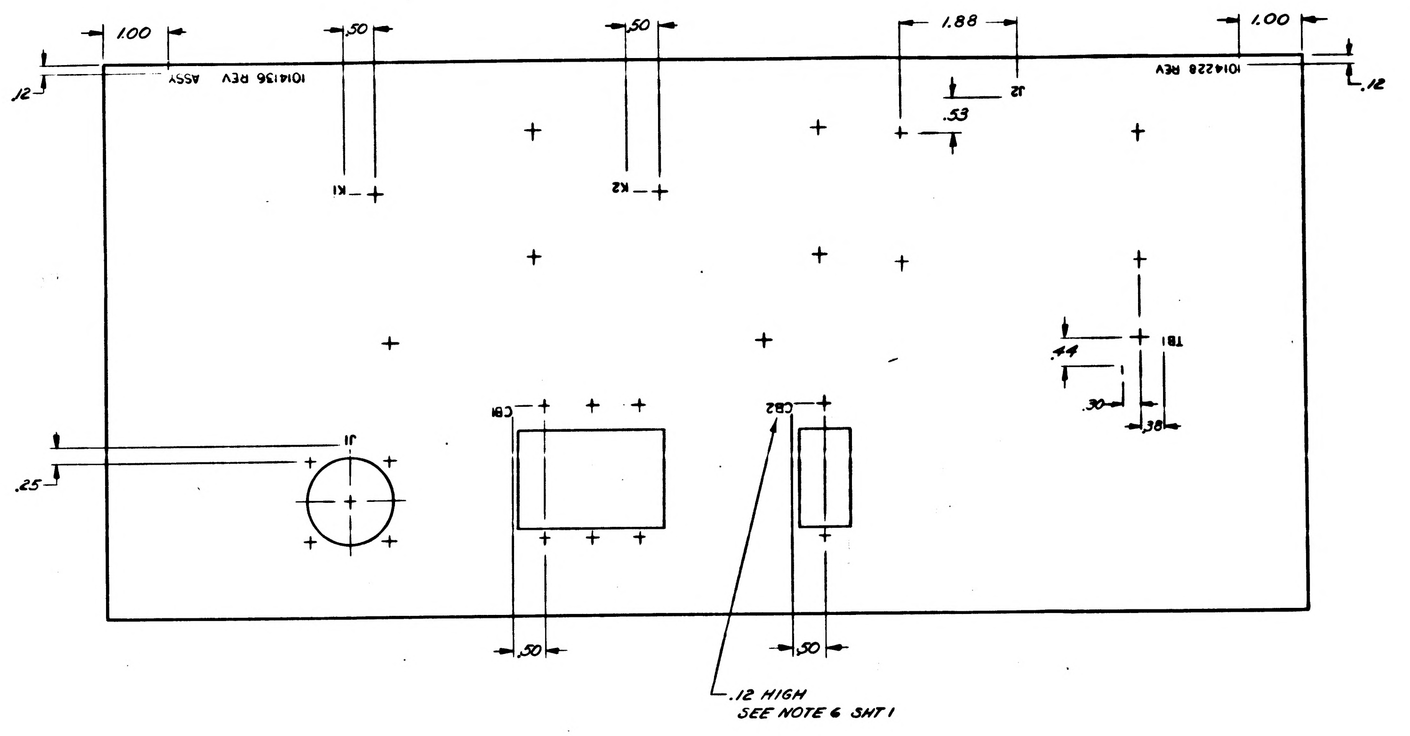
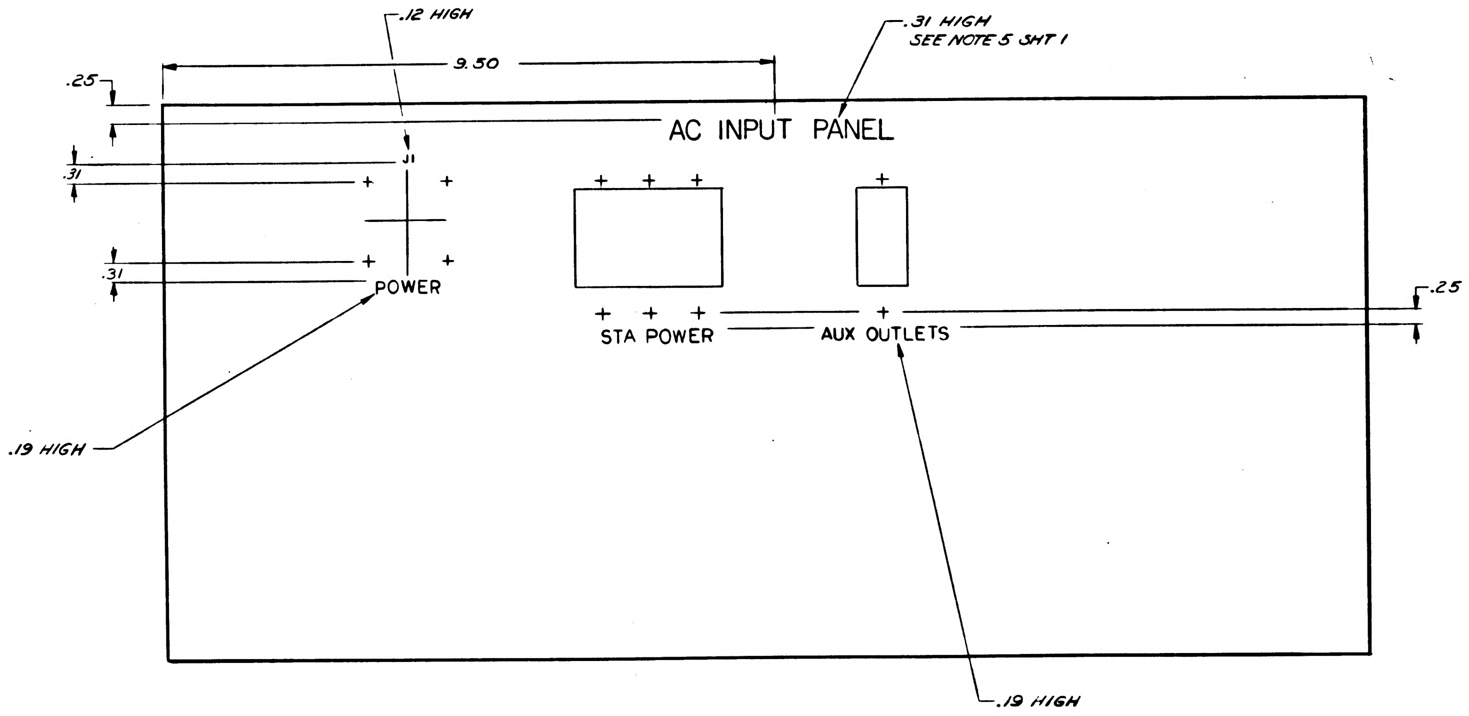
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		


1.00
.50
.50
1.88
1.00
.12
.12
1014136 REV ASSY
1014228 REV
J2
.53
K1
K2
TB1
.44
.30
.38
J1
.25
CB1
CB2
.50
.50
.12 HIGH
SEE NOTE 6 SHT 1

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 01395 DATE 5-29-63


.12 HIGH
9.50
.31 HIGH
SEE NOTE 5 SHT 1
.25
AC INPUT PANEL
J1
.31
.31
POWER
STA POWER
AUX OUTLETS
.25
.19 HIGH
.19 HIGH

1014228

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014136	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN A. Vocce DATE 29 Apr 63
CHECKED A Penny 9 May 63
APPROVAL C Spellm [illegible]
APPROVAL [illegible] 23 May 63
APPROVAL [illegible]
NASA APPROVAL Jack Barnard
MIT APPROVAL A Schaum 5/29/63
MIT APPROVAL W Wyff 29 May 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL,
AC INPUT

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014228
SCALE 1/1
WT
SHEET 2 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

1014558

1014558

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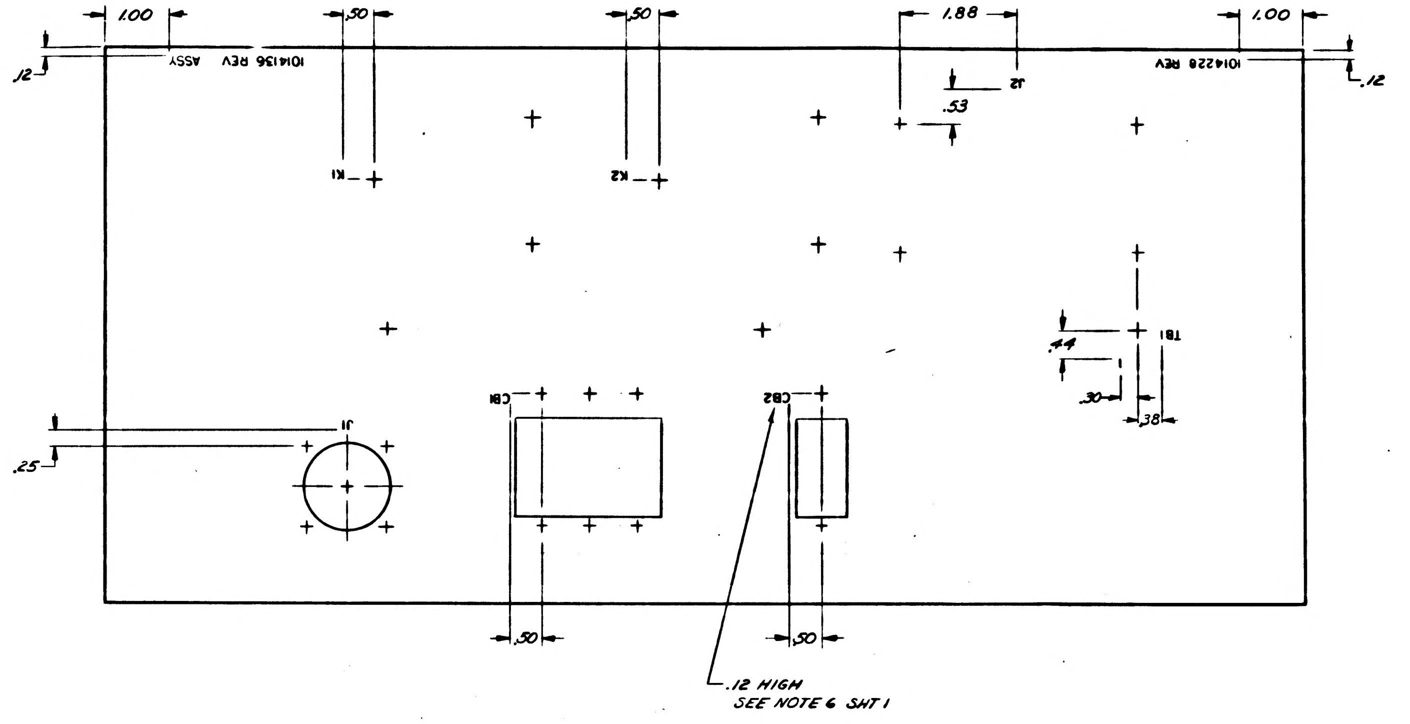
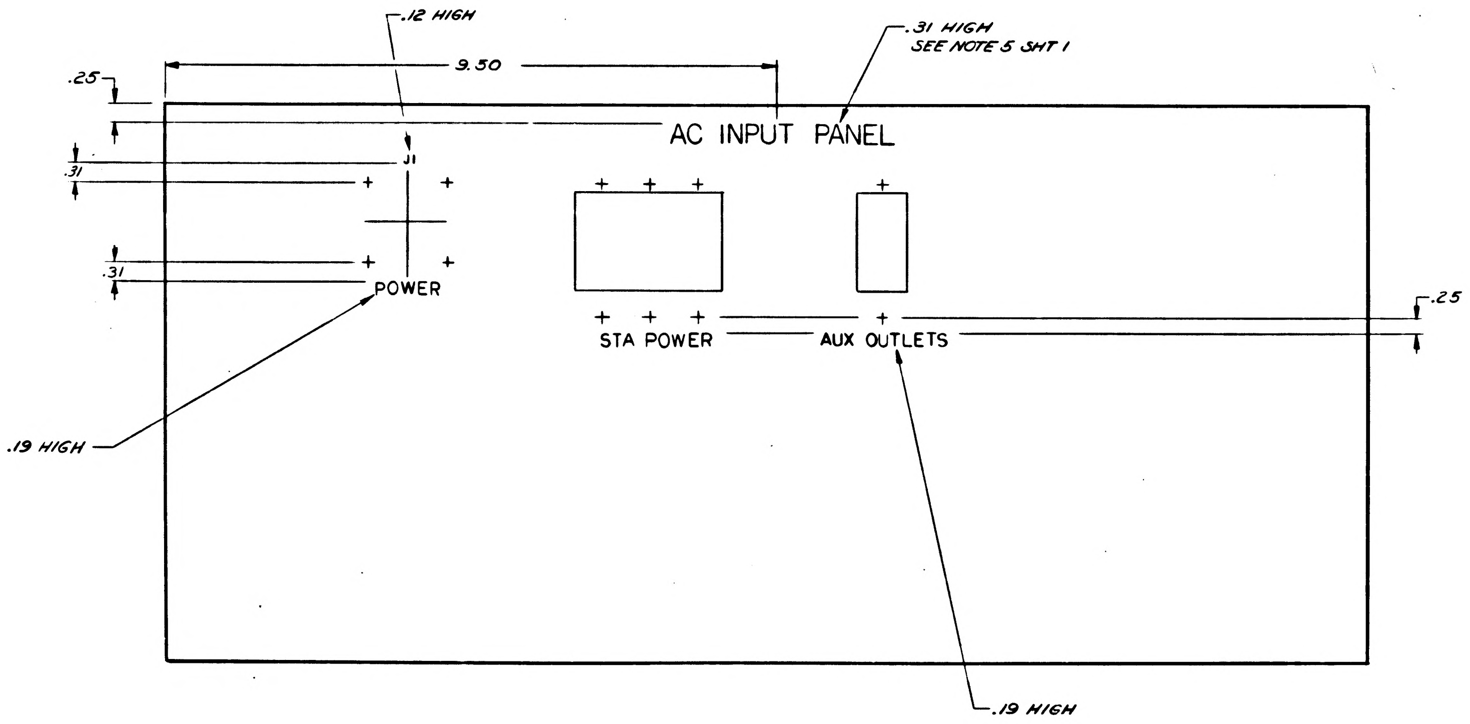
SYM	REVISIONS DESCRIPTION
—	CL B RELEASED PER TDRR


1.00
.50
.50
1.88
1.00
.12
1014136 REV ASSY
1014228 REV
.12
J2
.53
K1
K2
TB1
.44
.30
.38
J1
CB1
CB2
.25
.50
.50
.12 HIGH
SEE NOTE 6 SHT 1

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 01395 DA


.12 HIGH
.31 HIGH
SEE NOTE 5 SHT 1
.25
9.50
AC INPUT PANEL
J1
.31
.31
POWER
STA POWER
AUX OUTLETS
.25
.19 HIGH
.19 HIGH

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION

LIST OF MATERIALS

1014136	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN [illegible] DATE 29 MAR 63
CHECKED A Persons 9 May 63
APPROVAL [illegible]
APPROVAL [illegible] 17 Mar 63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT
HOUSTON, TEXAS

PANEL
AC INP

CODE IDENT NO —
SIZE J
101
SCALE 1/1
WT

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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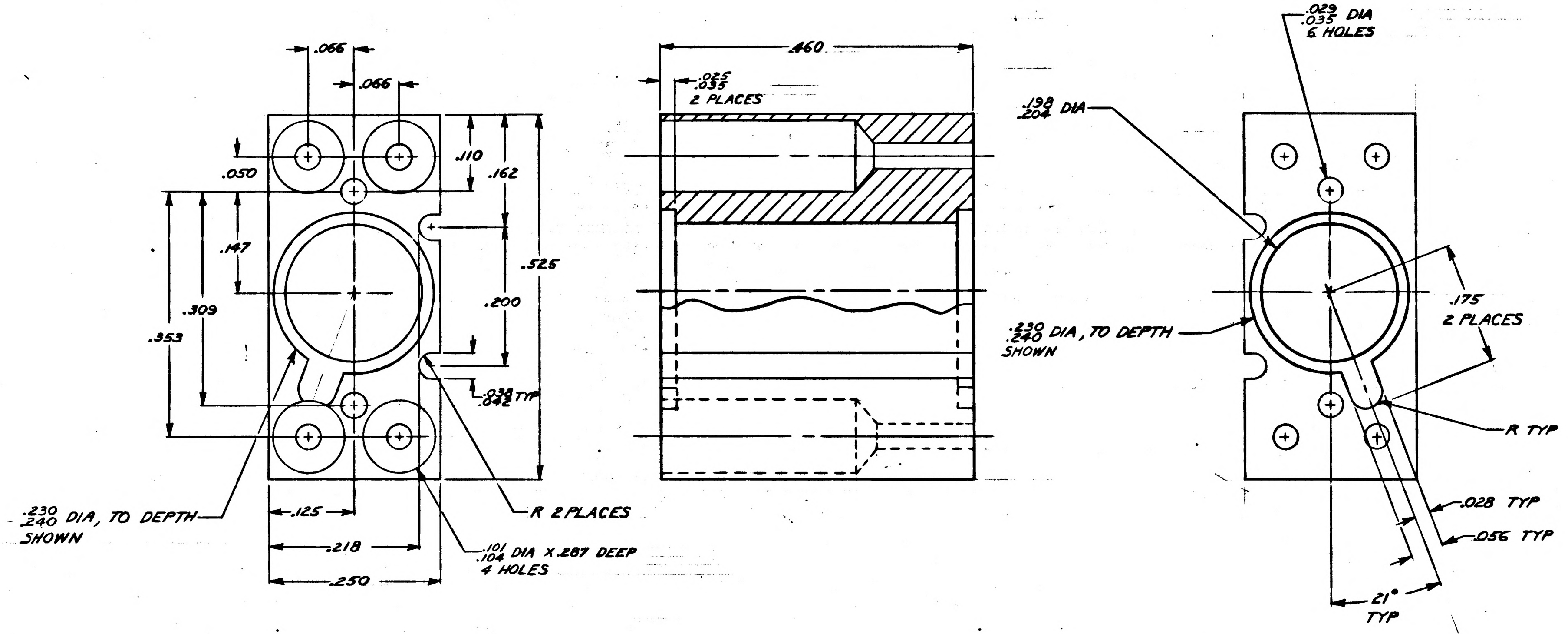
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5456A DR A. Belanger CHK T. [illegible] APPD [illegible]	[illegible] 1963	[illegible]
B	CHANGED PER TDRR 05799 [illegible] CHK R. Fleischer APPD [illegible]	29 Jun 64	W[illegible]


.066
.066
.050
.110
.162
.147
.525
.309
.200
.353
.038 TYP
.042
.230
.240 DIA, TO DEPTH
SHOWN
.125
.218
.250
R 2 PLACES
.101
.104 DIA X .287 DEEP
4 HOLES
.460
.025
.035
2 PLACES
.198
.204 DIA
.230
.240 DIA, TO DEPTH
SHOWN
.029
.035 DIA
6 HOLES
.175
2 PLACES
R TYP
.028 TYP
.056 TYP
21°
TYP

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02386 DATE 5/7/63

NOTES:

1. MATL: COMPOUND PLASTIC PER MIL-P-20693 IV, 20% GLASS RE-ENFORCED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014219	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 23 APR 63
CHECKED [illegible] 5 May 63
APPROVAL C. S[illegible] 7/2/63
APPROVAL [illegible] 7/19/63
APPROVAL [illegible] 3/1/63
NASA APPROVAL [illegible] 8/7/63
MIT APPROVAL L. [illegible] 8/6/63
MIT APPROVAL George J. [illegible] 8/7/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HOUSING
DIGITAL TO ANALOG CONVERTOR MOD

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014229
SCALE 10/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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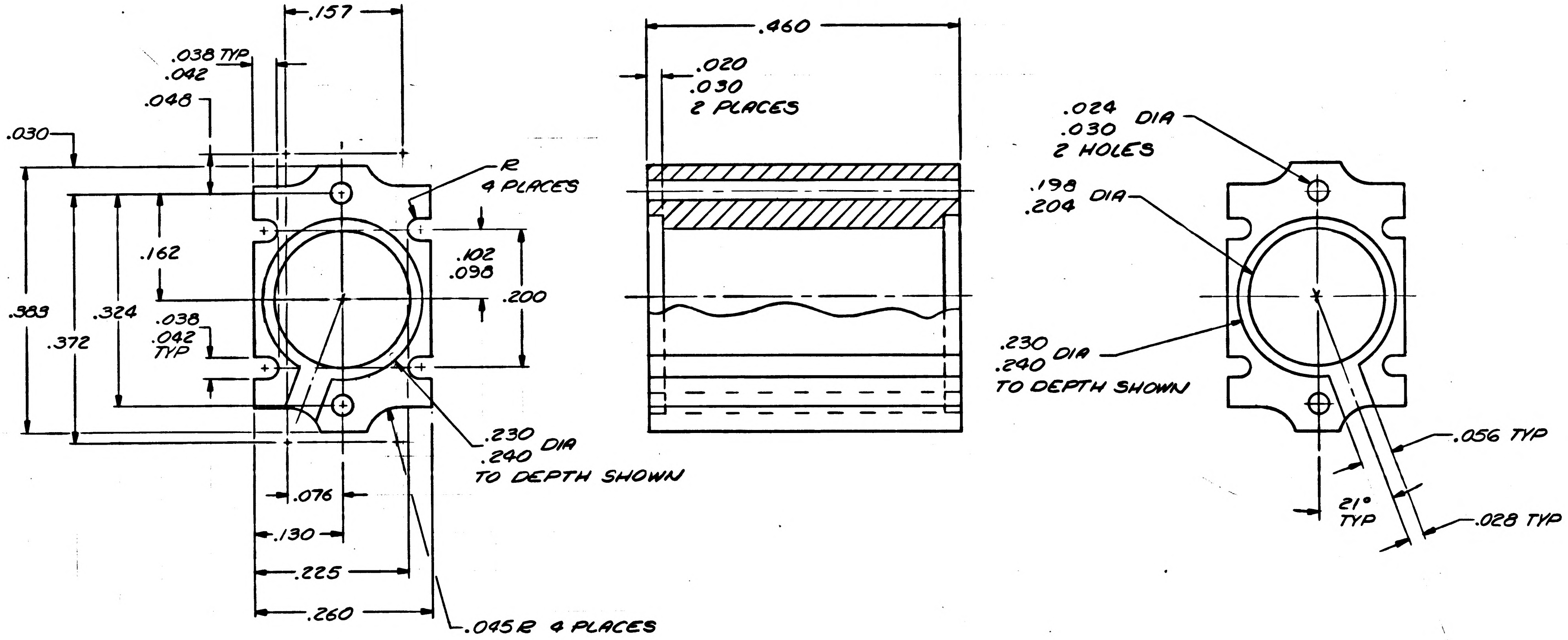
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		



.157
.038 TYP
.042
.048
.030
R
4 PLACES
.162
.102
.098
.200
.383
.372
.324
.038
.042
TYP
.230
.240 DIA
TO DEPTH SHOWN
.076
.130
.225
.260
.045R 4 PLACES
.460
.020
.030
2 PLACES
.024
.030 DIA
2 HOLES
.198
.204 DIA
.230
.240 DIA
TO DEPTH SHOWN
.056 TYP
21°
TYP
.028 TYP

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02386 DATE 8/7/63

NOTES
1. MATL CLEAR NYLON PER MIL-M-20693, TYPE IV

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014219	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN Adrian DATE 23 APR 63
CHECKED 8 May 63
APPROVAL 7/31/63
APPROVAL 7/31/63
APPROVAL
NASA APPROVAL 8/7/63
MIT APPROVAL 8/6/63
MIT APPROVAL George J. 8/7/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HOUSING
DIGITAL TO ANALOG CONVERTOR MOD

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014229
SCALE 10/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014229

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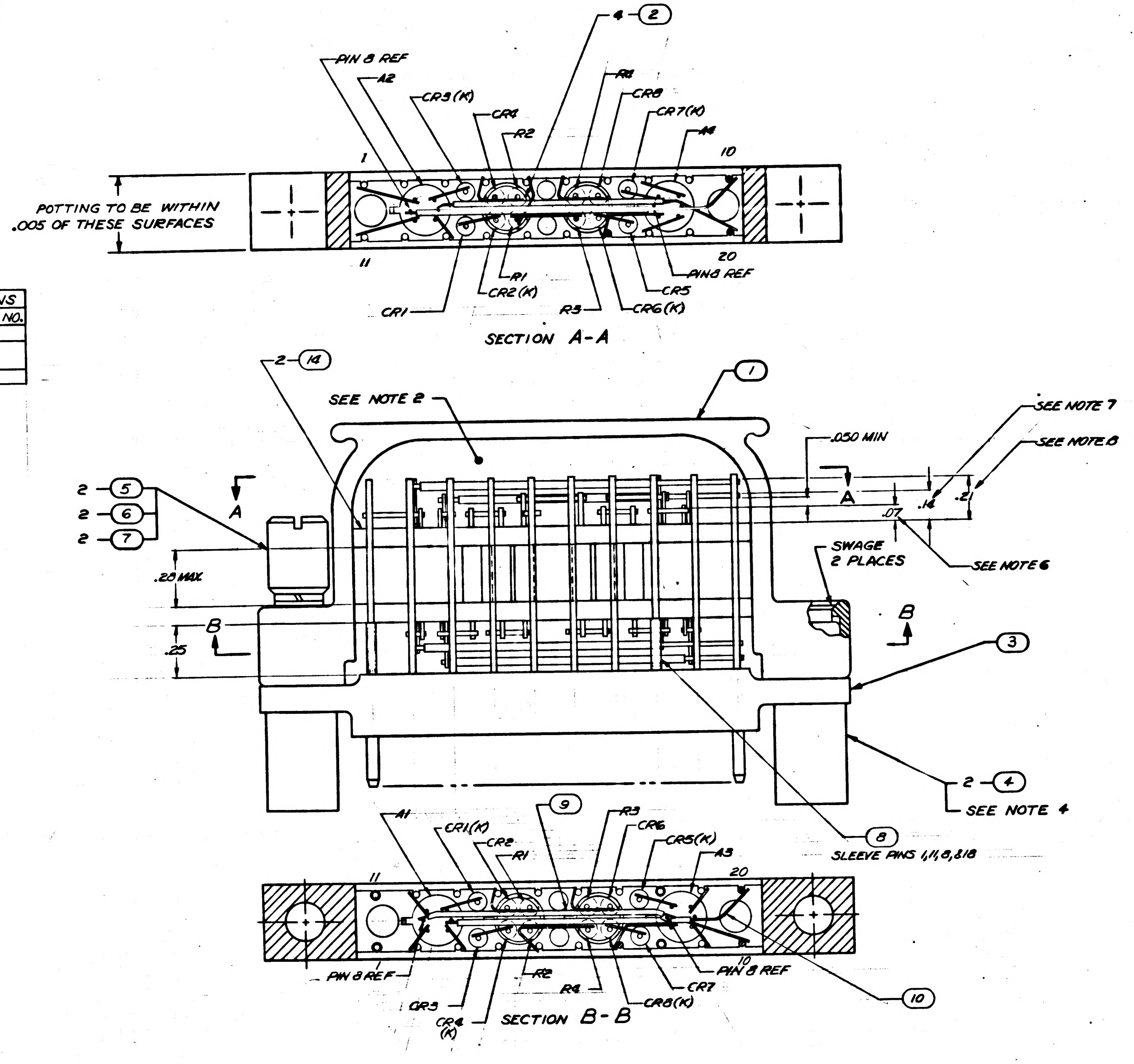
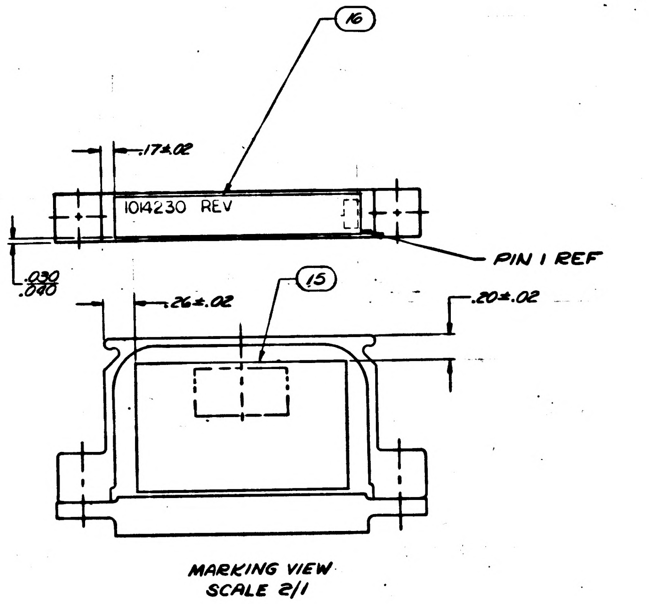
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR NO. 01299		
A	REPLACED WITH CHANGE BY REV B PER TDRR 04782 Cas		


4-(2)
PIN 8 REF
A2
CR3 (K)
CR4
R2
R4
CR8
CR7(K)
A4
1
10
POTTING TO BE WITHIN .005 OF THESE SURFACES
11
20
PIN 8 REF
CR5
CR6(K)
R3
R1
CR2 (K)
CR1
SECTION A-A
2-(14)
SEE NOTE 2
(1)
.050 MIN
SEE NOTE 7
SEE NOTE 8
2-(5)
2-(6)
2-(7)
A
A
.16
.21
.07
SEE NOTE 6
SWAGE 2 PLACES
.28 MAX
B
B
.25
(3)
2-(4)
SEE NOTE 4
(8)
SLEEVE PINS 1,11,8,&18
A1
CR1(K)
CR2
R1
(9)
R3
CR6
CR5(K)
A3
11
20
10
PIN 8 REF
PIN 8 REF
R2
R4
CR7
CR8(K)
(10)
CR3
CR4 (K)
SECTION B-B

REF DESIGNATIONS	
SYMBOL	FIND NO.
R1, R2, R3, R4	11
CR1, CR2, CR3, CR4, CR5, CR6, CR7, CR8	12
A1, A2, A3, A4	13


(16)
.17±.02
1014230 REV
PIN 1 REF
.030
.040
.26±.02
(15)
.20±.02

MARKING VIEW
SCALE 2/1

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01299 DATE 5/22/63

Ⓐ REPLACED WITH CHANGE BY REV B

NOTES
1. WIRE PER ND1002003
2. FILL WITH EPOXY RESIN PER ND1002002 COLOR BLACK
3. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
4. SEE 1014047 FOR POSITIONING OF PROGRAM TABS
5. STAKE FIND NO. 2, 11, & 12 TO FIND NO. 14 PER ND 1002009.
6. WHITE DOT INDICATES FIRST LEVEL WIRING
7. CROSS HATCHED DOT INDICATES SECOND LEVEL WIRING
8. BLACK DOT INDICATES THIRD LEVEL WIRING

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	1014231	SCHEMATIC	REF
1	1014199-8	DECAL, IDENTIFICATION	16
1	1014200-8	DECAL, IDENTIFICATION	15
2	1014068	INJECTION MOLDING	14
4	1006780	MICROLOGIC NOR	13
8	1006751	DIODE	12
4	1006750-39	RESISTOR 1/4 W, 2K, ±2%	11
AR	1006757-1	WIRE, ELECTRICAL	10
AR	1006776-23	INSULATION SLEEVING	9
AR	1006776-20	INSULATION SLEEVING	8
2	MS35337-79	WASHER, LOCK	7
2	1006997	WASHER, PLAIN FLAT	6
2	1006998-1	SCREW, CAPTIVE	5
2	1014032	RECEPTACLE, INDEXING	4
1	1014038	CONNECTOR, 20 PIN	3
4	1014240	ADAPTER, TO-18	2
1	1014000-1	FRAME, MODULE	1

LIST OF MATERIALS

NEXT ASSY	USED ON	
APPLICATION		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ±.02 ANGLES ±		
DO NOT SCALE THIS DRAWING		
MATERIAL		
HEAT TREATMENT		
FINAL FINISH		

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE
CHECKED 2 May 63
APPROVAL
APPROVAL 13-5-63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 5/22/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERFACE RECEIVER
MODULE

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	F	1014230
SCALE 4/1	WT	SHEET 1 OF 1

1014230

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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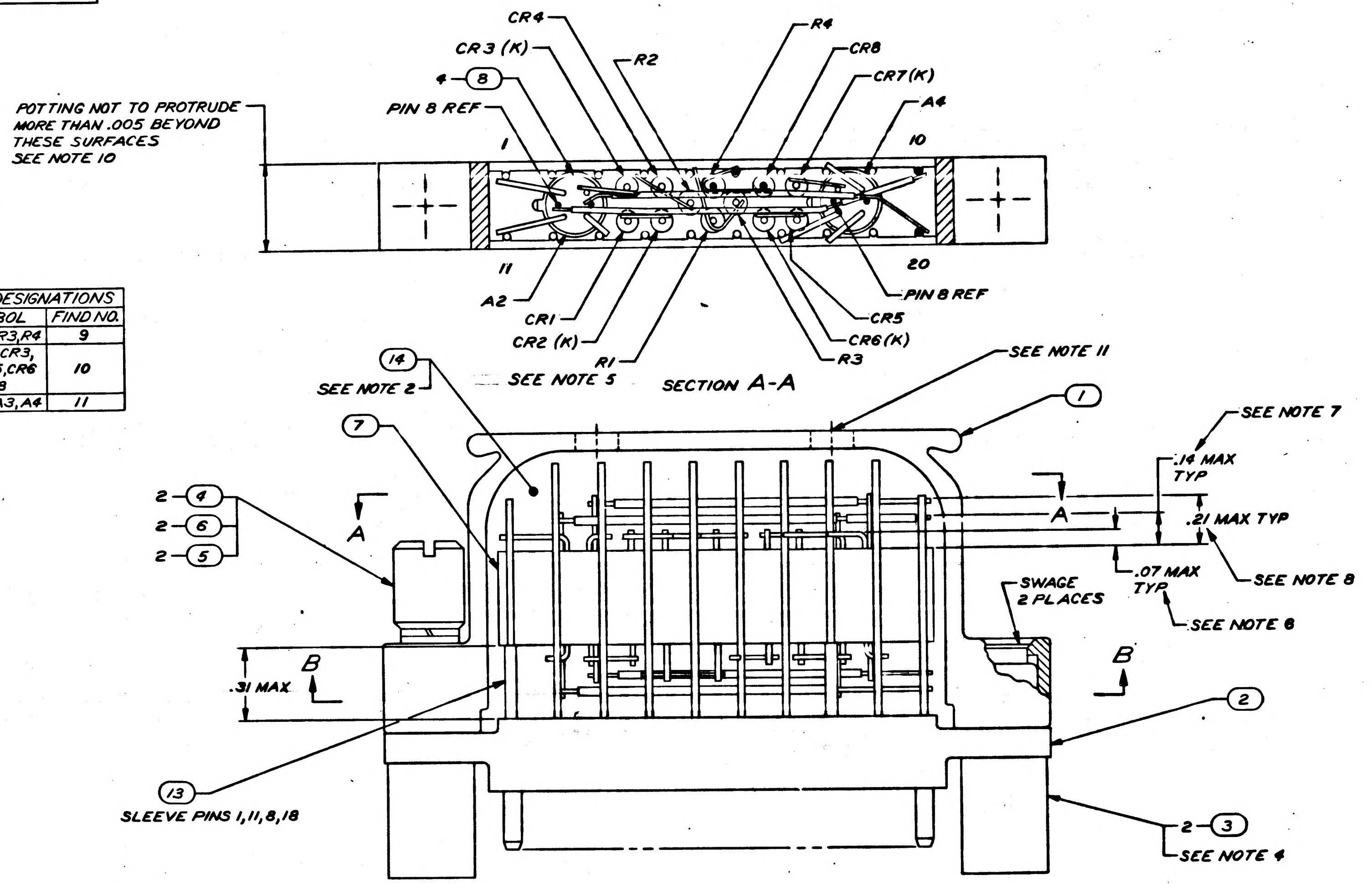
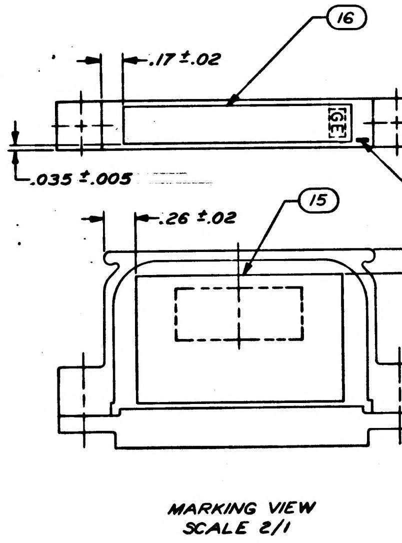
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER TDRR 04782 cas	1/7/68	JW



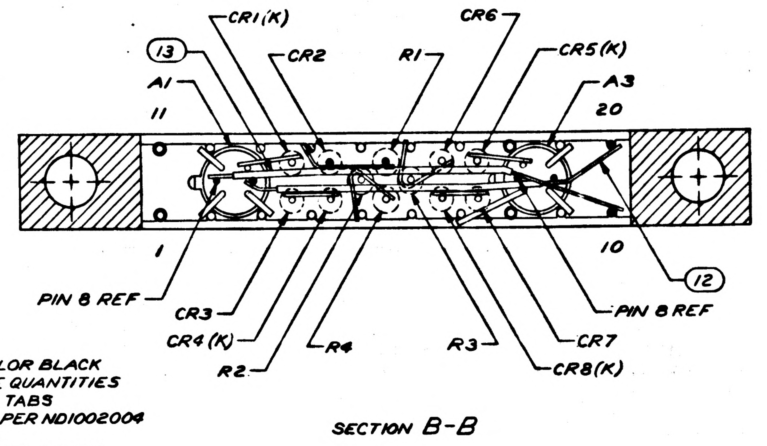
CR4
CR3 (K)
R2
R4
CR8
CR7(K)
A4
4 - 8
PIN 8 REF
POTTING NOT TO PROTRUDE MORE THAN .005 BEYOND THESE SURFACES SEE NOTE 10
1
10
11
20
A2
CR1
CR2 (K)
R1
PIN 8 REF
CR5
CR6(K)
R3
SEE NOTE 5
SECTION A-A
SEE NOTE 11
14
SEE NOTE 2
1
7
SEE NOTE 7
.14 MAX TYP
A
A
.21 MAX TYP
2 - 4
2 - 6
2 - 5
.07 MAX TYP
SEE NOTE 8
SEE NOTE 6
SWAGE 2 PLACES
B
B
.31 MAX
2
13
SLEEVE PINS 1,11,8,18
2 - 3
SEE NOTE 4

REF DESIGNATIONS	
SYMBOL	FIND NO.
R1, R2, R3, R4	9
CR1, CR2, CR3, CR4, CR5, CR6, CR7, CR8	10
A1, A2, A3, A4	11



16
.17 ± .02
GE
.035 ± .005
PIN 1 REF
15
.26 ± .02
.20 ± .02

MARKING VIEW
SCALE 2/1



CR1(K)
CR6
13
CR2
R1
CR5(K)
A1
A3
11
20
1
10
12
PIN 8 REF
CR3
PIN 8 REF
CR4(K)
R4
R3
CR7
R2
CR8(K)

SECTION B-B

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

Ⓑ REPLACES REV A WITH CHANGE

NOTES
1. WIRE PER ND1002003
2. FILL WITH FIND NO. 14 PER ND1002183 COLOR BLACK
3. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES
4. SEE 1014047 FOR POSITIONING OF PROGRAM TABS
5. STAKE FIND NO. 9, 10 AND 11 TO FIND NO. 7 PER ND1002004
6. WHITE DOT INDICATES FIRST LEVEL WIRING
7. CROSS HATCHED DOT INDICATES SECOND LEVEL WIRING
8. BLACK DOT INDICATES THIRD LEVEL WIRING
9. UNUSED CONNECTOR LEADS MAY BE CUT FLUSH TO +.030 WITH UPPER SURFACE OF FIND NO. 2 AND EXCESSIVE LEAD HEIGHT A MIN OF .030 ABOVE HIGHEST WELD ON EACH LEAD
10. NO BARE WIRE OR COMPONENTS TO SHOW THRU POTTING
11. POTTING TO BE FLUSH OR BELOW TOP OF VENT HOLES OF FIND NO. 1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	1014231	SCHEMATIC	REF
1	1014199-8	DECAL, IDENTIFICATION	16
1	1014200-8	DECAL, IDENTIFICATION	15
A/R	1006904	EPOXY RESIN	14
A/R	1006776-20	INSULATION SLEEVING	13
A/R	1006757-1	WIRE, ELECTRICAL	12
4	1006771	MICROLOGIC NOR GATE	11
8	1006751	DIODE	10
4	1006750-39	RESISTOR 1/4 W, 2K, ±2%	9
4	1014069	TRANSIPAD-TO-47	8
1	1020076	MODULE INJECTION MOLDING	7
2	MS35337-79	WASHER, LOCK	6
2	1006997	WASHER, PLAIN FLAT	5
2	1006998-1	SCREW, CAPTIVE	4
2	1014032	RECEPTACLE, INDEXING	3
1	1014038	CONNECTOR, 20 PIN	2
1	1014000-1	FRAME, MODULE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1014307

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN R.C. Taylor DATE 17 OCT 63
CHECKED 24 OCT 63
APPROVAL JPK
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERFACE RECEIVER
MODULE

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014230
SCALE 4/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

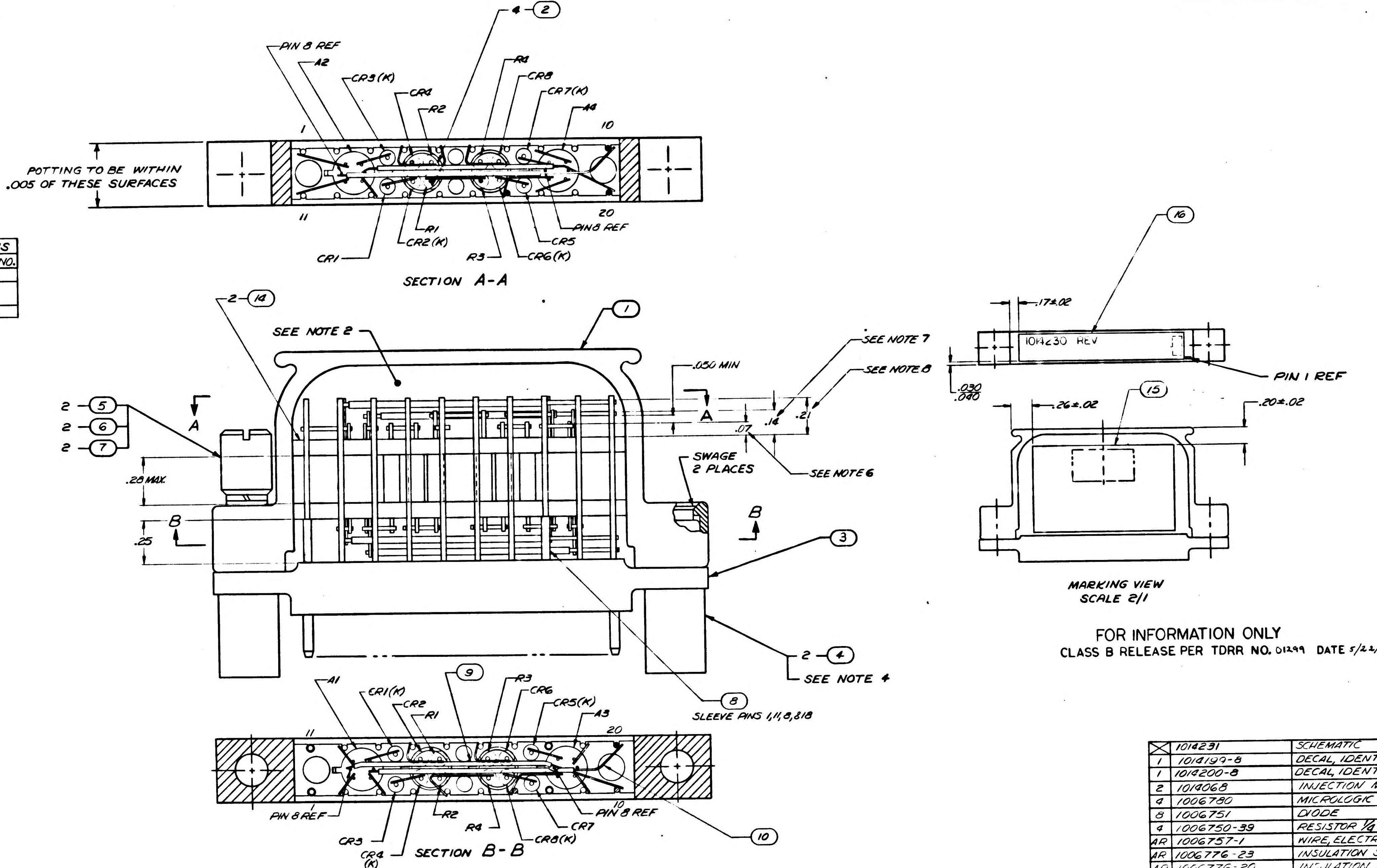
MASTER

PHOTOGRAPHIC SCALE ONLY

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TORR NO.		

REF DESIGNATIONS	
SYMBOL	FIND NO.
R1, R2, R3, R4	11
CR1, CR2, CR3, CR4, CR5, CR6, CR7, CR8	12
A1, A2, A3, A4	13


4 — 2
PIN 8 REF
A2
CR3 (K)
CR4
R2
R4
CR8
CR7 (K)
A4
1
10
POTTING TO BE WITHIN .005 OF THESE SURFACES
11
20
R1
CR2 (K)
CR1
R3
CR6 (K)
CR5
PIN 8 REF
SECTION A-A
16
.17±.02
1014230 REV
PIN 1 REF
.030 .040
.26±.02
15
.20±.02
2 — 14
1
SEE NOTE 2
SEE NOTE 7
SEE NOTE 8
.050 MIN
2 — 5
2 — 6
2 — 7
A
A
.16
.21
.07
SEE NOTE 6
SWAGE 2 PLACES
.28 MAX
B
B
.25
3
2 — 4
SEE NOTE 4
8
SLEEVE PINS 1, 11, 8, 818
A1
CR1 (K)
CR2
R1
9
R3
CR6
CR5 (K)
A3
11
20
PIN 8 REF
R2
R4
10
PIN 8 REF
CR7
CR3
CR4 (K)
CR8 (K)
SECTION B-B
10

MARKING VIEW
SCALE 2/1

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01299 DATE 5/22/63

NOTES
1. WIRE PER ND1002003
2. FILL WITH EPOXY RESIN PER ND1002002 COLOR BLACK
3. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
4. SEE 1014047 FOR POSITIONING OF PROGRAM TABS
5. STAKE FIND NO. 2, 11, & 12 TO FIND NO. 14 PER ND 1002009
6. WHITE DOT INDICATES FIRST LEVEL WIRING
7. CROSS HATCHED DOT INDICATES SECOND LEVEL WIRING
8. BLACK DOT INDICATES THIRD LEVEL WIRING

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1014231	SCHEMATIC	REF
1	1014199-8	DECAL, IDENTIFICATION	16
1	1014200-8	DECAL, IDENTIFICATION	15
2	1014068	INJECTION MOLDING	14
4	1006780	MICROLOGIC NOR	13
8	1006751	DIODE	12
4	1006750-39	RESISTOR 1/4 W, 2K, ±2%	11
AR	1006757-1	WIRE, ELECTRICAL	10
AR	1006776-23	INSULATION SLEEVING	9
AR	1006776-20	INSULATION SLEEVING	8
2	MS35337-79	WASHER, LOCK	7
2	1006997	WASHER, PLAIN FLAT	6
2	1006998-1	SCREW, CAPTIVE	5
2	1014032	RECEPTACLE, INDEXING	4
1	1014038	CONNECTOR, 20 PIN	3
4	1014240	ADAPTER, TO-18	2
1	1014000-1	FRAME, MODULE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN E. Markab DATE 23APR63
CHECKED 2 MAY 63
APPROVAL
APPROVAL 13-5-63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

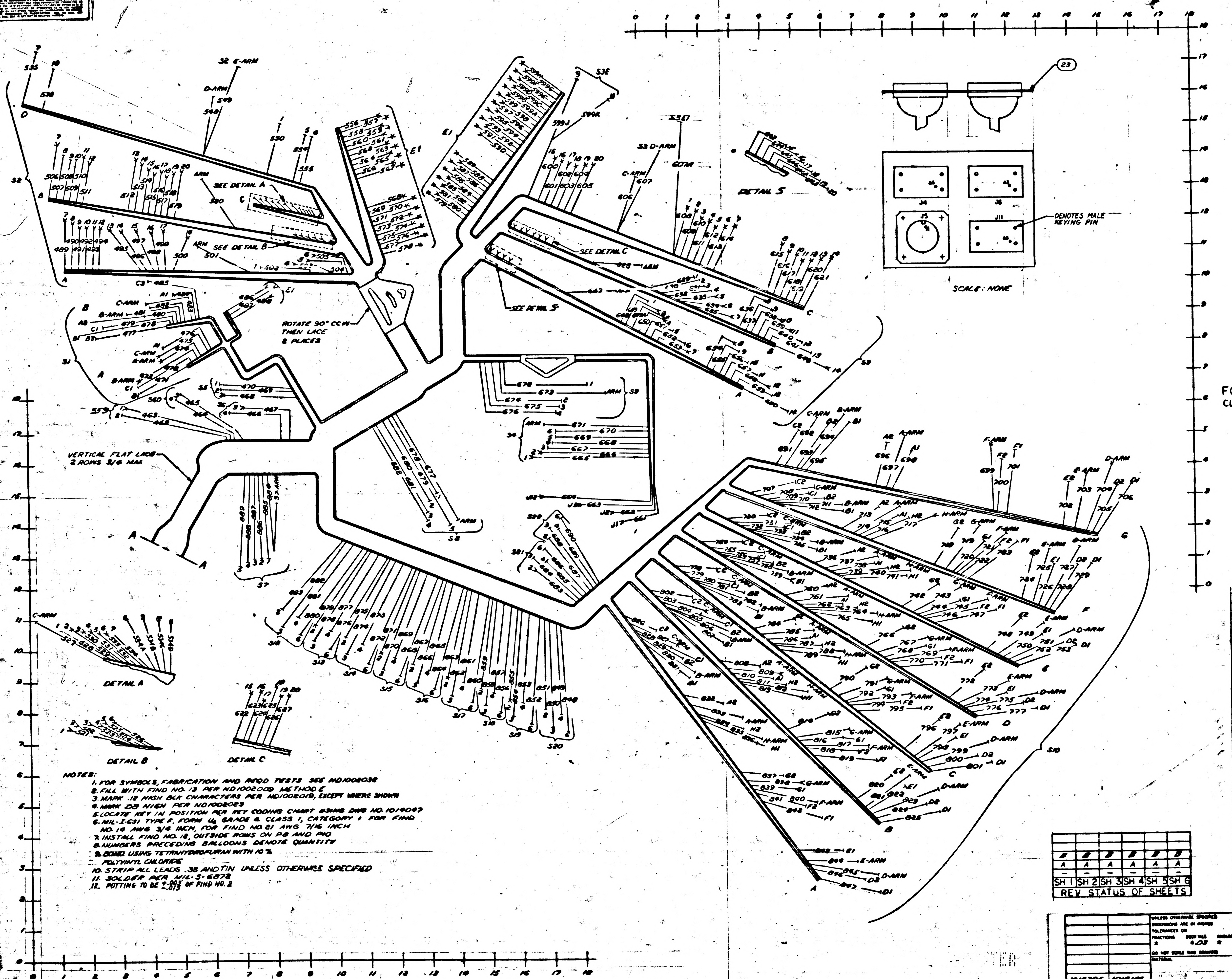
INTERFACE RECEIVER
MODULE

CODE IDENT NO —
SIZE F
NASA DRAWING NO. 1014230
SCALE 4/1 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVED
REVISIONS			
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R5734 DR R.D. Glenn CHKD Hellberg APPD		JJB
B	CHANGED PER TDRR 07348 DR. Hendell CHK Hellberg APPD	15 AUG 64	KES



DETAIL A
DETAIL B
DETAIL C
DETAIL S
SEE DETAIL A
SEE DETAIL B
SEE DETAIL C
SEE DETAIL S
ROTATE 90° CCW THEN LACE 2 PLACES
VERTICAL FLAT LACE 2 ROWS 3/4 MAX
DENOTES MALE KEYING PIN
J4
J5
J6
J11
SCALE: NONE
23
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
S17
S18
S19
S20
E-ARM
D-ARM
C-ARM
B-ARM
A-ARM
H-ARM
G-ARM
F-ARM

NOTES:

1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND1002038
2. FILL WITH FIND NO. 13 PER ND1002009 METHOD E
3. MARK .12 HIGH BLK CHARACTERS PER ND1002019, EXCEPT WHERE SHOWN
4. MARK .08 HIGH PER ND1002023
5. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1019097
6. MIL-I-631 TYPE F, FORM U, GRADE A CLASS 1, CATEGORY 1 FOR FIND NO. 19 AWG 3/4 INCH, FOR FIND NO. 21 AWG 7/16 INCH
7. INSTALL FIND NO. 12, OUTSIDE ROWS ON P8 AND P10
8. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
9. BOND USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
10. STRIP ALL LEADS .38 AND TIN UNLESS OTHERWISE SPECIFIED
11. SOLDER PER MIL-S-6872
12. POTTING TO BE $^{+.005}_{-.015}$ OF FIND NO. 2

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

B	B	B	B	B	B
A	A	A	A	A	A
—	—	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5	SH 6

REV STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
8'	MIL-W-16878/4 TYPE E 20 WHT	WIRE, ELECTRICAL	32
4	MS25036-5	TERMINAL, LUG	31
☒	1014329	SCHEMATIC	REF
AR	MIL-W-16878/4 TYPE E, 24, RED	WIRE, ELECTRICAL	30
AR	24 RED/WHT	WIRE, ELECTRICAL	29
AR	24, WHT	WIRE, ELECTRICAL	28
AR	24, BLK	WIRE, ELECTRICAL	27
AR	24, ORN	WIRE, ELECTRICAL	26
AR	MIL-W-16878/4 TYPE E, 22 WHT/RED	WIRE, ELECTRICAL	25
1	1014472-9	BAND MARKER, CABLE	24
1	1019300	PLATE, CONNECTOR ASSY	23
~~[illegible]~~	~~[illegible]~~	~~CONNECTOR, RECEPTACLE~~	~~22~~
AR	SEE NOTE 6	SLEEVING	21
AR	1019391-11	WIRE, ELECTRICAL	20
AR	MIL-W-16878/4, TYPE E, 20 BLK	WIRE, ELECTRICAL	19
AR	22 ORN	WIRE, ELECTRICAL	18
AR	22 RED	WIRE, ELECTRICAL	17
AR	22 WHT	WIRE, ELECTRICAL	16
AR	MIL-W-16878/4, TYPE E, 22 BLK	WIRE, ELECTRICAL	15
AR	SEE NOTE 6	SLEEVING	14
AR	1006683	COMPOUND, SILICON RUBBER	13
40	1014310	INSULATOR, CONT ELEC, MALE	12
4	MS35489-18	GROMMET	11
80	1006987	INSULATOR CONTACT ELEC	10
120	1006995-1	CONTACT ELEC, MALE	9
120	1010380	INSULATOR, BUSHING, FEMALE	8
120	1010379-1	CONTACT ELEC, FEMALE	7
8	1014032	RECEPTACLE, INDEXING	6
6	1006937	WASHER, PLAIN, FLAT	5
8	MS35337-79	WASHER, LOCK	4
8	1006998-1	SCREW, CAPTIVE	3
4	1014000-4	FRAME, MODULE	2
4	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014296	1019196

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R.D. Glenn
CHECKED R. Cagnon
APPROVAL Mr. Morgan 25 MAY 63
APPROVAL
APPROVAL
NASA APPROVAL
APPROVAL
APPROVAL

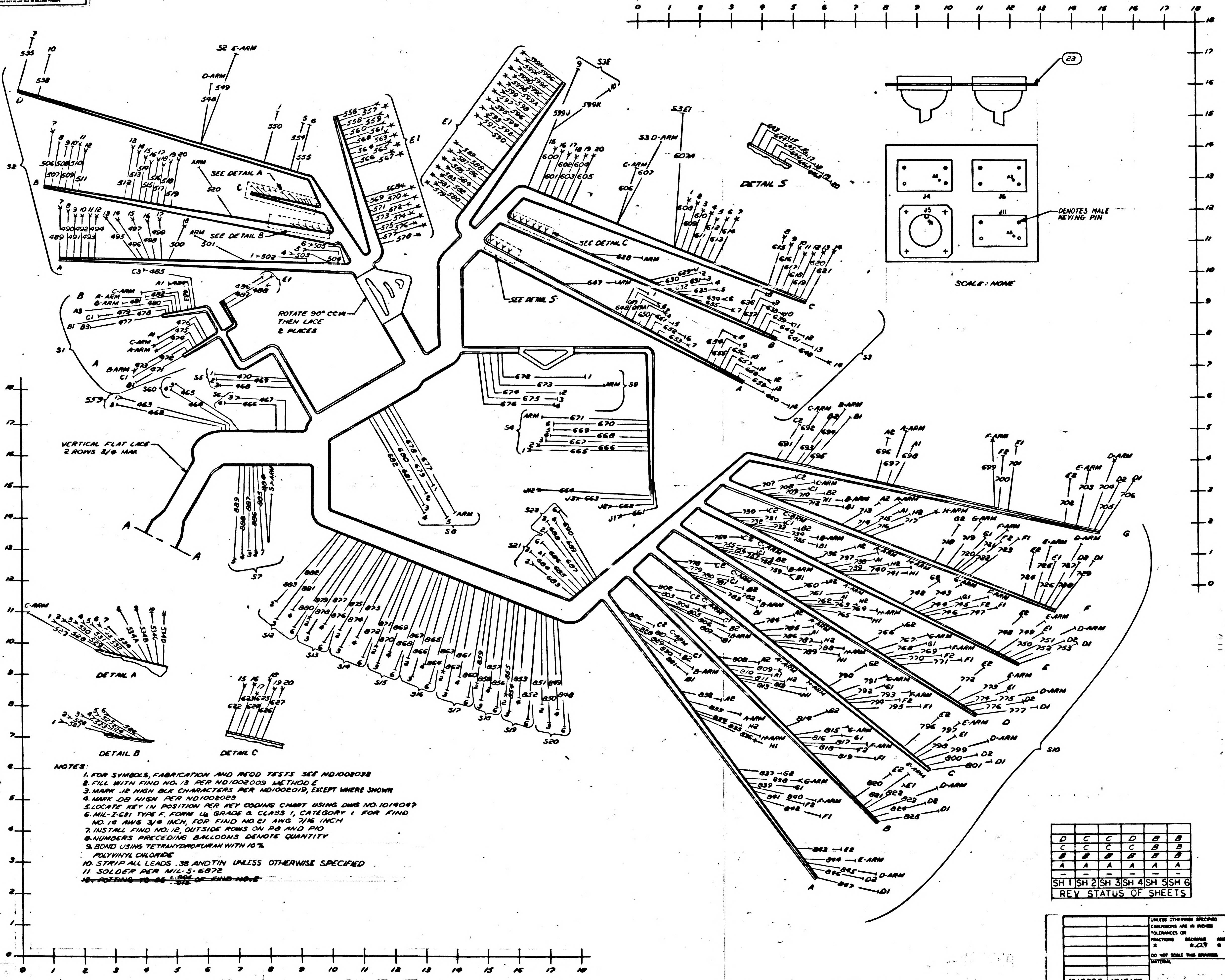
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
SYSTEM INTERFACE
COMPUTER TEST SET

SIZE J
NASA DRAWING NO. 1014237
SCALE 1/1
SHEET 1 OF 6

1014237

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R5734 DR R D Glenn CHK [illegible] APPD J Conley	[illegible]	[illegible]
B	CHANGED PER TDRR 07348 DR. Ken Budd CHK [illegible] APPD J Conley	15 MAR 64	[illegible]
C	CHANGED PER TDRR 10299 DR Fineham CHK [illegible] APPD J Conley	1 JULY 64	[illegible]
D	CHANGED PER TDRR 13152 DR Ken Budd CHK. G.G.C. APPD J Conley	OCT 8 64	[illegible]



NOTES:

1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND1002032
2. FILL WITH FIND NO. 13 PER ND1002009 METHOD E
3. MARK .12 HIGH BLK CHARACTERS PER ND1002019, EXCEPT WHERE SHOWN
4. MARK .08 HIGH PER ND1002023
5. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1014047
6. MIL-I-631 TYPE F, FORM U, GRADE A CLASS 1, CATEGORY 1 FOR FIND NO. 14 AWG 3/4 INCH, FOR FIND NO. 21 AWG 7/16 INCH
7. INSTALL FIND NO: 12, OUTSIDE ROWS ON P8 AND P10
8. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
9. BOND USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
10. STRIP ALL LEADS .38 AND TIN UNLESS OTHERWISE SPECIFIED
11. SOLDER PER MIL-S-6872
12. ~~POTTING TO BE $\frac{+.005}{-.015}$ OF FIND NO. 8~~

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE 10 Dec 63

REFERENCE DWGS.
1. SCHEMATIC DIAGRAM 1014329

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
8'	MIL-W-16878/4 TYPE E 20 WHT	WIRE, ELECTRICAL	32
4	MS25036-5	TERMINAL, LUG	31
~~X~~	~~1014329~~	~~SCHEMATIC~~	~~REF~~
AR	MIL-W-16878/4 TYPE E, 24, RED	WIRE, ELECTRICAL	30
AR	24, RED/WHT	WIRE, ELECTRICAL	29
AR	24, WHT	WIRE, ELECTRICAL	28
AR	24, BLK	WIRE, ELECTRICAL	27
AR	24, ORN	WIRE, ELECTRICAL	26
AR	MIL-W-16878/4, TYPE E, 22, WHT/RED	WIRE, ELECTRICAL	25
1	1014472-9	BAND MARKER, CABLE	24
1	1019300	PLATE, CONNECTOR ASSY	23
~~1~~	~~MS3100F-22-55P~~	~~CONNECTOR RECEPTACLE~~	~~22~~
AR	SEE NOTE 6	SLEEVING	21
AR	1019391-11	WIRE, ELECTRICAL	20
AR	MIL-W-16878/4, TYPE E, 20, BLK	WIRE, ELECTRICAL	19
AR	22, ORN	WIRE, ELECTRICAL	18
AR	22, RED	WIRE, ELECTRICAL	17
AR	22, WHT	WIRE, ELECTRICAL	16
AR	MIL-W-16878/4, TYPE E, 22, BLK	WIRE, ELECTRICAL	15
AR	SEE NOTE 6	SLEEVING	14
AR	1006683	COMPOUND, SILICON RUBBER	13
40	1014310	INSULATOR, CONT ELEC, MALE	12
4	MS35489-13	GROMMET	11
80	1006987	INSULATOR CONTACT ELEC	10
120	1006995	CONTACT ELEC, MALE	9
120	1010380	INSULATOR, BUSHING, FEMALE	8
120	1010379-1	CONTACT ELEC, FEMALE	7
8	1014032	RECEPTACLE, INDEXING	6
8	1006997	WASHER, PLAIN, FLAT	5
8	MS35337-79	WASHER, LOCK	4
8	1006998-1	SCREW, CAPTIVE	3
4	1014000-4	FRAME, MODULE	2
4	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

D	C	C	D	B	B
C	C	C	C	B	B
B	B	B	B	B	B
A	A	A	A	A	A
—	—	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5	SH 6

REV STATUS OF SHEETS

1014296	1019156
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

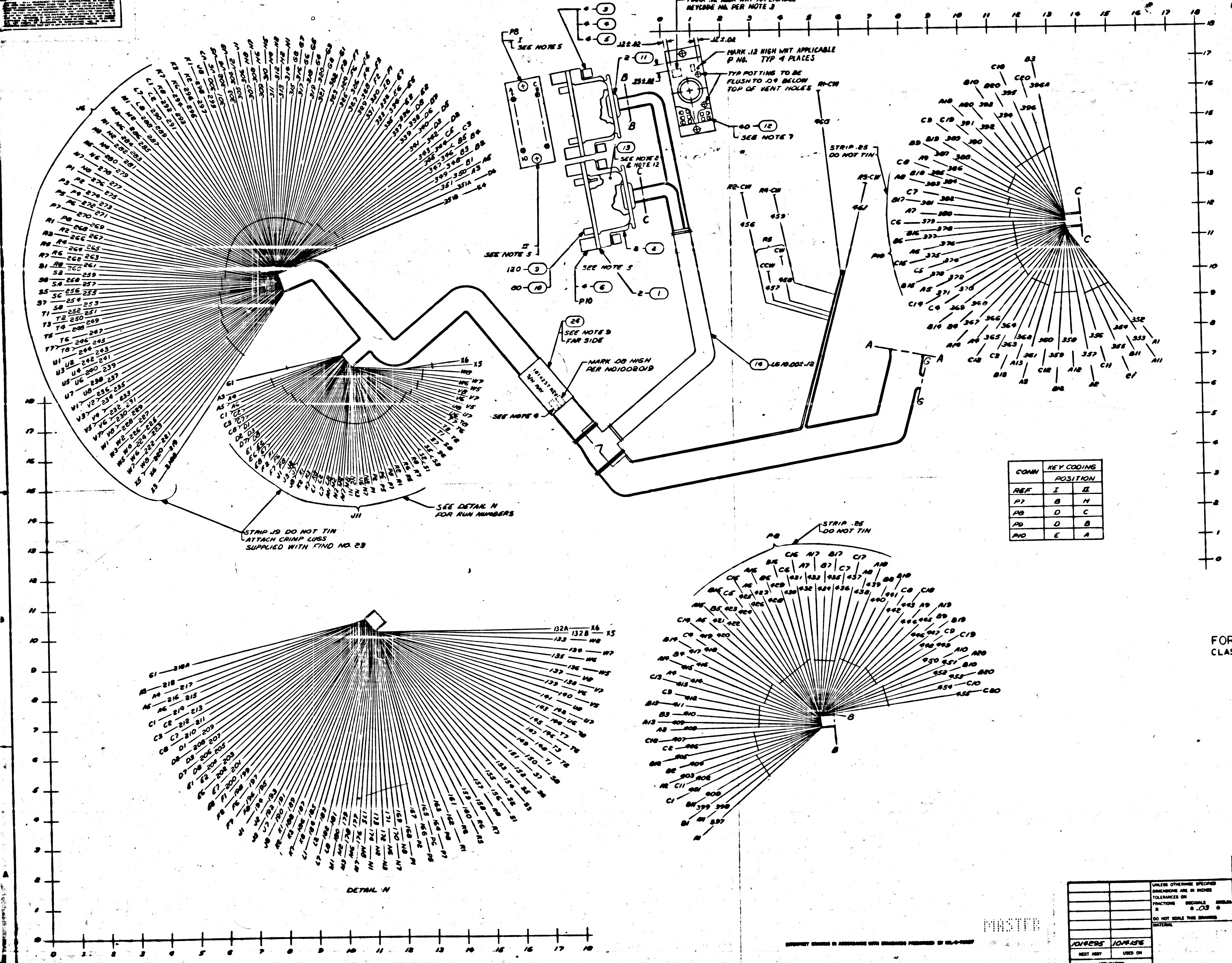
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R.D. Glenn DATE 22 OCT 63
CHECKED R. Saginaw 6 NOV 63
APPROVAL [illegible] 25 NOV 63
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED SYSTEM INTERFACE COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014237
SCALE 1/1
WT
SHEET 1 OF 6

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R5734 DR R.D. Glenn CHK APPD		
B	CHANGED PER TDRR 07348 DR. CHK APPD	15 APR 64	



MARK .12 HIGH WHT APPLICABLE KEYCODE NO. PER NOTE 3
MARK .12 HIGH WHT APPLICABLE P NO. TYP 4 PLACES
TYP POTTING TO BE FLUSH TO .09 BELOW TOP OF VENT HOLES
40 (12) SEE NOTE 7
P8 I SEE NOTE 5
II SEE NOTE 5
SEE NOTE 5
SEE NOTE 2 & NOTE 12
.12±.02
.25±.02
120 (9)
80 (10)
P10
(24) SEE NOTE 9 FAR SIDE
MARK .08 HIGH PER ND1002019
1014237 REV S/N
SEE NOTE 6
(14) LS10.002-12
R1-CW
R2-CW
R3-CW
R4-CW
R5 CW CCW
STRIP .25 DO NOT TIN
J6
J11
SEE DETAIL N FOR RUN NUMBERS
STRIP .19 DO NOT TIN ATTACH CRIMP LUGS SUPPLIED WITH FIND NO. 23
P8
DETAIL N

CONN	KEY CODING	
	POSITION	
REF	I	II
P7	B	H
P8	D	C
P9	D	B
P10	E	A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014295	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R.D. Glenn DATE
CHECKED 6 NOV 63
APPROVAL 5 Nov 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

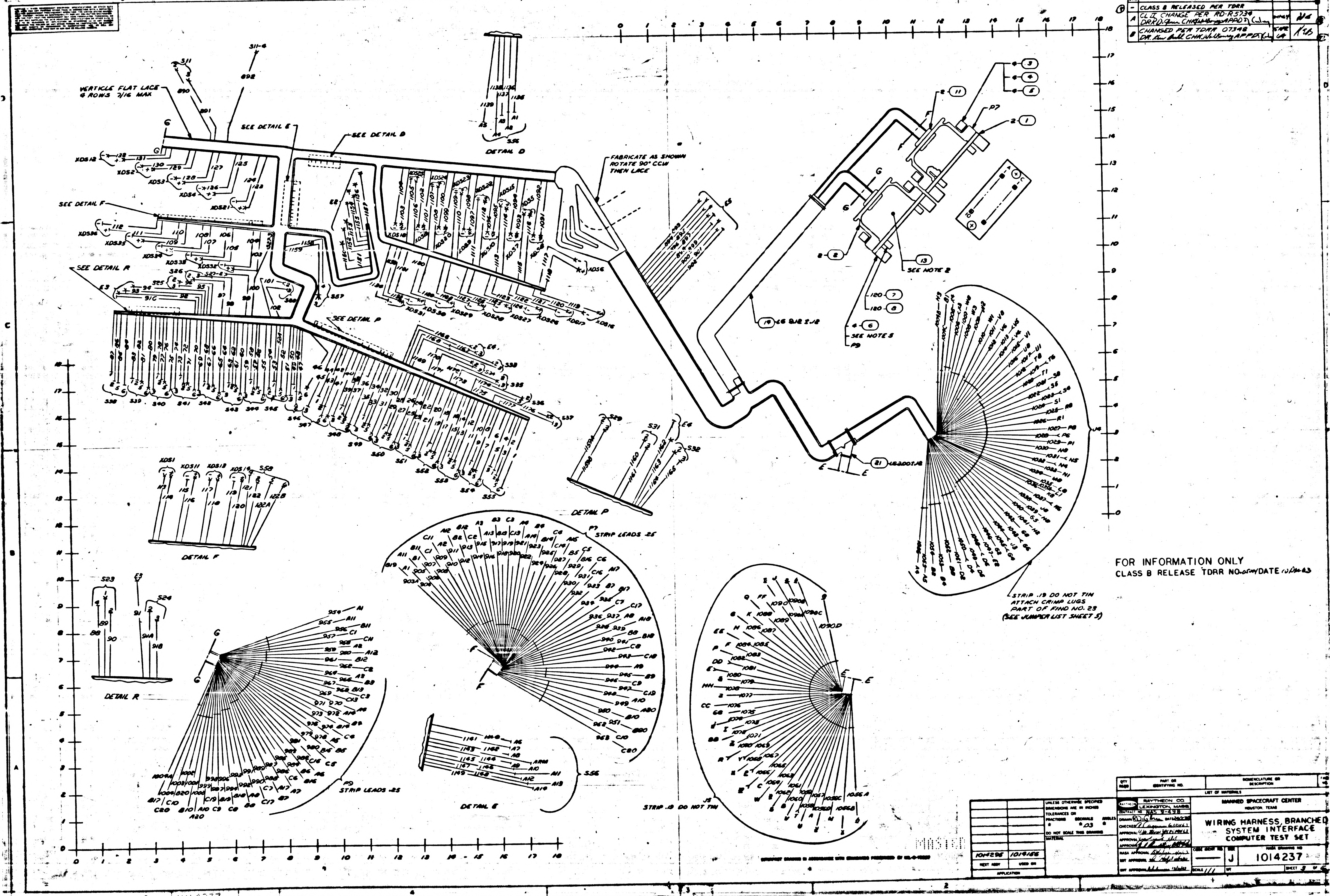
WIRING HARNESS, BRANCHED
SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014237
SCALE 1/1 WT SHEET 2 OF 6

MASTER

1014237

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R5734 DR R.D. Gunn CHK APPD		
B	CHANGED PER TDRR 07348 DR. Ken Bell CHK. Walkenry APPD	5 APR 64	KEB



VERTICLE FLAT LACE 6 ROWS 7/16 MAX
SEE DETAIL E
SEE DETAIL D
SEE DETAIL F
SEE DETAIL R
SEE DETAIL P
FABRICATE AS SHOWN ROTATE 90° CCW THEN LACE
DETAIL D
DETAIL F
DETAIL R
DETAIL P
DETAIL E
SEE NOTE 2
SEE NOTE 5
P7 STRIP LEADS .25
P9 STRIP LEADS .25
STRIP .19 DO NOT TIN
STRIP .19 DO NOT TIN ATTACH CRIMP LUGS PART OF FIND NO. 23 (SEE JUMPER LIST SHEET 5)
19 26 SJE 2-18
21 162007-18
J4
J5
P7
P9
S56
E
F
G
1014237

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 07348 DATE 10/14/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION

LIST OF MATERIALS

NEXT ASSY	USED ON
1014296	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN R.D. Gunn DATE 24 OCT 63
CHECKED A. Caggiano 6 NOV 63
APPROVAL H.M. Thomas 25 NOV 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 10/14/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO. ——— SIZE J NASA DRAWING NO. 1014237
SCALE 1/1 WT SHEET 3 OF 6

1014237

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R5734 DR R.D. Glenn CHK W.H. Koenig APPD	2-11-64	
B	CHANGED PER TDRR 07348 DR. Ken Budd CHK W.H. Koenig APPD	15 APR 64	K20
C	CHANGED PER TDRR 10299 DR F. Mohan CHK W.H. Koenig APPD	1 JULY 64	
D	CHANGED PER TDRR 13152 DR. Ken Budd CHK Q.&C. APPD	10-8 64	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	343	BLK	22	15	206	
	206	BLK	22	18	1159	
	1159	BLK	22	15	1070	
	1070	BLK	24	27	1008	
	953	BLK	22	15	1073	
	951				1077	
	949				1075	
	1002				1071	
	1004				1076	
	1000				1072	
	451				556	
	556				453	
	455				557	
	557				396	
	394				558	
	558				392	
	1055				901	
	900				1012	
	344				636	
	502				560	
	560				648	
	599H				607A	
ATTACH FIND NO.31	661				582	
	662				583	
	663				584	
ATTACH FIND NO.31	664				585	
		BLK	22	15		
	578	BLK	20	19	893	
	893				577	
	576				894	
	894				579	
	580				895	
	895				581	
	1150				896	
	896				1151	
	1152				902	
	901				1153	
	2188				897	
	898	BLK	20	19	218A	
	958	ORN	24	26	1067	
	1067		22	18	467	
	467		22	18	535	
	555		22	18	1066	
	1066	ORN	24	26	909	
	1088	RED	22	17	1091	
	1091				1093	
	1093				1095	
	1095				1097	
	1097				1099	
	1099				1101	
	1101				1103	
	1103				1106	
	1106				1108	
	1108				1110	
	1110				1112	
	1112				1114	
	1114				1116	
	1116				1118	
	1118				1133	
	1133				1131	
	1131				1129	
	1129				1127	
	1127				1125	
	1125				1123	
	1123				1121	
	1121				1119	
	1119				123	
	123				125	
	125				127	
	127				129	
	129				131	
	131				114	
	114				116	
	116				118	
	118				120	
	120				103	
	103				105	
	105				107	
	107				109	
	109	RED	22	17	111	
	351A	WHT	22	20	79	
	351B	BLK			1149A	
	1052	WHT	22	16	121	
	1035A				122B	
	122A	BLK	22	15	1159	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	998	RED	22	17	1069	
	1069	RED	24	30	554	
	550	WHT/RED	22	25	1080	
	1080	WHT/RED	24	29	952	
	676	WHT	22	16	607	
	606				675	
	674				628	
	661				673	
	697				672	
	662				677	
	670				633	
	633				525	
	671				663	
	658				669	
	664				699	
	464				666	
	666				650	
	650				503	
	668				654	
	654				490	
	667				653	
	653				489	
	466				966	
	925				468	
	969				907	
	936				470	
	465				477	
	476				931	
	1078				474	
	474				525	
	481				156	
	154				482	
	483				155	
	506				635	
	635				462	
	485				214	
	213				480	
	498				644	
	644				473	
	~~[illegible]~~				~~629~~	
	646A				665	
	665				475	
	475				499	
	461				887	
	886				456	
	460				885	
	888				459	
	458				889	
	1074				457	
	1083				884	
	883				533	
	891				759	
	646B				892	
	1053				1147	
	1148				1056	
	1009				1149	
	1143				122D	
	122C				534	
	1158				1040	
	87				358	
	353				83	
	49				386	
	383				78	
	73				380	
	376				68	
	53				372	
	366				63	
	58				361	
	357				44	
	39				352	
	391				34	
	19				375	
	365				14	
	9				360	
	356				4	
	29				371	
	450				24	
	395				211	
	211				115	
	48	WHT	22	16	518	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	510	WHT	22	16	28	
	8				511	
	512				18	
	38				513	
	514				43	
	57				515	
	519				86	
	72				517	
	516	WHT	22	16	54	
	46	WHT	24	28	1081	
	1027	WHT	22	16	1115	
	1115				381	
	1025				1117	
	1117				384	
	1051				1113	
	1113				364	
	1097				1120	
	1120				370	
	976				1099	
	1099				1111	
	982				1094	
	1094				1109	
	986				1031	
	1031				1107	
	991				1022	
	1022				1105	
	999				1013	
	1013				1124	
	984				1050	
	1050				1126	
	955				1045	
	1045				1128	
	960				1032	
	1032				1130	
	954				1023	
	1023				1132	
	971				1014	
	1014				1134	
	382				345	
	345				1122	
	354				113	
	113				1036	
	359				130	
	130				1035	
	363				128	
	128				1034	
	369				126	
	126				1030	
	389				1094	
	1094				1021	
	388				1092	
	1092				1018	
	373				1098	
	1098				1016	
	378				1096	
	1096				1011	
	390				132	
	132				1027	
	355				117	
	117				1054	
	119				957	
	385				1104	
	1109				1042	
	374				1102	
	1102				1096	
	379				1100	
	1100				1041	
	1048				104	
	1009A				1093	
	1043				106	
	993				1037	
	1037				108	
	959				1028	
	1028				110	
	970				1019	
	1019				112	
	987				1006	
	1006				124	
	122				989	
	1135	WHT	22	16	1033	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1029	WHT	22	16	1136	
	1137				1026	
	1024				1138	
	1139				1020	
	1017				1140	
	1141				1038	
	1039				1142	
	1144				1010	
	1015				1145	
	1146	WHT	22	16	1005	
	158	WHT	22	20	50	
	151	BLK			1155	
	157	WHT	22	20	524	
	150	BLK			1156	
	160	WHT	22	20	74	
	153	BLK			1156	
	144	WHT	22	20	69	
	141	BLK			1157	
	145	WHT	22	20	64	
	142	BLK			1157	
	146	WHT	22	20	59	
	143	BLK			1159	
	175	WHT	22	20	694	
	169	BLK			589	
	1084	WHT	22	20	891	
	1056A	BLK			1156	
	920	WHT	22	20	890	
	930	BLK			1152	
	204	WHT	22	20	704	
	199	BLK			590	
	203	WHT	22	20	699	
	198	BLK			590	
	176	WHT	22	20	717	
	170	BLK			591	
	294	WHT	22	20	1161	
	290	BLK			94	
	324	WHT	22	20	95	
	316	BLK			94	
	325	WHT	22	20	98	
	317	BLK			93	
	326	WHT	22	20	100	
	318	BLK			93	
	337	WHT	22	20	102	
	331	BLK			92	
	339	WHT	22	20	88	
	333	BLK			92	
	338	WHT	22	20	90	
	332	BLK			91	
	1004B	BLK	22	15	896	
	897	BLK	22	15	1004C	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 05044 DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014235	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R.D. Glenn DATE
CHECKED A. Cappucci
APPROVAL H.W. Moore 25 NOV 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED SYSTEM INTERFACE COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014237
SCALE NONE WT
SHEET OF

MASTER

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R 5734 DR RD CHK APPD	2-1-64	
B	CHANGED PER TDRR 07348 DR. Ken Budd CHK APPD		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	340	WHT	22	20	101	
	334	BLK			91	
	323	WHT	22	20	1177	
	315	BLK			1162	
	310	WHT	22	20	1175	
	302	BLK			1163	
	309	WHT	22	20	1173	
	301	BLK			1163	
	308	WHT	22	20	1171	
	300	BLK			1166	
	307	WHT	22	20	1169	
	299	BLK			1166	
	295	WHT	22	20	1165	
	285	BLK			1167	
	293	WHT	22	20	1160	
	289	BLK			1167	
	314	WHT	22	20	5	
	306	BLK			1151	
	296	WHT	22	20	10	
	286	BLK			1151	
	341	WHT	22	20	15	
	335	BLK			1155	
	342	WHT	22	20	20	
	336	BLK			1157	
	281	WHT	22	20	745	
	273	BLK			591	
	282	WHT	22	20	740	
	274	BLK			592	
	284	WHT	22	20	727	
	276	BLK			592	
	283	WHT	22	20	711	
	275	BLK			593	
	268	WHT	22	20	751	
	260	BLK			593	
	267	WHT	22	20	734	
	259	BLK			594	
	280	WHT	22	20	610	
	272	BLK			594	
	279	WHT	22	20	611	
	271	BLK			595	
	278	WHT	22	20	612	
	270	BLK			595	
	277	WHT	22	20	613	
	269	BLK			596	
	266	WHT	22	20	614	
	258	BLK			596	
	234	WHT	22	20	495	
	226	BLK			561	
	167	WHT	22	20	506	
	161	BLK			559	
	194	WHT	22	20	642	
	189	BLK			583	
	193	WHT	22	20	622	
	188	BLK			583	
	192	WHT	22	20	623	
	187	BLK			584	
	184	WHT	22	20	624	
	183	BLK			584	
	180	WHT	22	20	625	
	174	BLK			585	
	179	WHT	22	20	626	
	173	BLK			585	
	178	WHT	22	20	627	
	172	BLK			586	
	214	WHT	22	20	608	
	209	BLK			586	
	213	WHT	22	20	609	
	208	BLK			587	
	166	WHT	22	20	803	
	165	BLK			587	
	164	WHT	22	20	809	
	163	BLK			588	
	177	WHT	22	20	827	
	171	BLK			588	
	182	WHT	22	20	838	
	181	BLK			589	
	139	WHT	22	20	30	
	135	BLK			1153	
	140	WHT	22	20	35	
	136	BLK			1153	
	91A	WHT	22	16	830	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	138	WHT	22	20	40	
	134	BLK			1154	
	137	WHT	22	20	45	
	133	BLK			1154	
	159	WHT	22	20	25	
	152	BLK			1155	
	915	WHT	22	20	528	
	921	BLK			573	
	941	WHT	22	20	529	
	935	BLK			572	
	908	WHT	22	20	515	
	903A	BLK			572	
	916	WHT	22	20	530	
	922	BLK			571	
	942	WHT	22	20	531	
	932	BLK			571	
	950	WHT	22	20	533	
	913	BLK			570	
	938	WHT	22	20	532	
	944	BLK			570	
	946	WHT	22	20	1058	
	1089	BLK			900	
	947	WHT	22	20	1060	
	1090	BLK			899	
	201	WHT	22	20	640	
	196	BLK			579	
	200	WHT	22	20	641	
	195	BLK			580	
	1082	WHT	22	20	36	
	1056D	BLK			1152	
	202	WHT	22	20	639	
	197	BLK			580	
	997	WHT	22	20	471	
	979	BLK			488	
	974	WHT	22	20	472	
	992	BLK			487	
	969	WHT	22	20	484	
	996	BLK			487	
	994	WHT	22	20	478	
	961	BLK			486	
	968	WHT	22	20	479	
	978	BLK			486	
	387	WHT	22	20	664	
	393	BLK			581	
	929	WHT	22	20	47	
	934	BLK			1150	
	914	WHT	22	20	42	
	928	BLK			1150	
	939	WHT	22	20	634	
	933	BLK			579	
	526	WHT	22	20	168	
	578	BLK			162	
	948	WHT	22	20	463	
	927	BLK			488	
	906	WHT	22	20	516	
	912	BLK			577	
	210	WHT	22	20	521	
	205	BLK			578	
	904	WHT	22	20	517	
	910	BLK			577	
	905	WHT	22	20	518	
	911	BLK			576	
	919	WHT	22	20	519	
	926	BLK			576	
	917	WHT	22	20	510	
	923	BLK			575	
	943	WHT	22	20	511	
	937	BLK			575	
	918	WHT	22	20	512	
	924	BLK			574	
	940	WHT	22	20	513	
	945	BLK			574	
	1001	WHT	22	20	514	
	956	BLK			573	
	265	WHT	22	20	615	
	257	BLK			597	
	264	WHT	22	20	616	
	256	BLK			597	
	263	WHT	22	20	617	
	255	BLK			598	
	534C	WHT	22	16	699	
	704	↑	↑	↑	539D	
	892	↓	↓	↓	1159B	
	1159A	WHT	22	16	2	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	262	WHT	22	20	618	
	254	BLK			598	
	261	WHT	22	20	619	
	253	BLK			599	
	252	WHT	22	20	620	
	244	BLK			599	
	251	WHT	22	20	621	
	243	BLK			599A	
	250	WHT	22	20	600	
	242	BLK			599A	
	249	WHT	22	20	601	
	241	BLK			599B	
	248	WHT	22	20	602	
	240	BLK			599B	
	247	WHT	22	20	603	
	239	BLK			599C	
	329	WHT	22	20	785	
	321	BLK			599C	
	330	WHT	22	20	779	
	322	BLK			599D	
	298	WHT	22	20	761	
	292	BLK			599D	
	311	WHT	22	20	775	
	303	BLK			599E	
	328	WHT	22	20	[illegible]	
	320	BLK			599E	
	327	WHT	22	20	821	
	319	BLK			599F	
	297	WHT	22	20	791	
	291	BLK			599F	
	288	WHT	22	20	797	
	287	BLK			599G	
	313	WHT	22	20	764	
	305	BLK			599G	
	218	WHT	22	20	649	
	217	BLK			581	
	220	WHT	22	20	499	
	219	BLK			569	
	1057	WHT	22	20	645	
	1056B	BLK			582	
	212	WHT	22	20	503	
	207	BLK			569	
	191	WHT	22	20	504	
	186	BLK			568	
	190	WHT	22	20	505	
	185	BLK			568	
	1081	WHT	22	20	649A	
	1056C	BLK			582	
	246	WHT	22	20	489	
	238	BLK			567	
	245	WHT	22	20	490	
	237	BLK			567	
	236	WHT	22	20	491	
	228	BLK			566	
	231	WHT	22	20	492	
	223	BLK			566	
	230	WHT	22	20	493	
	222	BLK			565	
	155	WHT	22	20	523	
	148	BLK			565	
	154	WHT	22	20	524	
	147	BLK			564	
	156	WHT	22	20	522	
	149	BLK			564	
	216	WHT	22	20	500	
	215	BLK			563	
	235	WHT	22	20	494	
	227	BLK			563	
	233	WHT	22	20	496	
	225	BLK			562	
	232	WHT	22	20	497	
	224	BLK			562	
	229	WHT	22	20	498	
	221	BLK			561	
	312	WHT	22	20	769	
	304	BLK			599H	
	1176	WHT	22	16	534B	
	534A	↑	↑	↑	89	
	637				599J	
	599K				628	
	473				1090A	
	1090B				132B	
	1090C	↓	↓	↓	132A	
	463	WHT	22	16	918	

CONNECTOR J4 JUMPER LIST

FROM	TO	LENGTH *	FIND NO
J4-G5	J4-C4	3.50	32
J4-C4	J4-C5	↑	↑
J4-C5	J4-C6		
J4-C6	J4-F6		
J4-F6	J4-F5		
J4-F5	J4-F4		
J4-F4	J4-F3		
J4-F3	J4-J4		
J4-J4	J4-J5		
J4-J5	J4-J6		
J4-J6	J4-N6		
J4-N6	J4-R5		
J4-R5	J4-R4		
J4-R4	J4-S6		
J4-S6	J4-U5		
J4-U5	J4-U4		
J4-W3	J4-W4		
J4-W4	J4-W5		
J4-W5	J4-U6		
J4-U6	J4-T5		
J4-T5	J4-T4		
J4-T4	J4-R6		
J4-R6	J4-P5		
J4-P5	J4-P4		
J4-P4	J4-M6		
J4-M6	J4-H4		
J4-H4	J4-H5		
J4-H5	J4-H6		
J4-H6	J4-F8		
J4-F8	J4-F2		
J4-F2	J4-E4		
J4-E4	J4-E5		
J4-E5	J4-E6		
J4-E6	J4-E8		
J4-E8	J4-D8	↓	↓
J4-D8	J4-C8	3.50	32

* STRIP BOTH ENDS .31

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE 10 Dec 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014295	1019166
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

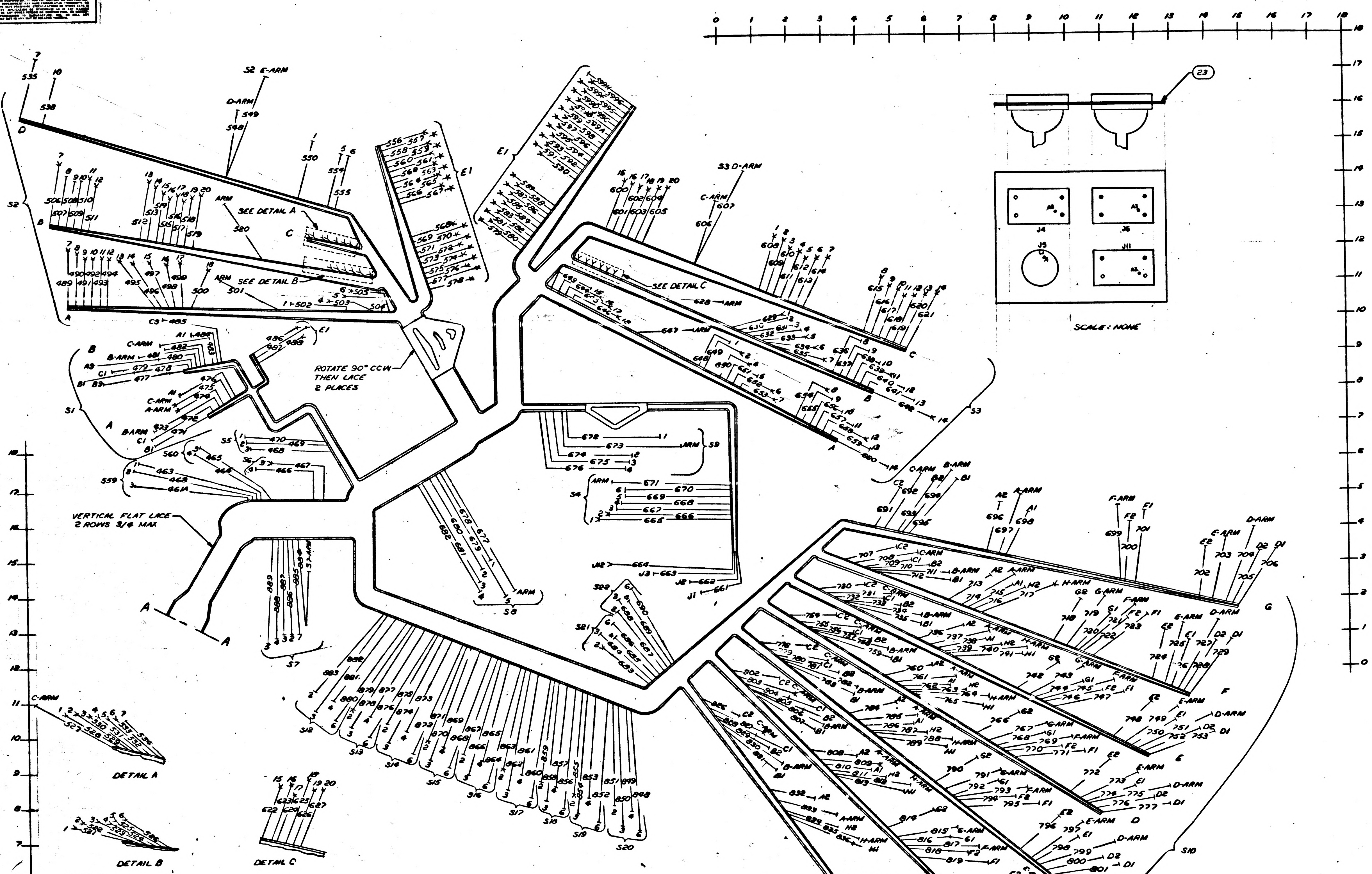
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO. — SIZE J NASA DRAWING NO. 1014237
SCALE SHEET 3 OF

1014237

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE 10 Dec 63

NOTES:
1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND1002232
2. FILL WITH FIND NO. 13 PER ND1002009 METHOD E
3. MARK .12 HIGH BLK CHARACTERS PER ND1002019
4. MARK .08 HIGH PER ND1002023
5. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1019047
6. MIL-I-631 TYPE F, FORM U, GRADE A CLASS 1, CATEGORY 1 FOR FIND NO. 14 AWG 3/4 INCH, FOR FIND NO. 21 AWG 7/16 INCH
7. INSTALL FIND NO. 12, OUTSIDE ROWS ON P8 AND P10
8. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
9. BOND FIND NO. 24 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
10. STRIP ALL LEADS .38 AND TIN UNLESS OTHERWISE SPECIFIED
11. SOLDER PER MIL-S-6872

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1014329	SCHEMATIC	REF
AR	ND1002181 TYPE I CL I	WIRE, ELECTRICAL, AWG 24, RED	30
AR	ND1002181 TYPE I, CL I	WIRE, ELECTRICAL, AWG 24, WHT/RED	29
AR	ND1002181 TYPE I, CL I	WIRE, ELECTRICAL, AWG 24, WHITE	28
AR	ND1002181 TYPE I, CL I	WIRE, ELECTRICAL AWG 24, BLACK	27
AR	ND1002181 TYPE I, CL I	WIRE, ELECTRICAL AWG 24, ORN	26
AR	ND1002181 TYPE I, CL I	WIRE, ELEC AWG 22, WHT/RED	25
1	1014472-6	BAND MARKER, CABLE	24
1	1019300	PLATE, CONNECTOR ASSY	23
1	MS3120F-22-55P	CONNECTOR RECEPTACLE	22
AR	SEE NOTE 6	SLEEVING	21
AR	1019391-11	WIRE, ELECTRICAL	20
AR	ND1002181 TYPE I, CL I	WIRE, ELEC AWG 20, BLACK	19
AR	ND1002181 TYPE I, CL I	WIRE, ELEC AWG 22, ORANGE	18
AR	ND1002181 TYPE I, CL I	WIRE, ELEC AWG 22, RED	17
AR	ND1002181 TYPE I, CL I	WIRE, ELEC AWG 22, WHITE	16
AR	ND1002181 TYPE I, CL I	WIRE, ELEC AWG 22, BLACK	15
AR	SEE NOTE 6	SLEEVING	14
AR	1006683	COMPOUND, SILICON RUBBER	13
40	1014310	INSULATOR, CONT ELEC, MALE	12
4	MS35489-13	GROMMET	11
80	1006987	INSULATOR CONTACT ELEC	10
120	1006995-1	CONTACT ELEC, MALE	9
120	1010380	INSULATOR, BUSHING, FEMALE	8
120	1010379-1	CONTACT ELEC, FEMALE	7
8	1019032	RECEPTACLE, INDEXING	6
8	1006997	WASHER, PLAIN, FLAT	5
8	MS35337-79	WASHER, LOCK	4
8	1006998-1	SCREW, CAPTIVE	3
4	1014000-4	FRAME, MODULE	2
4	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

—	—	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5	SH 6

REV STATUS OF SHEETS

NEXT ASSY	USED ON
1014295	1019156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R. D. Gibson DATE 8 Oct 63
CHECKED 6 NOV 63
APPROVAL 25 NOV 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014237
SCALE 1/1 WT
SHEET 1 OF 6

1014237

MASTER

PHOTOGRAPHIC SCALE ONLY

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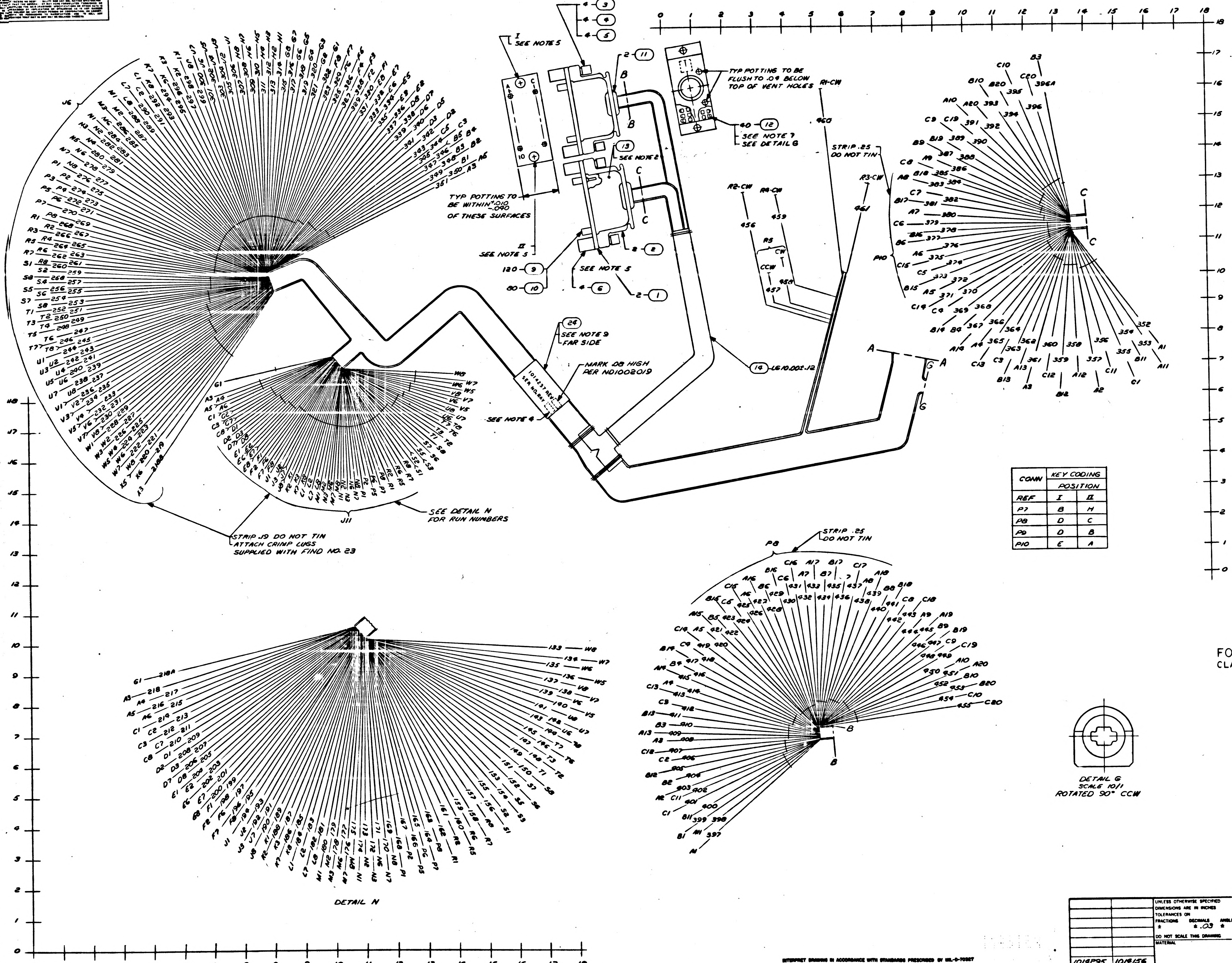
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		


J6
J11
G1
SEE NOTE 5
TYP POTTING TO BE WITHIN +.010 −.090 OF THESE SURFACES
TYP POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES
SEE NOTE 7
SEE DETAIL G
SEE NOTE 2
STRIP .25 DO NOT TIN
R1-CW
R2-CW
R3-CW
R4-CW
R5
CW
CCW
456
457
458
459
460
461
P10
SEE NOTE 9 FAR SIDE
MARK .08 HIGH PER ND1002019
1014237 REV. SER NO. RAY
SEE NOTE 4
L610.00±.12
STRIP .19 DO NOT TIN
ATTACH CRIMP LUGS SUPPLIED WITH FIND NO. 23
SEE DETAIL N FOR RUN NUMBERS
P8
STRIP .25 DO NOT TIN
DETAIL N
DETAIL G
SCALE 10/1
ROTATED 90° CCW

CONN	KEY CODING	
	POSITION	
REF	I	II
P7	B	H
P8	D	C
P9	D	B
P10	E	A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 05044 DATE 10 Dec 63

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
1014295	1014156
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

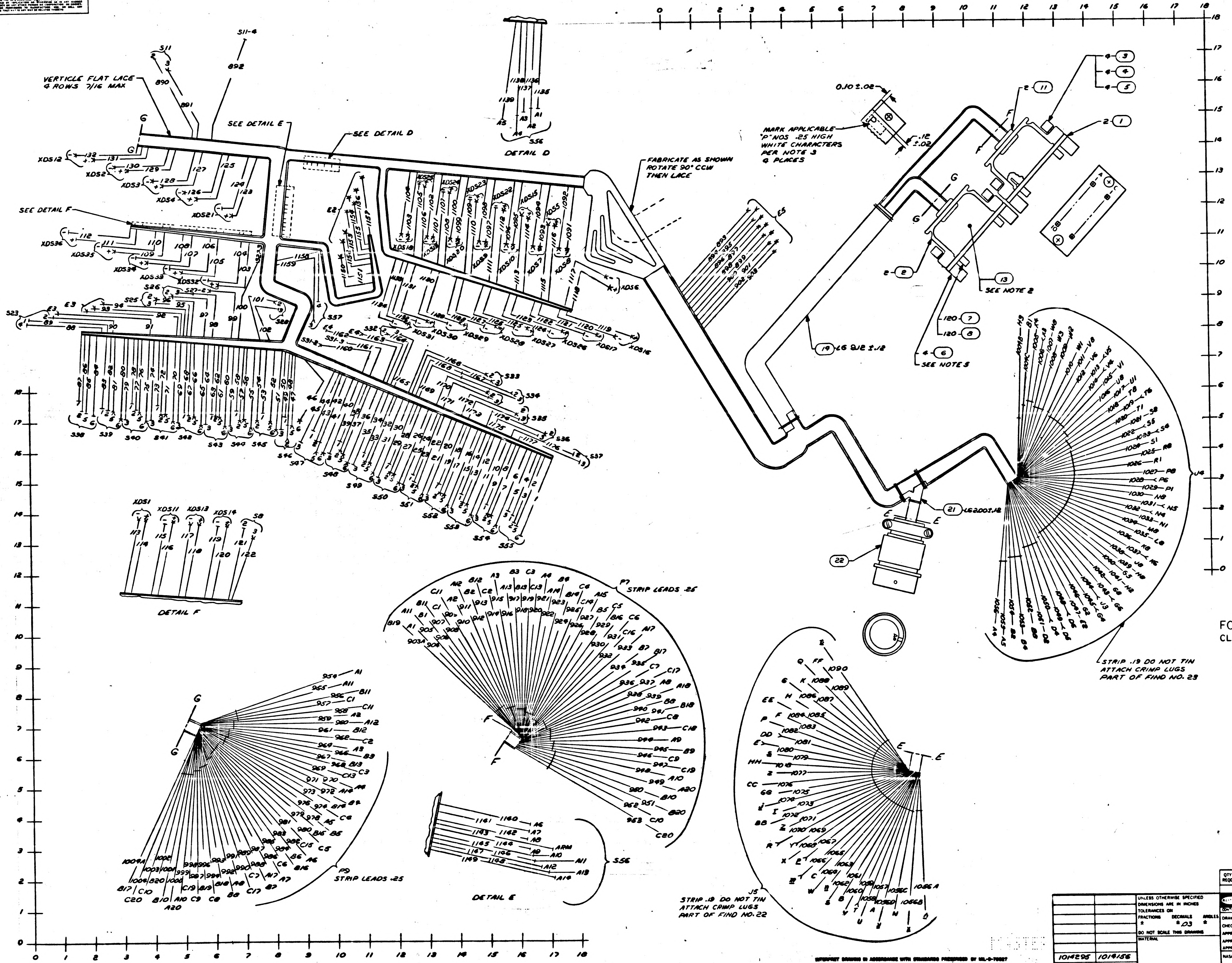
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R. D. Glenn DATE 30 Oct 63
CHECKED 6 NOV 63
APPROVAL H. W. Moore 25 NOV 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO	SIZE	NASA DRAWING NO
—	J	1014237
SCALE 1/1	WT	SHEET 2 OF 6

SYM	DESCRIPTION	DATE	APPROVED
-	CLASS B RELEASED PER TDRR		



VERTICLE FLAT LACE 4 ROWS 7/16 MAX
SEE DETAIL E
SEE DETAIL D
SEE DETAIL F
DETAIL D
DETAIL E
DETAIL F
FABRICATE AS SHOWN ROTATE 90° CCW THEN LACE
MARK APPLICABLE "P" NOS .25 HIGH WHITE CHARACTERS PER NOTE 3 4 PLACES
0.10 ±.02
.12 ±.02
SEE NOTE 2
SEE NOTE 5
L6 ±.12
L6 ±.12
P7 STRIP LEADS .25
P9 STRIP LEADS .25
STRIP .19 DO NOT TIN ATTACH CRIMP LUGS PART OF FIND NO. 23
STRIP .19 DO NOT TIN ATTACH CRIMP LUGS PART OF FIND NO. 22
S56

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. [illegible] DATE 10 Dec 63

1014295	1019156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R. DiGh[illegible] DATE 24 OCT 63
CHECKED A. Cap[illegible] 6 NOV 63
APPROVAL H. W. [illegible] 25 NOV 63
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 12/10/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
- SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO. ——— SIZE J NASA DRAWING NO 1014237

SCALE 1/1 WT SHEET 3 OF 6

1014237

SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	343	BLK	22	15	206	
	206	BLK	22	18	1159	
	1159	BLK	22	15	1070	
	1070	BLK	24	27	1008	
	953	BLK	22	15	903	
	951				903	
	949				903	
	1002				902	
	1004				902	
	1000				901	
	451				556	
	556				453	
	455				557	
	557				396	
	394				558	
	558				392	
	1055				901	
	900				1012	
	344				559	
	502				560	
	560				648	
	1077				900	
	899				1073	
	1072				899	
	1071				898	
	898				1076	
	1075	BLK	22	15	897	
	578	BLK	20	19	893	
	893				577	
	576				894	
	894				579	
	580				895	
	895				581	
	1150				896	
	896				1151	
	1152				902	
	901				1153	
	218B				897	
	898	BLK	20	19	218A	
	958	ORN	24	26	1067	
	1067		22	26	467	
	467		22	26	535	
	555		22	26	1066	
	1066	ORN	24	26	909	
	1088	RED	22	17	1091	
	1091				1093	
	1093				1095	
	1095				1097	
	1097				1099	
	1099				1101	
	1101				1103	
	1103				1106	
	1106				1108	
	1108				1110	
	1110				1112	
	1112				1114	
	1114				1116	
	1116				1118	
	1118				1133	
	1133				1131	
	1131				1129	
	1129				1127	
	1127				1125	
	1125				1123	
	1123				1121	
	1121				1119	
	1119				123	
	123				125	
	125				127	
	127				129	
	129				131	
	131				114	
	114				116	
	116				118	
	118				120	
	120				103	
	103				105	
	105				107	
	107				109	
	109	RED	22	17	111	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	998	RED	22	17	1069	
	1069	RED	24	30	554	
	550	WHT/RED	22	25	1080	
	1080	WHT/RED	24	29	952	
	676	WHT	22	16	607	
	606				675	
	674				628	
	661				673	
	647				672	
	662				677	
	670				633	
	633				525	
	671				663	
	658				669	
	664				649	
	464				666	
	666				650	
	650				503	
	668				659	
	654				490	
	667				653	
	653				489	
	966				965	
	925				468	
	969				907	
	936				470	
	465				477	
	476				931	
	1078				479	
	474				525	
	481				156	
	154				482	
	483				155	
	506				635	
	635				462	
	485				214	
	213				480	
	498				644	
	644				473	
	461A				629	
	645				665	
	665				475	
	475				499	
	461				887	
	886				456	
	460				885	
	888				459	
	458				889	
	1074				457	
	1083				884	
	883				533	
	891				759	
	646				892	
	1053				1147	
	1148				1056	
	1009				1149	
	1143				122	
	122				534	
	1158				1040	
	87				358	
	353				83	
	49				386	
	383				78	
	73				380	
	376				68	
	53				372	
	366				63	
	58				361	
	357				44	
	39				352	
	391				34	
	19				375	
	365				14	
	9				360	
	356				4	
	29				371	
	450				24	
	395				211	
	211				115	
	48	WHT	22	16	518	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	510	WHT	22	16	28	
	8				511	
	512				18	
	38				513	
	514				43	
	57				515	
	519				86	
	72				517	
	516	WHT	22	16	54	
	46	WHT	24	28	1081	
	1027	WHT	22	16	1115	
	1115				381	
	1025				1117	
	1117				384	
	1051				1113	
	1113				364	
	1097				1120	
	1120				370	
	976				1099	
	1099				1111	
	[illegible]				1094	
	1094				1109	
	986				1031	
	1031				1107	
	991				1022	
	1022				1105	
	999				1013	
	1013				1124	
	984				1050	
	1050				1126	
	955				1095	
	1095				1128	
	960				1032	
	1032				1130	
	954				1023	
	1023				1132	
	971				1014	
	1014				1134	
	382				345	
	345				1122	
	354				113	
	113				10[illegible]6	
	359				130	
	130				1035	
	363				128	
	128				1034	
	369				126	
	126				1030	
	389				1094	
	1094				1021	
	388				1092	
	1092				1018	
	373				1098	
	1098				1016	
	378				1096	
	1096				1011	
	390				132	
	132				1007	
	355				117	
	117				1054	
	119				957	
	385				1104	
	1104				1042	
	374				1102	
	1102				1046	
	379				1100	
	1100				1041	
	1048				104	
	1009A				1043	
	1043				106	
	993				1037	
	1037				108	
	959				1028	
	1028				110	
	970				1019	
	1019				112	
	987				1006	
	1006				124	
	121				989	
	1135	WHT	22	16	1033	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1029	WHT	22	16	1136	
	1137				1026	
	1024				1138	
	1139				1020	
	1017				1140	
	1141				1038	
	1039				1192	
	1144				1010	
	1015				1145	
	1146	WHT	22	16	1005	
	158	WHT	22	20	50	
	151	BLK			1155	
	157	WHT	22	20	79	
	150	BLK			1156	
	160	WHT	22	20	74	
	153	BLK			1156	
	144	WHT	22	20	69	
	141	BLK			1157	
	145	WHT	22	20	64	
	142	BLK			1157	
	146	WHT	22	20	59	
	143	BLK			1159	
	175	WHT	22	20	694	
	169	BLK			589	
	1084	WHT	22	20	891	
	1056A	BLK			1156	
	920	WHT	22	20	890	
	930	BLK			1152	
	204	WHT	22	20	704	
	199	BLK			590	
	203	WHT	22	20	699	
	198	BLK			590	
	176	WHT	22	20	717	
	170	BLK			591	
	294	WHT	22	20	1161	
	290	BLK			94	
	329	WHT	22	20	95	
	316	BLK			94	
	325	WHT	22	20	98	
	317	BLK			93	
	326	WHT	22	20	100	
	318	BLK			93	
	337	WHT	22	20	102	
	331	BLK			92	
	339	WHT	22	20	88	
	333	BLK			92	
	338	WHT	22	20	90	
	332	BLK			91	
	1004B	BLK	22	15	896	
	897	BLK	22	15	1004C	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 05044 DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014295	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R.D. Glenn DATE
CHECKED A. Caggiano
APPROVAL H.W. Morse 25 NOV 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO. —— SIZE J NASA DRAWING NO 1014237
SCALE NONE WT SHEET 4 OF 6

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	340	WHT	22	20	101	
	334	BLK			91	
	323	WHT	22	20	1177	
	315	BLK			1162	
	310	WHT	22	20	1175	
	302	BLK			1163	
	309	WHT	22	20	1173	
	301	BLK			1163	
	308	WHT	22	20	1171	
	300	BLK			1166	
	307	WHT	22	20	1169	
	299	BLK			1166	
	295	WHT	22	20	1165	
	285	BLK			1167	
	293	WHT	22	20	1160	
	289	BLK			1167	
	314	WHT	22	20	5	
	306	BLK			1151	
	296	WHT	22	20	10	
	286	BLK			1151	
	341	WHT	22	20	15	
	335	BLK			1155	
	342	WHT	22	20	20	
	336	BLK			1157	
	281	WHT	22	20	745	
	273	BLK			591	
	282	WHT	22	20	740	
	274	BLK			592	
	284	WHT	22	20	727	
	276	BLK			592	
	283	WHT	22	20	711	
	275	BLK			593	
	268	WHT	22	20	751	
	260	BLK			593	
	267	WHT	22	20	734	
	259	BLK			594	
	280	WHT	22	20	610	
	272	BLK			594	
	279	WHT	22	20	611	
	271	BLK			595	
	278	WHT	22	20	612	
	270	BLK			595	
	277	WHT	22	20	613	
	269	BLK			596	
	266	WHT	22	20	614	
	258	BLK			596	
	234	WHT	22	20	495	
	226	BLK			561	
	167	WHT	22	20	506	
	161	BLK			559	
	194	WHT	22	20	642	
	189	BLK			583	
	193	WHT	22	20	622	
	188	BLK			583	
	192	WHT	22	20	623	
	187	BLK			584	
	184	WHT	22	20	624	
	183	BLK			584	
	180	WHT	22	20	625	
	174	BLK			585	
	179	WHT	22	20	626	
	173	BLK			585	
	178	WHT	22	20	627	
	172	BLK			586	
	214	WHT	22	20	608	
	209	BLK			586	
	213	WHT	22	20	609	
	208	BLK			587	
	166	WHT	22	20	803	
	165	BLK			587	
	164	WHT	22	20	809	
	163	BLK			588	
	177	WHT	22	20	827	
	171	BLK			588	
	182	WHT	22	20	838	
	181	BLK			589	
	139	WHT	22	20	30	
	135	BLK			1153	
	140	WHT	22	20	35	
	136	BLK			1153	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	138	WHT	22	20	40	
	134	BLK			1154	
	137	WHT	22	20	45	
	133	BLK			1154	
	159	WHT	22	20	25	
	152	BLK			1155	
	915	WHT	22	20	528	
	921	BLK			573	
	941	WHT	22	20	529	
	935	BLK			572	
	908	WHT	22	20	515	
	903A	BLK			572	
	916	WHT	22	20	530	
	922	BLK			571	
	942	WHT	22	20	531	
	932	BLK			571	
	950	WHT	22	20	533	
	913	BLK			570	
	938	WHT	22	20	532	
	944	BLK			570	
	946	WHT	22	20	1058	
	1089	BLK			900	
	947	WHT	22	20	1060	
	1090	BLK			899	
	201	WHT	22	20	640	
	196	BLK			579	
	200	WHT	22	20	641	
	195	BLK			580	
	1082	WHT	22	20	36	
	1056D	BLK			1152	
	202	WHT	22	20	639	
	197	BLK			580	
	997	WHT	22	20	471	
	979	BLK			488	
	974	WHT	22	20	472	
	992	BLK			487	
	969	WHT	22	20	484	
	996	BLK			487	
	994	WHT	22	20	478	
	961	BLK			486	
	968	WHT	22	20	479	
	978	BLK			486	
	387	WHT	22	20	664	
	393	BLK			581	
	929	WHT	22	20	47	
	934	BLK			1150	
	914	WHT	22	20	42	
	928	BLK			1150	
	939	WHT	22	20	634	
	933	BLK			579	
	526	WHT	22	20	168	
	578	BLK			162	
	948	WHT	22	20	463	
	927	BLK			488	
	906	WHT	22	20	516	
	912	BLK			577	
	210	WHT	22	20	521	
	205	BLK			578	
	904	WHT	22	20	517	
	910	BLK			577	
	905	WHT	22	20	518	
	911	BLK			576	
	919	WHT	22	20	519	
	926	BLK			576	
	917	WHT	22	20	510	
	923	BLK			575	
	943	WHT	22	20	511	
	937	BLK			575	
	918	WHT	22	20	512	
	924	BLK			574	
	940	WHT	22	20	513	
	945	BLK			574	
	1001	WHT	22	20	514	
	956	BLK			573	
	265	WHT	22	20	615	
	257	BLK			597	
	264	WHT	22	20	616	
	256	BLK			597	
	263	WHT	22	20	617	
	255	BLK			598	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	262	WHT	22	20	618	
	254	BLK			598	
	261	WHT	22	20	619	
	253	BLK			599	
	252	WHT	22	20	620	
	244	BLK			599	
	251	WHT	22	20	621	
	243	BLK			599A	
	250	WHT	22	20	600	
	242	BLK			599A	
	249	WHT	22	20	601	
	241	BLK			599B	
	248	WHT	22	20	602	
	240	BLK			599B	
	247	WHT	22	20	603	
	239	BLK			599C	
	329	WHT	22	20	785	
	321	BLK			599C	
	330	WHT	22	20	779	
	322	BLK			599D	
	298	WHT	22	20	761	
	290	BLK			599D	
	311	WHT	22	20	775	
	303	BLK			599E	
	328	WHT	22	20	815	
	320	BLK			599E	
	327	WHT	22	20	821	
	319	BLK			599F	
	297	WHT	22	20	791	
	291	BLK			599F	
	288	WHT	22	20	797	
	287	BLK			599G	
	313	WHT	22	20	764	
	305	BLK			599G	
	218	WHT	22	20	649	
	217	BLK			581	
	220	WHT	22	20	499	
	219	BLK			569	
	1057	WHT	22	20	645	
	1056B	BLK			582	
	212	WHT	22	20	503	
	207	BLK			569	
	191	WHT	22	20	504	
	186	BLK			568	
	190	WHT	22	20	505	
	185	BLK			568	
	1081	WHT	22	20	652	
	1056C	BLK			582	
	246	WHT	22	20	489	
	238	BLK			567	
	245	WHT	22	20	490	
	237	BLK			567	
	236	WHT	22	20	491	
	228	BLK			566	
	231	WHT	22	20	492	
	223	BLK			566	
	230	WHT	22	20	493	
	222	BLK			565	
	155	WHT	22	20	523	
	148	BLK			565	
	154	WHT	22	20	524	
	147	BLK			564	
	156	WHT	22	20	522	
	149	BLK			564	
	216	WHT	22	20	500	
	215	BLK			563	
	235	WHT	22	20	494	
	227	BLK			563	
	233	WHT	22	20	496	
	225	BLK			562	
	232	WHT	22	20	497	
	224	BLK			562	
	229	WHT	22	20	498	
	221	BLK			561	
	312	WHT	22	20	769	
	304	BLK			599H	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 05044 DATE 10 Dec 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014295	1019156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN B.C. [illegible] DATE 28 Oct 63
CHECKED A. Caggiano 6 Nov 63
APPROVAL H. W. Moore 25 Nov 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014237
SCALE NONE
WT
SHEET 5 OF 6

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	759	WHT	22	16	412	
	448				836	
	831				423	
	429				847	
	842				402	
	490				872	
	407				813	
	807				435	
	441				825	
	819				413	
	446				868	
	869				822	
	783				447	
	401				801	
	789				419	
	425				795	
	400				860	
	861				798	
	768				431	
	437				779	
	756				406	
	405				852	
	853				771	
	765				854	
	862				792	
	816				870	
	21				16	
	16				11	
	11				6	
	6				1	
	415				220	
	408				212	
	414				191	
	651				504	
	420				190	
	652				505	
	46				51	
	51				55	
	55				60	
	60				65	
	65				70	
	70				75	
	75				80	
	80				84	
	47				52	
	52				56	
	56				61	
	61				66	
	66				71	
	71				76	
	76				81	
	81				85	
	426				246	
	432				245	
	526				634	
	629				521	
	210				397	
	54				67	
	72				77	
	48				82	
	28				23	
	8				3	
	18				13	
	38				33	
	528				683	
	683				687	
	529				855	
	855				851	
	57				62	
	530				863	
	863				859	
	531				871	
	871				867	
	532				879	
	879				875	
	404				201	
	399				200	
	410				202	
	639				41	
	41	WHT	22	16	36	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	36	WHT	22	16	31	
	31				26	
	26				21	
	655				491	
	438				236	
	656				492	
	444				231	
	657				493	
	398				230	
	631				523	
	632				524	
	630				522	
	409				216	
	500				646	
	658				494	
	445				235	
	659				495	
	439				234	
	660				496	
	433				233	
	427				232	
	643				497	
	421				229	
	642				835	
	622				890	
	623				845	
	624				830	
	625				725	
	626				719	
	627				697	
	608				806	
	609				823	
	803				703	
	809				692	
	827				833	
	838				844	
	717				721	
	101				99	
	99				97	
	97				96	
	96				89	
	1160				1164	
	1164				1168	
	1168				1170	
	1170				1172	
	1172				1174	
	1174				1176	
	42				37	
	37				32	
	32				27	
	27				22	
	22				17	
	17				12	
	12				7	
	7				2	
	610				799	
	611				782	
	612				812	
	613				817	
	614				767	
	615				773	
	616				755	
	617				758	
	618				788	
	619				793	
	620				708	
	621				714	
	600				743	
	601				749	
	602				731	
	603				737	
	874				839	
	832				829	
	826				846	
	843				841	
	837				834	
	808				805	
	802				824	
	820				818	
	814	WHT	22	16	811	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	784	WHT	22	16	781	
	778				800	
	796				794	
	790				787	
	760				757	
	754				776	
	772				770	
	766				763	
	736				733	
	730				752	
	748				746	
	742				739	
	713				710	
	707				728	
	724				722	
	718				716	
	696				693	
	691				705	
	702				700	
	738				418	
	424				732	
	741				443	
	449				747	
	715				430	
	436				709	
	720				454	
	452				726	
	698				442	
	403				706	
	701				367	
	684				744	
	750				685	
	850				753	
	735				849	
	689				712	
	729				688	
	878				723	
	695				877	
	873				828	
	810				881	
	882				804	
	786				865	
	866				780	
	762				857	
	858				777	
	880				362	
	416				864	
	856				422	
	411				686	
	876				417	
	428				848	
	690				434	
	973				1079	
	349				507	
	508				350	
	351				509	
	501				678	
	681				527	
	520				680	
	637				397	
	964				1098	
	1052				605	
	605				368	
	396				604	
	604	WHT	22	16	396A	
	962	WHT	24	28	1059	
	1059	WHT	22	16	538	
	967				1061	
	985				1068	
	983				1062	
	990				1063	
	1003				1064	
	972				1065	
	980				1087	
	988				1086	
	981				1085	
	548				682	
	679				549	
	377				636	
	348	WHT	22	16	638	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE 10 Dec 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014298	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R D Glynn DATE
CHECKED 6 NOV 63
APPROVAL H W 25 NOV 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED SYSTEM INTERFACE COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014237
SCALE NONE
WT
SHEET 6 OF 6

1014237

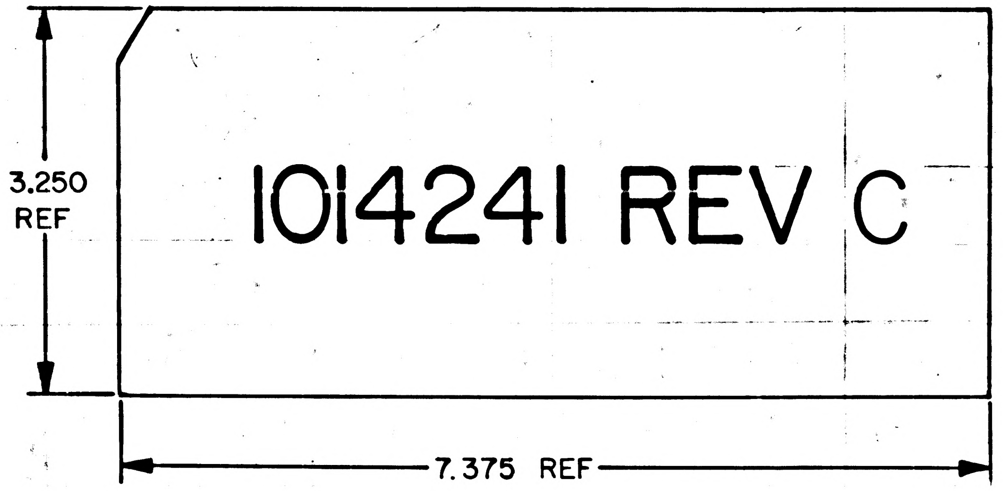
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	
A	CLASS II CHANGE PER RD R5750 DR S.T. CHK APPD	27 JAN 64	JJS
B	CLASS II CHANGE PER RD-R5808 DR S.T. CHK APPD	2/21/64	JJS
C	CLASS II CHANGE PER RD-R5964 DR CHK APPD	23 APR 64	KCO
D	CHANGED PER TDRR 09735 DR CHK APPD	9 JUNE 64	KCO

DECK F

NO. OF CARDS 706



REFERENCE DRAWINGS

SCHEMATICS
- 1014353
- 1014354
- 1014361
- 1014346
- 1014347
- 1014348
- 1014349
- 1014350
- 1014351
- 1014389

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 05245 DATE 12/17/63

NOTE:

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

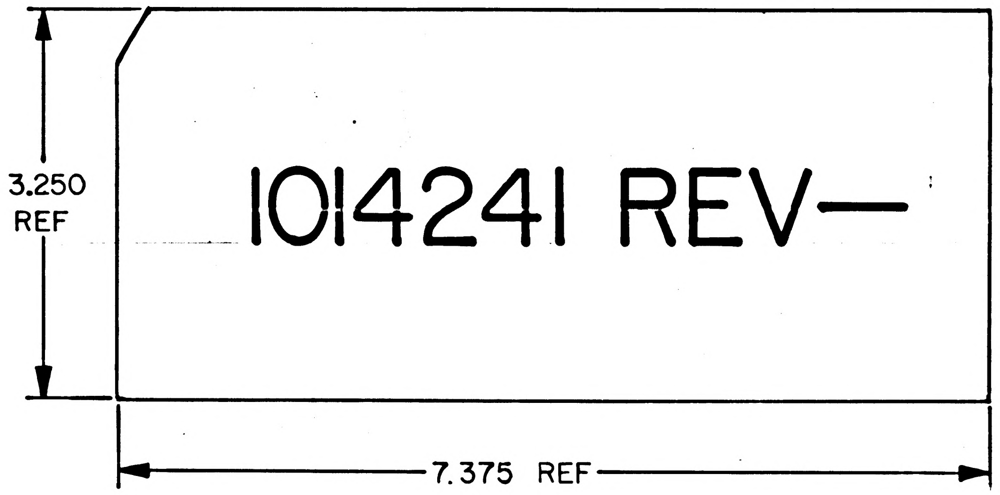
RAYTHEON CO. LEXINGTON, MASS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
CONTRACT NO. NAS-9-498	
DRAWN DATE 2 OCT 63 CHECKED 7 OCT 63 APPROVAL APPROVAL 12/6/63	WIRE WRAP MACHINE CARDS COMPUTER, TEST SET LOGIC DRAWER NO. 1 LOGIC PLATE ASSY NO. 2
NASA APPROVAL MIT APPROVAL 12/17/63 MIT APPROVAL 12/17/63	CODE IDENT NO. — SIZE B NASA DRAWING NO. 1014241
	SCALE NONE WT SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	

DECK F
NO OF CARDS 666



REFERENCE DRAWINGS

SCHEMATICS	1014353
	1014354
	1014361
	1014346
	1014347
	1014348
	1014349
	1014350
	1014351
	1014389

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO 05245 DATE 12/17/63

NOTE:
NEGATIVE SHALL BE SCREENED
TO 50% OF BLACK

MASTER

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

DRAWN DATE 2 OCT 63
CHECKED 7 OCT 63
APPROVAL JPK
APPROVAL JJS
12/6/63
NASA APPROVAL 12/17/63
MIT APPROVAL 12/17/63
MIT APPROVAL S. Scolamiero 12/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE WRAP MACHINE CARDS
COMPUTER TEST SET
LOGIC DRAWER NO. 1
LOGIC PLATE ASSY NO. 2

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	B	1014241

SCALE NONE
WT
SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

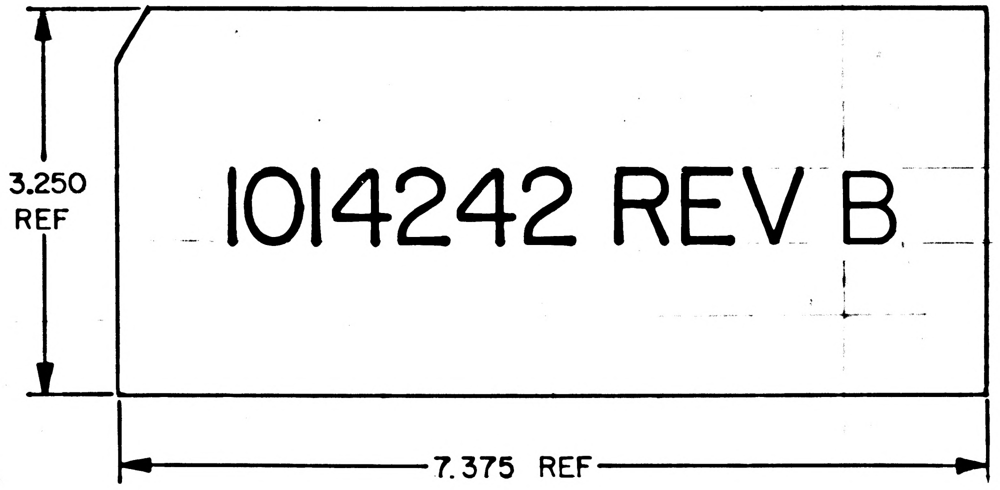
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	[illegible]
A	**CLASS II CHANGE PER RD-R5611** **DR** S.T. Oufiee **CHK** G. Cangelosi **APPD** [illegible]	2/21/64	JDS
B	CLASS II CHANGE PER RD-R5964 DR [illegible] CHK [illegible] APPD [illegible]	23 APR 64	KEB
C	CHANGED PER TDRR 09736 DR. a. Brown CHK [illegible] APPD. [illegible]	8 JUNE 64	KEB

DECK G

NO. OF CARDS 740



REFERENCE DRAWINGS

SCHEMATICS
- 1014353
- 1014354
- 1014361
- 1014346
- 1014347
- 1014348
- 1014349
- 1014350
- 1014351
- 1014389

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 05245 DATE 12/17/63

NOTE:

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

RAYTHEON CO. LEXINGTON, MASS.	**MANNED SPACECRAFT CENTER** **HOUSTON, TEXAS**
CONTRACT NO. NAS-9-498	
DRAWN S.T. Oufiee **DATE** 3 OCT 63 **CHECKED** [illegible] 3 OCT 63 **APPROVAL** G. Sparling JPK **APPROVAL** [illegible] JJS J. L. Pendleton KB 12/6/63	WIRE WRAP MACHINE CARDS COMPUTER TEST SET LOGIC DRAWER NO. 1 LOGIC PLATE NO. 3
NASA APPROVAL [illegible] 12/17/63 **MIT APPROVAL** [illegible] 12/17/63 **MIT APPROVAL** A. [illegible] 12/17/63	**CODE IDENT NO.** — **SIZE** B **NASA DRAWING NO.** 1014242 **SCALE** NONE **WT** **SHEET** 1 **OF** 1

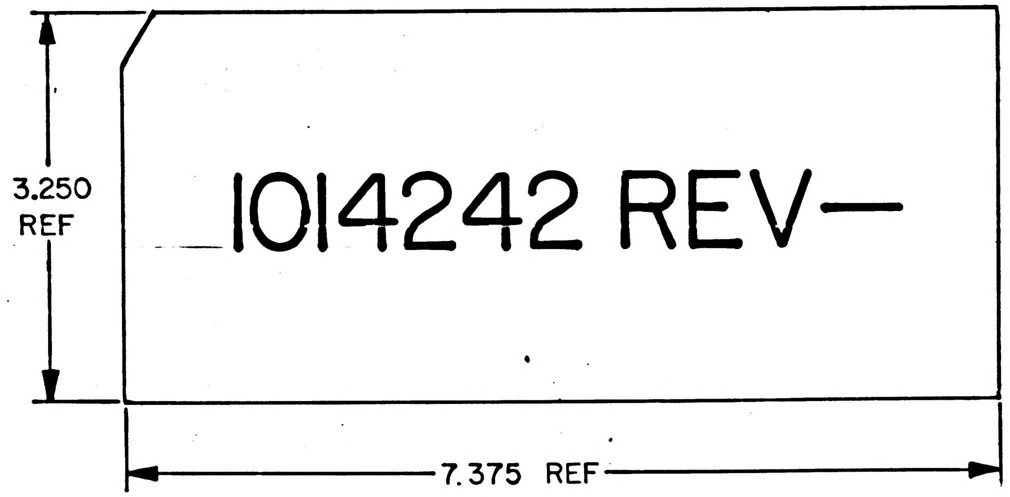
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	

DECK G

NO OF CARDS 699



REFERENCE DRAWINGS

SCHEMATICS 1014353
1014354
1014361
1014346
1014347
1014348
1014349
1014350
1014351
1014389

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO 05245 DATE 12/17/63

NOTE:

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

MASTER

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

DRAWN DATE 3 OCT 63
CHECKED 3 OCT 63
APPROVAL JPK
APPROVAL
12/6/63
NASA APPROVAL 12/17/63
MIT APPROVAL 12/17/63
MIT APPROVAL 12/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE WRAP MACHINE CARDS
COMPUTER TEST SET
LOGIC DRAWER NO. 1
LOGIC PLATE NO. 3

CODE IDENT NO. —
SIZE B
NASA DRAWING NO. 1014242
SCALE NONE
WT
SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

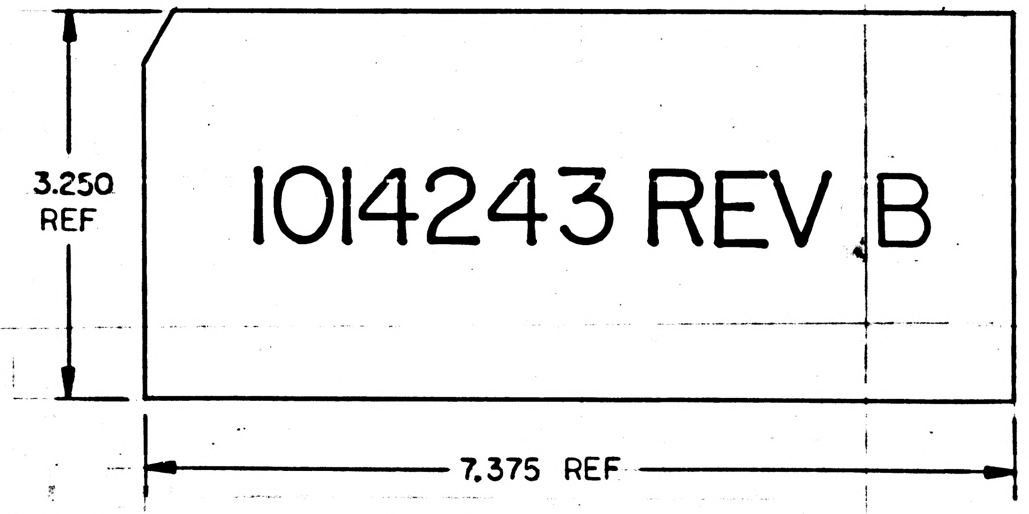
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 05245	12/17/63	
A	CLASS II CHANGE PER RD-R5750 DR S.T. Chifia CHK W.J. Gifford APPD C Sparling	27 JAN 64	
B	CLASS II CHANGE PER RD-R5964 DR CHK APPD	64	KCB
C	CHANGED PER TDRR 09737 DR CHK APPD A.J. Marinaro	10 JUN 64	KEB

DECK H

NO. OF CARDS 735



NOTE:

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

REFERENCE DRAWINGS

SCHEMATICS 1014353 1014355
1014354
1014361
1014346
1014347
1014348
1014349
1014350
1014351
1014389

FOR INFORMATION ONLY

CLASS B RELEASE

TDRR NO. 05245 DATE 12/17/63

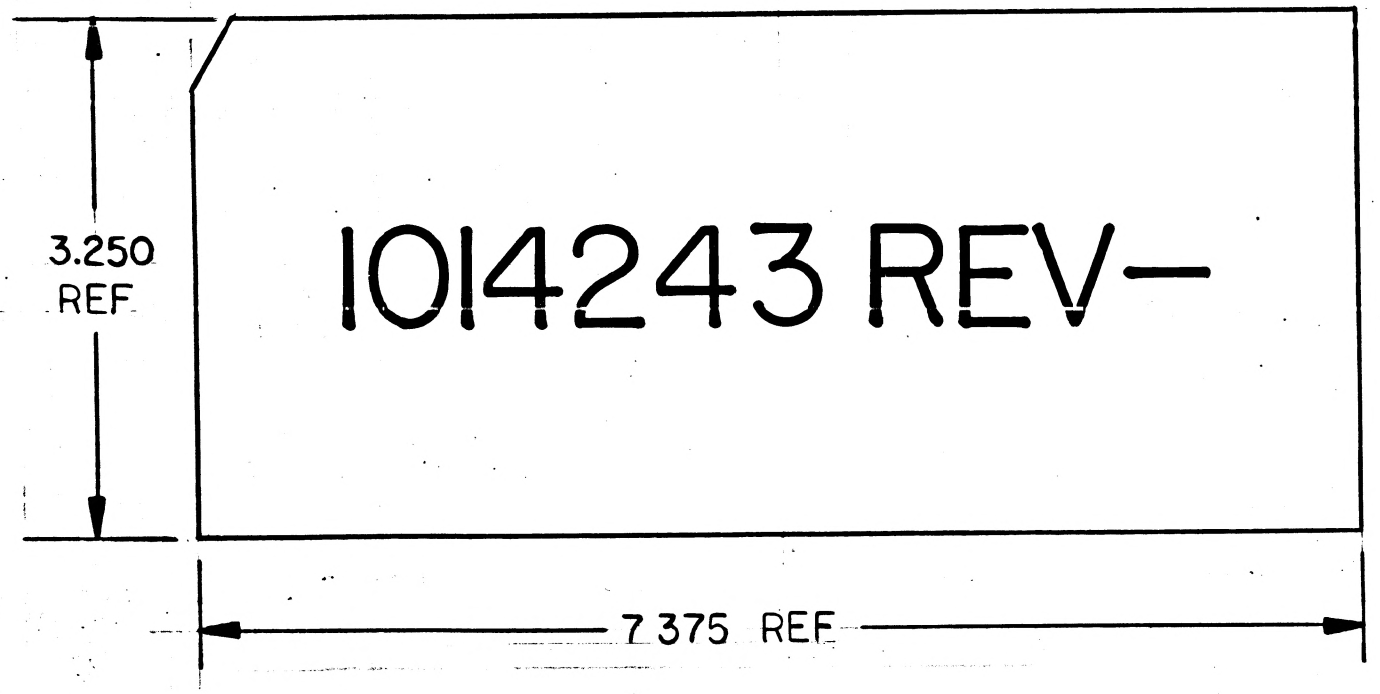
RAYTHEON CO. LEXINGTON, MASS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
CONTRACT NO. NAS-9-498	
DRAWN DATE CHECKED 7 OCT 63 APPROVAL APPROVAL APPROVAL	WIRE WRAP MACHINE CARDS COMPUTER: TEST SET LOGIC DRAWER NO. 1 LOGIC PLATE ASSY NO. 4
NASA APPROVAL MIT APPROVAL 12/17/63 MIT APPROVAL 12/17/63	CODE IDENT NO. — SIZE B NASA DRAWING NO. 1014243 SCALE NONE WT SHEET 1 OF 1

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 05245	12/17/63	

DECK H
NO OF CARDS 708



REFERENCE DRAWINGS
SCHEMATICS 1014353 1014355
1014354
1014361
1014346
1014347
1014348
1014349
1014350
1014351
1014389

FOR INFORMATION ONLY

CLASS B RELEASE
TDRR NO 05245 DATE 12/17/63

NOTE:
NEGATIVE SHALL BE SCREENED
TO 50% OF BLACK

MASTER

RAYTHEON RAYTHEON CO. LEXINGTON, MASS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
CONTRACT NO. NAS-9-498	
DRAWN DATE 3OCT63 CHECKED 7OCT63 APPROVAL JPK APPROVAL JJB APPROVAL RPB 12/16/63	WIRE WRAP MACHINE CARDS COMPUTER: TEST SET LOGIC DRAWER NO.1 LOGIC PLATE ASSY NO.4
NASA APPROVAL 12/17/63 MIT APPROVAL 12/17/63 MIT APPROVAL 12/17/63	CODE IDENT NO. — SIZE B NASA DRAWING NO. 1014243 SCALE NONE WT SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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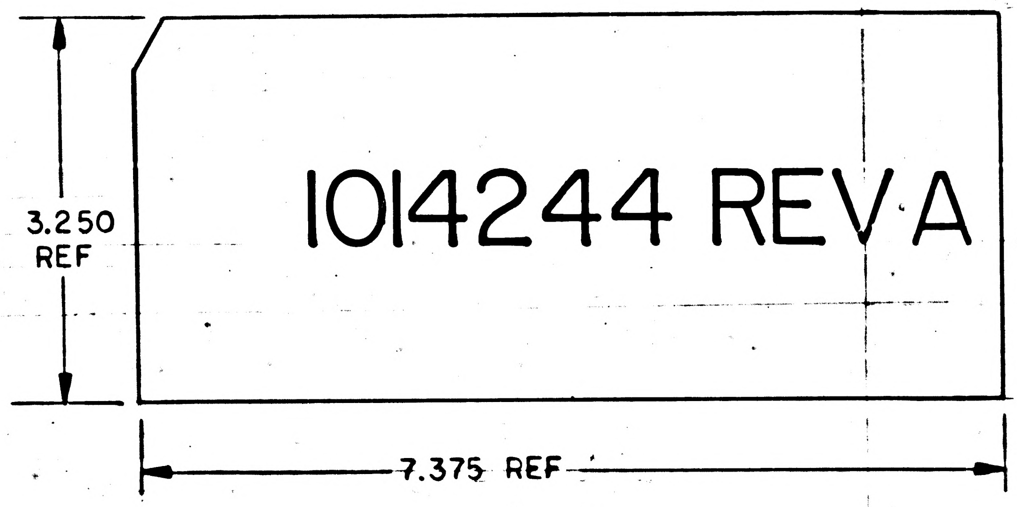
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 05245	12/17/63	
A	CLASS II CHANGE PER RD-R5964 DR B. Wheeler CHK APPD	23 APR 64	
B	CHANGED PER TDRR 09738 DR R.E. Heischer CHK APPD	9 June 64	

DECK J
NO. OF CARDS 345



REFERENCE DRAWINGS
SCHEMATICS 1014355
1014363
1014358

FOR INFORMATION ONLY
CLASS B RELEASE
TDRR NO. 05245 DATE 12/17/63

NOTE:
NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

RAYTHEON RAYTHEON CO. LEXINGTON, MASS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
CONTRACT NO. NAS-9-498	
DRAWN DATE 3 OCT 63 CHECKED 7 OCT 63 APPROVAL APPROVAL APPROVAL	WIRE WRAP MACHINE CARDS COMPUTER TEST SET LOGIC DRAWER NO 1 LOGIC PLATE ASSY NO. 5
NASA APPROVAL MIT APPROVAL 12/17/63 MIT APPROVAL 12/17/63	CODE IDENT NO. — SIZE B NASA DRAWING NO 1014244 SCALE NONE WT SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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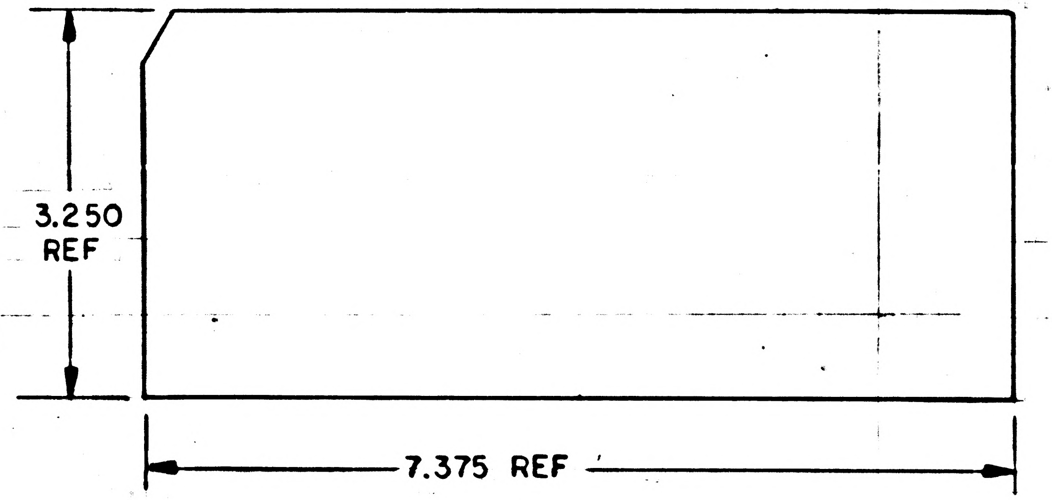
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 05245	12/17/63	
A	CLASS II CHANGE PER RD-R5964 DR R. Wheeler CHK APPD R. Conley	28 APR 64	
B	CHANGED PER TDRR 09738 DR R.E. Heischer CHK APPD R. Conley	8 JUNE 64	
C	CHANGED PER TDRR 11758 DR CHK A.G.C. APPD R. Conley	3 SEPT 64	

DECK J

NO. OF CARDS 345



REFERENCE DRAWINGS

SCHEMATICS 1014355
1014363
1014358

FOR INFORMATION ONLY

CLASS B RELEASE
TDRR NO. 05245 DATE 12/17/63

NOTE:
USE CARD FORM IBM U11897
OR EQUIVALENT

MASTE

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

DRAWN DATE 3 OCT 63
CHECKED 7 OCT 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 12/17/63
MIT APPROVAL 12/17/63
MIT APPROVAL 12/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE WRAP MACHINE CARDS
COMPUTER TEST SET
LOGIC DRAWER NO 1
LOGIC PLATE ASSY NO. 5

CODE IDENT NO. —
SIZE B
NASA DRAWING NO. 1014244
SCALE NONE
WT
SHEET 1 OF 1

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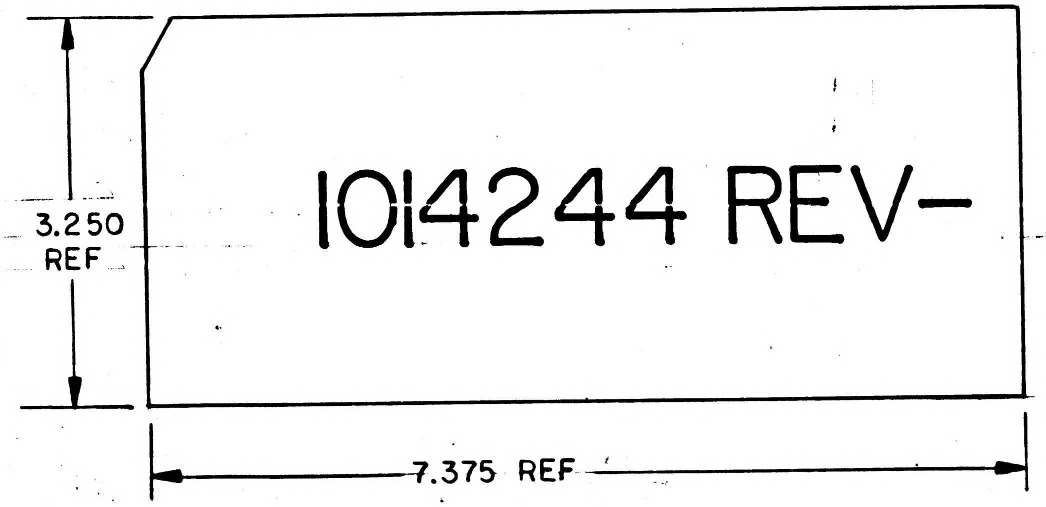
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 05245	12/17/63	

DECK J
NO OF CARDS 347



REFERENCE DRAWINGS
SCHEMATICS 1014355
1014363
1014358

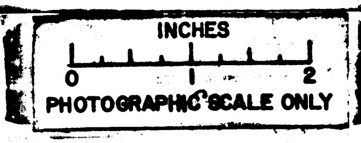
FOR INFORMATION ONLY

CLASS B RELEASE
TDRR NO 05245 DATE 12/17/63

NOTE:
NEGATIVE SHALL BE SCREENED
TO 50% OF BLACK

MASTER

RAYTHEON CO. LEXINGTON, MASS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
CONTRACT NO. NAS-9-498	
DRAWN DATE 3 OCT 63 CHECKED 7 OCT 63 APPROVAL APPROVAL APPROVAL 12/16/63	WIRE WRAP MACHINE CARDS COMPUTER TEST SET LOGIC DRAWER NO 1 LOGIC PLATE ASSY NO. 5
NASA APPROVAL 12/17/63 MIT APPROVAL 12/17/63 MIT APPROVAL 12/17/63	CODE IDENT NO. — SIZE B NASA DRAWING NO. 1014244 SCALE NONE WT SHEET 1 OF 1



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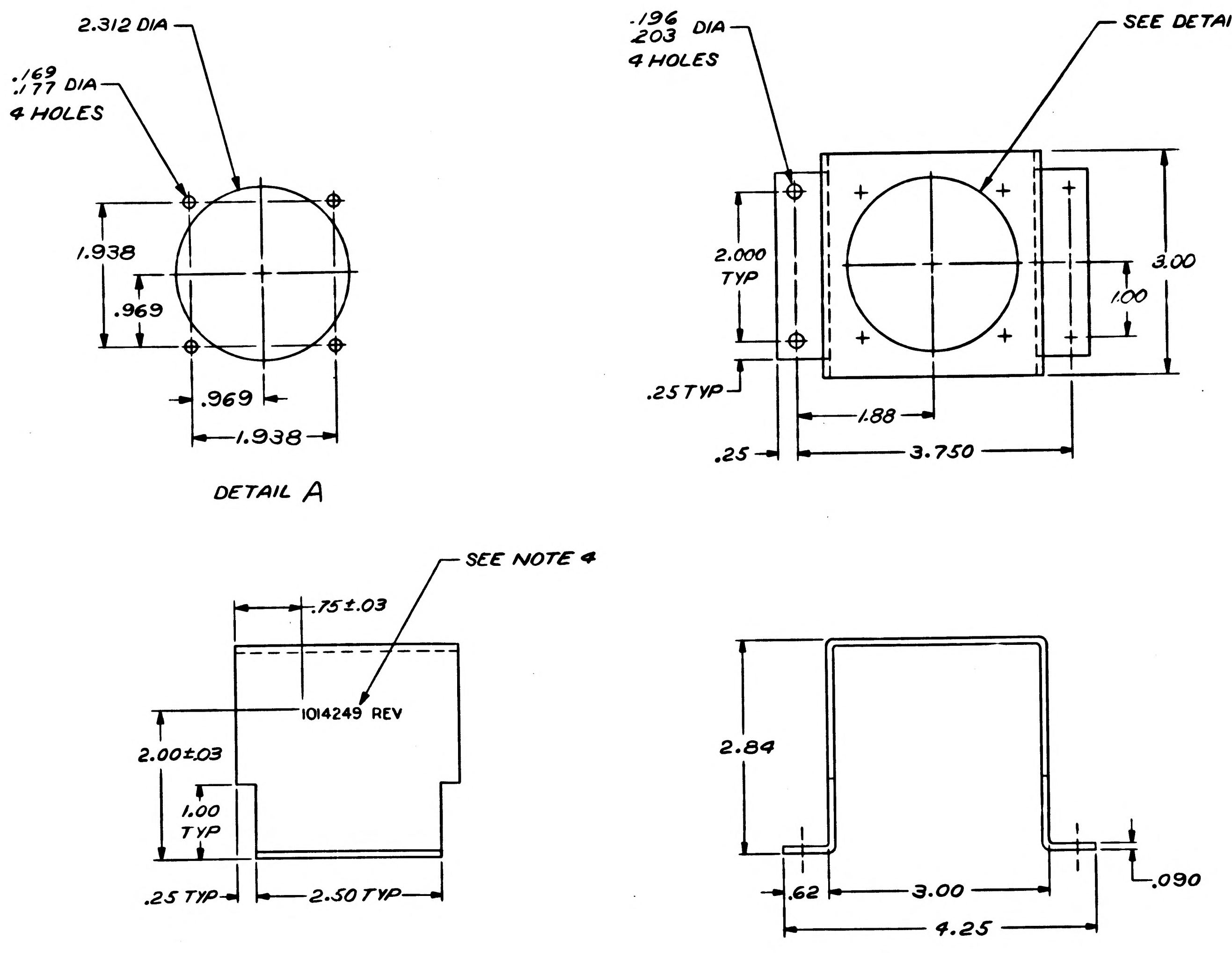
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR NO.		



FOR INFORMATION ONLY

CLASS B RELEASED PER TDRR NO. 01395 DATE 5/29/63

NOTES
1. MAT'L: 5052 H32 AL, PER QQ-A-318, TEMPER H32
2. REMOVE BURRS AND SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541
4. MARK .12 HIGH BLACK PER ND1002019
5. BEND RADIUS .06 R

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014136	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON RAYTHEON CO. LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 2 MAY 63
CHECKED 9 May 63
APPROVAL C. Sperling
APPROVAL 17 May 63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 29 May 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET, CONNECTOR
AC INPUT PANEL

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	D	1014249
SCALE 1/1	WT	SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

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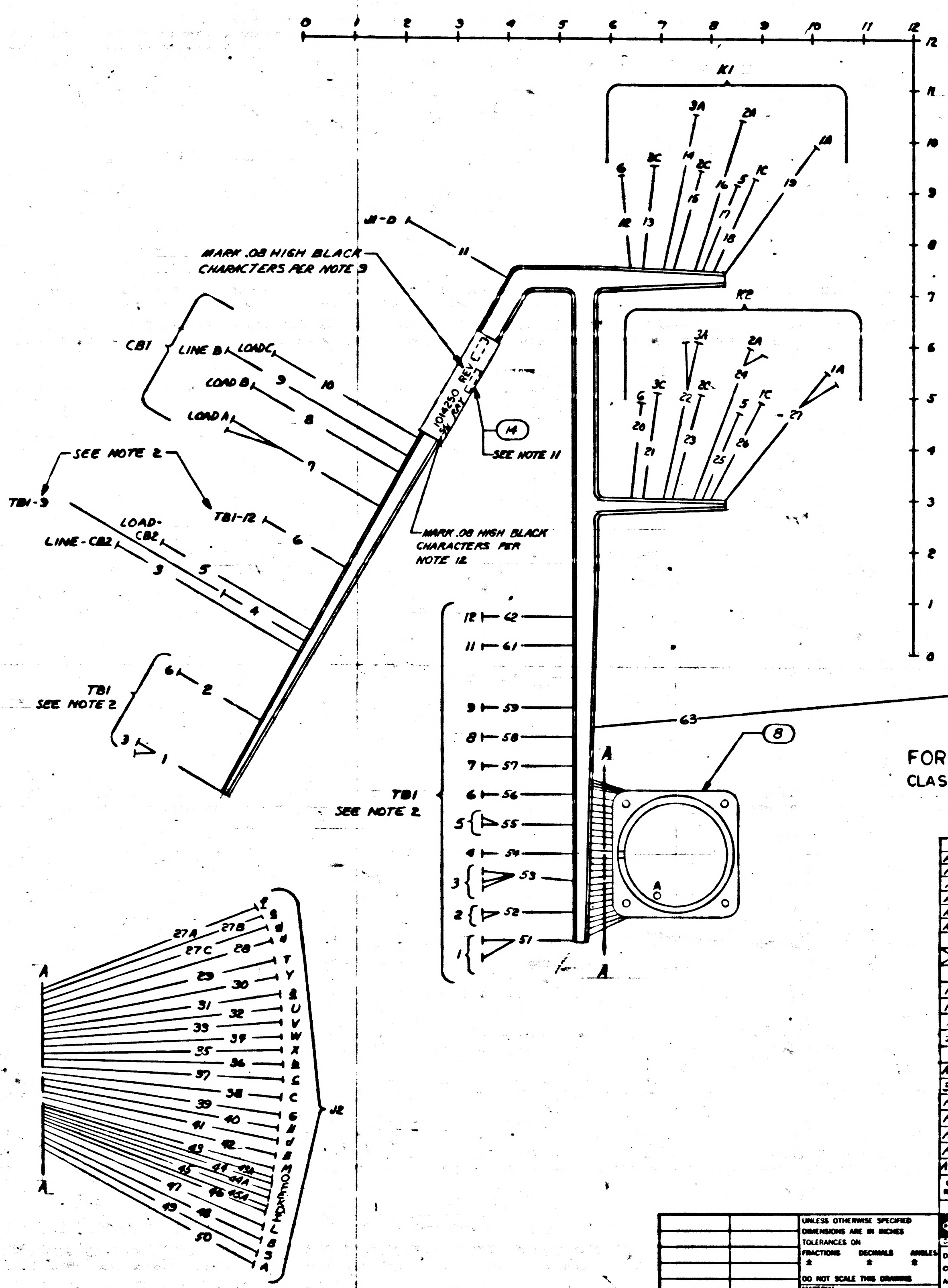
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	REVISED CLASS II PER RD R5264A CHK		
B	CL II CHANGE PER RD R 5417 DR CHK APPD	10-10-63	
C	CL II CHANGE PER RD-R 5695 CHK APPD		
D	CHANGED PER TDRR NO 06681 DR FWP CHK J-J APPD	9 MAR 64	KCB

ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
*	25	WHT	18	1	44	
	48				17	*
*	12				1	** REF
*	7				50	
REF *	22	WHT	16	10	27A	
	27B				24	*
REF *	27				27C	
*	5	WHT	14	11	49	
	47				22	*
REF *	24				46	
	45				27	*
*	26				30	
	29				23	*
*	21				28	
	43	WHT/BLK/GY	12	2	51	*
*	51		16	15	42	
	41		12	2	52	*
	40				53	*
*	53				20	*
REF *	7	WHT/BRN/GY	12	3	19	*
*	18				2	*
*	56		16	16	37	
	38		12	3	55	*
*	54	BLK/WHT	16	20	39	
*	8	WHT/RED/GY	12	4	16	*
*	15				4	*
	36		16	17	59	*
*	58		12	4	35	
	34				57	*
*	9				3	*
*	10	WHT/ORN/GY	12	5	14	*
*	13				6	*
	31		16	18	62	*
*	61		12	5	33	
	32	BLK/WHT	16	20	55	*
	11	WHT/BLK/GY	8	12	1	**
	44A	WHT	16	10	53	
	45A	WHT	16	10	52	
	43A	GRN	10	19	63	ATTACH FIND NO 21

* ATTACH 1 OF FIND NO 6 & 3/4 INCH OF FIND NO. 7
** ATTACH 1 OF FIND NO 13 & 3/4 INCH OF FIND NO. 7

NOTES
1. FOR SYMBOLS, FABRICATION & REQD TESTS SEE ND 1002032
2. IDENTIFY TEMPORARILY AS SHOWN
3. MIL-I-23053, CLASS 1, COLOR BLK, SIZE NO. 7
4. MIL-W-16878/4 E12 WHT/ORN/GY
5. MIL-W-16878/4 E12 WHT/RED/GY.
6. MIL-W-16878/4 E12 WHT/BRN/GY
7. MIL-W-16878/4 E12 WHT/BLK/GY
~~8. MIL-I-631 TYPE F, FORM U, GRADE B, CLASS 2, AWG 1/2~~
9. MARK PER ND 1002019
10. MIL-W-16878/4 E8 WHT/BLK/GY
11. BOND FIND NO. 14 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
12. MARK SERIAL NO. PER ND1002023



0 1 2 3 4 5 6 7 8 9 10 11 12
K1
3A
2A
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6
3C
14
2C
16
5
1C
19
12
13
15
17
18
J1-D
11
MARK .08 HIGH BLACK CHARACTERS PER NOTE 9
K2
3A
2A
1A
6
3C
22
2C
24
5
1C
27
20
21
23
25
26
CB1
LINE B
LOAD C
9
10
LOAD B
8
LOAD A
7
1014250 REV
S/N RAY
14
SEE NOTE 11
SEE NOTE 2
TB1-3
TB1-12
6
LOAD-CB2
LINE-CB2
3
5
4
MARK .08 HIGH BLACK CHARACTERS PER NOTE 12
TB1
SEE NOTE 2
6
2
3
1
12 — 62
11 — 61
9 — 59
8 — 58
7 — 57
6 — 56
5 — 55
4 — 54
3 — 53
2 — 52
1 — 51
TB1
SEE NOTE 2
63
GND
8
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27A
27B
27C
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43A
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45A
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J2

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01395 DATE 5-29-63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	MS35430-9	LUG, TERMINAL	21
AR	MIL-W-16878/4 TYPE E16 BLK/WHT	WIRE, ELECTRICAL	20
AR	MIL-W-16878/4 TYPE E10 GRN	WIRE, ELECTRICAL	19
AR	MIL-W-16878/4 TYPE E16 WHT/ORN/GY	WIRE, ELECTRICAL	18
AR	16 WHT/RED/GY	WIRE, ELECTRICAL	17
AR	16 WHT/BRN/GY	WIRE, ELECTRICAL	16
AR	MIL-W-16878/4 TYPE E16 WHT/BLK/GY	WIRE, ELECTRICAL	15
1	1014472-2	BAND MARKER, CABLE	14
☒	1014197	SCHEMATIC	REF
1	MS35430-13	LUG, TERMINAL	13
AR	SEE NOTE 10	WIRE, ELECTRICAL	12
AR	MIL-W-16878/4 E14 WHT	WIRE, ELECTRICAL	11
AR	MIL W-16878/4 E16 WHT	WIRE, ELECTRICAL	10
~~AR~~	~~SEE NOTE 8~~	~~INSULATION, SLEEVING~~	~~9~~
1	MS3102A-36-9S	CONNECTOR	8
AR	SEE NOTE 3	INSULATION, SLEEVING	7
39	MS35430-10	LUG, TERMINAL	6
AR	SEE NOTE 4	WIRE, ELECTRICAL	5
AR	SEE NOTE 5	WIRE, ELECTRICAL	4
AR	SEE NOTE 6	WIRE, ELECTRICAL	3
AR	SEE NOTE 7	WIRE, ELECTRICAL	2
AR	MIL-W-16878/4 E18 WHT	WIRE, ELECTRICAL	1

LIST OF MATERIALS

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014136	1014156	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ± DO NOT SCALE THIS DRAWING MATERIAL HEAT TREATMENT FINAL FINISH	RAYTHEON CO. LEXINGTON, MASS.
NEXT ASSY	USED ON		DRAWN DATE CHECKED 9 May 63 APPROVAL C. Sparling APPROVAL 17 May 63 APPROVAL NASA APPROVAL MIT APPROVAL 29 May 63
APPLICATION			

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
AC INPUT PNL

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	F	1014250

SCALE 1/1 WT SHEET 1 OF 1

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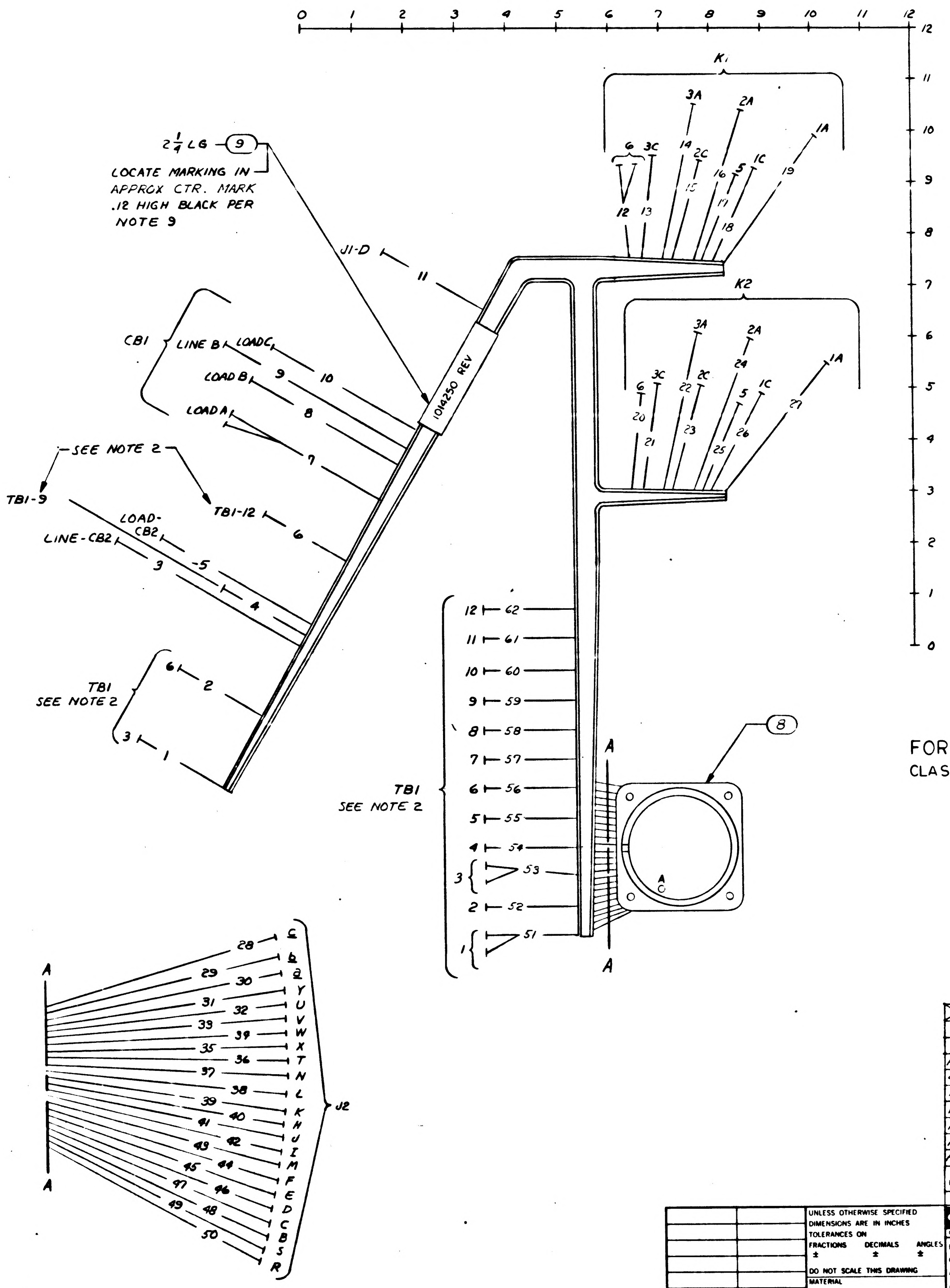
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
*	17	WHT	18	1	48	
	47				22	*
*	24				46	
	45				27	*
	44				25	*
*	26				30	
	29				23	*
*	21				28	
	43	WHT/BLK/GY	10	2	51	*
*	51				42	
	41				52	*
	40				53	*
*	53				20	*
	11				12	*
*	12				1	*
	50	WHT/BRN/GY	10	3	7	*
*	7				19	*
*	18				2	*
*	56				37	
	38				55	*
*	54				39	
*	8	WHT/RED/GY	10	4	16	*
*	15				4	*
	36				59	*
*	58				35	
	34				57	*
*	9				3	*
*	5				49	
*	10	WHT/ORN/GY	10	5	14	*
*	13				6	*
	31				62	*
*	61				33	
	32				60	*

* ATTACH 1 OF FIND 6 & 3/4 OF FIND 7



0 1 2 3 4 5 6 7 8 9 10 11 12
$2\frac{1}{4}$ LG ⑨
LOCATE MARKING IN APPROX CTR. MARK .12 HIGH BLACK PER NOTE 9
J1-D 11
1014250 REV
K1
3A 2A 1A
6 3C 14 2C 5 1C
16 19
12 13 15 17 18
K2
3A 2A 1A
6 3C 22 2C 24 5 1C
20 23 26 27
21 25
CB1
LINE B LOAD C 9 10
LOAD B 8
LOAD A 7
SEE NOTE 2
TB1-9
TB1-12 6
LOAD-CB2
LINE-CB2 3 5 4
TB1 SEE NOTE 2
6 2
3 1
12 62
11 61
10 60
9 59
8 58
7 57
6 56
5 55
4 54
3 53
2 52
1 51
TB1 SEE NOTE 2
⑧
A
A
A
A
28 c
29 30 b a
31 32 Y
33 34 U
35 36 V
37 W
38 X
39 T
40 N
41 42 L
43 44 K
45 46 H
47 48 J
49 50 I
M F E D C B S R
J2

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01385 DATE 5-29-63

NOTES

1. FOR SYMBOLS, FABRICATION & REQD TESTS SEE ND 1002032
2. IDENTIFY TEMPORARILY AS SHOWN
3. MIL-I-23503, CLASS 1, COLOR BLK, SIZE NO. 7
4. MIL-W-16878/4 E10 WHT/ORN/GY
5. MIL-W-16878/4 E10 WHT/RED/GY
6. MIL-W-16878/4 E10 WHT/BRN/GY
7. MIL-W-16878/4 E10 WHT/BLK/GY
8. MIL-I-631 TYPE F, FORM U_a, GRADE a, CLASS I, AWG 1/2
9. MARK PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1014197	SCHEMATIC	REF
AR	SEE NOTE 8	INSULATION, SLEEVING	9
1	MS3102A-36-9S	CONNECTOR	8
AR	SEE NOTE 3	INSULATION, SLEEVING	7
42	MS35430-10	LUG, TERMINAL	6
AR	SEE NOTE 4	WIRE, ELECTRICAL	5
AR	SEE NOTE 5	WIRE, ELECTRICAL	4
AR	SEE NOTE 6	WIRE, ELECTRICAL	3
AR	SEE NOTE 7	WIRE, ELECTRICAL	2
AR	MIL-W-16878/4E18 WHT	WIRE, ELECTRICAL	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014136	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE
CHECKED 9 May 63
APPROVAL
APPROVAL 12 May 63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 29 My 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
AC INPUT PNL

CODE IDENT NO —
SIZE F
NASA DRAWING NO 1014250
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE TDRR NO. 01300	5-22-63	JH
A	CHANGED PER TDRR NO. 01949 DR R7M Langdell CHK R. Perras APPD	7-26-63	

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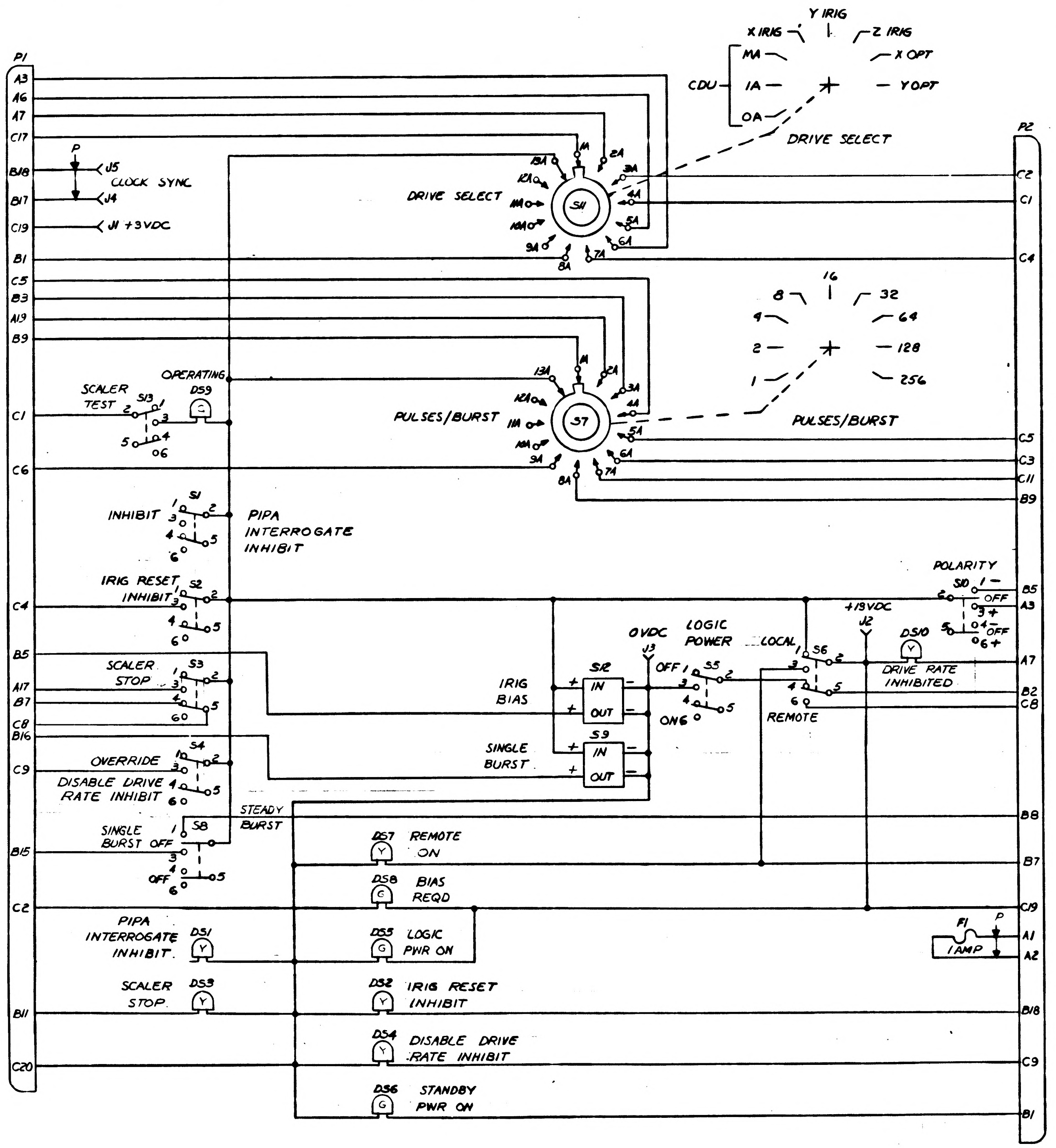
P1
A3
A6
A7
C17
B18
B17
C19
B1
C5
B3
A19
B9
C1
C6
C4
B5
A17
B7
C8
B16
C9
B15
C2
B11
C20
P
J5
J4
CLOCK SYNC
J1 +3VDC
X IRIG
Y IRIG
Z IRIG
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CDU
X OPT
Y OPT
DRIVE SELECT
S11
8
16
32
4
64
2
128
1
256
PULSES/BURST
S7
SCALER TEST
S13
OPERATING
DS9
INHIBIT
S1
PIPA INTERROGATE INHIBIT
IRIG RESET INHIBIT
S2
SCALER STOP
S3
OVERRIDE
S4
DISABLE DRIVE RATE INHIBIT
SINGLE BURST OFF
S8
STEADY BURST
IRIG BIAS
S12
IN
OUT
SINGLE BURST
S9
0 VDC
J3
LOGIC POWER
S5
OFF
ON
LOCAL
S6
REMOTE
+19VDC
J2
DS10
DRIVE RATE INHIBITED
POLARITY
S10
OFF
DS7 REMOTE ON
DS8 BIAS REQD
DS5 LOGIC PWR ON
DS2 IRIG RESET INHIBIT
DS4 DISABLE DRIVE RATE INHIBIT
DS6 STANDBY PWR ON
PIPA INTERROGATE INHIBIT DS1
SCALER STOP DS3
F1
1 AMP
P2
C2
C1
C4
C5
C3
C11
B9
B5
A3
A7
B2
C8
B8
B7
C19
A1
A2
B18
C9
B1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 01300 DATE 5/22/63

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
S7	1006953-1	SW WAFER			
S11	1006953-2	SW WAFER			
F1	MS90078-24	FUSE			
S1	ST52N	SW TGL			
S2					
S3					
S4					
S5					
S6					
S13	ST52N				
S8	ST52P				
S10	ST52P	SW TGL			
S9	1006949	SW PB			
S12	1006949	SW PB			
DS1	1006919-6	LAMP, IND			
DS2	1006919-6				
DS3	1006919-6				
DS4	1006919-6				
DS5	1006919-2				
DS6	1006919-2				
DS7	1006919-6				
DS8	1006919-2				
DS9	1006919-2				
DS10	1006919-6	LAMP, IND			

1014321

NOTES:
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX EACH WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH

REFERENCE DWG
1. MECHANICAL ASSY 1014106

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO.
DRAWN J.J. [illegible] DATE 26 APR 63
CHECKED [illegible] 4 MAY 63
APPROVAL [illegible]
APPROVAL R.E. Weaver
APPROVAL J. [illegible]
NASA APPROVAL [illegible] 5/27/63
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 5/22/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER SIMULATOR
FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO. —
SIZE F
NASA DRAWING NO 1014251
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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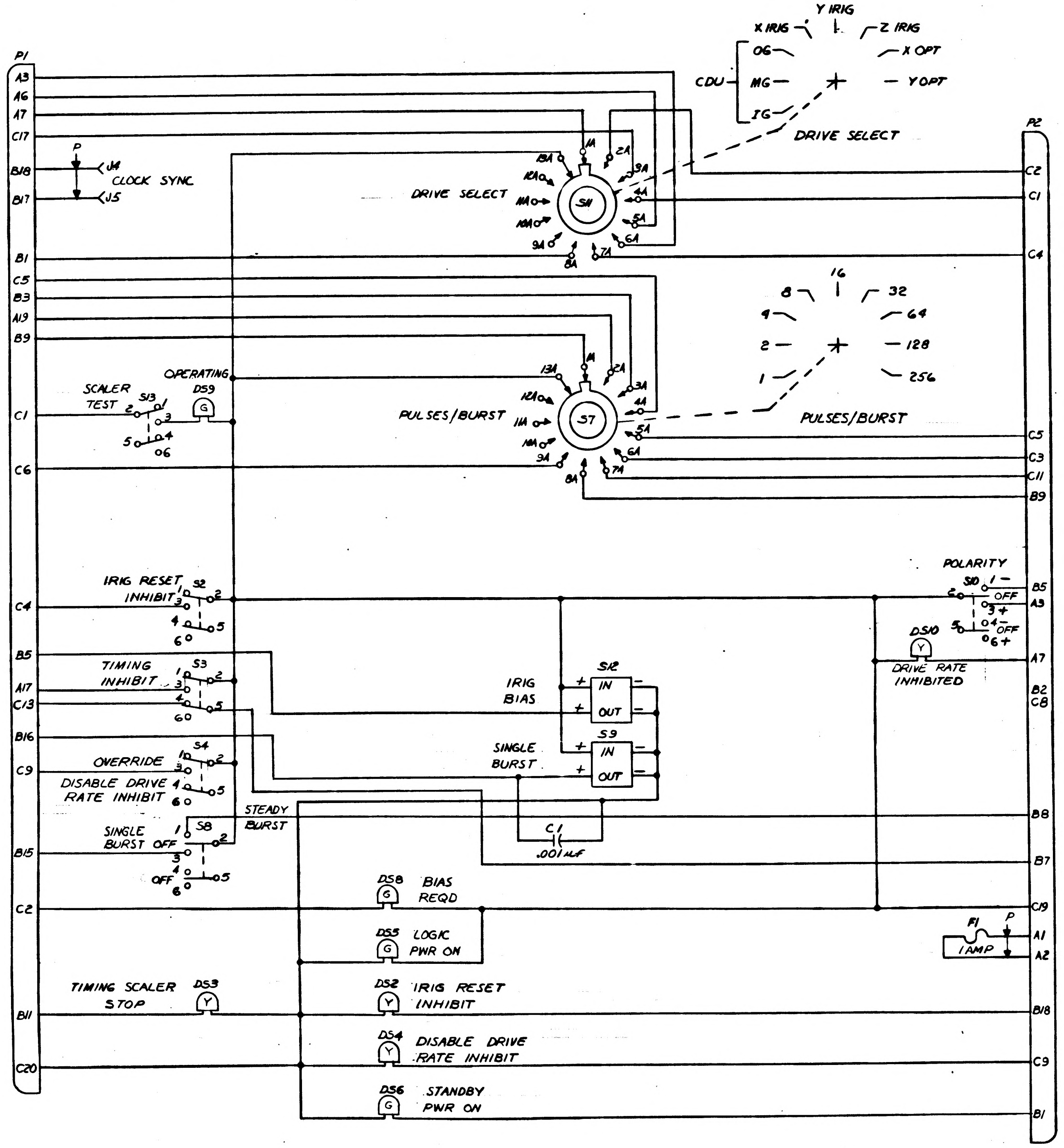
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE TDRR NO. 01300	5-22-63	JM
A	CHANGED PER TDRR NO. 01949 DR R.T.M. Langille CHK R. Pierro APPD	7-26-63	JS
B	CHANGED PER TDRR 03433 DR CHK APPD	10-30-63	WK

(M)



P1
A3
A6
A7
C17
B18
B17
B1
C5
B3
A19
B9
C1
C6
C4
B5
A17
C13
B16
C9
B15
C2
B11
C20
P
J4
J5
CLOCK SYNC
X IRIG
Y IRIG
Z IRIG
CDU
OG
MG
IG
X OPT
Y OPT
DRIVE SELECT
S11
1A
2A
3A
4A
5A
6A
7A
8A
9A
10A
11A
12A
13A
16
8
4
2
1
32
64
128
256
PULSES/BURST
S7
SCALER TEST
S13
OPERATING
DS9
G
IRIG RESET INHIBIT
S2
TIMING INHIBIT
S3
OVERRIDE
DISABLE DRIVE RATE INHIBIT
S4
SINGLE BURST OFF
S8
OFF
STEADY BURST
IRIG BIAS
S12
IN
OUT
SINGLE BURST
S9
C1
.001µf
POLARITY
S10
OFF
DS10
Y
DRIVE RATE INHIBITED
DS8
BIAS REQD
DS5
LOGIC PWR ON
TIMING SCALER STOP
DS3
DS2
IRIG RESET INHIBIT
DS4
DISABLE DRIVE RATE INHIBIT
DS6
STANDBY PWR ON
F1
1 AMP
P2
C2
C1
C4
C5
C3
C11
B9
B5
A3
A7
B2
C8
B8
B7
C19
A1
A2
B18
C9
B1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 01300 DATE 5/22/63

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
S7	1006953-1	SW WAFER			
S11	1006953-2	SW WAFER			
F1	MS90078-24	FUSE			
S1	ST52N	SW TGL			
S2					
S3					
S4					
S5					
S6					
S13	ST52N				
S8	ST52P				
S10	ST52P	SW TGL			
S9	1006949	SW PB			
S12	1006949	SW PB			
C1	CK05CW102K	CAPACITOR	.001µf	±10%	200VDC
DS1	1006919-6	LAMP, IND			
DS2	1006919-6				
DS3	1006919-6				
DS4	1006919-6				
DS5	1006919-2				
DS6	1006919-2				
DS7	1006919-6				
DS8	1006919-2				
DS9	1006919-2				
DS10	1006919-6	LAMP, IND			

NOTES:
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX EACH WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH

REFERENCE DWG
1. MECHANICAL ASSY 1014106

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO.
DRAWN J.T.McCloud DATE 26 APR 63
CHECKED A.G. Cusimano 4 MAY 63
APPROVAL
APPROVAL R.E. Warner
APPROVAL J. Pamphley
NASA APPROVAL 5/28/63
MIT APPROVAL
MIT APPROVAL 5/22/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER SIMULATOR
FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO. ——— SIZE F NASA DRAWING NO. 1014251
SCALE NONE WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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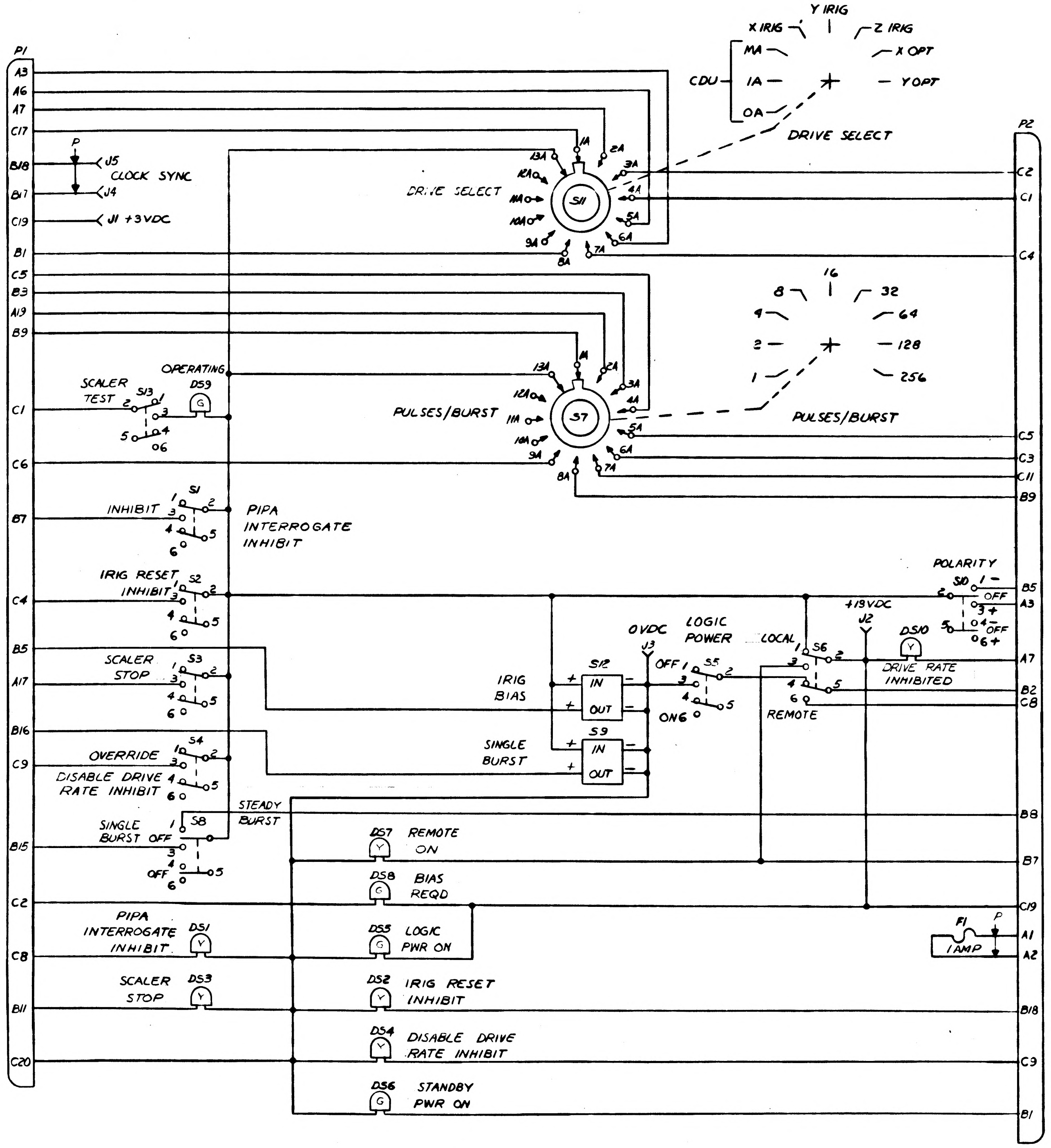
P1
A3
A6
A7
C17
B18
B17
C19
B1
C5
B3
A19
B9
C1
C6
B7
C4
B5
A17
B16
C9
B15
C2
C8
B11
C20
P
J5
CLOCK SYNC
J4
J1 +3VDC
X IRIG
Y IRIG
Z IRIG
MA
IA
OA
CDU
X OPT
Y OPT
DRIVE SELECT
S11
1A
2A
3A
4A
5A
6A
7A
8A
9A
10A
11A
12A
13A
8
16
32
4
64
2
128
1
256
PULSES/BURST
S7
OPERATING
SCALER TEST
S13
DS9
G
S1
INHIBIT
PIPA INTERROGATE INHIBIT
IRIG RESET INHIBIT
S2
SCALER STOP
S3
OVERRIDE
S4
DISABLE DRIVE RATE INHIBIT
SINGLE BURST OFF
S8
OFF
STEADY BURST
IRIG BIAS
S12
IN
OUT
SINGLE BURST
S9
0VDC
J3
LOGIC POWER
OFF
S5
ON
LOCAL
S6
REMOTE
+19VDC
J2
DS10
Y
DRIVE RATE INHIBITED
POLARITY
S10
OFF
+
−
P2
C2
C1
C4
C5
C3
C11
B9
B5
A3
A7
B2
C8
B8
B7
C19
A1
A2
B18
C9
B1
F1
1 AMP
DS7
REMOTE ON
DS8
BIAS REQD
DS5
LOGIC PWR ON
DS2
IRIG RESET INHIBIT
DS4
DISABLE DRIVE RATE INHIBIT
DS6
STANDBY PWR ON
DS1
PIPA INTERROGATE INHIBIT
DS3
SCALER STOP

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 01300 DATE 5/22/63

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
S7	1006953-1	SW WAFER			
S11	1006953-2	SW WAFER			
F1	MS90078-24	FUSE			
S1	ST52N	SW TGL			
S2					
S3					
S4					
S5					
S6					
S13	ST52N				
S8	ST52P				
S10	ST52P	SW TGL			
S9	1006949	SW PB			
S12	1006949	SW PB			
DS1	1006919-6	LAMP, IND			
DS2	1006919-6				
DS3	1006919-6				
DS4	1006919-6				
DS5	1006919-2				
DS6	1006919-2				
DS7	1006919-6				
DS8	1006919-2				
DS9	1006919-2				
DS10	1006919-6	LAMP IND			

NOTES:
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX EACH WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH

REFERENCE DWG
1. MECHANICAL ASSY 1014106

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO
DRAWN DATE 26 APR 63
CHECKED 4 MAY 63
APPROVAL
APPROVAL R.E. Warren
APPROVAL J. Pamphlet
NASA APPROVAL 5/22/63
MIT APPROVAL
MIT APPROVAL 5/22/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER SIMULATOR
FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO ———
SIZE F
NASA DRAWING NO 1014251
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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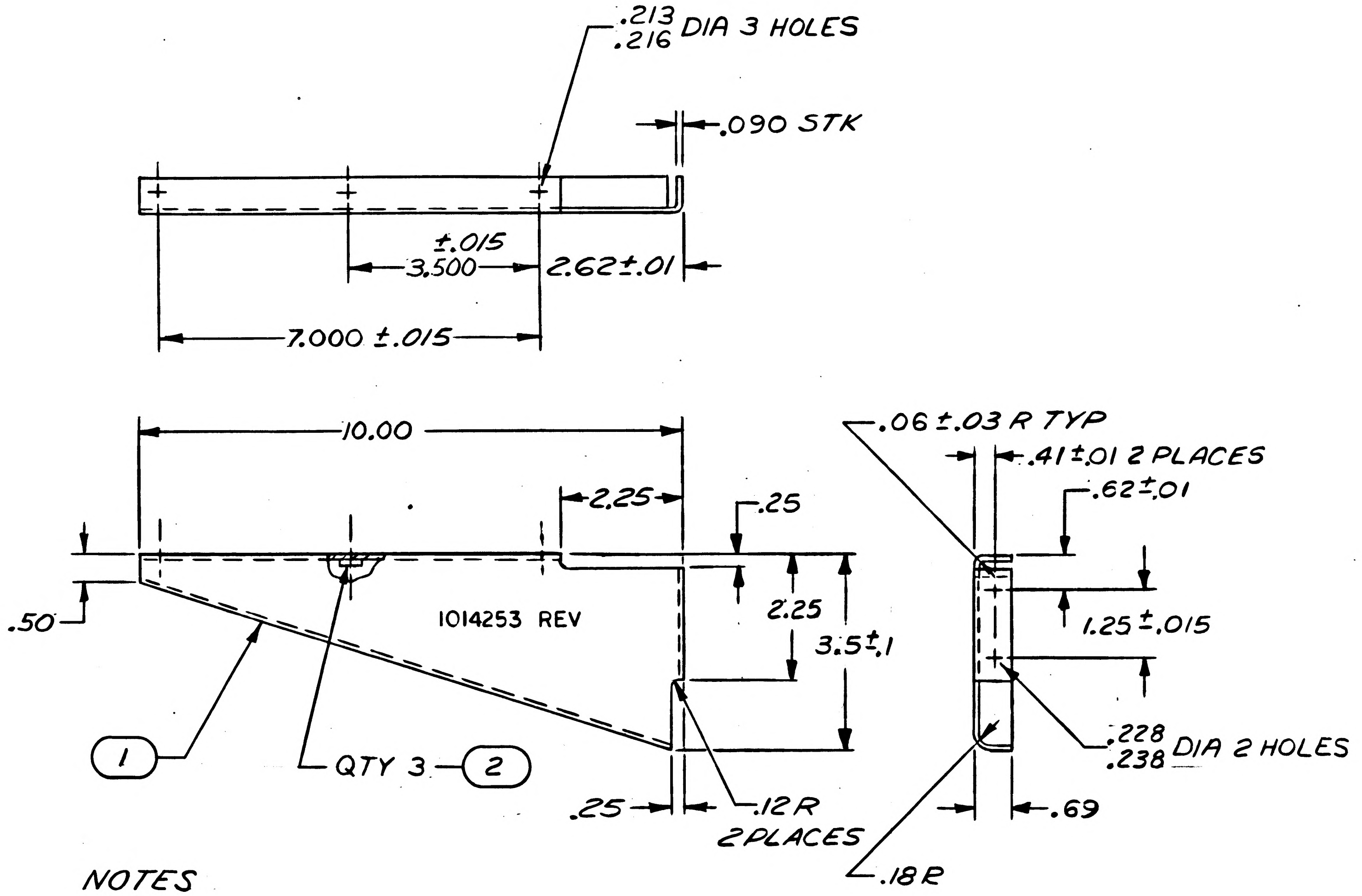
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 1601	6/19/63	L.E.Y.



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 1601 DATE 6/19/63

NOTES
①
1. MATL: 5052-H32 AL/QQ-A-318 TEMPER H32
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT/MIL-C-5541
4. MARK .12 HIGH BLACK CHARACTERS PER ND1002019 IN POSITION SHOWN

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
3	1006989-15	NUT, PLAIN, SELF-CLINCHING	2
1	1014253	BRACKET	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014295	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 .06 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN R.C. Taylor DATE 4 MAY 63
CHECKED A. Perrone 29 May 63
APPROVAL C. Sparling 10 June 63
APPROVAL 6-10-63
APPROVAL 6-14-63
NASA APPROVAL 6/19/63
MIT APPROVAL
MIT APPROVAL 6/18/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET ASSEMBLY L. H.
SYSTEM INTERFACE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014253
SCALE 1/2
WT
SHEET 1 OF 1

1014253

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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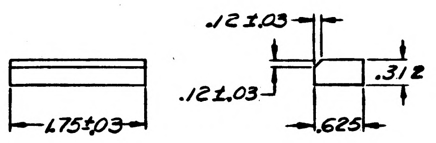
REVISIONS

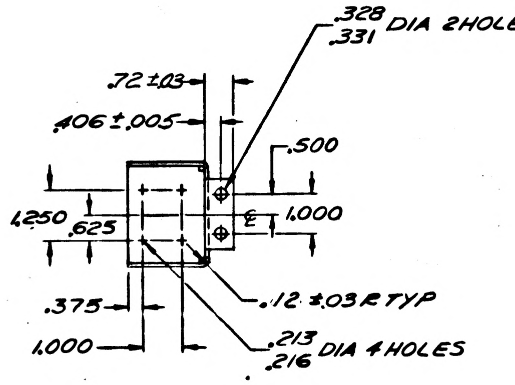
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 01857	7/2/63	
A	CHANGED PER TDRR 05806 DR G. Antonio CHK APPD	10 FEB 64	WR


.12±.03
.12±.03
.312
1.75±.03
.625

NOTES
1. MATL: 6061-T6 AL PER QQ-A-327 TEMPER T6
2. REMOVE BURRS & SHARP EDGES

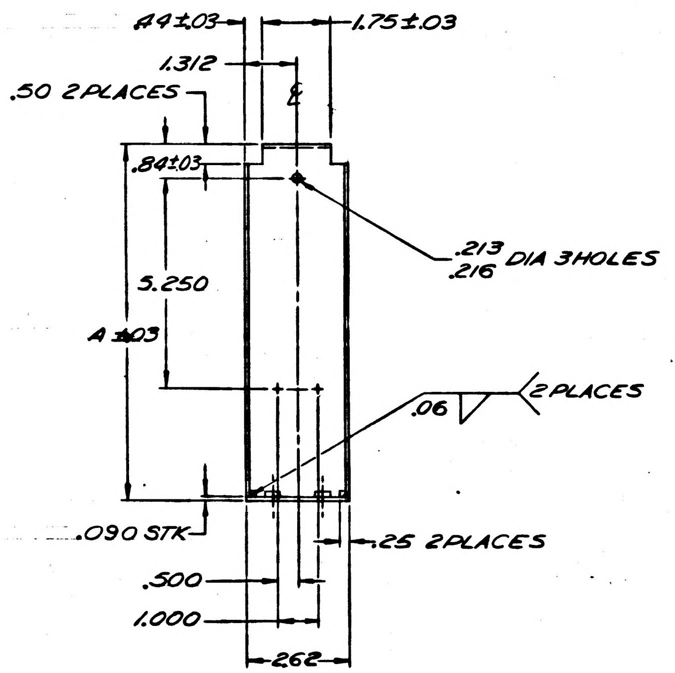
BLOCK

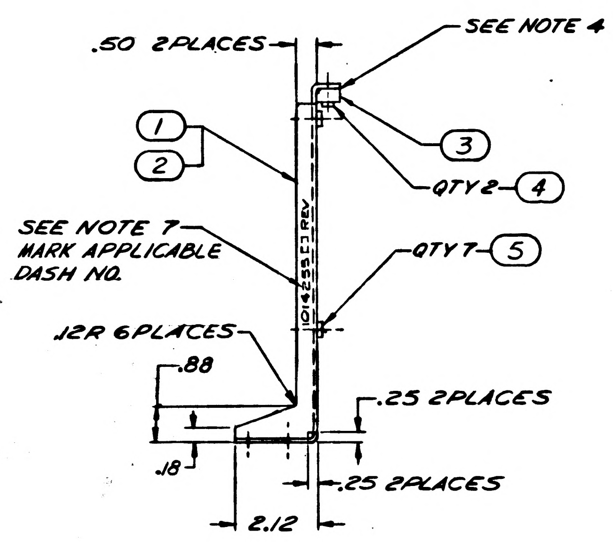
1014255-5


.328
.331 DIA 2HOLES
.72±.03
.406±.005
.500
1.250
.625
1.000
.375
1.000
.12±.03 R TYP
.213
.216 DIA 4 HOLES

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 01857 DATE 7/2/63

PART NO.	DIM. A
1014255-3	8.94
1014255-4	7.28


.44±.03
1.75±.03
1.312
.50 2PLACES
.84±.03
.213
.216 DIA 3HOLES
5.250
A ±.03
.06
2PLACES
.090 STK
.25 2PLACES
.500
1.000
.262


.50 2PLACES
SEE NOTE 4
1
2
3
QTY 2
4
SEE NOTE 7
MARK APPLICABLE
DASH NO.
1014255-[ ] REV
QTY 7
5
.12R 6PLACES
.88
.25 2PLACES
.18
.25 2PLACES
2.12

NOTES
①②
1. MATL: 6061-T6 AL PER QQ-A-318, TEMPER T6
2. REMOVE BURRS & SHAPP EDGES
3. WELD PER MIL-W-8604
4. DIP BRAZE FIND NO.3 TO FIND NO.1 PER MIL-B-23362
5. HEAT TREAT PER MIL-H-8066 TO TEMP 5
6. CHROMATE TREAT PER MIL-C-5541
7. MARK .12 HIGH BLACK PER ND1002019 IN POSITION SHOWN

REV STATUS OF PARTS

PART NO.	REV SYMBOL
1014255-3	A
1014255-4	A
1014255-5	—

MASTER

REV STATUS OF ASSY

PART NO.	REV SYM
1014255-1	A
1014255-2	A

QTY RCQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
7	7	1006989-15	NUT, PLAIN SELF-CLINCHING	5
2	2	1006999-6	NUT, PLAIN SELF-CLINCHING FLOATING	4
1	1	1014255-5	BLOCK	3
1	—	1014255-4	BRACKET	2
—	1	1014255-3	BRACKET	1
-2	-1	LIST OF MATERIALS		

1014295	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.015 ±.06 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 7/2/63
MIT APPROVAL
MIT APPROVAL 6/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET ASSEMBLY

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014255
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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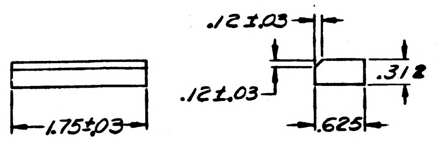
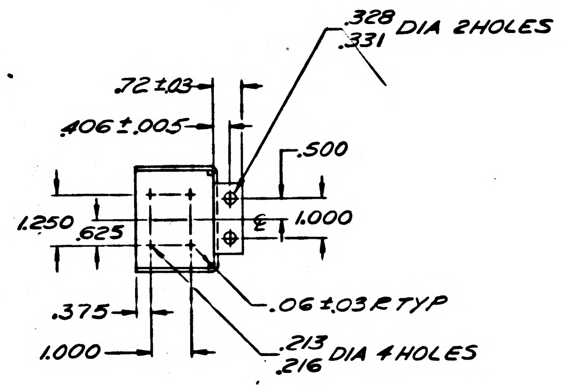
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 01857	7/2/63	

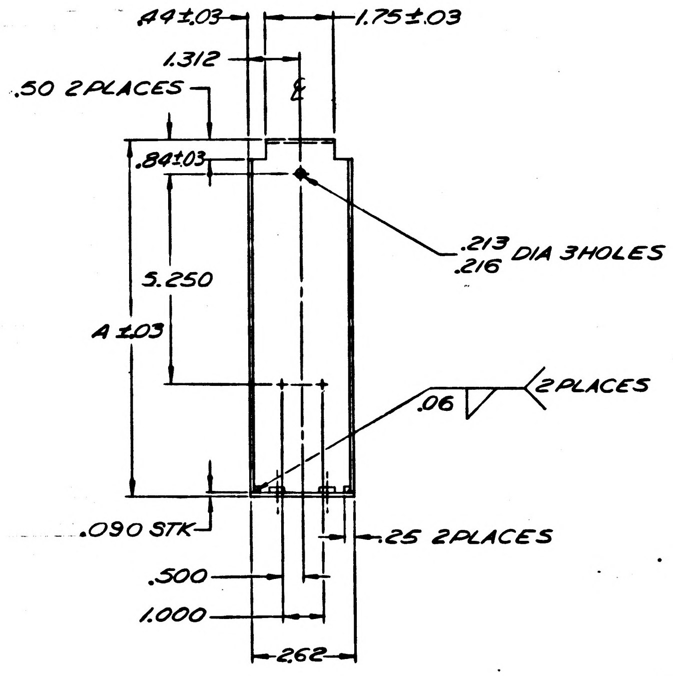

.12±.03
.12±.03
.312
1.75±.03
.625

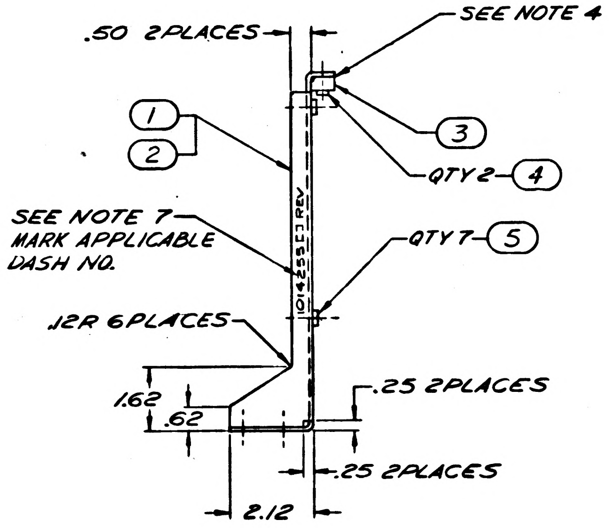
NOTES
1. MATL: 6061-T6 AL PER QQ-A-327 TEMPER T6
2. REMOVE BURRS & SHARP EDGES

BLOCK
1014255-5


.328
.331 DIA 2HOLES
.72±.03
.406±.005
.500
1.250
.625
1.000
.375
1.000
.06±.03 R TYP
.213
.216 DIA 4HOLES

PART NO.	DIM. A
1014255-3	8.94
1014255-4	7.28


.44±.03
1.75±.03
1.312
.50 2PLACES
.84±.03
5.250
A ±.03
.213
.216 DIA 3HOLES
.06
2PLACES
.090 STK
.25 2PLACES
.500
1.000
.262


.50 2PLACES
SEE NOTE 4
1
2
3
QTY 2
4
SEE NOTE 7
MARK APPLICABLE
DASH NO.
1014255-[ ] REV
QTY 7
5
.12R 6PLACES
.25 2PLACES
1.62
.62
.25 2PLACES
2.12

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 01857 DATE 7/2/63

NOTES
①②
1. MATL: 5052-H32 AL PER QQ-A-318, TEMPER H32
2. REMOVE BURRS & SHARP EDGES
3. WELD PER MIL-W-8604
4. DIP BRAZE FIND NO.3 TO FIND NO.1 PER MIL-B-23362
5. HEAT TREAT PER MIL-H-8066 TO TEMP 5
6. CHROMATE TREAT PER MIL-C-5541
7. MARK .12 HIGH BLACK PER ND1002019 IN POSITION SHOWN

REV STATUS OF PARTS	
PART NO.	REV SYMBOL
1014255-3	—
1014255-4	—
1014255-5	—

MASTER

QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
7	7	1006989-15	NUT, PLAIN SELF-CLINCHING	5
2	2	1006999-6	NUT, PLAIN SELF-CLINCHING FLOATING	4
1	1	1014255-5	BLOCK	3
1	—	1014255-4	BRACKET	2
—	1	1014255-3	BRACKET	1
-2	-1	LIST OF MATERIALS		

NEXT ASSY	USED ON
1014295	1014156
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.015 ±.06 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 15 May 63
CHECKED R. P. 29 May 63
APPROVAL
APPROVAL
APPROVAL 6-11-63
NASA APPROVAL 7/2/63
MIT APPROVAL 7/2/63
MIT APPROVAL 6/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET ASSEMBLY

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014255
SCALE 1/2 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014255

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

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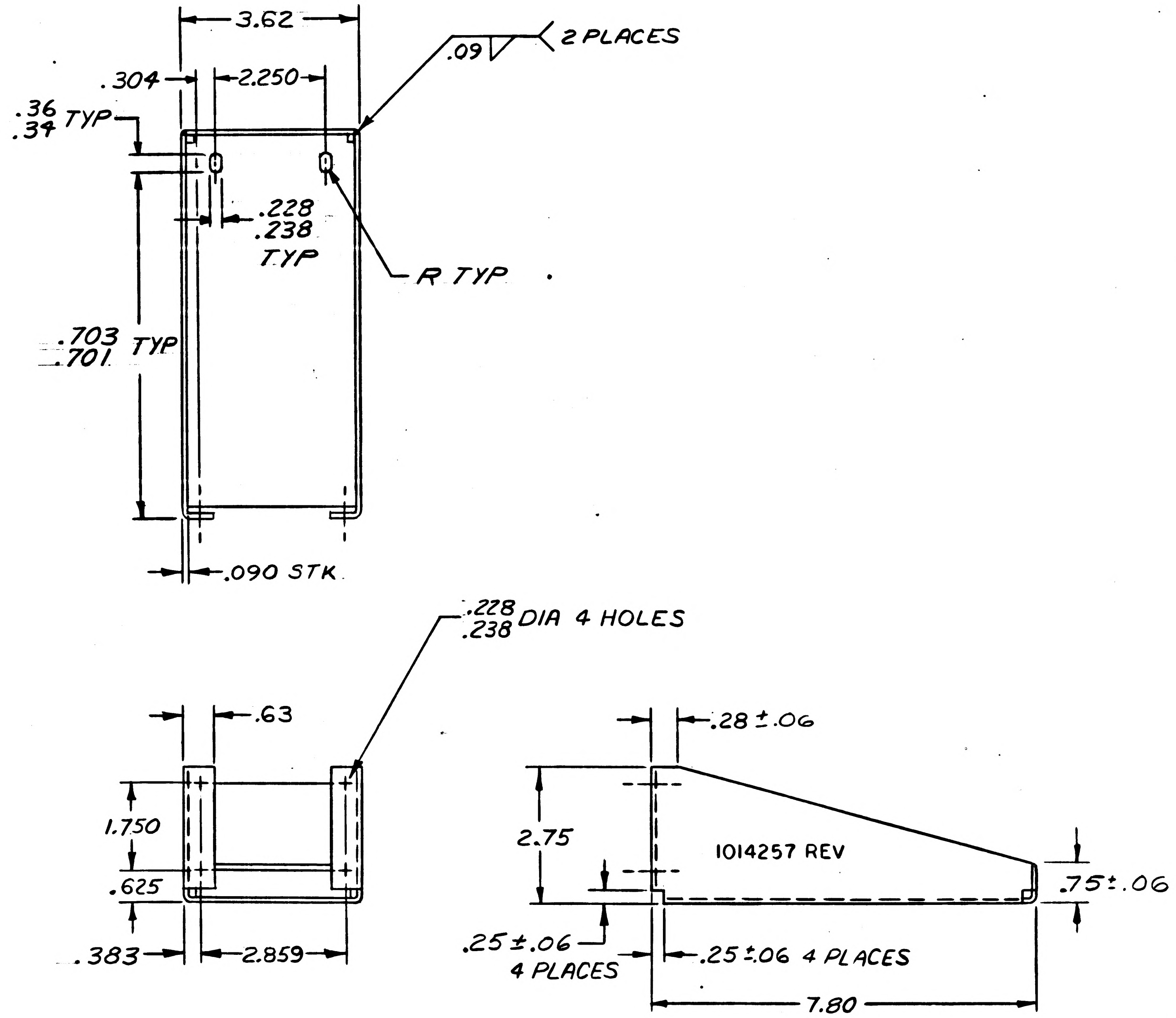
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 1601	6/19/63	L.E.L.



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 1601 DATE 6/19/63

NOTES
1. MATL: 5052-H32 AL/QQ-A-318 TEMP H32
2. ALL BEND RADII .062
3. REMOVE BURRS & SHARP EDGES
4. WELD PER MIL-W-8604
5. CHROMATE TREAT/MIL-C-5541
6. MARK .12 HIGH BLACK CHARACTERS PER ND1002019 IN POSITION SHOWN

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014180	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±.015 .03
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN R.C. Taylor DATE 3 MAY 63
CHECKED A. Perrone 31 May 63
APPROVAL 10 Jun 63
APPROVAL 6-10-63
APPROVAL 6-11-63
NASA APPROVAL 6/19/63
MIT APPROVAL L. E. Larson
MIT APPROVAL L Gediman 6/13/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

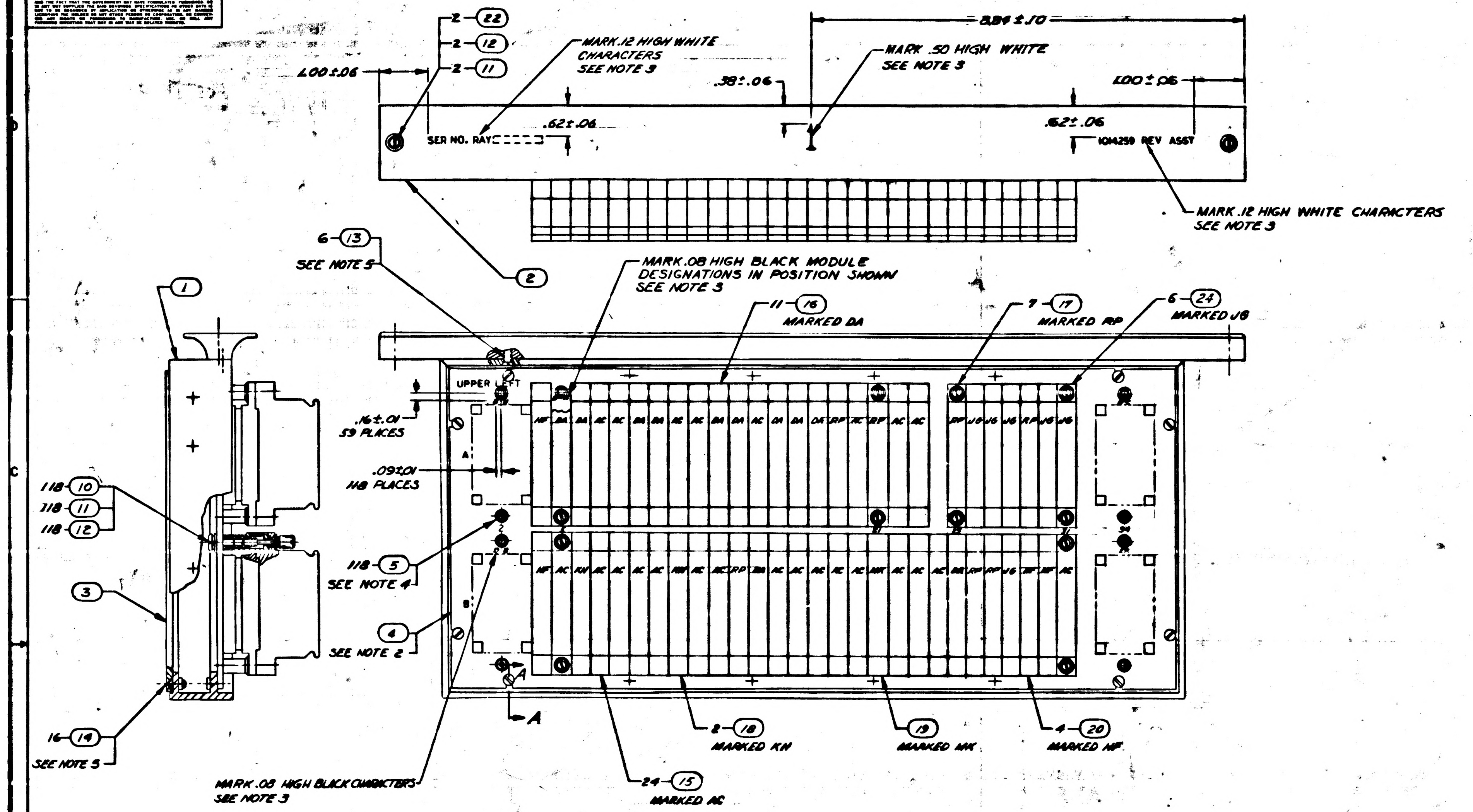
BRACKET, SWITCH
SYSTEM INTERFACE

CODE IDENT NO. ——
SIZE C
NASA DRAWING NO. 1014257
SCALE 1/2
WT
SHEET 1 OF 1

1014257

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

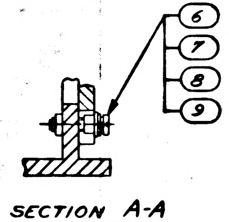
SYM	DESCRIPTION	DATE	APPROVED
REVISIONS			
—	CLASS B RELEASED PER TDRR NO. 1601		
A	CHANGED PER TDRR NO. 06896 P. Wingfield CHK APP	9 APR 64	KEO


2 (22)
2 (12)
2 (11)
1.00±.06
MARK .12 HIGH WHITE CHARACTERS SEE NOTE 3
3.84±.10
MARK .50 HIGH WHITE SEE NOTE 3
.38±.06
1.00±.06
SER NO. RAY
.62±.06
.62±.06
1014259 REV ASSY
MARK .12 HIGH WHITE CHARACTERS SEE NOTE 3
(2)
6 (13) SEE NOTE 5
MARK .08 HIGH BLACK MODULE DESIGNATIONS IN POSITION SHOWN SEE NOTE 3
11 (16) MARKED DA
7 (17) MARKED RP
6 (24) MARKED JB
(1)
UPPER LEFT
.16±.01 59 PLACES
.09±.01 118 PLACES
118 (10)
118 (11)
118 (12)
118 (5) SEE NOTE 4
(3)
(4) SEE NOTE 2
16 (14) SEE NOTE 5
A
A
2 (18) MARKED KN
(19) MARKED MK
4 (20) MARKED NF
MARK .08 HIGH BLACK CHARACTERS SEE NOTE 3
24 (15) MARKED AC

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 1601 DATE 6/19/63

NOTES

1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. WIREWRAP FIND NO. 4 USING 1014342 PER ND1002031
3. MARK PER ND1002019 & ND1002023
4. LOCATE & INSTALL FIND NO. 5 PER KEY CODE MARKING USING DWG NO. 1014047
5. ASSEMBLE FIND NO. 13 AND FIND NO. 14 TO FIND NO. 1 USING FIND NO. 23



SECTION A-A
16 PLACES
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1014390	LOGIC DIAGRAM	REF
☒	1014342	WIREWRAP MACH. CARDS	REF
☒	1014343	COMPUTER READOUT	REF
6	1014065-3	MODULE, RESISTOR	24
AR	MIL-S-40083, CL III	SEALING & RETAINING COMPOUND	23
2	1006998-1	SCREW, CAPTIVE	22
AR	ND1002107	WIRE NO. 24 AWG	21
4	1014064	MODULE, DIODE	20
1	1014096	MODULE, DRIVER	19
2	1014079	MODULE, GATED FLIP FLOP	18
7	1014065-2	MODULE, RESISTOR	17
11	1014053	MODULE, TRANSFORMER	16
24	1014034	MODULE, NOR	15
16	MS35200-14	SCREW, FLAT HD	14
6	MS35200-24	SCREW, FLAT HD	13
120	MS35338-79	WASHER, LOCK	12
120	1006997	WASHER, FLAT	11
118	MS35233-29	SCREW, PAN HD	10
16	1006986	WASHER, SHOULDERED NYLON	9
16	MS35338-78	WASHER, LOCK	8
16	MS15795-303	WASHER, FLAT	7
16	MS35233-17	SCREW, PAN HD	6
118	1014212	STAND OFF, PROGRAM	5
1	1014048-4	PLATE ASSY	4
1	1014026	COVER, CONN PLATE	3
1	1014258	SUPPORT, FRAME	2
1	1014014-2	FRAME	1

LIST OF MATERIALS

1014259

1014295	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-4
DRAWN
CHECKED 29 May 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC PLATE ASSEMBLY NO.1
SYSTEM INTERFACE PANEL

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014259
SCALE 1/1
WT
SHEET 1 OF 1

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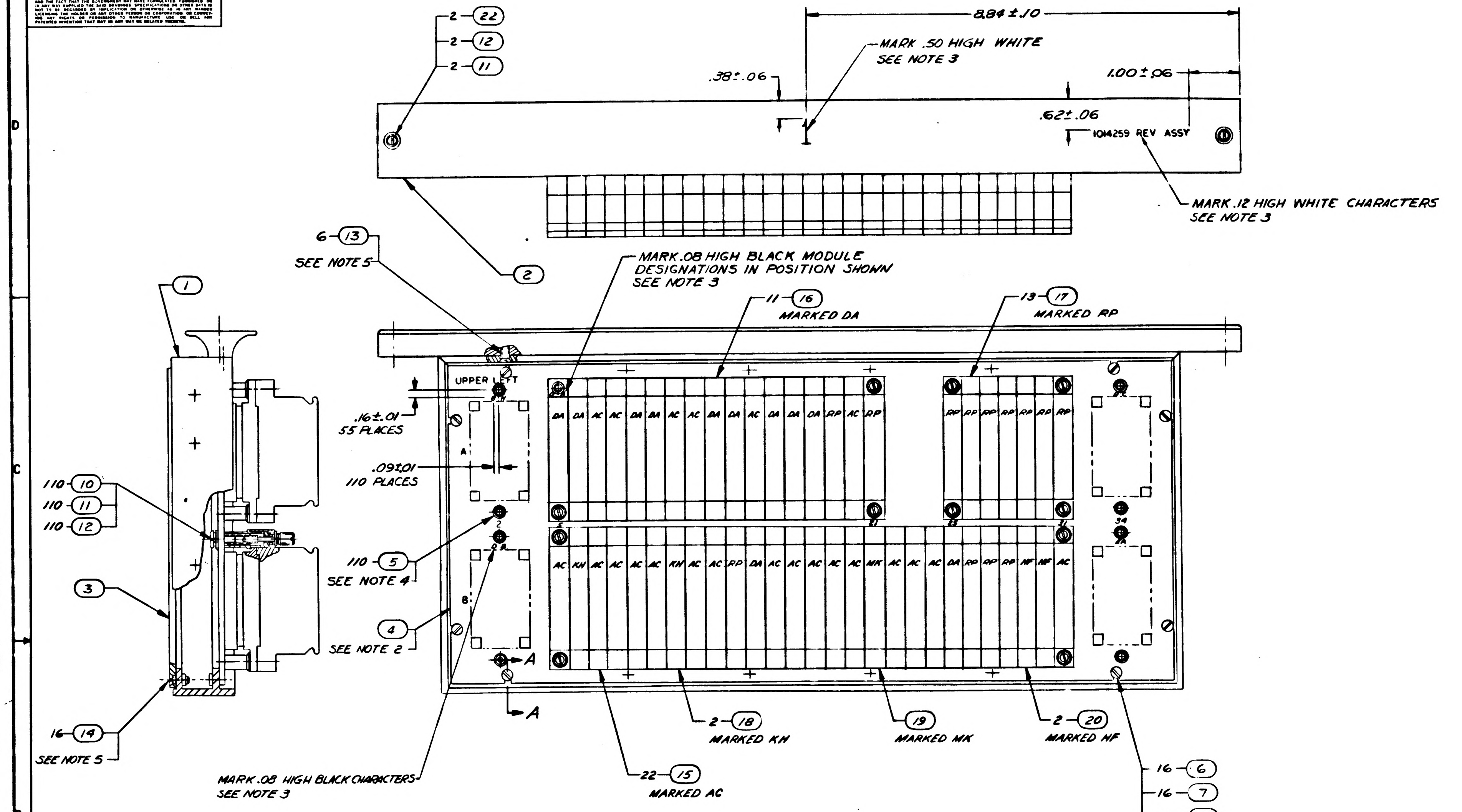
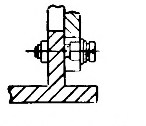
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 1601		


2-(22)
2-(12)
2-(11)
8.84±.10
MARK .50 HIGH WHITE
SEE NOTE 3
.38±.06
1.00±.06
.62±.06
1014259 REV ASSY
MARK .12 HIGH WHITE CHARACTERS
SEE NOTE 3
(2)
6-(13)
SEE NOTE 5
MARK .08 HIGH BLACK MODULE DESIGNATIONS IN POSITION SHOWN
SEE NOTE 3
11-(16)
MARKED DA
13-(17)
MARKED RP
(1)
UPPER LEFT
.16±.01
55 PLACES
.09±.01
110 PLACES
A
B
DA DA AC AC DA DA AC AC DA DA AC DA DA DA RP AC RP
RP RP RP RP RP RP RP
AC KH AC AC AC AC KH AC AC RP DA AC AC AC AC AC MK AC AC AC DA RP RP RP HF HF AC
110-(10)
110-(11)
110-(12)
110-(5)
SEE NOTE 4
(3)
(4)
SEE NOTE 2
16-(14)
SEE NOTE 5
A
A
MARK .08 HIGH BLACK CHARACTERS
SEE NOTE 3
22-(15)
MARKED AC
2-(18)
MARKED KH
(19)
MARKED MK
2-(20)
MARKED HF
16-(6)
16-(7)
16-(8)
16-(9)

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 1601 DATE 6/19/63

NOTES
1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. WIREWRAP FIND NO. 4 USING 1014342 PER ND1002031
3. MARK PER ND1002019
4. LOCATE & INSTALL FIND NO. 5 PER KEY CODE MARKING USING DWG NO. 1014047
5. ASSEMBLE FIND NO. 13 AND FIND NO. 14 TO FIND NO. 1 USING FIND NO. 23



SECTION A-A
16 PLACES
SCALE 2/1

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1014195	SCHEMATIC	REF
☒	1014342	WIREWRAP MACH. CARDS	REF
☒	1014343	COMPUTER READOUT	REF
AR	MIL-S-40083, CL3I	SEALING & RETAINING COMPOUND	23
2	1006998-1	SCREW, CAPTIVE	22
AR	ND1002107	WIRE NO. 24 AWG	21
2	1014064	MODULE, DIODE	20
1	1014096	MODULE, DRIVER	19
2	1014079	MODULE, GATED FLIP FLOP	18
13	1014065-2	MODULE, RESISTOR	17
11	1014053	MODULE, TRANSFORMER	16
22	1014034	MODULE, NOR	15
16	MS35200-19	SCREW, FLAT HD	14
6	MS35200-24	SCREW, FLAT HD	13
112	MS35338-79	WASHER, LOCK	12
112	1006997	WASHER, FLAT	11
110	MS35233-29	SCREW, PAN HD	10
16	1006986	WASHER, SHOULDERED, NYLON	9
16	MS35338-78	WASHER, LOCK	8
16	MS15795-303	WASHER, FLAT	7
16	MS35233-17	SCREW, PAN HD	6
110	1014212	STAND OFF, PROGRAM	5
1	1014048-1	PLATE ASSY	4
1	1014026	COVER, CONN PLATE	3
1	1014258	SUPPORT, FRAME	2
1	1014014-2	FRAME	1

1014144	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R.C. Snyder DATE 3 MAY 63
CHECKED A. Pierce 29 May 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC PLATE ASSEMBLY NO.1
SYSTEM INTERFACE PANEL

CODE IDENT NO —
SIZE F
NASA DRAWING NO 1014259
SCALE 1/1
WT
SHEET 1 OF 1

1014259

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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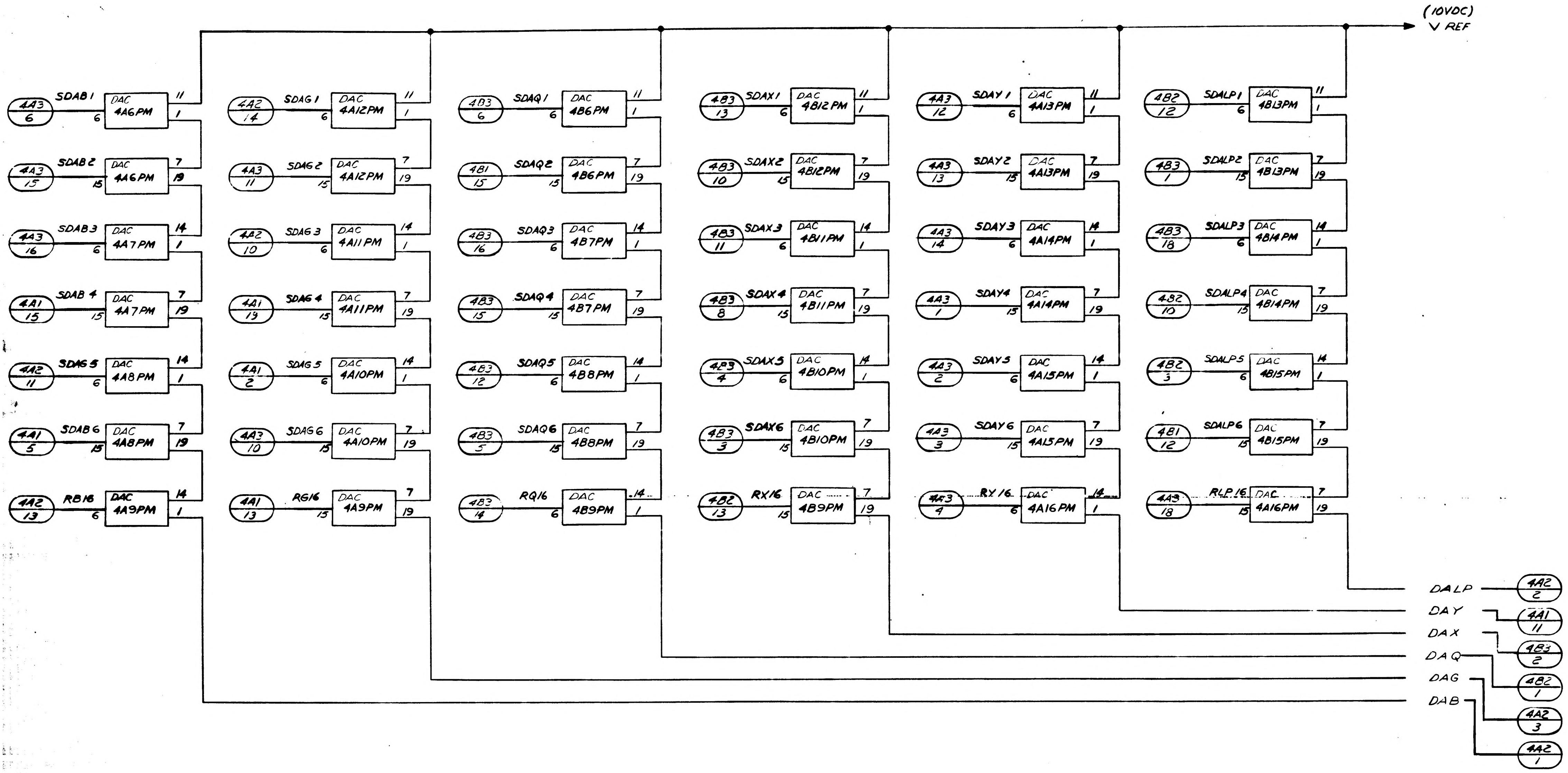
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		


(10VDC)
V REF
4A3/6 SDAB1 6 DAC 4A6PM 11 1
4A3/15 SDAB2 15 DAC 4A6PM 7 19
4A3/16 SDAB3 6 DAC 4A7PM 14 1
4A1/15 SDAB4 15 DAC 4A7PM 7 19
4A2/11 SDAB5 6 DAC 4A8PM 14 1
4A1/5 SDAB6 15 DAC 4A8PM 7 19
4A2/13 RB16 6 DAC 4A9PM 14 1
4A2/14 SDAG1 6 DAC 4A12PM 11 1
4A3/11 SDAG2 15 DAC 4A12PM 7 19
4A2/10 SDAG3 6 DAC 4A11PM 14 1
4A1/13 SDAG4 15 DAC 4A11PM 7 19
4A1/2 SDAG5 6 DAC 4A10PM 14 1
4A3/10 SDAG6 15 DAC 4A10PM 7 19
4A1/13 RG16 15 DAC 4A9PM 7 19
4B3/6 SDAQ1 6 DAC 4B6PM 11 1
4B1/15 SDAQ2 15 DAC 4B6PM 7 19
4B3/16 SDAQ3 6 DAC 4B7PM 14 1
4B3/15 SDAQ4 15 DAC 4B7PM 7 19
4B3/12 SDAQ5 6 DAC 4B8PM 14 1
4B3/5 SDAQ6 15 DAC 4B8PM 7 19
4B3/14 RQ16 6 DAC 4B9PM 14 1
4B3/13 SDAX1 6 DAC 4B12PM 11 1
4B3/10 SDAX2 15 DAC 4B12PM 7 19
4B3/11 SDAX3 6 DAC 4B11PM 14 1
4B3/8 SDAX4 15 DAC 4B11PM 7 19
4B3/4 SDAX5 6 DAC 4B10PM 14 1
4B3/3 SDAX6 15 DAC 4B10PM 7 19
4B2/13 RX16 15 DAC 4B9PM 7 19
4A3/12 SDAY1 6 DAC 4A13PM 11 1
4A3/13 SDAY2 15 DAC 4A13PM 7 19
4A3/14 SDAY3 6 DAC 4A14PM 14 1
4A3/1 SDAY4 15 DAC 4A14PM 7 19
4A3/2 SDAY5 6 DAC 4A15PM 14 1
4A3/3 SDAY6 15 DAC 4A15PM 7 19
4A3/4 RY16 6 DAC 4A16PM 14 1
4B2/12 SDALP1 6 DAC 4B13PM 11 1
4B3/1 SDALP2 15 DAC 4B13PM 7 19
4B3/18 SDALP3 6 DAC 4B14PM 14 1
4B2/10 SDALP4 15 DAC 4B14PM 7 19
4B2/3 SDALP5 6 DAC 4B15PM 14 1
4B1/12 SDALP6 15 DAC 4B15PM 7 19
4A3/18 RLP16 15 DAC 4A16PM 7 19
DALP 4A2/2
DAY 4A1/11
DAX 4B3/2
DAQ 4B2/1
DAG 4A2/3
DAB 4A2/1

FOR INFORMATION ONLY

CLASS B RELEASE PER TDRR NO. 01938 DATE 10 July 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN A.G.Cumming DATE 3 MAY 63
CHECKED 6-12-3
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 7/9/63
MIT APPROVAL

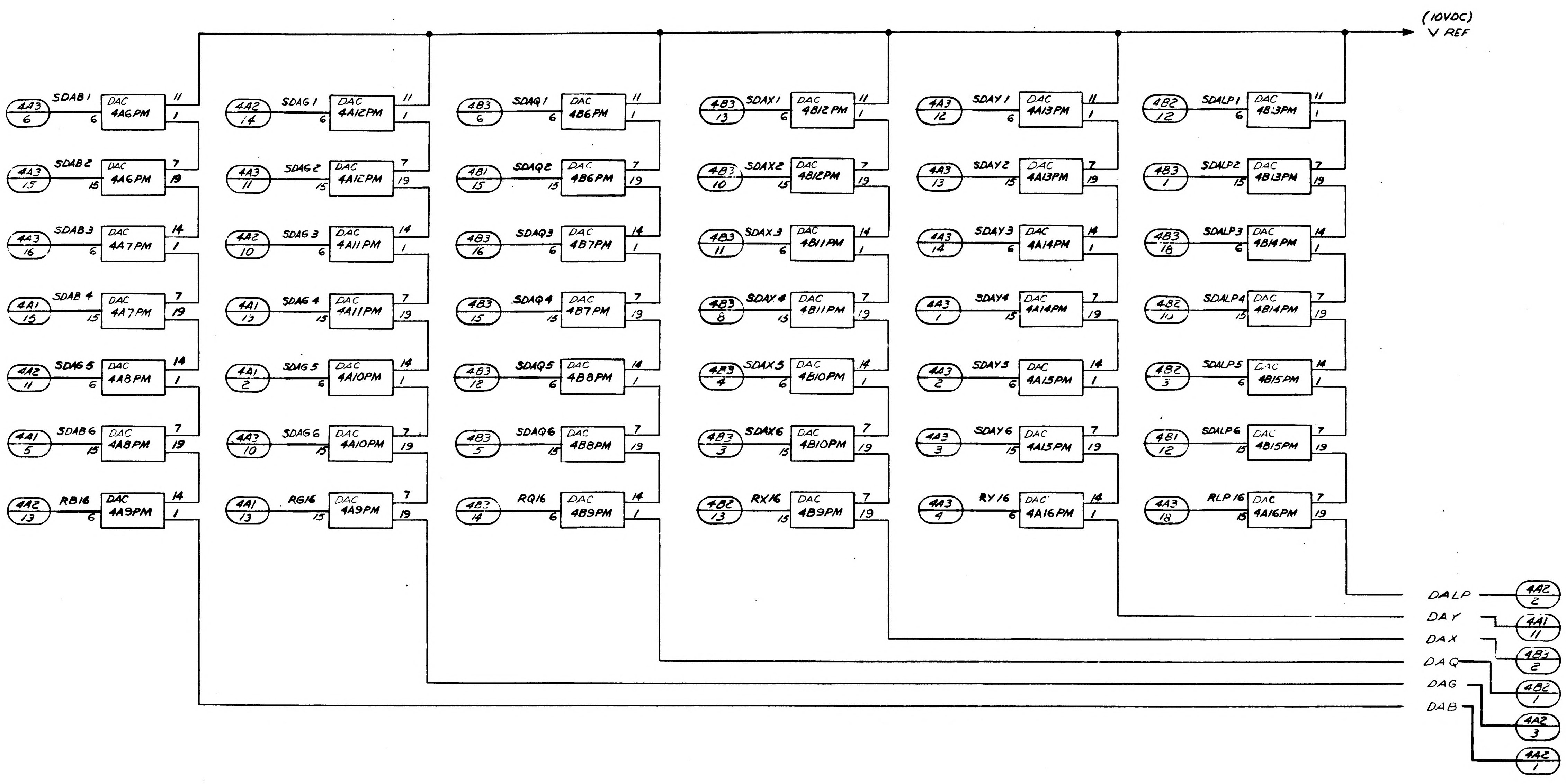
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM COMPUTER TEST SET (D/A CONVERTER) LD 2

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014260
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

SYM	DESCRIPTION	DATE
–	CL B RELEASED PER TDRR	



(10VDC)
V REF
4A3 6 – SDAB1 – DAC 4A6PM
4A3 15 – SDAB2 – DAC 4A6PM
4A3 16 – SDAB3 – DAC 4A7PM
4A1 15 – SDAB 4 – DAC 4A7PM
4A2 11 – SDAB5 – DAC 4A8PM
4A1 5 – SDAB6 – DAC 4A8PM
4A2 13 – RB16 – DAC 4A9PM
4A2 14 – SDAG1 – DAC 4A12PM
4A3 11 – SDAG2 – DAC 4A12PM
4A2 10 – SDAG3 – DAC 4A11PM
4A1 13 – SDAG4 – DAC 4A11PM
4A1 2 – SDAG5 – DAC 4A10PM
4A3 10 – SDAG6 – DAC 4A10PM
4A1 13 – RG16 – DAC 4A9PM
4B3 6 – SDAQ1 – DAC 4B6PM
4B1 15 – SDAQ2 – DAC 4B6PM
4B3 16 – SDAQ3 – DAC 4B7PM
4B3 15 – SDAQ4 – DAC 4B7PM
4B3 12 – SDAQ5 – DAC 4B8PM
4B3 5 – SDAQ6 – DAC 4B8PM
4B3 14 – RQ16 – DAC 4B9PM
4B3 13 – SDAX1 – DAC 4B12PM
4B3 10 – SDAX2 – DAC 4B12PM
4B3 11 – SDAX3 – DAC 4B11PM
4B3 8 – SDAY4 – DAC 4B11PM
4B3 4 – SDAX5 – DAC 4B10PM
4B3 3 – SDAX6 – DAC 4B10PM
4B2 13 – RX16 – DAC 4B9PM
4A3 12 – SDAY1 – DAC 4A13PM
4A3 13 – SDAY2 – DAC 4A13PM
4A3 14 – SDAY3 – DAC 4A14PM
4A3 1 – SDAY4 – DAC 4A14PM
4A3 2 – SDAY5 – DAC 4A15PM
4A3 3 – SDAY6 – DAC 4A15PM
4A3 4 – RY16 – DAC 4A16PM
4B2 12 – SDALP1 – DAC 4B13PM
4B3 1 – SDALP2 – DAC 4B13PM
4B3 18 – SDALP3 – DAC 4B14PM
4B2 10 – SDALP4 – DAC 4B14PM
4B2 3 – SDALP5 – DAC 4B15PM
4B1 12 – SDALP6 – DAC 4B15PM
4A3 18 – RLP16 – DAC 4A16PM
6, 15, 11, 1, 7, 19, 14
DALP – 4A2 2
DAY – 4A1 11
DAX – 4B3 2
DAQ – 4B2 1
DAG – 4A2 3
DAB – 4A2 1

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01928 DATE 10 Jul 6

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

QTY REQD | PART OR IDENTIFYING NO | NOMENCLATURE OR DESCRIPTION
LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO. NAS-9-498
DRAWN DATE 3 May
CHECKED 6-12-3
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST S
(D/A CONVERTER)

CODE IDENT NO —
SIZE J
NASA DRAWING NO 101426O
SCALE NONE
WT
SHEET

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014260

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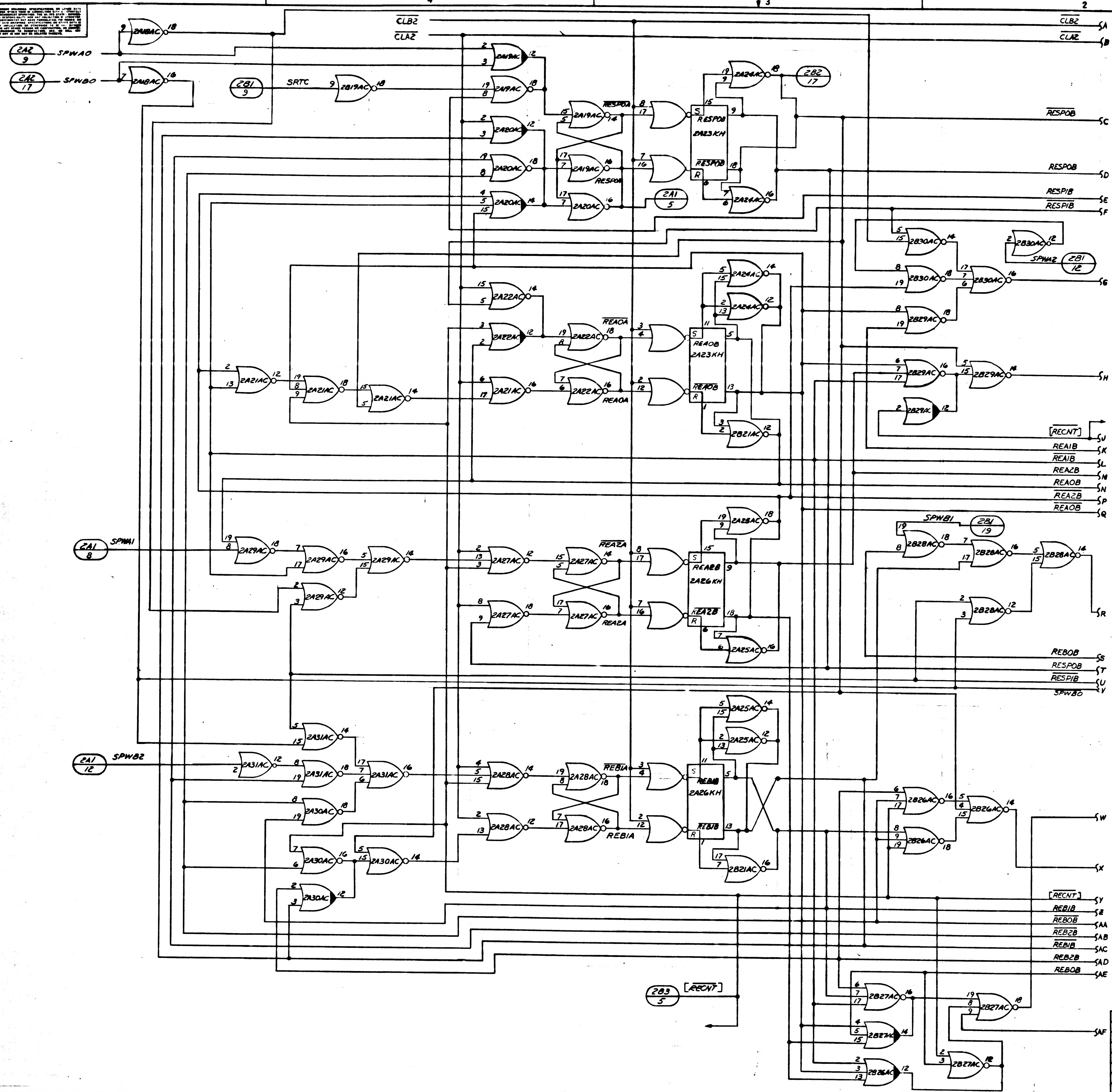
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASEDPER TDRR		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CLA2
2A2 9 SPWA0
2A2 17 SPWB0
2A18AC
2B1 9 SRTC 2B19AC
2A19AC
2A20AC
RESP0A
RESP0B
2A23KH
2A24AC
2B2 17
2A1 5
RESP0B C
RESP0B D
RESP1B E
RESP1B F
2B30AC
SPWA2 2B1 12
G
2A22AC
REA0A
REA0B
2A21AC
2A24AC
2B29AC
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H
RECNT J
REA1B K
REA1B L
REA2B M
REA0B N
REA2B P
REA0B Q
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2A29AC
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REA2A
REA2B
2A26KH
2A28AC
2A25AC
SPWB1 2B1 19
2B28AC
R
REB0B S
RESP0B T
RESP1B U
SPWB0 V
2A1 12 SPWB2
2A31AC
2A30AC
2A28AC
REB1A
REB1B
2A25AC
2B21AC
2B26AC
W
X
RECNT Y
REB1B Z
REB0B AA
REB2B AB
REB1B AC
REB2B AD
REB0B AE
2B3 5 RECNT
2B27AC
AF
5 4 3 2 1
D C B A

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01938 DATE 10 July 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN J. J. McDonald DATE 3 Apr 63
CHECKED 6-12-3
APPROVAL C. Sparling
APPROVAL 8/2/63
APPROVAL
NASA APPROVAL
MIT APPROVAL 7/10/63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RECORD COUNTER) LD2

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014261
SCALE NONE WT SHEET 1 OF 2

1014261

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
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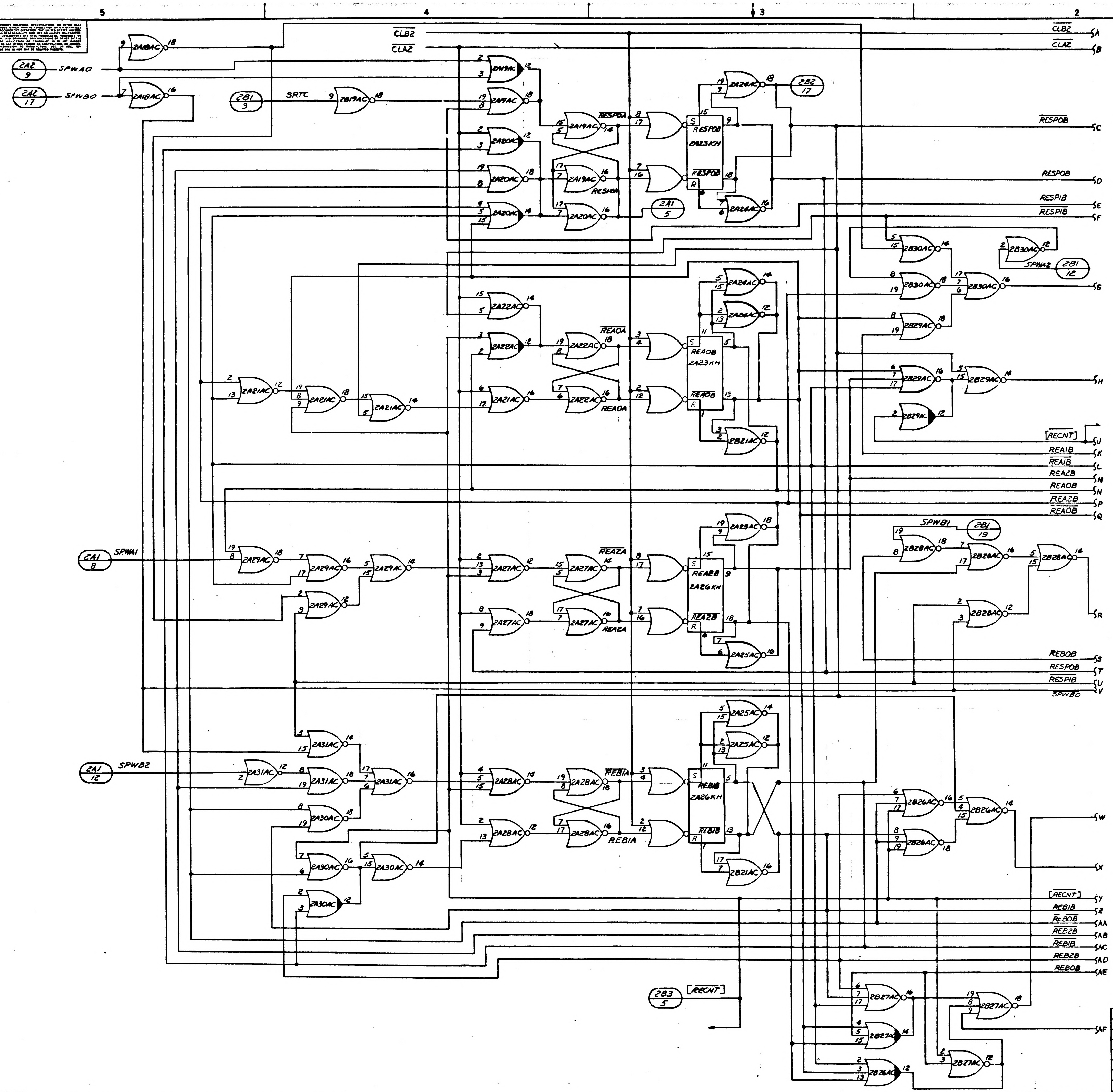
1014261

SYM	REVISIONS DESCRIPTION
	CL B RELEASEL PER TDRR



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SPWAO
2A2 / 17
SPWBO
2A18AC
2B1 / 9
SRTC
2B19AC
CLB2
CLA2
2A19AC
2A20AC
RESPOA
RESPOB
2A23KH
2A24AC
2B2 / 17
2A1 / 5
2A22AC
2A21AC
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REAOB
2A23KH
2B21AC
2A29AC
2A1 / 8
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REA2A
REA2B
2A26KH
2A25AC
2A31AC
2A30AC
2A1 / 12
SPWB2
2A28AC
REBIA
REBIB
2A26KH
2B21AC
2B30AC
2B1 / 12
SPWA2
2B29AC
2B28AC
SPWB1
2B1 / 19
2B26AC
2B27AC
2B3 / 5
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CLA2 B
RESPOB C
RESPOB D
RESPIB E
RESPIB F
G
H
[RECNT] J
REAIB K
REAIB L
REA2B M
REAOB N
REA2B P
REAOB Q
R
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RESPOB T
RESPIB U
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W
X
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REBIB Z
REBOB AA
REB2B AB
REBIB AC
REB2B AD
REBOB AE
AF

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01938 DATE

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATU DESCRIPT

LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN J. F. McKinnell DATE
CHECKED 6-12-3
APPROVAL C. Sparling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECR
HOUSTON, T

LOGIC DIA
COMPUTER
(RECORD CO

CODE IDENT NO
SIZE J
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SCALE NONE
WT

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INCHES
PHOTOGRAPHIC SCALE ONLY

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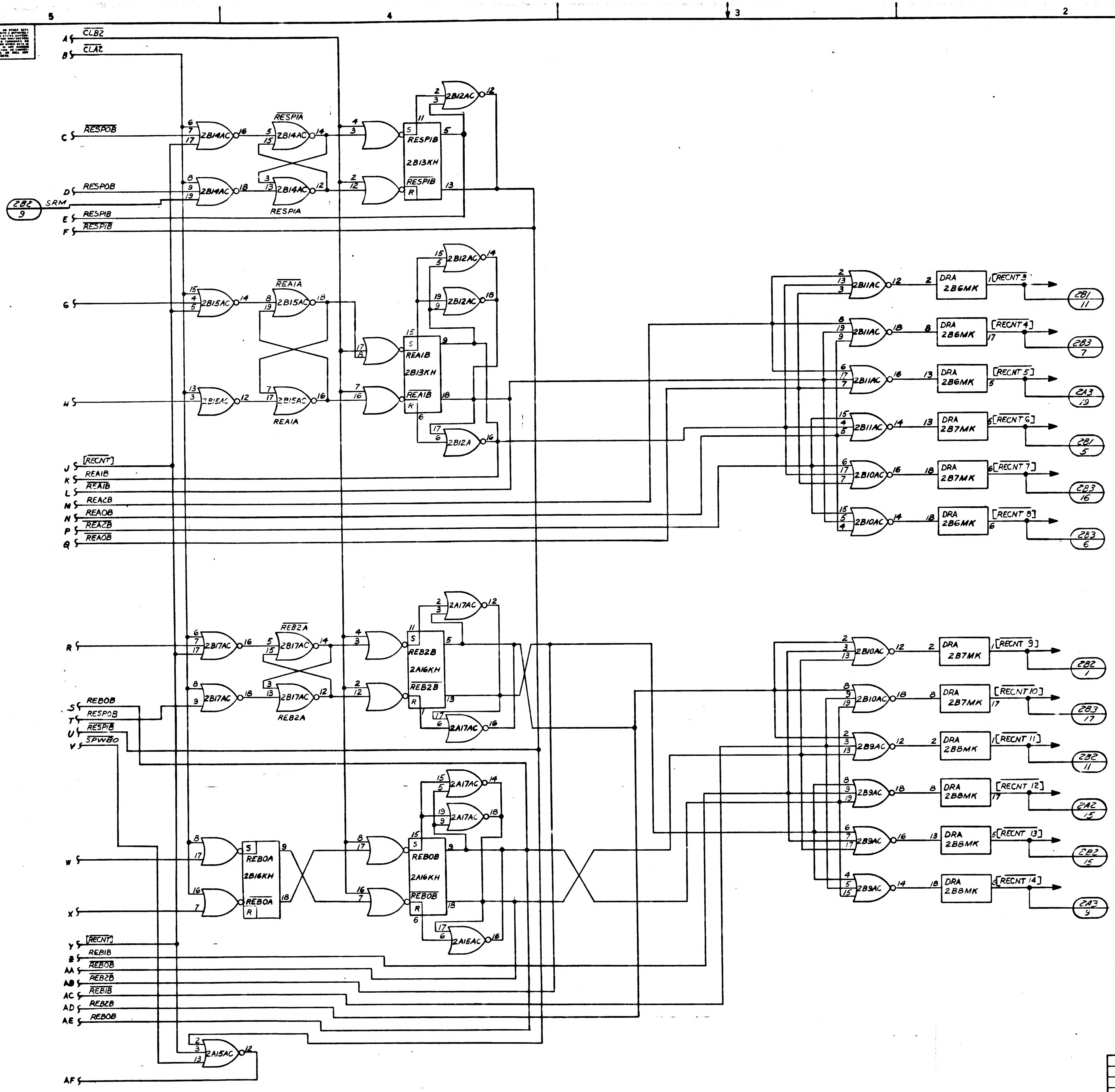
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASED PER TDRR		



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B CLA2
C RESPOB
D RESPOB
2B2 9 SRM
E RESPIB
F RESPIB
2B14AC
RESPIA
RESPIB
2B13KH
2B12AC
G
H
REAIA
2B15AC
REAIB
2B12A
J RECNT
K REAIB
L REAIB
M REACB
N REAOB
P REAZB
Q REAOB
2B11AC
2B10AC
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DRA 2B7MK
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RECNT 4
RECNT 5
RECNT 6
RECNT 7
RECNT 8
2B1 11
2B3 7
2A3 19
2B1 5
2B3 16
2B3 6
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S REBOB
T RESPOB
U RESPIB
V SPW8O
REB2A
2B17AC
REB2B
2A16KH
2A17AC
W
X
REBOA
2B16KH
REBOB
2A15AC
Y RECNT
Z REBIB
AA REBOB
AB REB2B
AC REBIB
AD REB2B
AE REBOB
AF
2B9AC
DRA 2B8MK
RECNT 9
RECNT 10
RECNT 11
RECNT 12
RECNT 13
RECNT 14
2B2 1
2B3 17
2B2 11
2A2 15
2B2 15
2A3 9

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01938 DATE 10 July 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE 3 MAY 63
CHECKED 6-12-63
APPROVAL C. Sperling
APPROVAL
APPROVAL
NASA APPROVAL Jack Barnard
MIT APPROVAL M. D. Trageser
MIT APPROVAL 3 Jul 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RECORD COUNTER) LD2

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014261
SCALE NONE
WT
SHEET 2 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014261

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PHOTOGRAPHIC SCALE ONLY

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1014261

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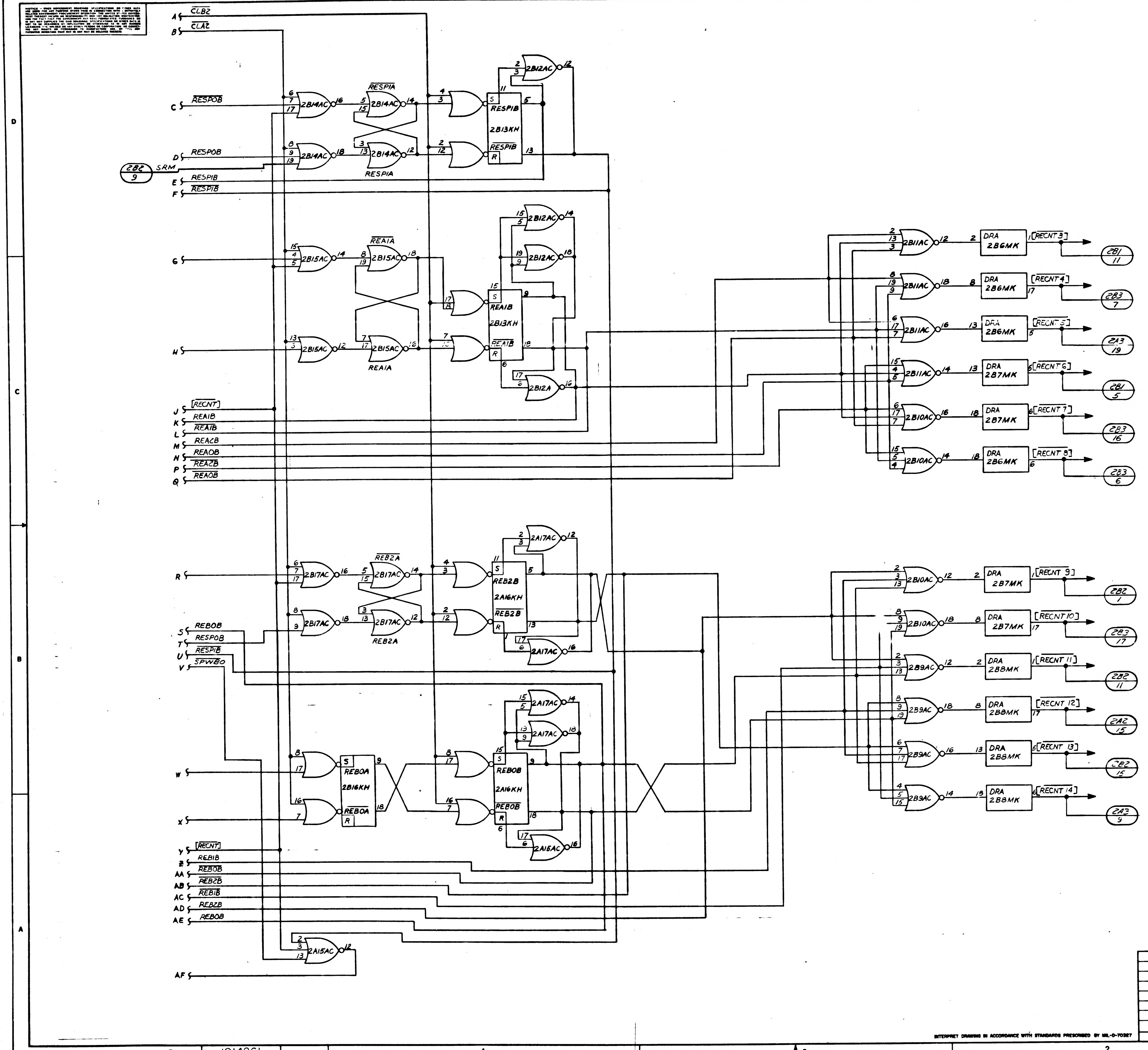
REVISIONS

SYM	DESCRIPTION
	CL B RELEASED PER TDRR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4
3
2
1
D
C
B
A
A CLB2
B CLA2
C RESP0B
D RESP0B
2B2 9 SRM
E RESP1B
F RESP1B
G
H
J [RECNT]
K REA1B
L REA1B
M REAC8
N REA0B
P REA2B
Q REA0B
R
S REB0B
T RESP0B
U RESP1B
V SPWB0
W
X
Y [RECNT]
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AB REB2B
AC REB1B
AD REB2B
AE REB0B
AF
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RESP1A
RESP1A
2B12AC
RESP1B
2B13KH
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REB2A
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REB0B
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2B9AC
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DRA 2B7MK
DRA 2B8MK
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[RECNT 8]
[RECNT 9]
[RECNT 10]
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[RECNT 13]
[RECNT 14]
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2B3 7
2A3 19
2B1 5
2B3 16
2B3 6
2B2 1
2B3 17
2B2 11
2A2 15
2B2 15
2A3 9

FOR INFORMATION O

CLASS B RELEASE PER TDRR

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LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
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FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE 3 MAY 63
CHECKED 6-12-3
APPROVAL C Sperling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPA
HOUS

LOG
COMPUT
(REC

CODE IDENT NO
SIZE J
SCALE NONE
WT

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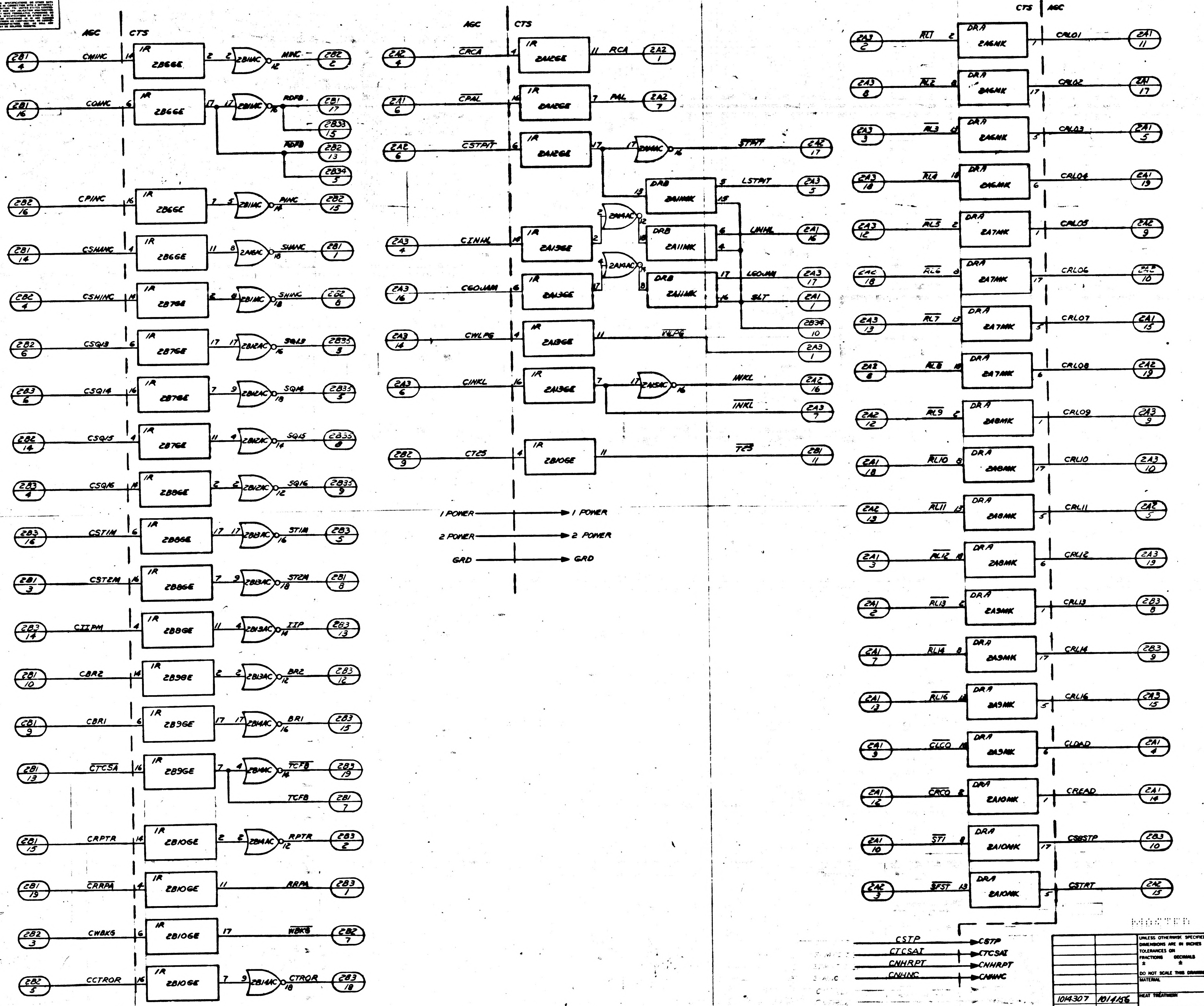
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5571 DR PL Bucwalter CHK J. APPD.	12/26/63	JPS
B	CHANGED PER TDRR 03030 DR. W. Brown CHK. APPD.	1 JUNE 64	KEB



AGC
CTS
CMINC
2B6GE
MINC
COMINC
RDFB
CPINC
PINC
CSHANC
SHANC
CSHINC
SHINC
CSQ13
SQ13
CSQ14
SQ14
CSQ15
SQ15
CSQ16
SQ16
CSTIM
STIM
CSTZM
STZM
CIIPM
IIP
CBR2
BR2
CBR1
BR1
CTCSA
TCFB
CRPTR
RPTR
CRRPA
RRPA
CWBKS
WBKS
CCTROR
CTROR
IR
CRCA
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CPAL
PAL
CSTPIT
STPIT
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CINHL
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CGOJAM
GOJAM
SLT
CWLPS
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CINKL
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CTCS
TCS
1 POWER
2 POWER
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DRA
DRB
RL1
CRL01
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FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01918 DATE 10 July 63

B	B
A	A
SH - 1	SH - 2

REV STATUS OF SH

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014307	1014156
NEXT ASSY	USED ON

APPLICATION

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FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS - 9 - 498
DRAWN DATE
CHECKED 6-12-3
APPROVAL C Sawtelle
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL D. 1 July '63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET P&M
PROGRAMMER AND MONITOR CONNECTOR
INPUT ——— OUTPUT

CODE IDENT NO. ——— SIZE J NASA DRAWING NO. 1014262
SCALE NONE WT SHEET 1 OF 2

ENGINEERING DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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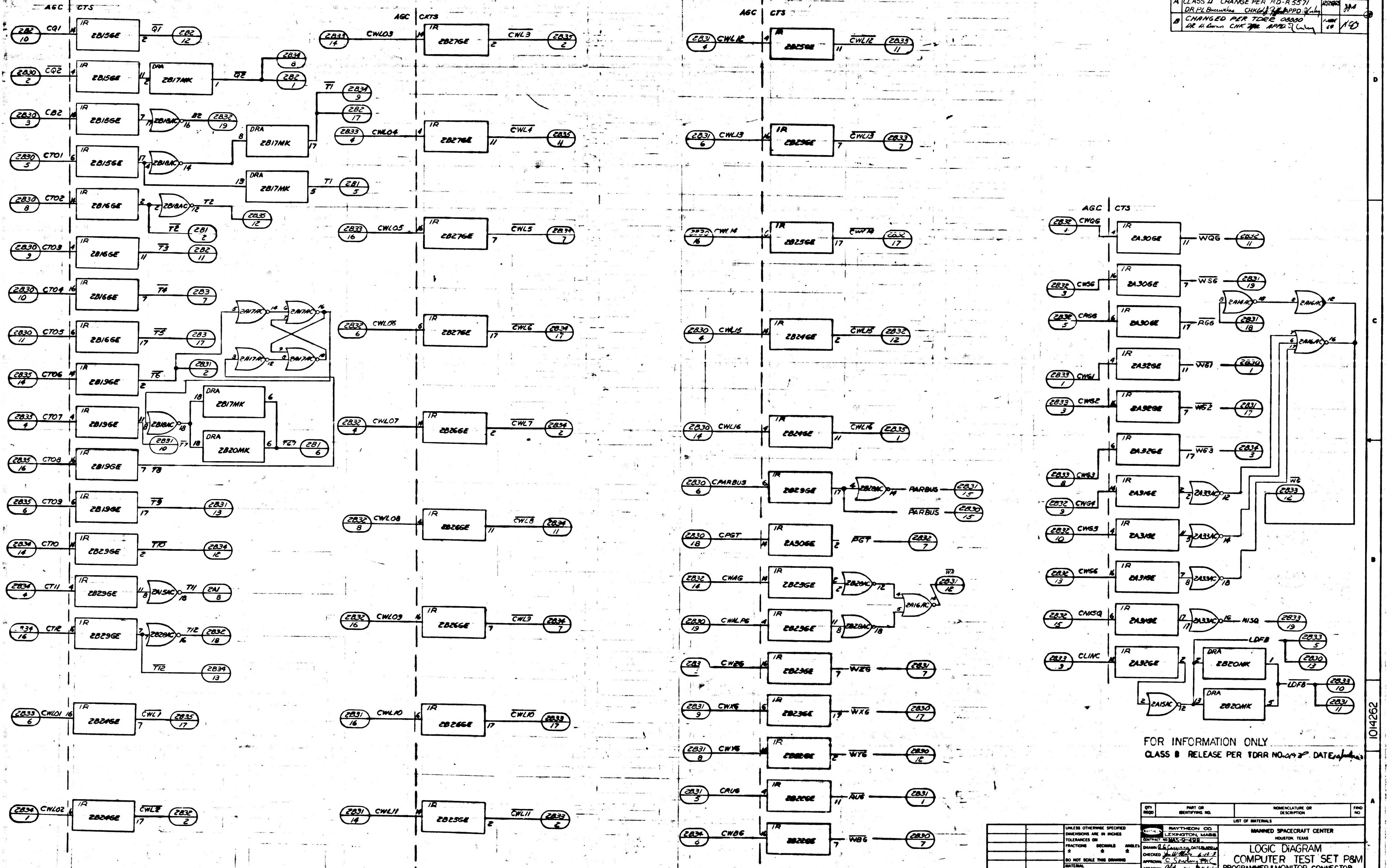
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5571 DR PL Bucewalas CHK APPD:	12/26/63	JJS
B	CHANGED PER TDRR 08080 DR CHK APPD	1 JUNE 64	



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CTS
CATS
IR
DRA
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CQ1
2B15GE
Q1
2B2 12
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CQ2
2B17MK
Q2
2B34 8
2B2 1
2B30 3
CB2
2B16AC
B2
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2B34 9
2B2 17
2B30 5
CT01
2B1 5
2B30 8
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CT04
T4
2B3 7
2B30 11
CT05
T5
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T6
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2B33 4
CT07
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T7
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CT08
T8
2B35 6
CT09
T9
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CT11
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CT12
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CLINC
2A15AC
LDFB
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CLASS B RELEASE PER TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014309	1014156
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN A.G. Cassiano DATE
CHECKED 6-12-3
APPROVAL C Sparling
APPROVAL
APPROVAL
NASA APPROVAL
APPROVAL
APPROVAL 62

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET P&M
PROGRAMMER & MONITOR CONNECTOR
INPUT — OUTPUT

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014262
SCALE NONE
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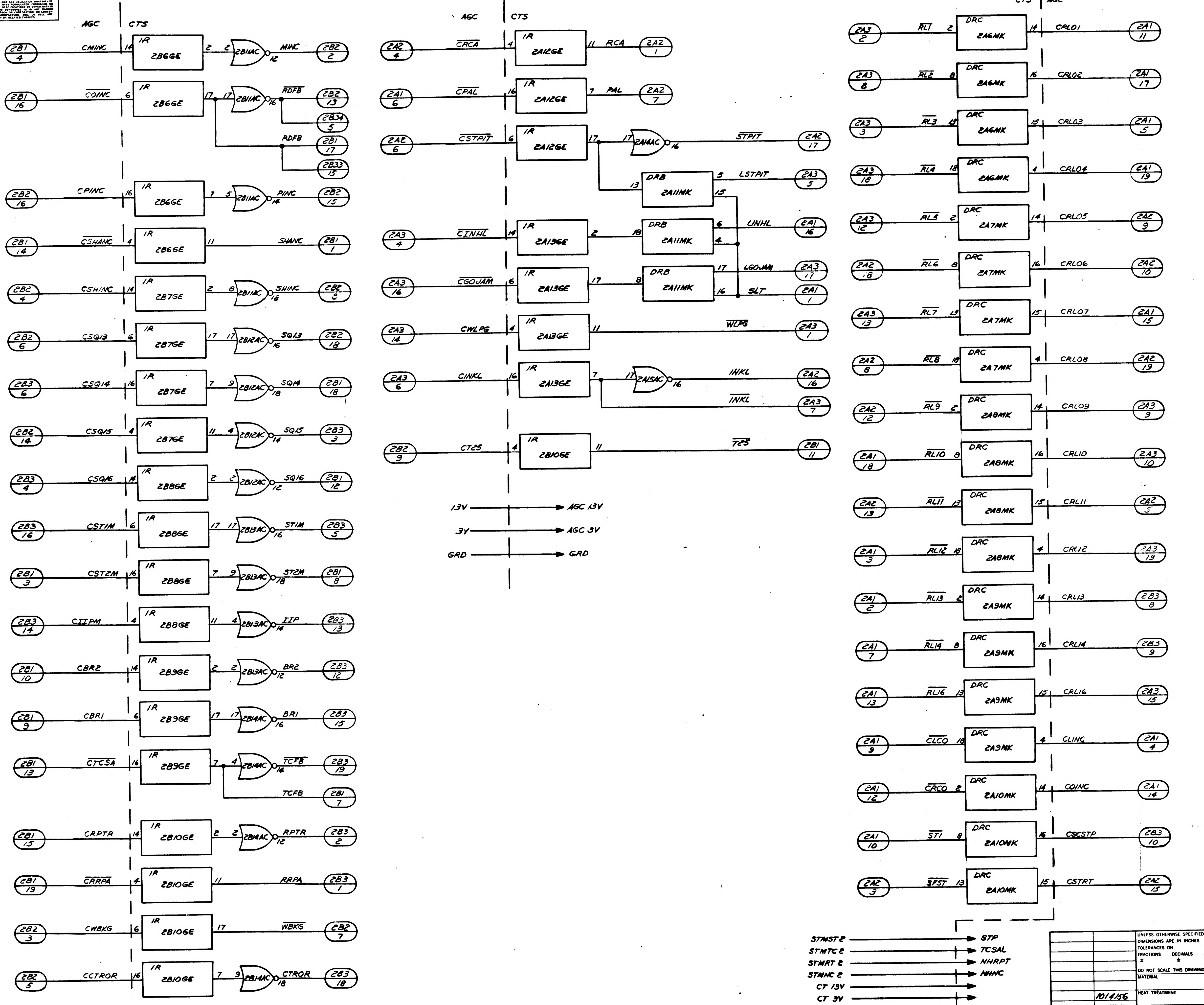
SHEET 2 OF 2

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		



AGC
CTS
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2B1 16 — COINC — 6 — IR 2B6GE — 17 — 17 — 2B11AC — 16 — RDFB — 2B2 13 — 2B3A 5
RDFB — 2B1 17 — 2B33 15
2B2 16 — CPINC — 16 — IR 2B6GE — 7 — 5 — 2B11AC — 14 — PINC — 2B2 15
2B1 14 — CSHANC — 4 — IR 2B6GE — 11 — SHANC — 2B1 1
2BC 4 — CSHINC — 14 — IR 2B7GE — 2 — 8 — 2B11AC — 18 — SHINC — 2B2 8
2B2 6 — CSQ13 — 6 — IR 2B7GE — 17 — 17 — 2B12AC — 16 — SQ13 — 2B2 18
2B3 6 — CSQ14 — 16 — IR 2B7GE — 7 — 9 — 2B12AC — 18 — SQ14 — 2B1 18
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2B1 3 — CST2M — 16 — IR 2B8GE — 7 — 9 — 2B13AC — 18 — ST2M — 2B1 8
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2A2 4 — CRCA — 4 — IR 2A12GE — 11 — RCA — 2A2 1
2A1 6 — CPAL — 16 — IR 2A12GE — 7 — PAL — 2A2 7
2A2 6 — CSTPIT — 6 — IR 2A12GE — 17 — 17 — 2A14AC — 16 — STPIT — 2A2 17
13 — DRB 2A11MK — 5 — LSTPIT — 2A3 5
15
2A3 4 — CINHL — 14 — IR 2A13GE — 2 — 18 — DRB 2A11MK — 6 — UNHL — 2A1 16
4
2A3 16 — CGOJAM — 6 — IR 2A13GE — 17 — 8 — DRB 2A11MK — 17 — LGOJAM — 2A3 17
16 — SLT — 2A1 1
2A3 14 — CWLPG — 4 — IR 2A13GE — 11 — WLPG — 2A3 1
2A3 6 — CINKL — 16 — IR 2A13GE — 7 — 17 — 2A15AC — 16 — INKL — 2A2 16
INKL — 2A3 7
2B2 9 — CT25 — 4 — IR 2B10GE — 11 — T25 — 2B1 11
13V → AGC 13V
3V → AGC 3V
GRD → GRD
CTS
AGC
2A3 2 — RL1 — 2 — DRC 2A6MK — 14 — CRL01 — 2A1 11
2A3 8 — RL2 — 8 — DRC 2A6MK — 16 — CRL02 — 2A1 17
2A3 3 — RL3 — 13 — DRC 2A6MK — 15 — CRL03 — 2A1 5
2A3 18 — RL4 — 18 — DRC 2A6MK — 4 — CRL04 — 2A1 19
2A3 12 — RL5 — 2 — DRC 2A7MK — 14 — CRL05 — 2A2 9
2A2 18 — RL6 — 8 — DRC 2A7MK — 16 — CRL06 — 2A2 10
2A3 13 — RL7 — 13 — DRC 2A7MK — 15 — CRL07 — 2A1 15
2A2 8 — RL8 — 18 — DRC 2A7MK — 4 — CRL08 — 2A2 19
2A2 12 — RL9 — 2 — DRC 2A8MK — 14 — CRL09 — 2A3 9
2A1 18 — RL10 — 8 — DRC 2A8MK — 16 — CRL10 — 2A3 10
2A2 13 — RL11 — 13 — DRC 2A8MK — 15 — CRL11 — 2A2 5
2A1 3 — RL12 — 18 — DRC 2A8MK — 4 — CRL12 — 2A3 19
2A1 2 — RL13 — 2 — DRC 2A9MK — 14 — CRL13 — 2B3 8
2A1 7 — RL14 — 8 — DRC 2A9MK — 16 — CRL14 — 2B3 9
2A1 13 — RL16 — 13 — DRC 2A9MK — 15 — CRL16 — 2A3 15
2A1 9 — CLCO — 18 — DRC 2A9MK — 4 — CLINC — 2A1 4
2A1 12 — CRCO — 2 — DRC 2A10MK — 14 — COINC — 2A1 14
2A1 10 — STI — 8 — DRC 2A10MK — 16 — CSCSTP — 2B3 10
2A2 3 — SFST — 13 — DRC 2A10MK — 15 — CSTRT — 2A2 15
STMST2 → STP
STMTC2 → TCSAL
STMRT2 → NHRPT
STMNC2 → NHINC
CT 13V →
CT 3V →

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CLASS B RELEASE PER TDRR NO. 01938 DATE 10 July 63

SH-1	SH-2
—	—
REV STATUS OF SH	

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN J.F. McConnell DATE Jun 5 63
CHECKED Jack Wilks 6-12-3
APPROVAL C Sizeling
APPROVAL 6/14/63
APPROVAL
NASA APPROVAL Jack Barnard
MIT APPROVAL 7/2/63
MIT APPROVAL D. 8 July '63

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LOGIC DIAGRAM
COMPUTER TEST SET
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SYM	DESCRIPTION
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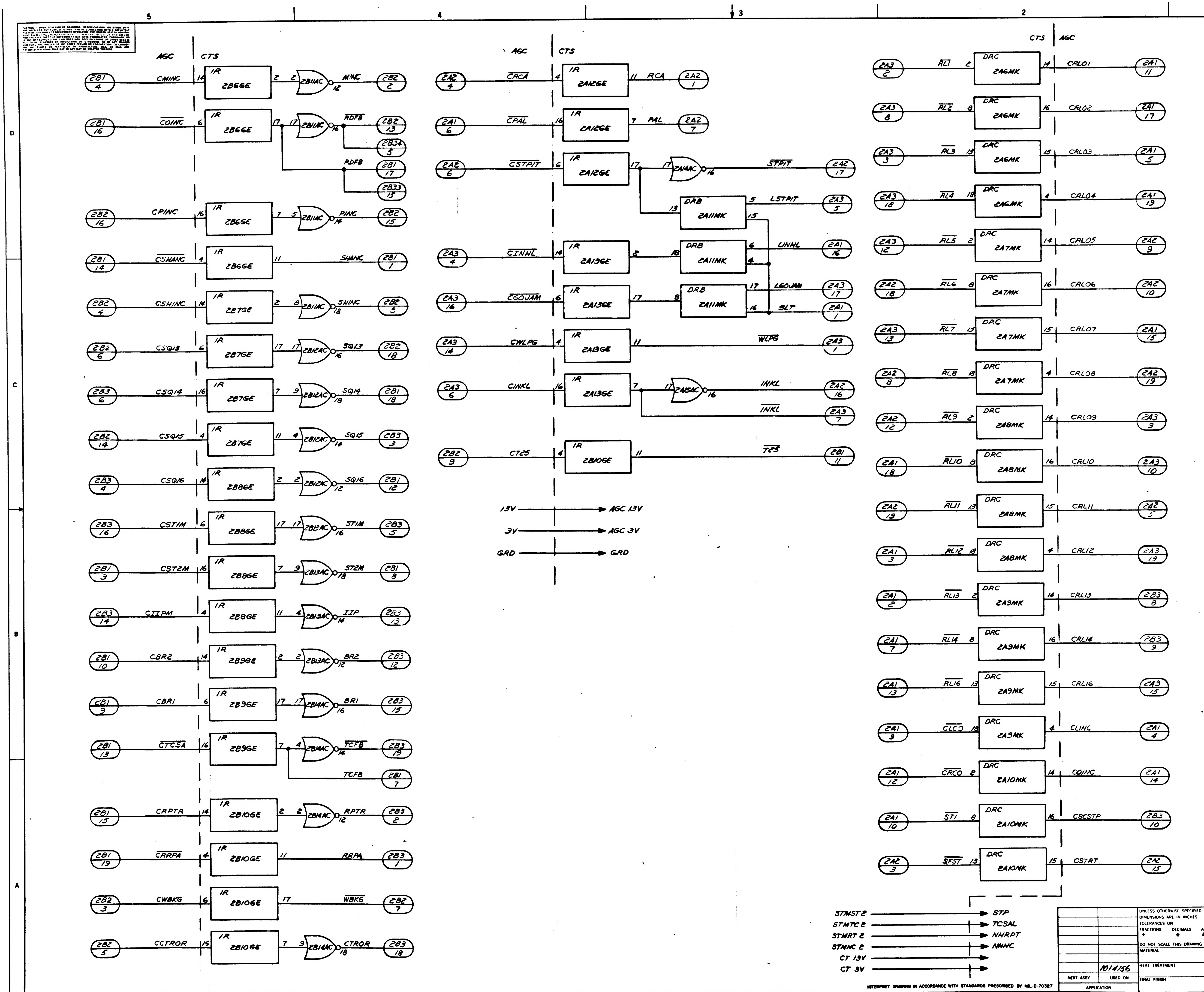

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2B1/16 COINC 6 IR 2B6GE 17 17 2B11AC 16 RDFB 2B2/13 2B3A/5
RDFB 2B1/17 2B3/15
2B2/16 CPINC 16 IR 2B6GE 7 5 2B11AC 14 PINC 2B2/15
2B1/14 CSHANC 4 IR 2B6GE 11 SHANC 2B1/1
2B2/4 CSHINC 14 IR 2B7GE 2 8 2B11AC 18 SHINC 2B2/5
2B2/6 CSQ13 6 IR 2B7GE 17 17 2B12AC 16 SQ13 2B2/18
2B3/6 CSQ14 16 IR 2B7GE 7 9 2B12AC 18 SQ14 2B1/18
2B2/14 CSQ15 4 IR 2B7GE 11 4 2B12AC 14 SQ15 2B3/3
2B3/4 CSQ16 14 IR 2B8GE 2 2 2B12AC 12 SQ16 2B1/12
2B3/16 CSTIM 6 IR 2B8GE 17 17 2B13AC 16 STIM 2B3/5
2B1/3 CSTZM 16 IR 2B8GE 7 9 2B13AC 18 STZM 2B1/8
2B3/14 CIIPM 4 IR 2B8GE 11 4 2B13AC 14 IIP 2B3/13
2B1/10 CBR2 14 IR 2B9GE 2 2 2B13AC 12 BR2 2B3/12
2B1/9 CBR1 6 IR 2B9GE 17 17 2B14AC 16 BR1 2B3/15
2B1/13 CTCSA 16 IR 2B9GE 7 4 2B14AC 14 TCFB 2B3/19
TCFB 2B1/7
2B1/15 CRPTR 14 IR 2B10GE 2 2 2B14AC 12 RPTR 2B3/2
2B1/19 CRRPA 4 IR 2B10GE 11 RRPA 2B3/1
2B2/3 CWBKG 6 IR 2B10GE 17 WBKG 2B2/7
2B2/5 CCTROR 15 IR 2B10GE 7 9 2B14AC 18 CTROR 2B3/18
AGC
CTS
2A2/4 CRCA 4 IR 2A12GE 11 RCA 2A2/1
2A1/6 CPAL 16 IR 2A12GE 7 PAL 2A2/7
2A2/6 CSTPIT 6 IR 2A12GE 17 17 2A14AC 16 STPIT 2A2/17
13 DRB 2A11MK 5 LSTPIT 2A3/5
15
2A3/4 CINHL 14 IR 2A13GE 2 18 DRB 2A11MK 6 INHL 2A1/16
4
2A3/16 CGOJAM 6 IR 2A13GE 17 8 DRB 2A11MK 17 LGOJAM 2A3/17
16 SLT 2A1/1
2A3/14 CWLPG 4 IR 2A13GE 11 WLPG 2A3/1
2A3/6 CINKL 16 IR 2A13GE 7 17 2A15AC 16 INKL 2A2/16
INKL 2A3/7
2B2/9 CT2S 4 IR 2B10GE 11 TCS 2B1/11
13V AGC 13V
3V AGC 3V
GRD GRD
CTS
AGC
2A3/2 RL1 2 DRC 2A6MK 14 CRL01 2A1/11
2A3/8 RL2 8 DRC 2A6MK 16 CRL02 2A1/17
2A3/3 RL3 13 DRC 2A6MK 15 CRL03 2A1/5
2A3/18 RL4 18 DRC 2A6MK 4 CRL04 2A1/19
2A3/12 RL5 2 DRC 2A7MK 14 CRL05 2A2/9
2A2/18 RL6 8 DRC 2A7MK 16 CRL06 2A2/10
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2A2/12 RL9 2 DRC 2A8MK 14 CRL09 2A3/9
2A1/18 RL10 8 DRC 2A8MK 16 CRL10 2A3/10
2A2/13 RL11 13 DRC 2A8MK 15 CRL11 2A2/5
2A1/3 RL12 18 DRC 2A8MK 4 CRL12 2A3/19
2A1/2 RL13 2 DRC 2A9MK 14 CRL13 2B3/8
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2A1/9 CLCO 18 DRC 2A9MK 4 CLINC 2A1/4
2A1/12 CRCO 2 DRC 2A10MK 14 COINC 2A1/14
2A1/10 STI 8 DRC 2A10MK 16 CSCSTP 2B3/10
2A2/3 SFST 13 DRC 2A10MK 15 CSTRT 2A2/15
STMST2 STP
STMTC2 TCSAL
STMRT2 NHRPT
STMNC2 NHNC
CT 13V
CT 3V

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—	—
SH - 1	SH - 2
REV STATUS OF SH	

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LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN J McConnell DATE
CHECKED
APPROVAL C Smith
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

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COMPUTE
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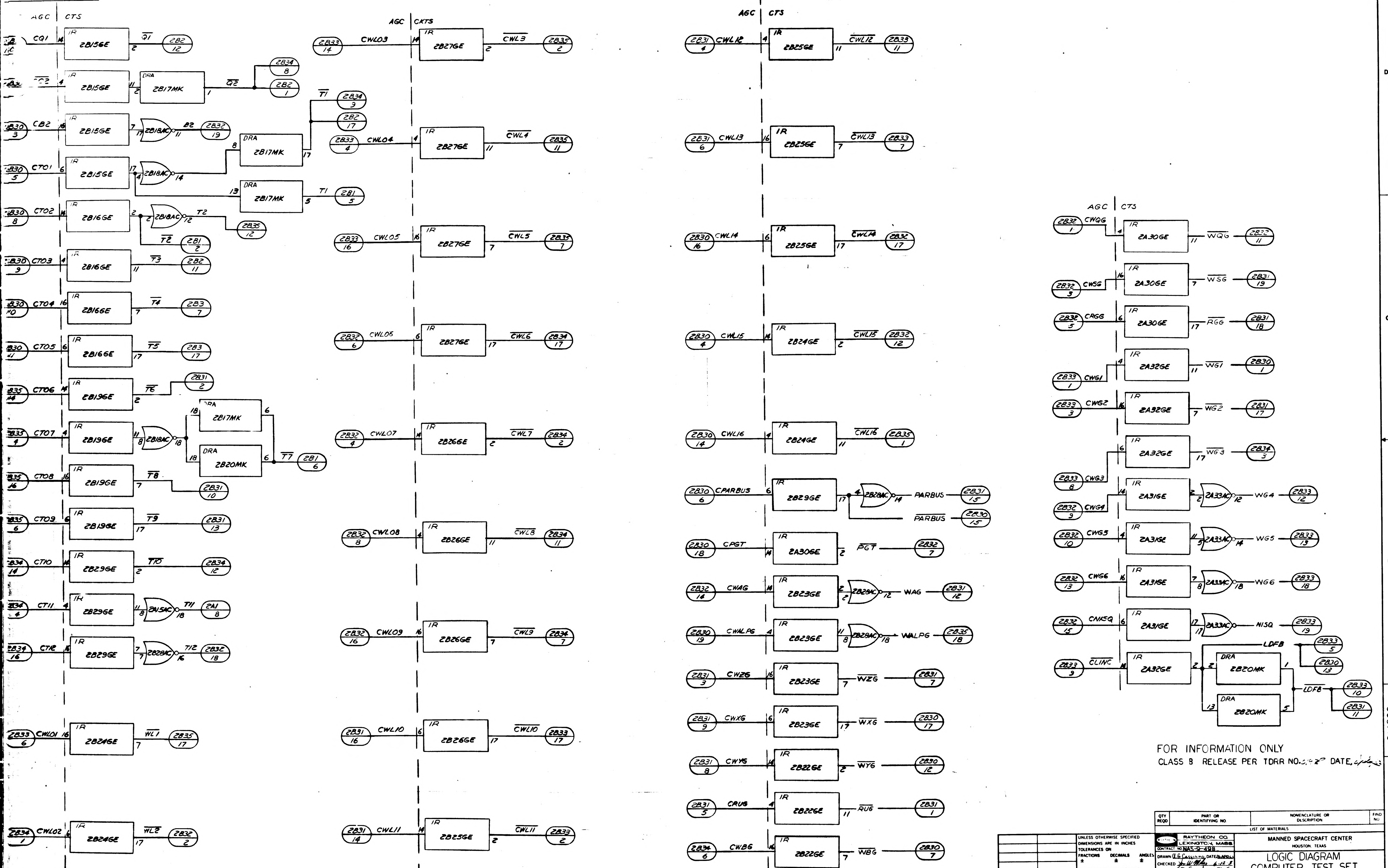

AGC | CTS
CQ1
2B15GE
Q1
CQ2
2B17MK
Q2
CB2
2B18AC
B2
CT01
CT02
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T1
T2
CT03
T3
CT04
T4
CT05
T5
CT06
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CT07
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T7
CT08
T8
CT09
T9
CT10
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T10
CT11
2A15AC
T11
CT12
2B28AC
T12
CWL01
2B24GE
WL1
CWL02
WL2
AGC | CKTS
CWL03
2B27GE
CWL3
CWL04
CWL4
CWL05
CWL5
CWL06
CWL6
CWL07
2B26GE
CWL7
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CWL11
2B25GE
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AGC | CTS
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CWL15
2B24GE
CWL15
CWL16
CWL16
CPARBUS
2B29GE
PARBUS
PARBUS
CPGT
2A30GE
PGT
CWAG
2B23GE
WAG
CWALPG
WALPG
CWZG
WZG
CWXG
WXG
CWYG
2B22GE
WYG
CRUG
RUG
CWBG
WBG
AGC | CTS
CWQG
2A30GE
WQG
CWSG
WSG
CRGG
RGG
CWG1
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WG1
CWG2
WG2
WG3
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WG5
CWG6
WG6
CNISQ
NISQ
CLINC
2B20MK
LDFB
LDFB

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN A.G. Cassiano DATE 26 APR 63
CHECKED 6-12-3
APPROVAL C Sr...
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 7/1/63
MIT APPROVAL 8 July 63

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SIZE J
NASA DRAWING NO 1014262
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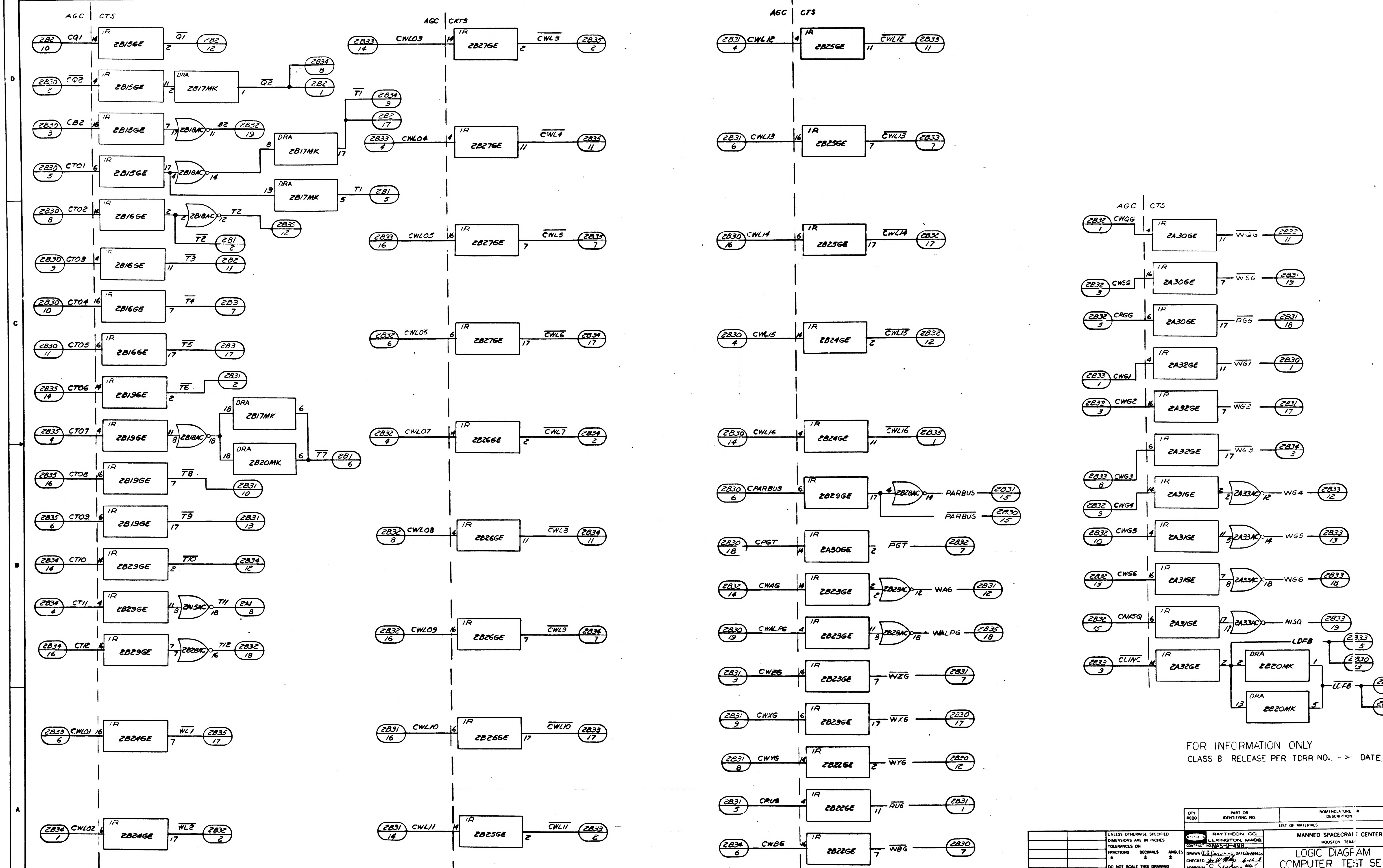
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2B30/2 CQ2 4 IR 2B15GE 11 2 DRA 2B17MK 1 Q2 2B34/8 2B2/1
2B30/3 CB2 16 IR 2B15GE 7 17 2B18AC 11 B2 2B32/19
2B30/5 CT01 6 IR 2B15GE 17 4 2B18AC 14
8 DRA 2B17MK 17 T1 2B34/9 2B2/17
13 DRA 2B17MK 5 T1 2B1/5
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T2 2B1/2
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2B35/14 CT06 14 IR 2B19GE 2 T6 2B31/2
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18 DRA 2B20MK 6 T7 2B1/6
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2B34/14 CT10 14 IR 2B29GE 2 T10 2B34/12
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2B34/1 CWL02 6 IR 2B24GE 17 WL2 2B32/2
AGC | CKTS
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2B33/4 CWL04 4 IR 2B27GE 11 CWL4 2B35/11
2B33/16 CWL05 16 IR 2B27GE 7 CWL5 2B35/7
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2B30/14 CWL16 4 IR 2B24GE 11 CWL16 2B35/1
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PARBUS 2B30/15
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2B32/14 CWAG 14 IR 2B23GE 2 2 2B28AC 12 WAG 2B31/12
2B30/19 CWALPG 4 IR 2B23GE 11 8 2B28AC 18 WALPG 2B35/18
2B31/3 CWZG 16 IR 2B23GE 7 WZG 2B31/7
2B31/9 CWXG 6 IR 2B23GE 17 WXG 2B30/17
2B31/8 CWYG 14 IR 2B22GE 2 WYG 2B30/12
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2B34/6 CWBG 16 IR 2B22GE 7 WBG 2B30/7
AGC | CTS
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2B32/3 CWSG 16 IR 2A30GE 7 WSG 2B31/19
2B32/5 CRGG 6 IR 2A30GE 17 RGG 2B31/18
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2B33/3 CWG2 16 IR 2A32GE 7 WG2 2B31/17
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2B32/10 CWG5 4 IR 2A31GE 11 5 2A33AC 14 WG5 2B33/13
2B32/13 CWG6 16 IR 2A31GE 7 8 2A33AC 18 WG6 2B33/18
2B32/15 CNISQ 6 IR 2A31GE 17 17 2A33AC NISQ 2B33/19
2B33/9 CLINC 14 IR 2A32GE 2 2 DRA 2B20MK 1 LDFB 2B33/5 2B30/3
13 DRA 2B20MK 5 LCFB 2B33/10 2B31/11

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN U.G. Cassiano DATE 26 APR 63
CHECKED Jon W. Miles 6-12-63
APPROVAL C. Sparling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 7/63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
PROGRAMMER & MONITOR CONNECTOR
INPUT — OUTPUT

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014262
SCALE NONE
WT
SHEET 2 OF 2

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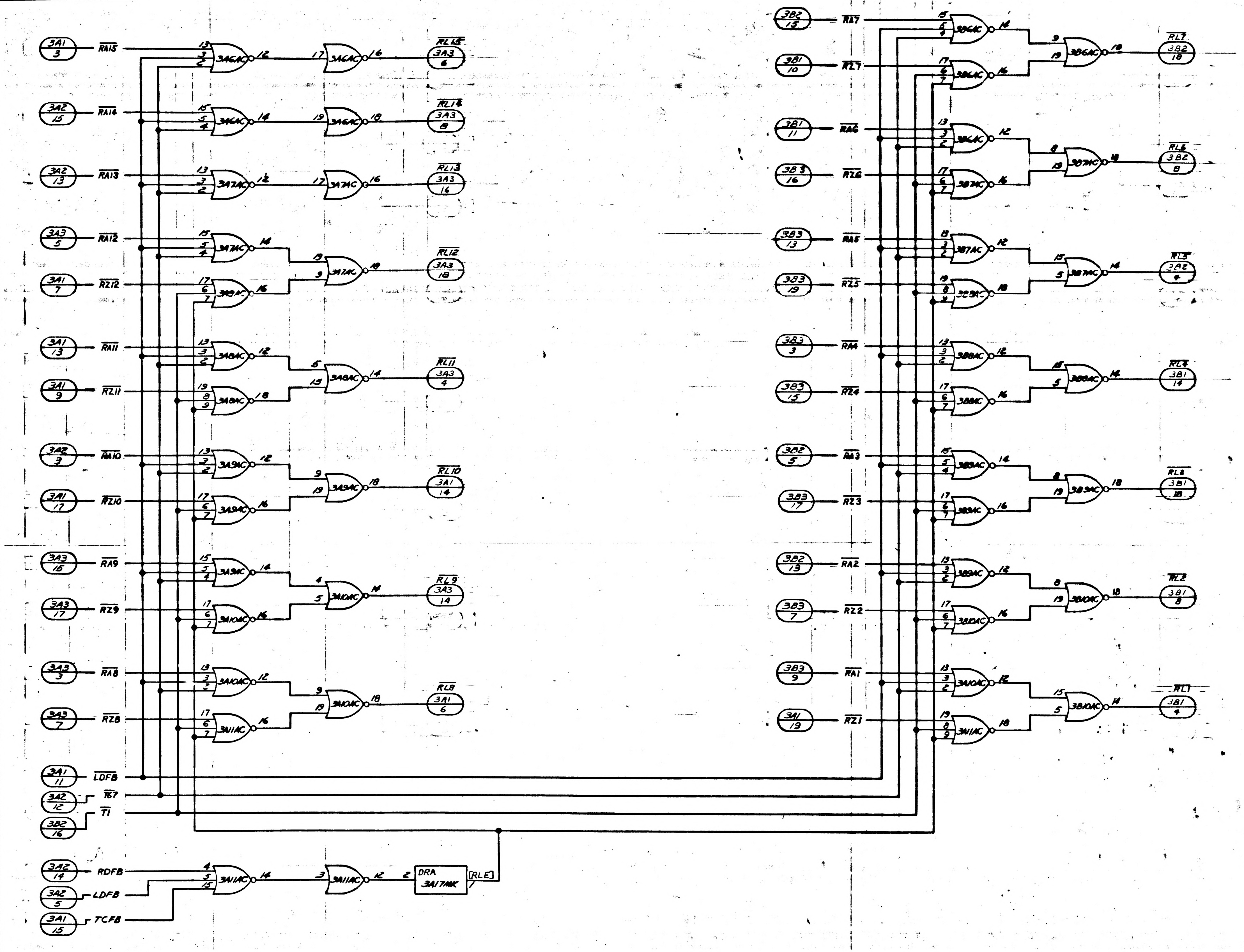
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5541A DR R F Ross CHK APPD	26 DEC 63	
B	CHANGED PER TDRR NO. 08562 DR S.I. CHK APPD	JUNE 64	



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3A3 5 RA12
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3A1 9 RZ11
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3A1 17 RZ10
3A3 15 RA9
3A3 17 RZ9
3A3 3 RA8
3A3 7 RZ8
3A1 11 LDFB
3A2 12 T67
3B2 16 T1
3A2 14 RDFB
3A2 5 LDFB
3A1 15 TCFB
DRA 3A17MK
RLE
RL15 3A3 6
RL14 3A3 8
RL13 3A3 16
RL12 3A3 18
RL11 3A3 4
RL10 3A1 14
RL9 3A3 14
RL8 3A1 6
3B2 15 RA7
3B1 10 RZ7
3B1 11 RA6
3B3 16 RZ6
3B3 13 RA5
3B3 19 RZ5
3B3 3 RA4
3B3 15 RZ4
3B2 5 RA3
3B3 17 RZ3
3B2 13 RA2
3B3 7 RZ2
3B3 9 RA1
3A1 19 RZ1
RL7 3B2 18
RL6 3B2 8
RL5 3A2 4
RL4 3B1 14
RL3 3B1 18
RL2 3B1 8
RL1 3B1 4

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CLASS B RELEASE PER TDRR NO. 0938 DATE 10 July 63

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LIST OF MATERIALS

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1014167	1014156

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 22 APR 63
CHECKED 6-12-3
APPROVAL C. Sperling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(READ LINE INPUTS) LD2

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014263
SCALE NONE
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SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5541A DR R F Ross CHK Marino APPD J. Conley	26 DEC 63	
B	CHANGED PER TDRR NO. 08562 DR S.T. Orfie CHK APPD Conley	June 64	
C	CHANGED PER TDRR 14492 DR Fisher CHK JCJ APPD Conley	22 DEC 64	

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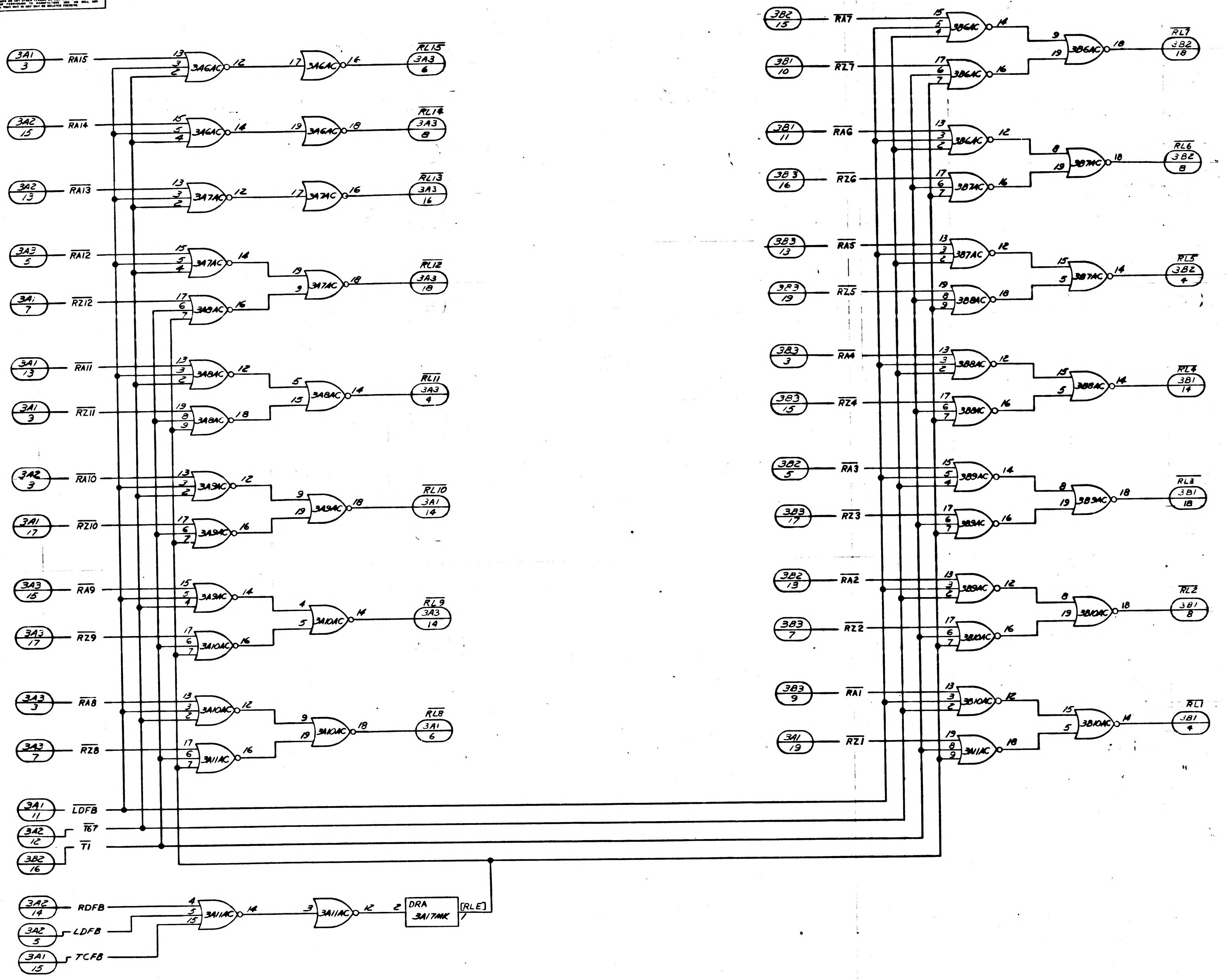
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19, 9 3A7AC 18 — RL12 3A3/18
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5, 15 3A8AC 14 — RL11 3A3/4
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9, 19 3A10AC 18 — RL8 3A1/6
3A1/11 LDFB
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3A2/5 LDFB — 5
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R. Dampney DATE 22 APR 63
CHECKED Miles 6/63
APPROVAL C Sperling
APPROVAL
APPROVAL
NASA APPROVAL Jack Bosworth
MIT APPROVAL 7/1/63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(READ LINE INPUTS) LD2

CODE IDENT NO ——— SIZE J NASA DRAWING NO 1014263
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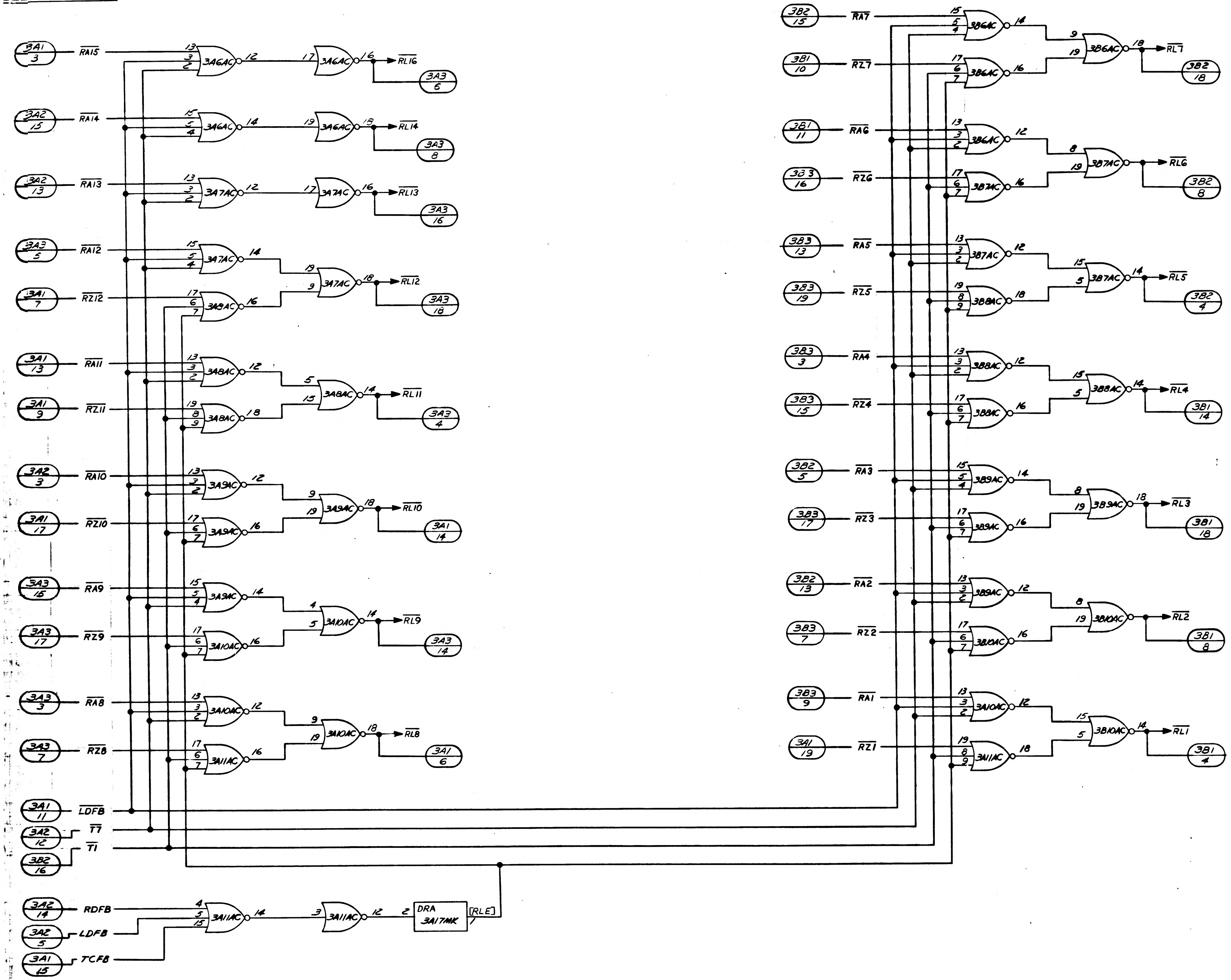
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3A1 17 RZ10 3A9AC 17 6 7 16
9 19 3A9AC 18 RL10 3A1 14
3A3 15 RA9 3A9AC 15 5 4 14
3A3 17 RZ9 3A10AC 17 6 7 16
4 5 3A10AC 14 RL9 3A3 14
3A3 3 RA8 3A10AC 13 3 2 12
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2 DRA 3A17MK RLE 1
3B2 15 RA7 3B6AC 15 5 4 14
3B1 10 RZ7 3B6AC 17 6 7 16
9 19 3B6AC 18 RL7 3B2 18
3B1 11 RA6 3B6AC 13 3 2 12
3B3 16 RZ6 3B7AC 17 6 7 16
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3A1 19 RZ1 3A11AC 19 8 9 18
15 5 3B10AC 14 RL1 3B1 4

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1014263

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CONTRACT NO NAS 9-498
DRAWN R. Dagreines DATE 22 APR 63
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APPROVAL C Sparling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 7/1/63
MIT APPROVAL

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HOUSTON, TEXAS

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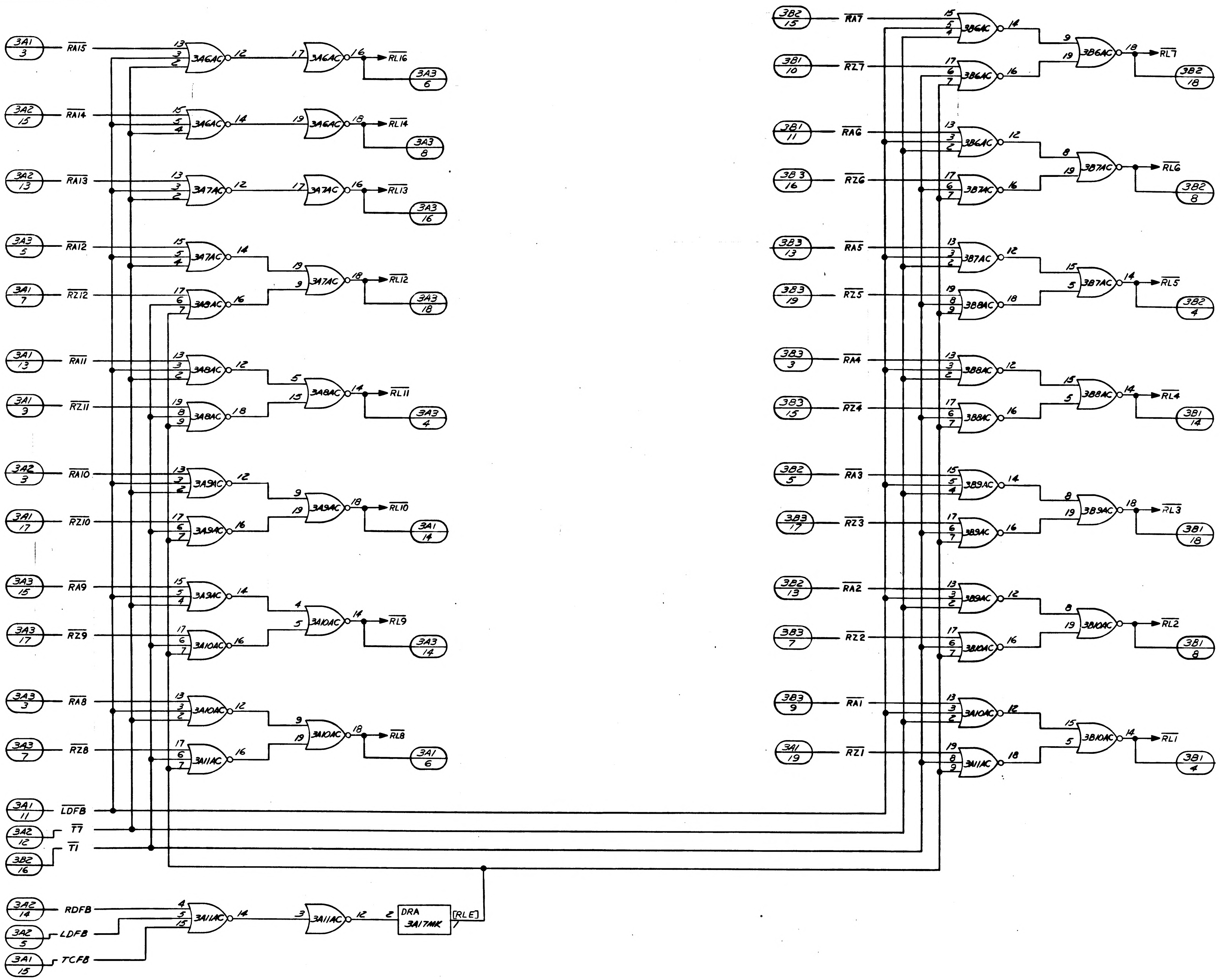

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3A1 7 — $\overline{RZ12}$ — 17 6 7 3A8AC 16 — 9 3A7AC 18 — $\overline{RL12}$ — 3A3 18
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3A1 11 — $\overline{LDFB}$
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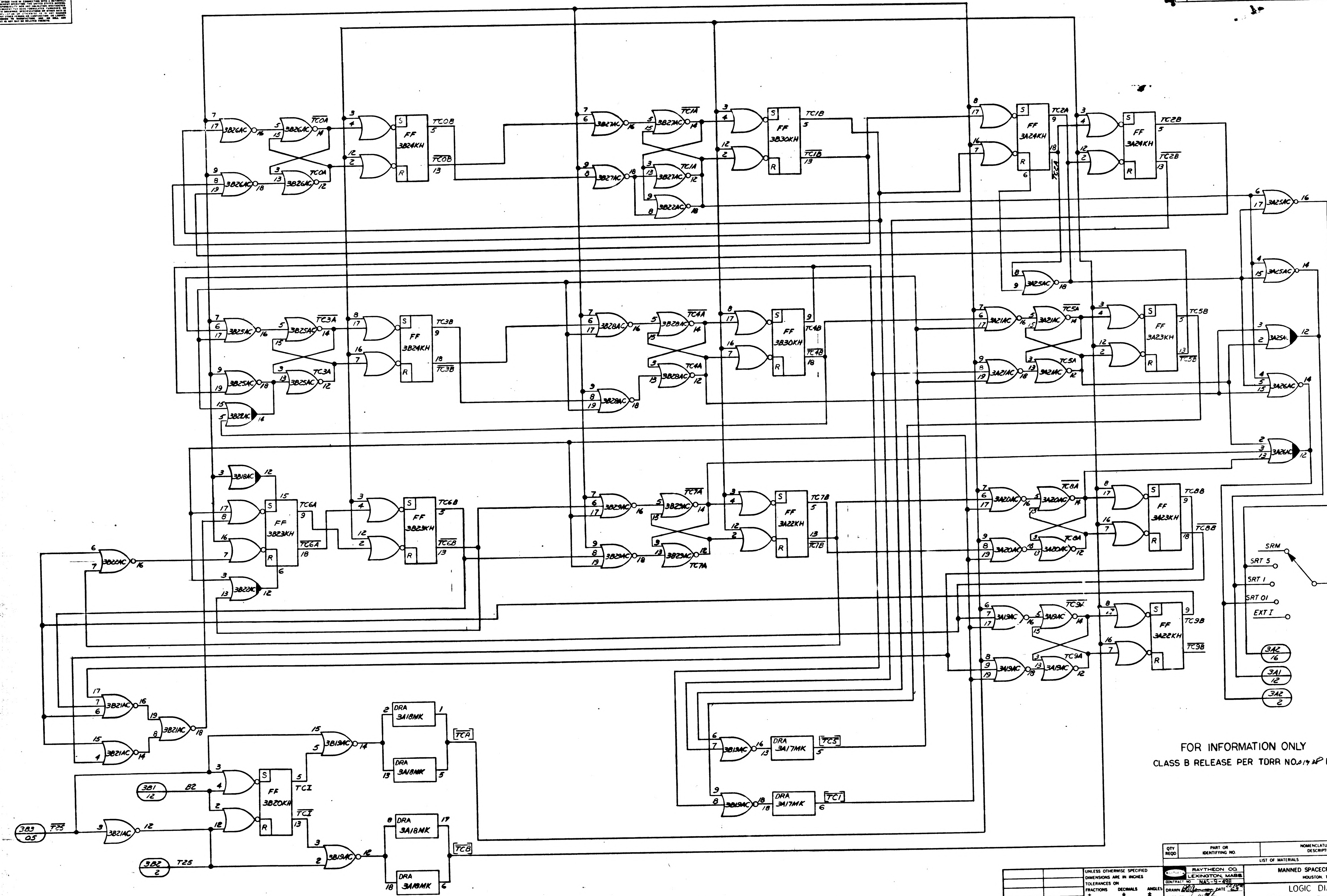
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1014265

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RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO NAS-9-498
DRAWN R.C. Ammann DATE 22 APR 63
CHECKED Jo... Miller
APPROVAL C. Sparling
APPROVAL 6/14/63
APPROVAL
NASA APPROVAL Jack Barnard
MIT APPROVAL M.D. Jaeger 7/9/63
MIT APPROVAL D. Schramm 3 Jul 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(TIME COUNTER) LD2

CODE IDENT NO. ——
SIZE J
NASA DRAWING NO 1014265
SCALE NONE
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SHEET 1 OF 1

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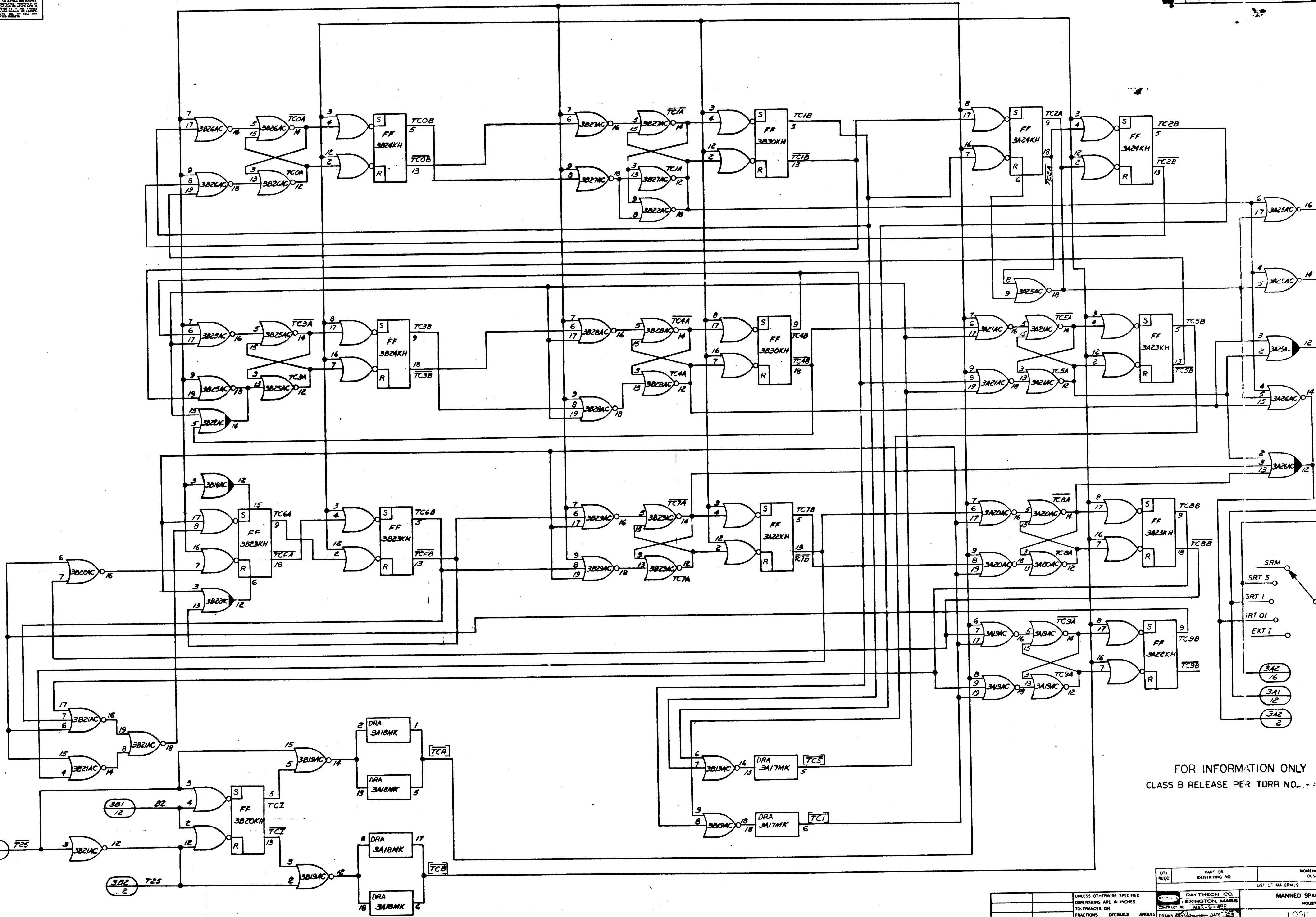

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LIST OF MATERIALS

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APPLICATION	

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-495
DRAWN DATE 22 APR 63
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SCALE NONE

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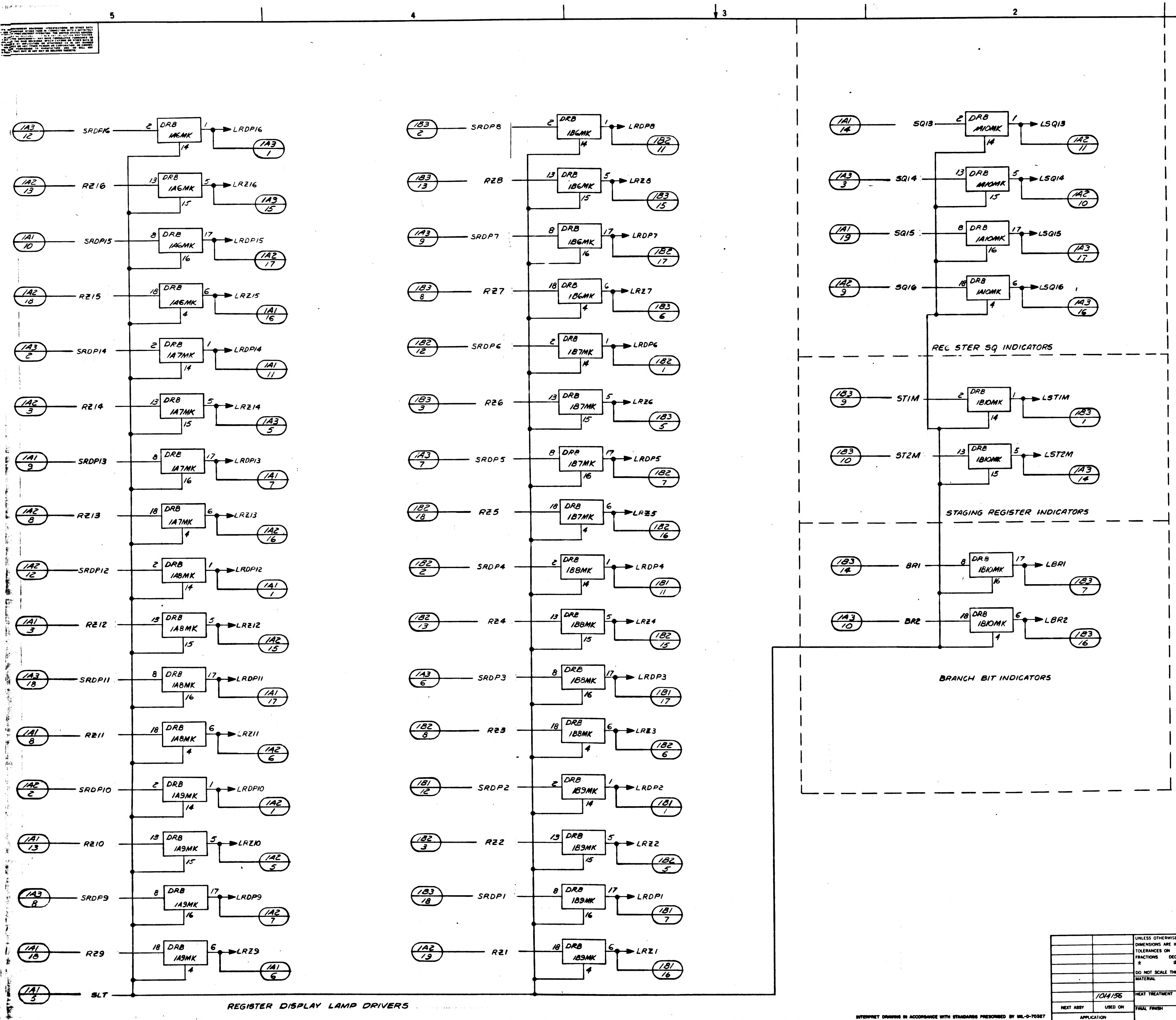
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1A3/8 SRDP9 8 DRB 1A9MK 17 LRDP9 1A2/7 16
1A1/18 RZ9 18 DRB 1A9MK 6 LRZ9 1A1/6 4
1A1/5 SLT
REGISTER DISPLAY LAMP DRIVERS
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1B2/2 SRDP4 2 DRB 1B8MK 1 LRDP4 1B1/11 14
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1A3/3 SQ14 13 DRB 1A10MK 5 LSQ14 1A2/10 15
1A1/19 SQ15 8 DRB 1A10MK 17 LSQ15 1A3/17 16
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REG STER SQ INDICATORS
1B3/9 STIM 2 DRB 1B10MK 1 LSTIM 1B3/1 14
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CLASS B RELEASE PER TDRR NO 01938 DATE 10 July 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

	1014156
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN H. Carlson DATE 4-22-63
CHECKED WMiles 6-12-3
APPROVAL C Snider 8PK
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 8 Jul 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(PROGRAMMER & MONITOR LAMP DRIVERS)

CODE IDENT NO ——— SIZE J NASA DRAWING NO 1014266
SCALE NONE WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
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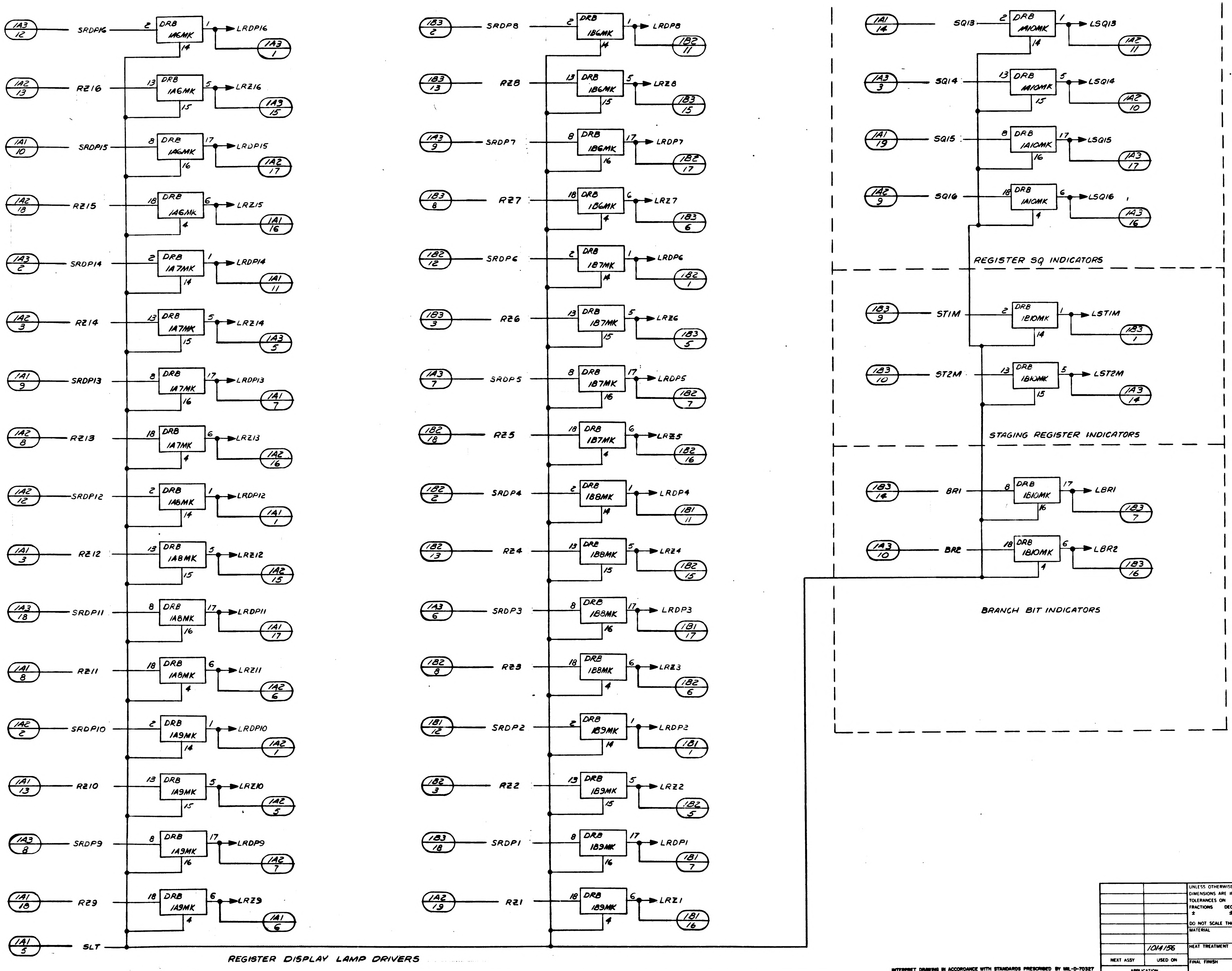
1014266

SYM	DESCRIPTION
—	CL B RELEASED PER TDR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1A2/18 RZ15 18 DRB 1A6MK 4 6 LRZ15 1A1/16
1A3/2 SRDP14 2 DRB 1A7MK 14 1 LRDP14 1A1/11
1A2/3 RZ14 13 DRB 1A7MK 15 5 LRZ14 1A3/5
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1A2/12 SRDP12 2 DRB 1A8MK 14 1 LRDP12 1A1/1
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1A2/9 SQ16 18 DRB 1A10MK 4 6 LSQ16 1A3/16
REGISTER SQ INDICATORS
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1B3/10 ST2M 13 DRB 1B10MK 15 5 LST2M 1A3/14
STAGING REGISTER INDICATORS
1B3/14 BR1 8 DRB 1B10MK 16 17 LBR1 1B3/7
1A3/10 BR2 18 DRB 1B10MK 4 6 LBR2 1B3/16
BRANCH BIT INDICATORS

REGISTER DISPLAY LAMP DRIVERS

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INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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LIST OF MATERIAL

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN H. Carlson DATE 4-22-63
CHECKED W. White 6-12-63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

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(PROGRAMMER &
CODE IDENT NO
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SCALE NONE

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SYM	DESCRIPTION	DATE	APPROVED
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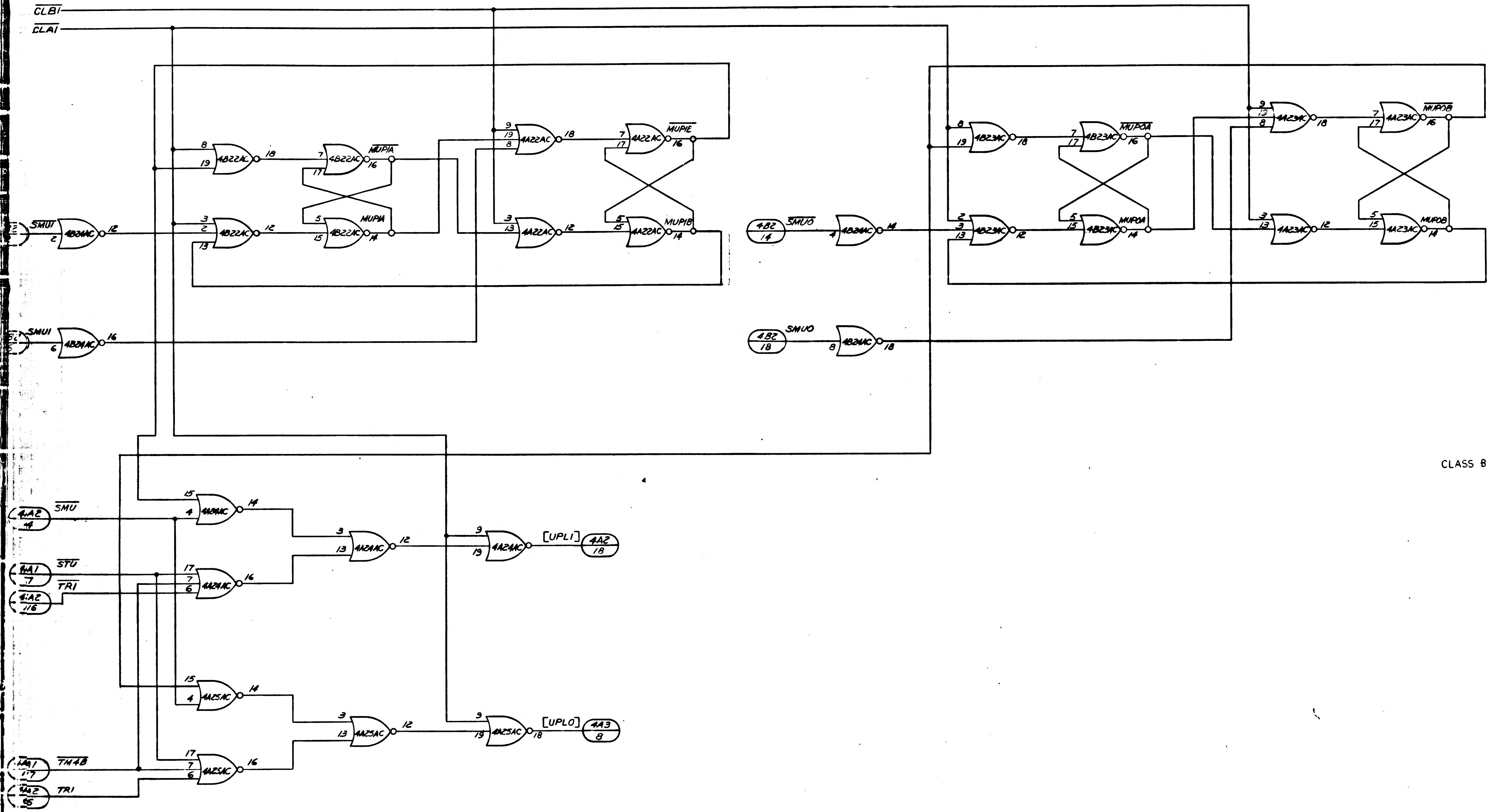
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4A1 17
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CLASS B RELEASE PER TDRR NO. 0192P DATE 10 July 63

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LIST OF MATERIALS

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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO. NAS 9-498
DRAWN L. Yeston DATE 18 APR 63
CHECKED J. W. Miles 6-12-3
APPROVAL C Sperling
APPROVAL 6/4/63
APPROVAL
NASA APPROVAL
MIT APPROVAL 7/1963
MIT APPROVAL D. 8 Jul 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(UP LINK) LD2

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014268
SCALE NONE
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INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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SYM	DESCRIPTION
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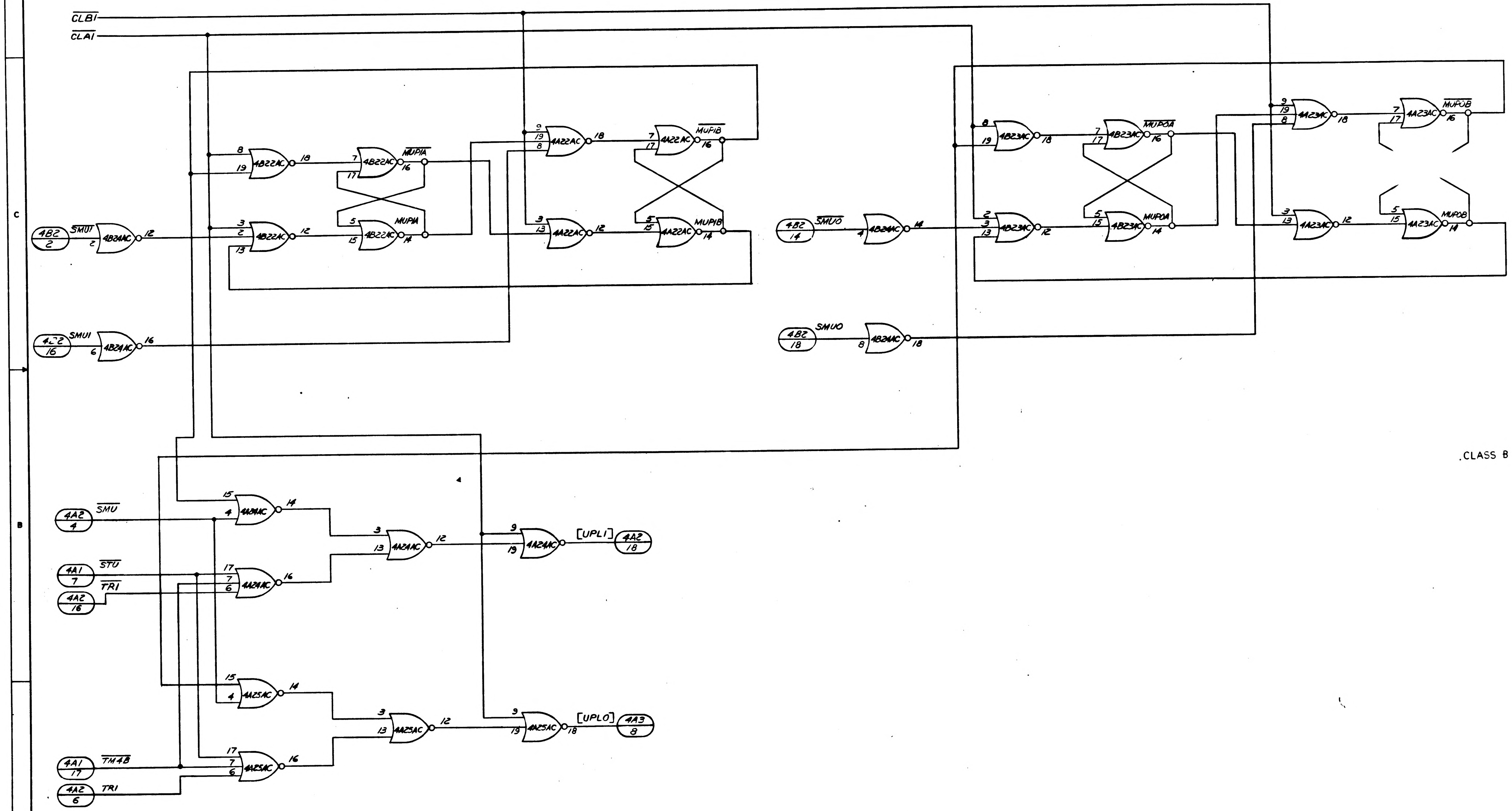
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4B24AC
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SMU
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QTY REQD	PART OR IDENTIFYING NO

LIST OF MATERIALS

RAYTHEON CO
LEXINGTON, MASS
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED
APPROVAL C Sparling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

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CODE IDENT NO —
J
SCALE NONE

1014268

INCHES
PHOTOGRAPHIC SCALE ONLY

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SYM	DESCRIPTION	DATE	APPROVED
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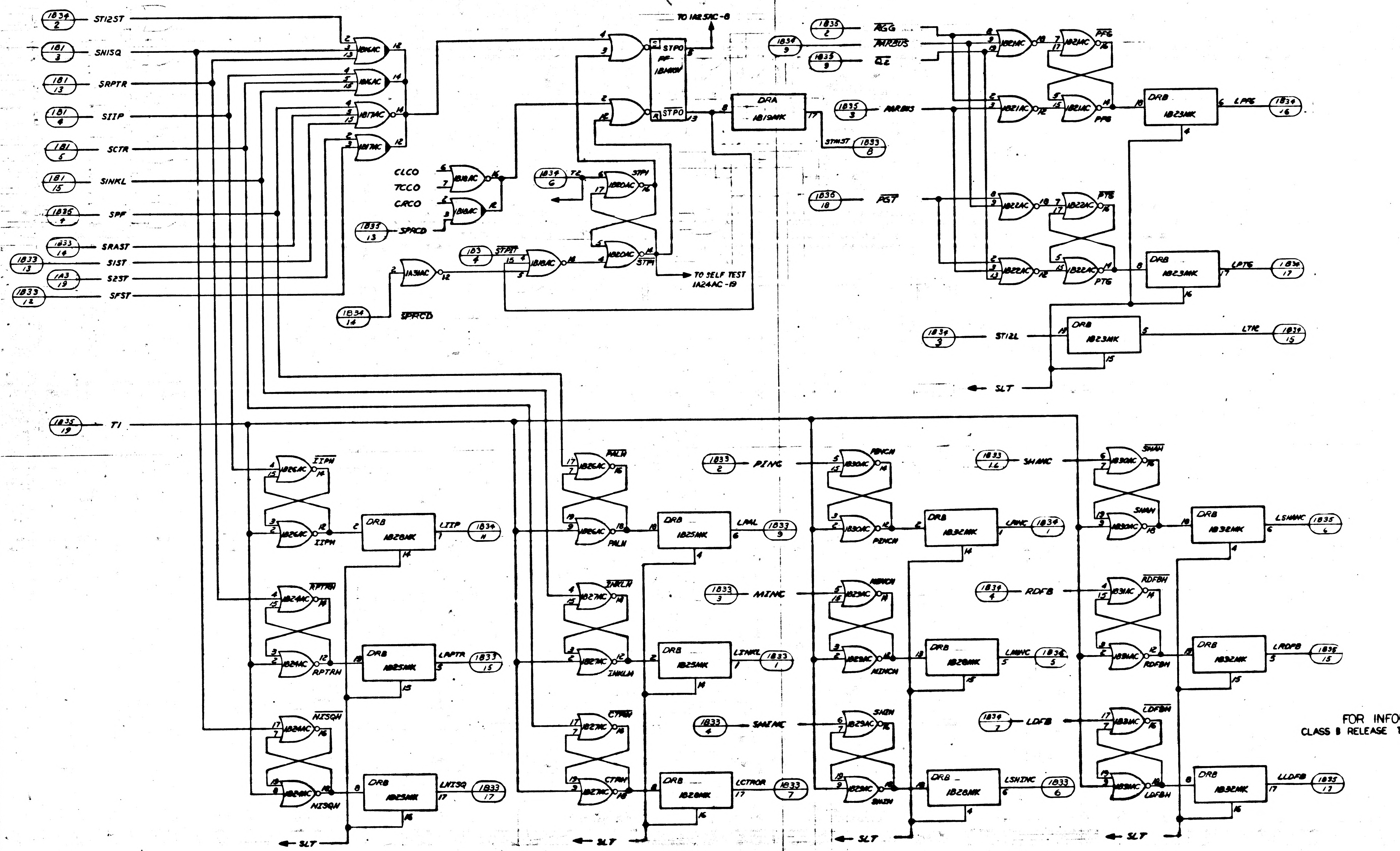
A	CLASS II CHANGE PER RD-R5559 DR R Rosa CHK W. J. Jeffery APPD D. Conley	26 DEC 63	
B	CHANGED PER TDRR 08419 DR Fitzhenry CHK A. Cuppino APP D. Conley	MAY 64	KGB



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SNISQ
SRPTR
SIIP
SCTR
SINKL
SPF
SRAST
S1ST
S2ST
SFST
1B16AC
1B17AC
TO 1A25AC-6
STPO
FF
1B14MH
DRA
1B19MK
STMST
CLCO
TCCO
CRCO
SPRCD
1B18AC
1B20AC
T2
STP1
1A31AC
TO SELF TEST 1A24AC-19
AGG
PARBUS
QZ
PST
1B21AC
1B22AC
PFG
PTG
DRB
1B23MK
LPFG
LPTG
ST12L
LT12
SLT
T1
IIPH
RPTRH
NISQH
1B24AC
1B25AC
1B26AC
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1B28MK
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LRPTR
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PALH
INKLH
CTRH
LPAL
LINKL
LCTROR
PINC
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SHINC
PINCH
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SHANC
RDFB
LDFB
SHAH
RDFBH
LDFBH
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LRDFB
LLDFB

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CLASS B RELEASE TDRR NO. 02643 DATE 21 Aug 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN B. Jensen DATE 2 Aug 63
CHECKED A. Cuppino 5 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET P&M
STOP LOGIC, INCREMENTS
PARITY LOGIC
LD3

CODE IDENT NO. SIZE J NASA DRAWING NO. 1014269
SCALE NONE WT SHEET 1 OF 1

1014269

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SYM	DESCRIPTION	DATE	APPROVED
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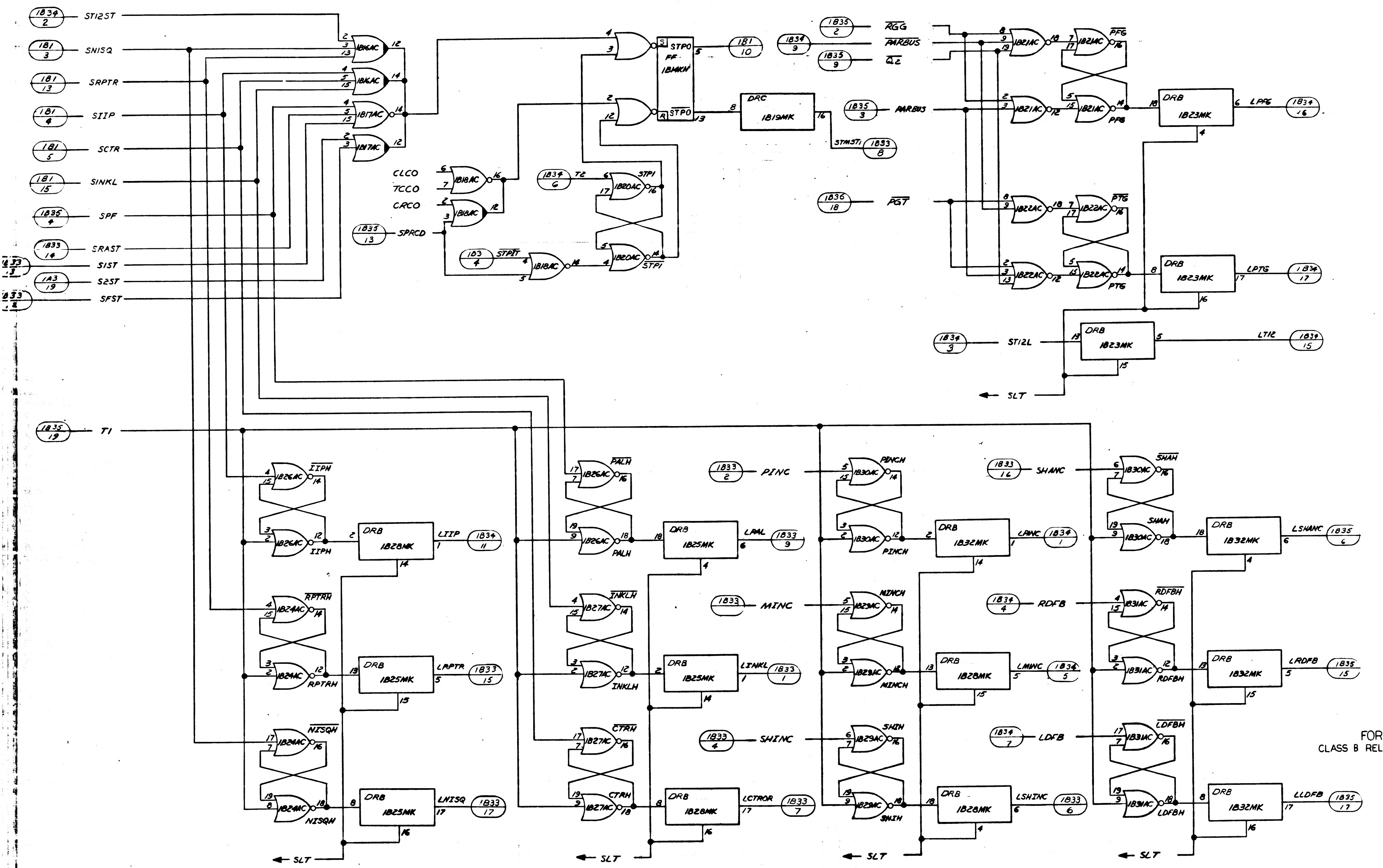
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CLCO
TCCO
CRCO
1B18AC
1835 13 SPRCD
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STMST1
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PINCH
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CLASS B RELEASE TDRR NO. 02643 DATE 2 Aug 63

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LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN B Jensen DATE 23 APR 63
CHECKED 5 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 20 Aug 1963

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
STOP LOGIC, INCREMENTS
PARITY LOGIC
LD3

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014269
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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INCHES
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SYM	REVISIONS DESCRIPTION
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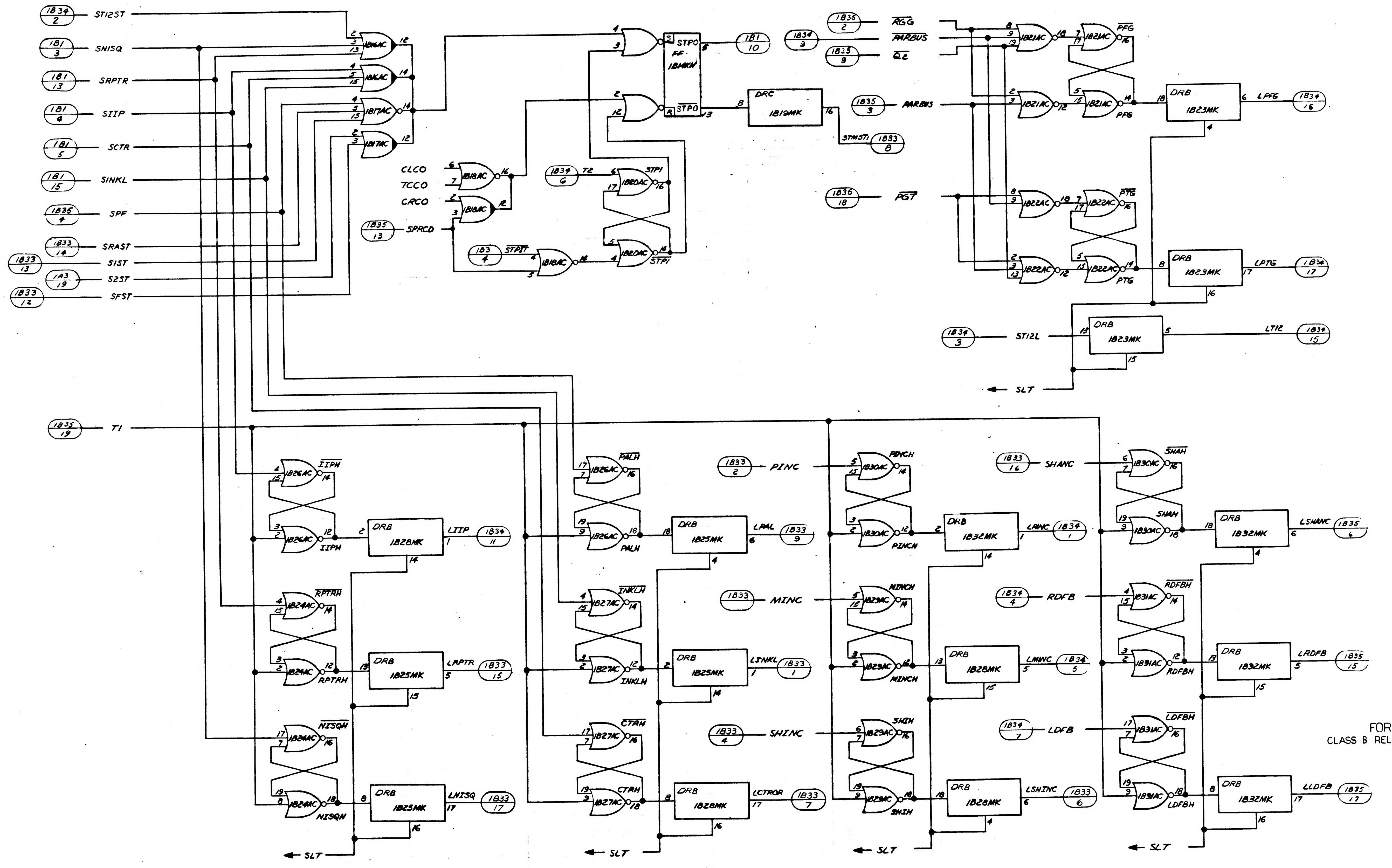

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CLCO
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CRCO
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LIST OF MATERIALS

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RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO NAS 9-498
DRAWN B. Jensen DATE 23 APR 63
CHECKED 5 Aug 63
APPROVAL
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APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAF
HOUSTON TEXA

LOGIC DIAG
COMPUTER TE
STOP LOGIC, INC
PARITY LOGIC

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SCALE NONE WT

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SYM	DESCRIPTION	DATE	APPROVED
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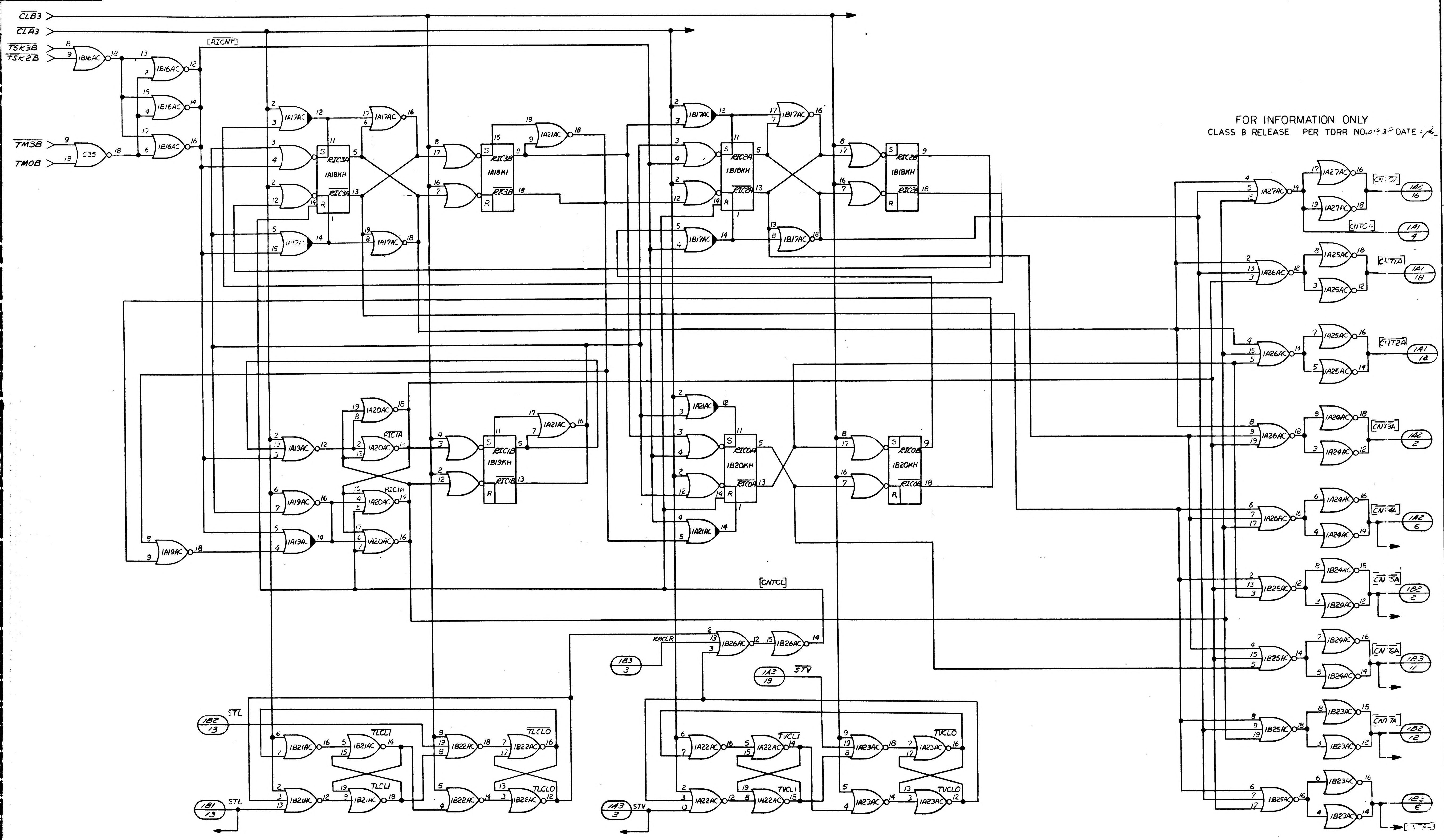
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QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION

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MATERIAL
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-496
DRAWN B.C. Ammsson DATE 25 APR 63
CHECKED 6-12-3
APPROVAL C. S...
APPROVAL
APPROVAL J. Bamdl...
NASA APPROVAL
MIT APPROVAL 7/9/63
MIT APPROVAL 8 July 63

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(REGISTER INPUT COUNTER

CODE IDENT NO. ——— SIZE J NASA DRAWING NO. 1014270
SCALE NONE WT SHEET

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1014270

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SYM	DESCRIPTION
—	CL B RELEASE PER TDRR

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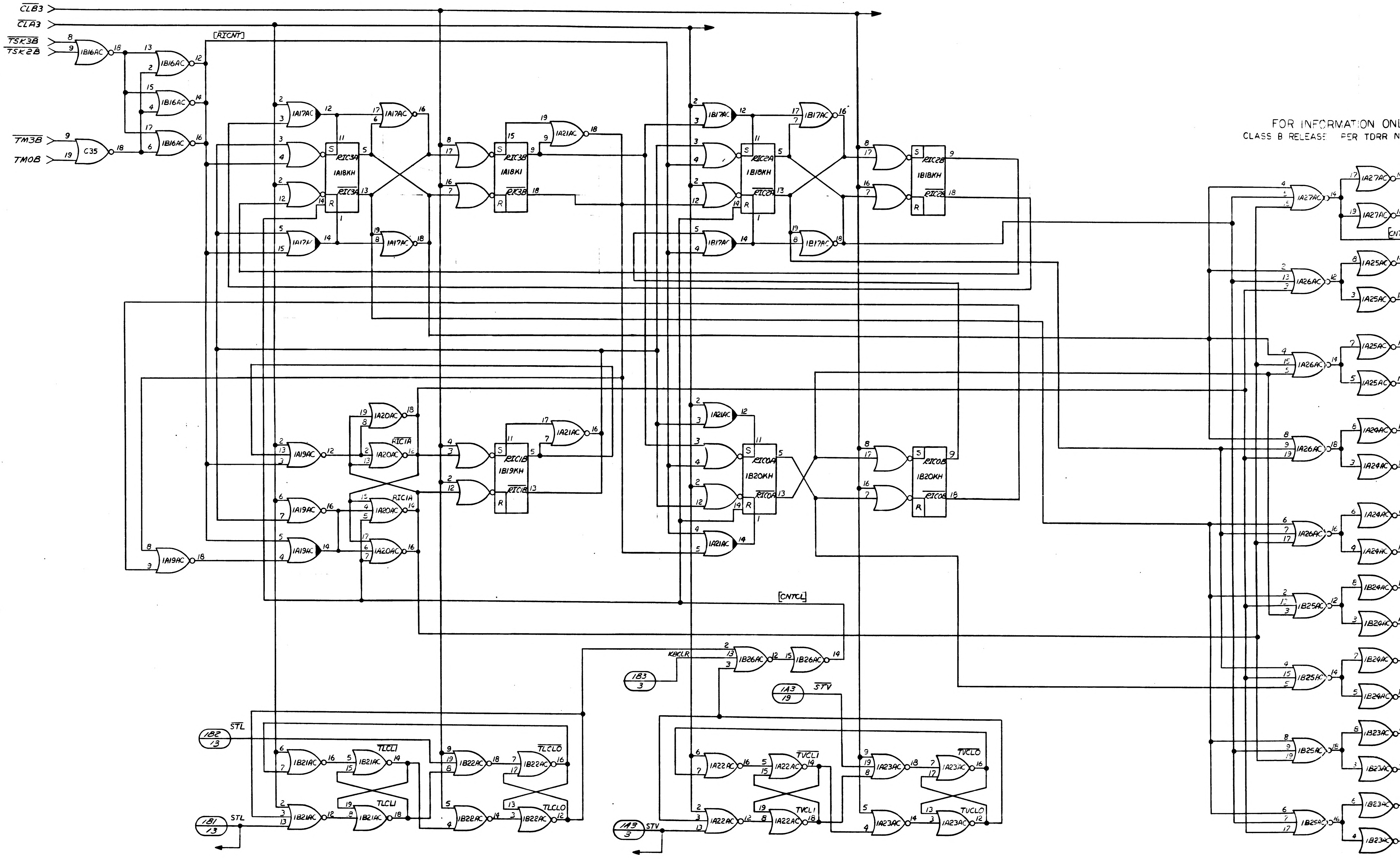

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CLA3
TSK3B
TSK2B
TM3B
TM0B
1B16AC
C35
[RICNT]
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RIC3A
1A18KH
RIC3B
1A18KI
1A21AC
1B17AC
RIC2A
1B18KH
RIC2B
1B18KH
1A27AC
CNT
1A26AC
1A25AC
1A24AC
1B25AC
1B24AC
1B23AC
1A19AC
1A20AC
RIC1A
RIC1B
1B19KH
1A21AC
RIC0A
1B20KH
RIC0B
1B20KH
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1B26AC
1B3
3
1A3
19
STV
1B2
13
STL
1B1
13
1B21AC
TLCL1
1B22AC
TLCL0
1A22AC
TVCL1
1A23AC
TVCL0
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	1014156
NEXT ASSY	USED ON
APPLICATION	

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QTY REQD	PART OR IDENTIFYING NO

LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO NA
DRAWN B.C. Amusson DATE 25 APR 63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPA

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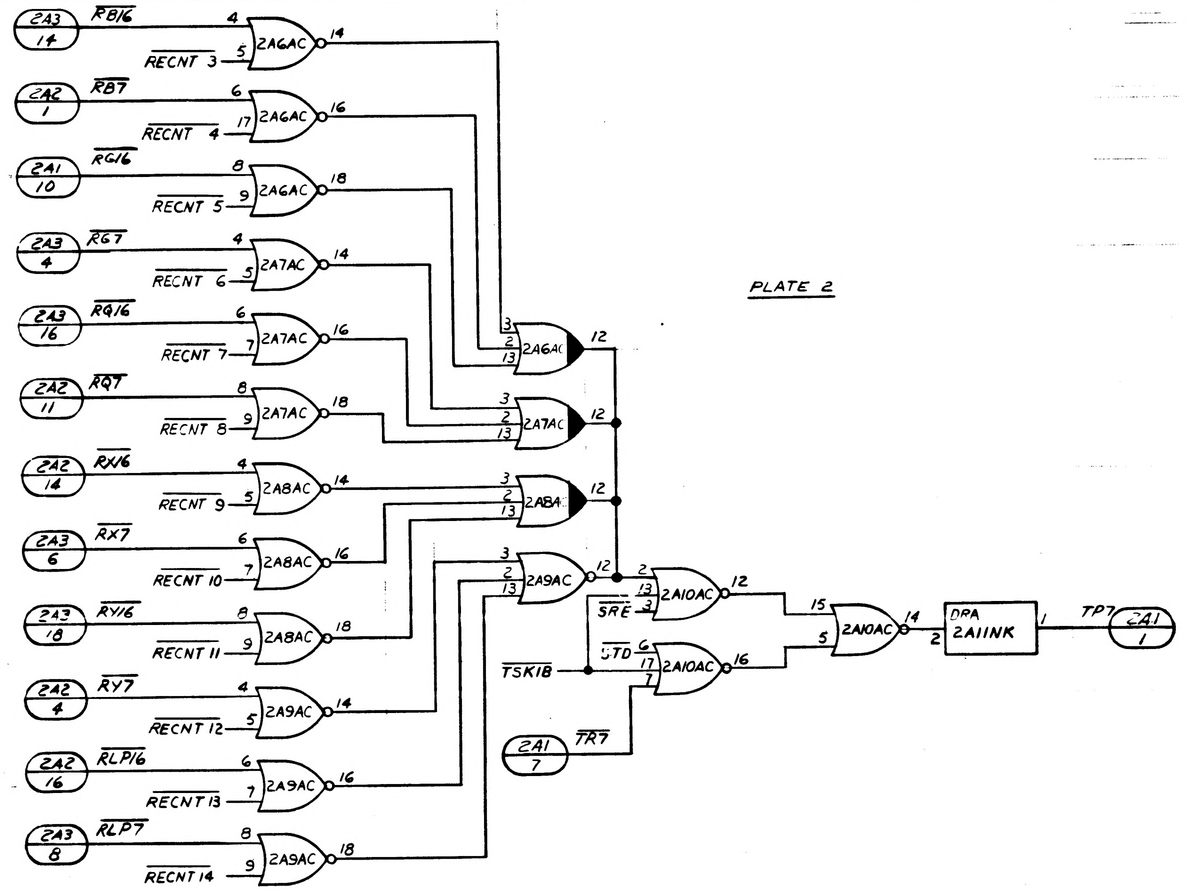
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2A2 1 RB7 6 RECNT 4 17 2A6AC 16
2A1 10 RG16 8 RECNT 5 9 2A6AC 18
2A3 4 RG7 4 RECNT 6 5 2A7AC 14
2A3 16 RQ16 6 RECNT 7 7 2A7AC 16
2A2 11 RQ7 8 RECNT 8 9 2A7AC 18
2A2 14 RX16 4 RECNT 9 5 2A8AC 14
2A3 6 RX7 6 RECNT 10 7 2A8AC 16
2A3 18 RY16 8 RECNT 11 9 2A8AC 18
2A2 4 RY7 4 RECNT 12 5 2A9AC 14
2A2 16 RLP16 6 RECNT 13 7 2A9AC 16
2A3 8 RLP7 8 RECNT 14 9 2A9AC 18
2A6AC 12
2A7AC 12
2A8AC 12
2A9AC 12
SRE 2A10AC 12
TSK1B STD 2A10AC 16
2A1 7 TR7
2A10AC 14
DRA 2A11NK
TP7 2A1 1

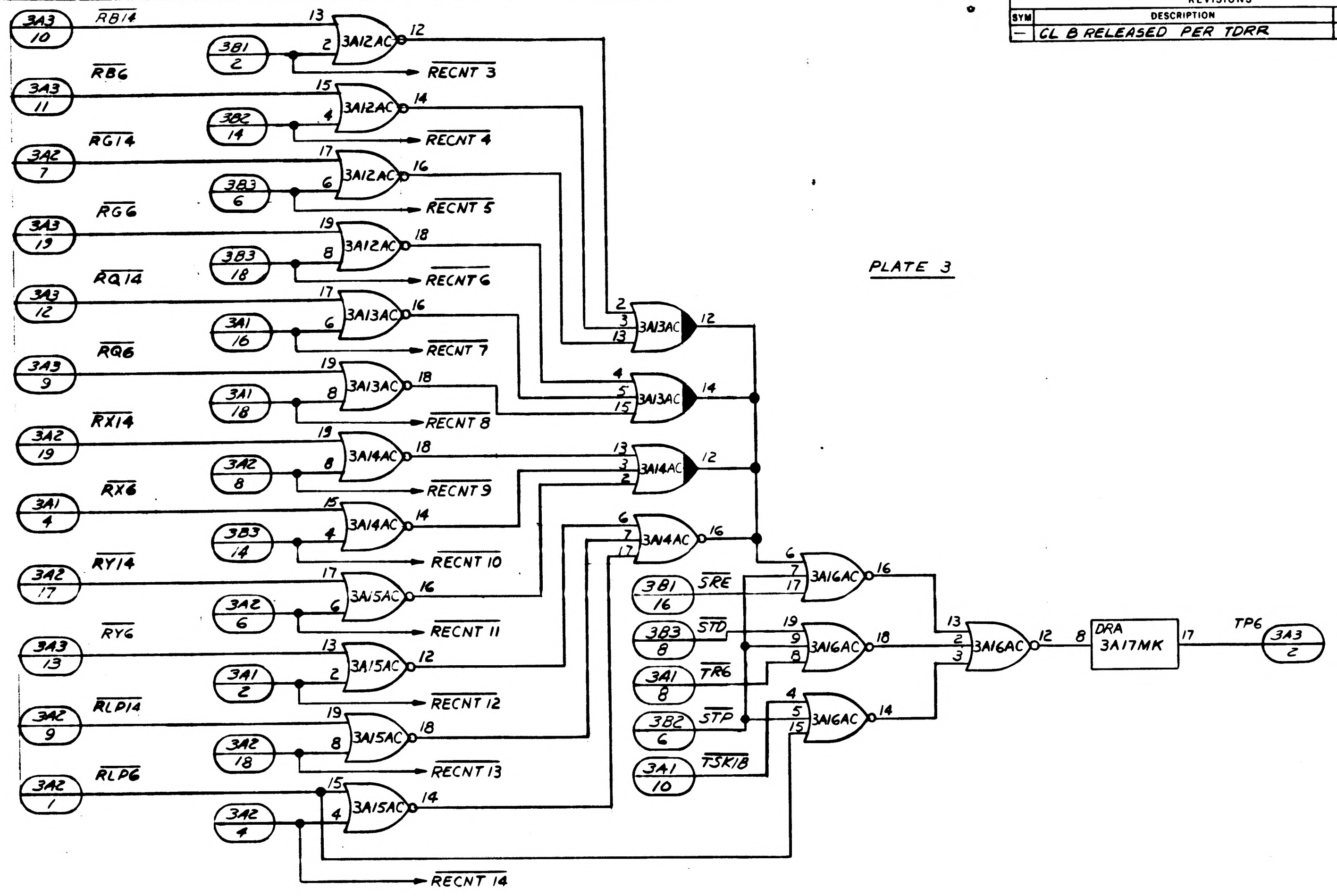
PLATE 3
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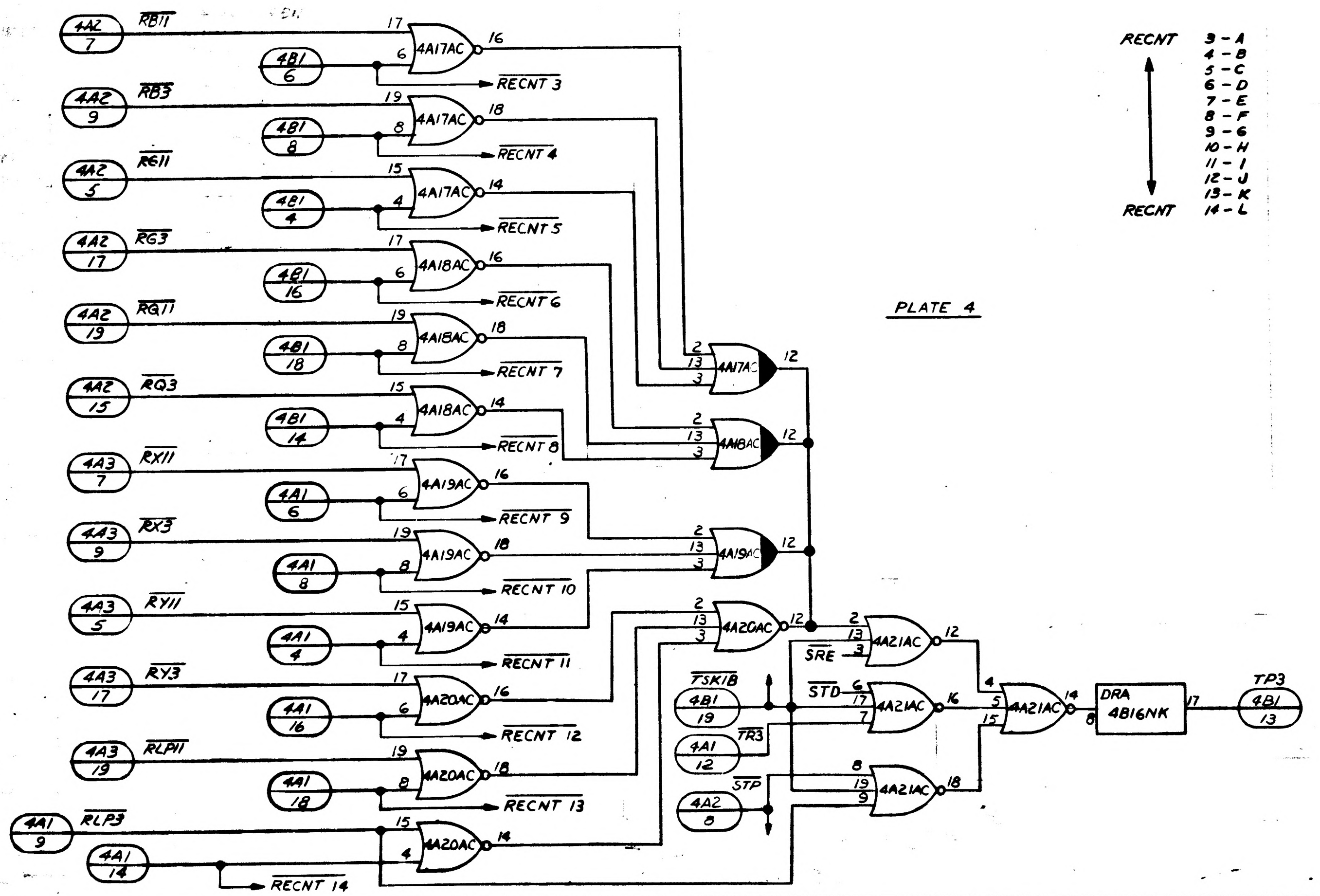
3A3 11 RB6 15 3B2 14 4 3A12AC 14 RECNT 4
3A2 7 RG14 17 3B3 6 6 3A12AC 16 RECNT 5
3A3 13 RG6 19 3B3 18 8 3A12AC 18 RECNT 6
3A3 12 RQ14 17 3A1 16 6 3A13AC 16 RECNT 7
3A3 9 RQ6 19 3A1 18 8 3A13AC 18 RECNT 8
3A2 19 RX14 19 3A2 8 8 3A14AC 18 RECNT 9
3A1 4 RX6 15 3B3 14 4 3A14AC 14 RECNT 10
3A2 17 RY14 17 3A2 6 6 3A15AC 16 RECNT 11
3A3 13 RY6 13 3A1 2 2 3A15AC 12 RECNT 12
3A2 9 RLP14 19 3A2 18 8 3A15AC 18 RECNT 13
3A2 1 RLP6 15 3A2 4 4 3A15AC 14 RECNT 14
3A13AC 12
3A13AC 14
3A14AC 12
3A14AC 16
3B1 16 SRE 3A16AC 16
3B3 8 STD 3A16AC 18
3A1 8 TR6
3B2 6 STP 3A16AC 14
3A1 10 TSK1B
3A16AC 12
DRA 3A17MK
TP6 3A3 2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4A2 9 RB3 19 4B1 8 8 4A17AC 18 RECNT 4
4A2 5 RG11 15 4B1 4 4 4A17AC 14 RECNT 5
4A2 17 RG3 17 4B1 16 6 4A18AC 16 RECNT 6
4A2 19 RQ11 19 4B1 18 8 4A18AC 18 RECNT 7
4A2 15 RQ3 15 4B1 14 4 4A18AC 14 RECNT 8
4A3 7 RX11 17 4A1 6 6 4A19AC 16 RECNT 9
4A3 9 RX3 19 4A1 8 8 4A19AC 18 RECNT 10
4A3 5 RY11 15 4A1 4 4 4A19AC 14 RECNT 11
4A3 17 RY3 17 4A1 16 6 4A20AC 16 RECNT 12
4A3 19 RLP11 19 4A1 18 8 4A20AC 18 RECNT 13
4A1 9 RLP3 15 4A1 14 4 4A20AC 14 RECNT 14
4A17AC 12
4A18AC 12
4A19AC 12
4A20AC 12
SRE 4A21AC 12
TSK1B 4B1 19 STD 4A21AC 16
4A1 12 TR3
4A2 8 STP 4A21AC 18
4A21AC 14
DRA 4B16NK
TP3 4B1 13

RECNT 3 - A
4 - B
5 - C
6 - D
7 - E
8 - F
9 - 6
10 - H
11 - 1
12 - J
13 - K
RECNT 14 - L

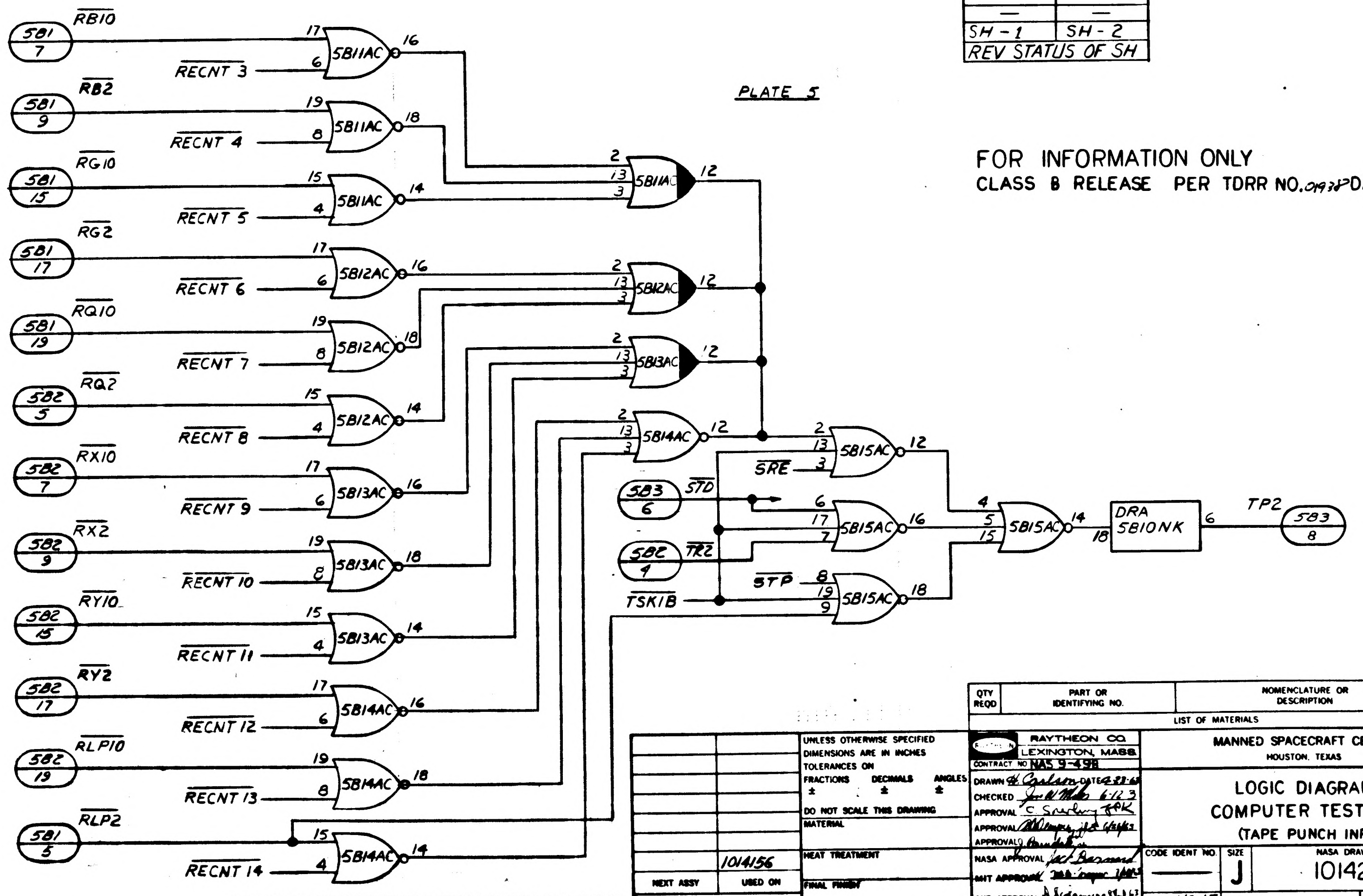
PLATE 5
5B1 7 RB10 17 RECNT 3 6 5B11AC 16
5B1 9 RB2 19 RECNT 4 8 5B11AC 18
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5B1 17 RG2 17 RECNT 6 6 5B12AC 16
5B1 19 RQ10 19 RECNT 7 8 5B12AC 18
5B2 3 RQ2 15 RECNT 8 4 5B12AC 14
5B2 7 RX10 17 RECNT 9 6 5B13AC 16
5B2 9 RX2 19 RECNT 10 8 5B13AC 18
5B2 15 RY10 15 RECNT 11 4 5B13AC 14
5B2 17 RY2 17 RECNT 12 6 5B14AC 16
5B2 13 RLP10 19 RECNT 13 8 5B14AC 18
5B1 5 RLP2 15 RECNT 14 4 5B14AC 14
5B11AC 12
5B12AC 12
5B13AC 12
5B14AC 12
SRE 5B15AC 12
5B3 6 STD 5B15AC 16
5B2 4 TR2
TSK1B STP 5B15AC 18
5B15AC 14
DRA 5B10NK
TP2 5B3 8

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SH - 1	SH - 2
REV STATUS OF SH	

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 4-23-63
CHECKED Joe W. Mills 6-12-63
APPROVAL C. Snerling
APPROVAL
APPROVAL
NASA APPROVAL Jack Barnard
MIT APPROVAL
MIT APPROVAL D. Scitamero 8 Jul 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

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CODE IDENT NO. —
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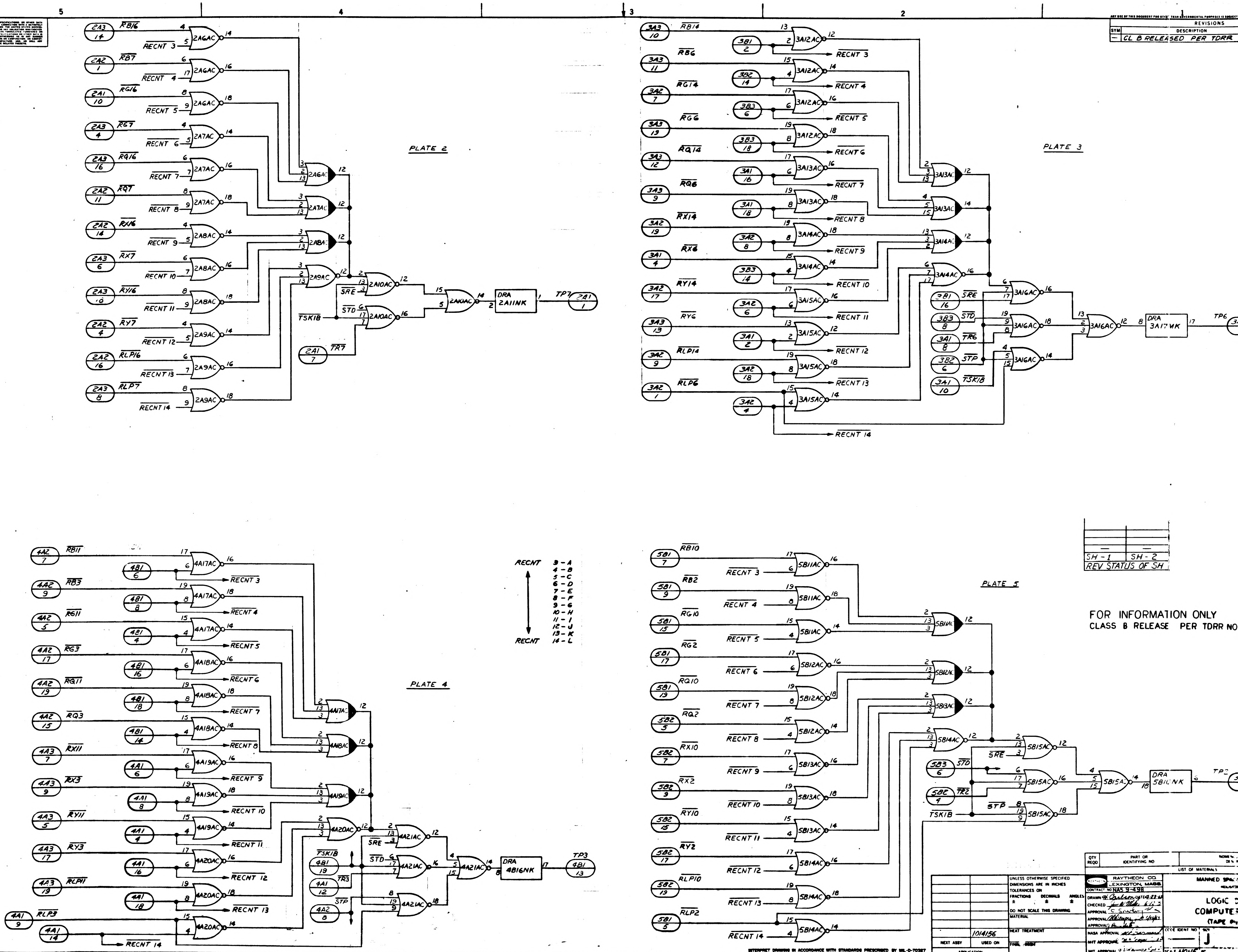
PLATE 2
PLATE 3
PLATE 4
PLATE 5
RECNT 3 - A
4 - B
5 - C
6 - D
7 - E
8 - F
9 - G
10 - H
11 - I
12 - J
13 - K
14 - L
RECNT
DRA 2A11NK
TP7
DRA 3A17NK
TP6
DRA 4B16NK
TP3
DRA 5B16NK
TP2
SRE
STD
TSKIB
TR7
TR6
TR3
TR2
STP

—	—
SH - 1	SH - 2
REV STATUS OF SH	

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 4-23-63
CHECKED Jon W Miller 6-12-3
APPROVAL C. Sperling
APPROVAL
APPROVAL J. Bundy
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

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LOGIC D
COMPUTE
(TAPE

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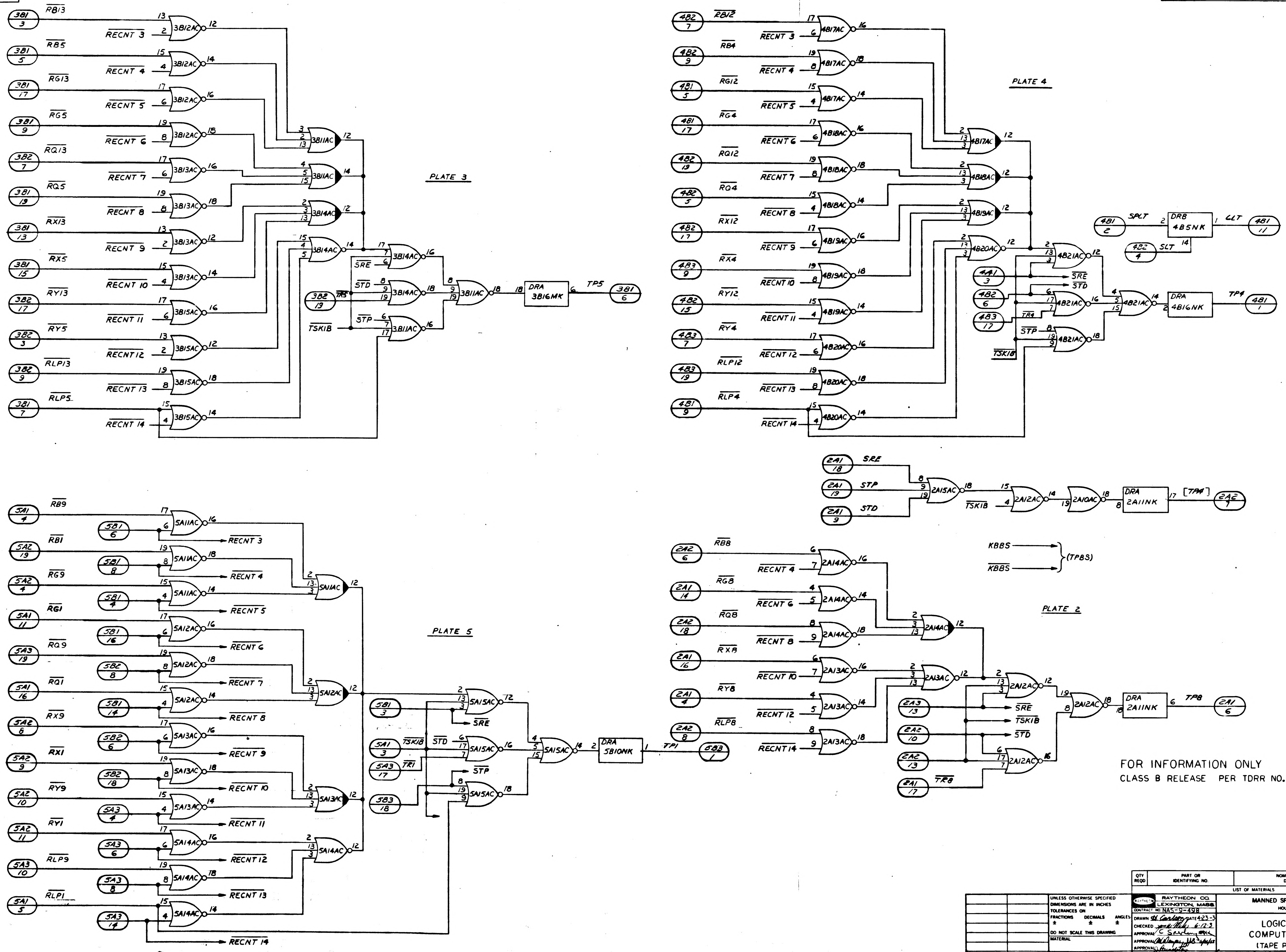
PLATE 3
PLATE 4
PLATE 5
PLATE 2
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3B1 5 RB5 RECNT 4 3B12AC
3B1 17 RG13 RECNT 5 3B12AC
3B1 9 RG5 RECNT 6 3B12AC
3B2 7 RQ13 RECNT 7 3B13AC
3B1 19 RQ5 RECNT 8 3B13AC
3B1 13 RX13 RECNT 9 3B13AC
3B1 15 RX5 RECNT 10 3B13AC
3B2 17 RY13 RECNT 11 3B15AC
3B2 3 RY5 RECNT 12 3B15AC
3B2 9 RLP13 RECNT 13 3B15AC
3B1 7 RLP5 RECNT 14 3B15AC
3B11AC 3B11AC 3B14AC 3B14AC
3B14AC 3B14AC 3B11AC 3B11AC
SRE STD STP TR5 TSKIB 3B2 19
DRA 3B16MK TP5 3B1 6
4B2 7 RB12 RECNT 3 4B17AC
4B2 9 RB4 RECNT 4 4B17AC
4B1 5 RG12 RECNT 5 4B17AC
4B1 17 RG4 RECNT 6 4B18AC
4B2 19 RQ12 RECNT 7 4B18AC
4B2 5 RQ4 RECNT 8 4B18AC
4B2 17 RX12 RECNT 9 4B19AC
4B3 9 RX4 RECNT 10 4B19AC
4B2 15 RY12 RECNT 11 4B19AC
4B3 7 RY4 RECNT 12 4B20AC
4B3 19 RLP12 RECNT 13 4B20AC
4B1 9 RLP4 RECNT 14 4B20AC
4B17AC 4B18AC 4B19AC 4B20AC
4B21AC 4B21AC 4B21AC 4B21AC
4A1 3 4B2 6 4B3 17 SRE STD TR4 STP TSKIB
4B1 2 SPLT DRB 4B5NK CLT 4B1 11
4B2 4 SLT
DRA 4B16NK TP4 4B1 1
2A1 18 SRE
2A1 19 STP
2A1 9 STD
2A15AC TSKIB 2A12AC 2A10AC DRA 2A11NK [TP4] 2A2 7
KBBS KBBS (TPBS)
2A2 6 RB8 RECNT 4 2A14AC
2A1 14 RG8 RECNT 6 2A14AC
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2A1 16 RX8 RECNT 10 2A13AC
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2A14AC 2A13AC 2A12AC 2A12AC 2A12AC
2A3 13 2A2 10 2A2 13 2A1 17 TR8
SRE TSKIB STD
DRA 2A11NK TP8 2A1 6
5A1 4 RB9 5B1 6 5A11AC RECNT 3
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5A2 4 RG9 5B1 4 5A11AC RECNT 5
5A1 11 RG1 5B1 16 5A12AC RECNT 6
5A3 19 RQ9 5B2 8 5A12AC RECNT 7
5A1 16 RQ1 5B1 14 5A12AC RECNT 8
5A2 6 RX9 5B2 6 5A13AC RECNT 9
5A2 9 RX1 5B2 18 5A13AC RECNT 10
5A2 10 RY9 5A3 4 5A13AC RECNT 11
5A2 11 RY1 5A3 6 5A14AC RECNT 12
5A3 10 RLP9 5A3 8 5A14AC RECNT 13
5A1 5 RLP1 5A3 14 5A14AC RECNT 14
5A11AC 5A12AC 5A13AC 5A14AC
5B1 3 5A1 3 5A3 17 5B3 18
TSKIB STD TR1 SRE STP
5A15AC 5A15AC 5A15AC 5A15AC
DRA 5B10NK TP1 5B3 1

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LIST OF MATERIALS

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN H. Carlson DATE 4-23-3
CHECKED Miller 6-12-3
APPROVAL C Searly
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 7/8/63
MIT APPROVAL 8 Jul '63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
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CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014271
SCALE NONE WT SHEET 2 OF 2

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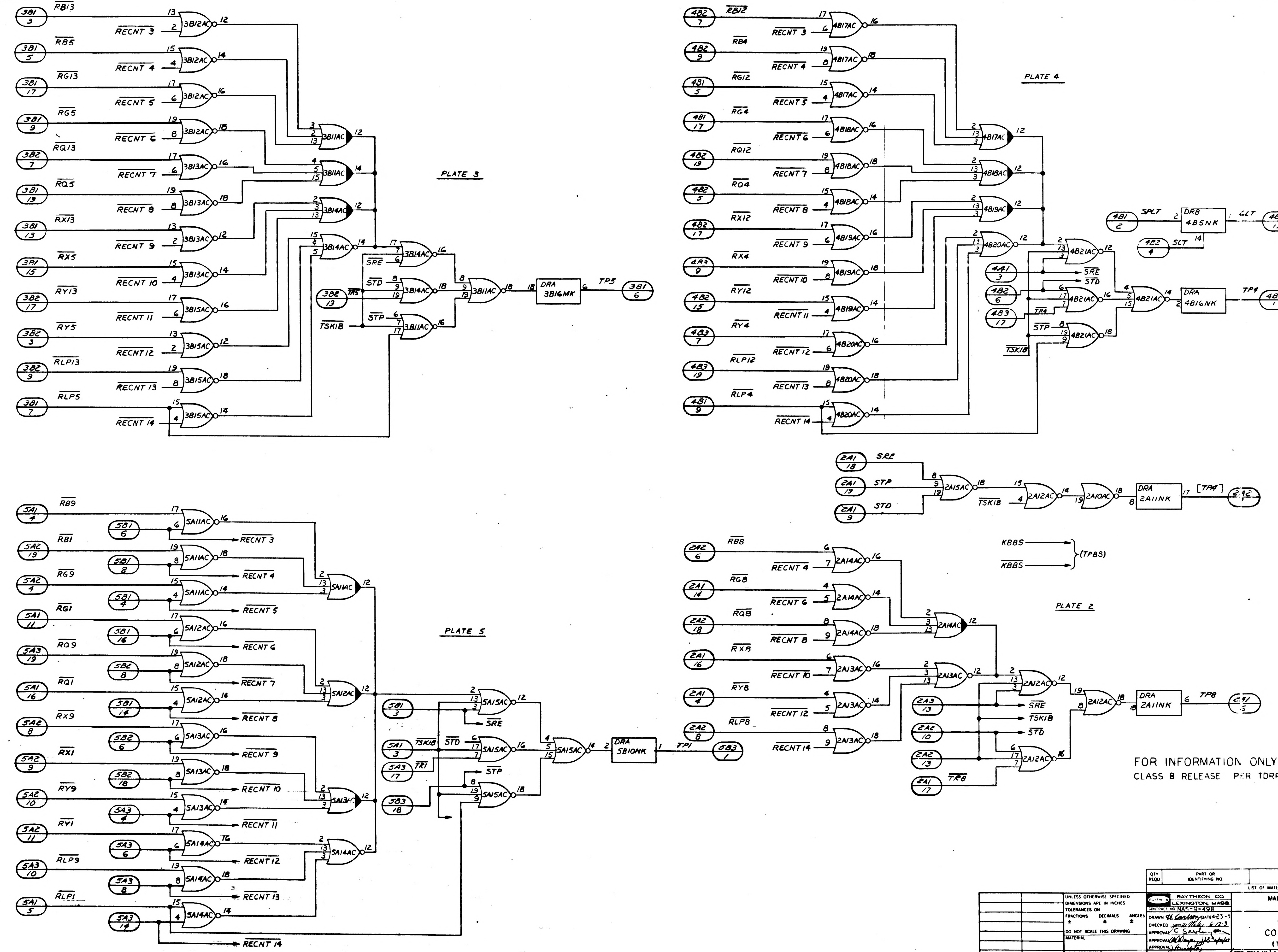
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PLATE 4
PLATE 5
PLATE 2
3B12AC
3B13AC
3B14AC
3B15AC
3B11AC
3B16MK
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TP5
RECNT 3
RECNT 4
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RECNT 7
RECNT 8
RECNT 9
RECNT 10
RECNT 11
RECNT 12
RECNT 13
RECNT 14
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RB5
RG13
RG5
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STD
STP
TSK1B
TRS
4B17AC
4B18AC
4B19AC
4B20AC
4B21AC
4B5NK
4B16NK
DRB
SPLT
SLT
TP4
TR4
RB12
RB4
RG12
RG4
RQ12
RQ4
RX12
RX4
RY12
RY4
RLP12
RLP4
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2A10AC
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KBBS
(TPBS)
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RQ8
RX8
RY8
RLP8
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5A13AC
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5B10NK
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TR1
RB9
RB1
RG9
RG1
RQ9
RQ1
RX9
RX1
RY9
RY1
RLP9
RLP1
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LIST OF MATERIALS		

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN H. Carlson DATE 4-23-3
CHECKED Miller 6-12-3
APPROVAL C Sarling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

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HOUSTON
LOGIC D
COMPUTER
(TAPE PUN
CODE IDENT NO
SIZE J
SCALE NONE
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1014289

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SYM	DESCRIPTION	DATE	APPROVED
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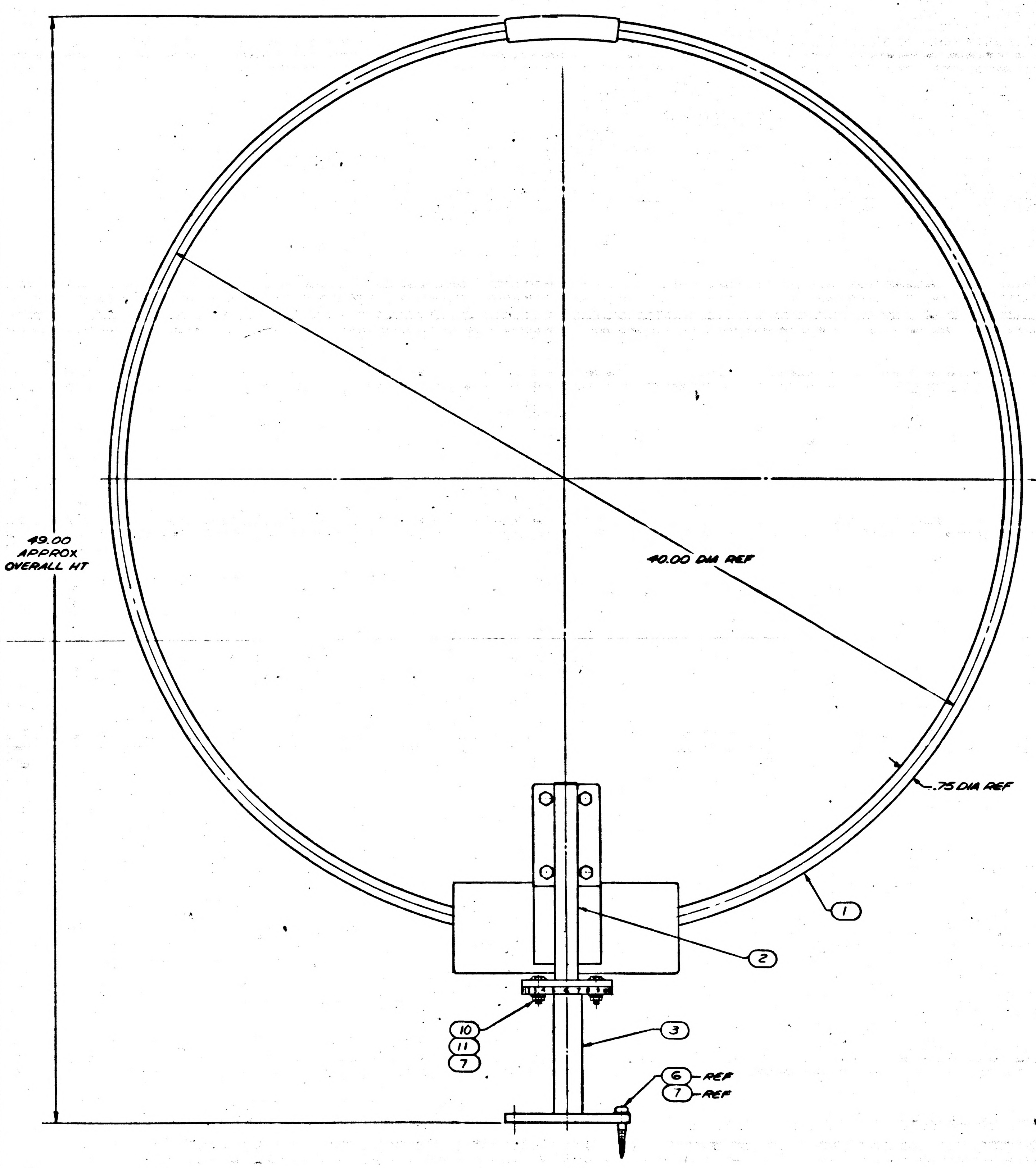
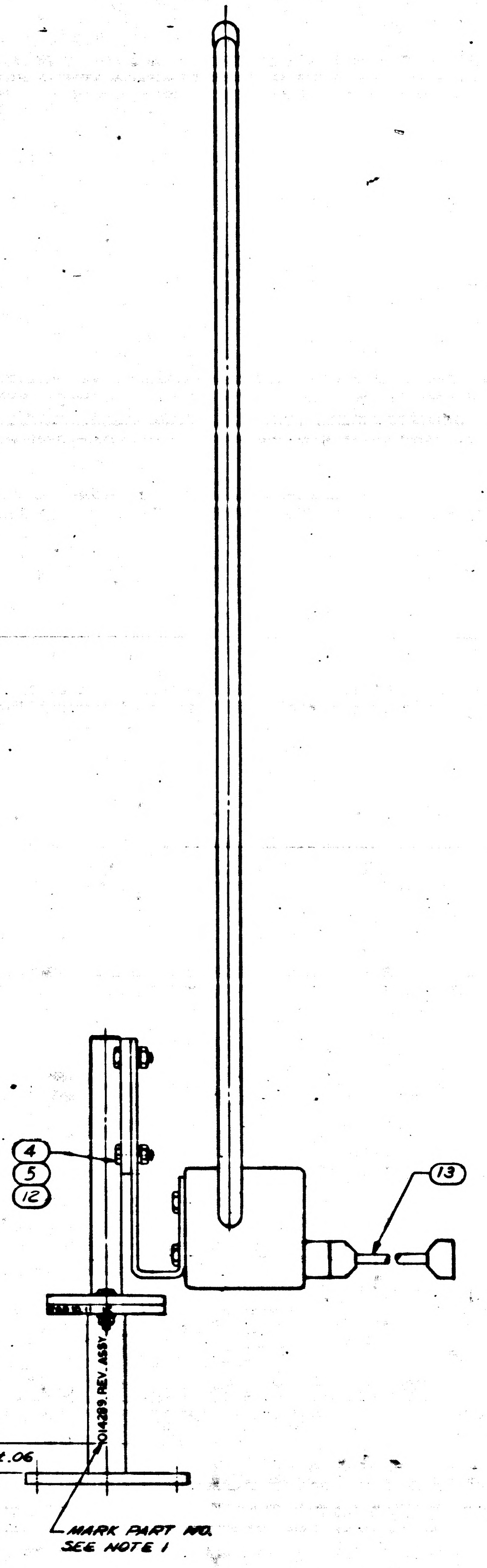
A	CLASS II CHANGE PER RD-R5305B CHK APPD	30 AUG 63	
B	CHANGED PER TDRR 09742 DR. R. CHK APPD	9 JUNE 64	





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CLASS B RELEASE TDRR NO 01940 DATE 10 July 63

NOTES
1. MARK .12 HIGH BLACK CHARACTERS PER ND1002019
2. FINDS 6 & 7 TO BE INSTALLED AT INSTALLATION OF ANTENNA

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014001-10	CABLE ASSY	13
4	MS35307-34	SCREW CAP HEX HD	12
2	MS35338-82	WASHER, LOCK SPLIT	11
2	MS35690-410	NUT	10
~~2~~	~~MS35188-66E~~	~~PLUG~~	~~9~~
~~150'~~	~~RG58C/U~~	~~CABLE, COAX MIL-C-17/28~~	~~8~~
6	MS15795-310	WASHER, FLAT	7
4	MS16233-3	BOLT, LAG SQUARE HD	6
4	MS35690-510	NUT PLAIN HEX	5
4	MS35337-83	WASHER, LOCK SPLIT	4
1	1014364	ANTENNA MOUNTING ASSY BASE	3
1	1014305	ANTENNA MOUNTING ASSY	2
1	1006871	ANTENNA	1

LIST OF MATERIALS

NEXT ASSY	USED ON
NONE	

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HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN C.A. Barrett DATE 24MAY63
CHECKED Q.R. Boyer 22MAY63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ANTENNA INSTALLATION KIT
ASSEMBLY

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014289
SCALE 1/2 WT SHEET 1 OF 1

[illegible] DRAWING IS IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014289

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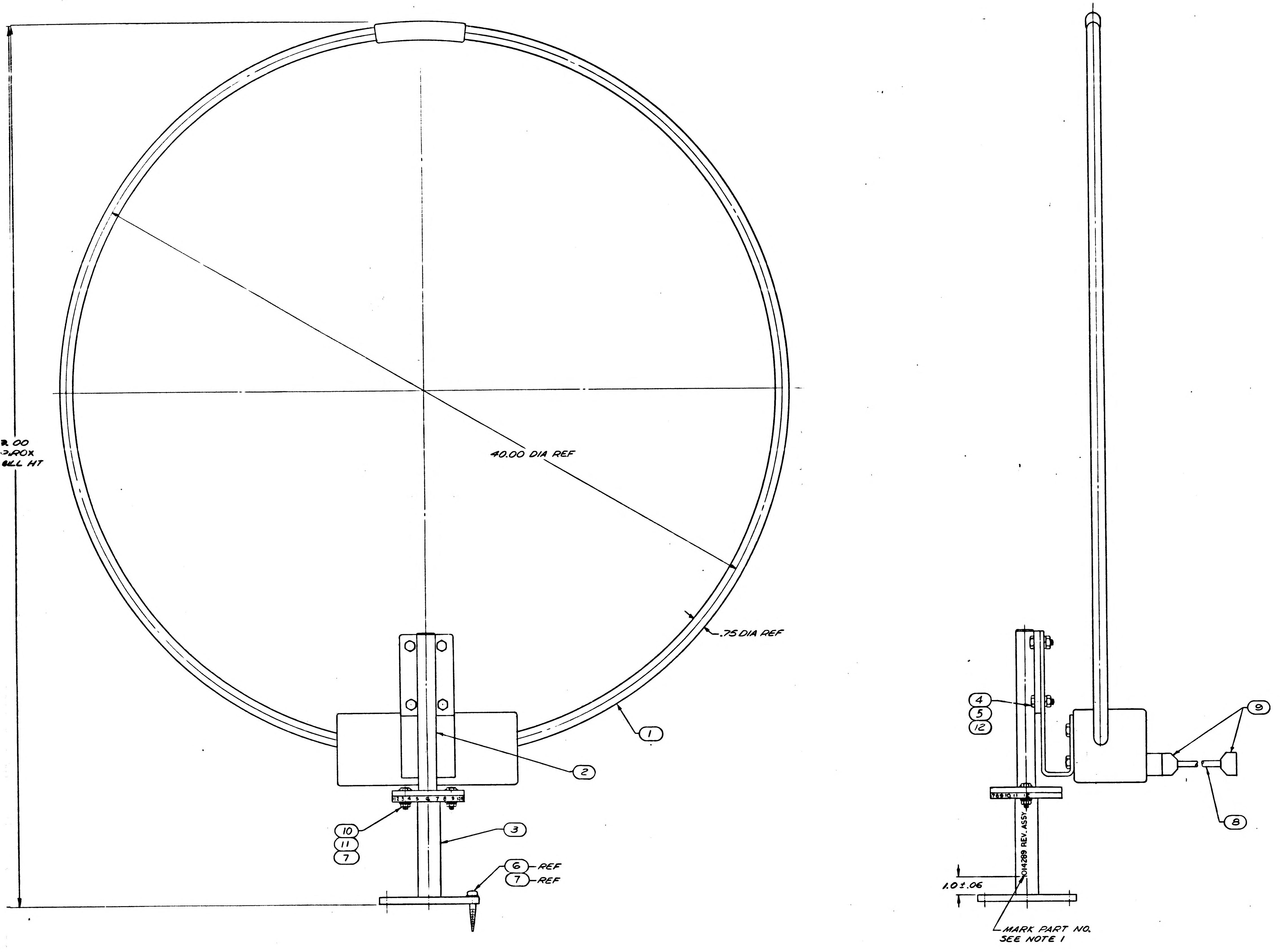
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 01940 DATE 10 July 63

NOTES
1. MARK .12 HIGH BLACK CHARACTERS PER ND1002019
2. FINDS 6 & 7 TO BE INSTALLED AT INSTALLATION OF ANTENNA

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	MS35307-34	SCREW CAP HEX HD	12
2	MS35338-82	WASHER, LOCK SPLIT	11
2	MS35690-410	NUT	10
2	MS35168-88E	PLUG	9
150'	RG-58C/U	CABLE, COAX, MIL-C-17/28	8
6	MS15795-310	WASHER, FLAT	7
4	MS16233-3	BOLT, LAG SQUARE HD	6
4	MS35690-510	NUT PLAIN HEX	5
4	MS35337-83	WASHER, LOCK SPLIT	4
1	1014364-1	ANTENNA MOUNTING ASSY BASE	3
1	1014305-1	ANTENNA MOUNTING ASSY	2
1	1006871	ANTENNA	1

LIST OF MATERIALS

NEXT ASSY	USED ON
NONE	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN C A Barrett DATE 24 MAY 63
CHECKED G.R. Bogan 20 JUN 63
APPROVAL C. Sperling
APPROVAL
APPROVAL
NASA APPROVAL Jack Barnard
MIT APPROVAL M. Meyer 7/9/63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ANTENNA INSTALLATION KIT
ASSEMBLY

CODE IDENT NO —
SIZE J
NASA DRAWING NO. 1014289
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014289

INCHES
PHOTOGRAPHIC SCALE ONLY

F-2

1014289

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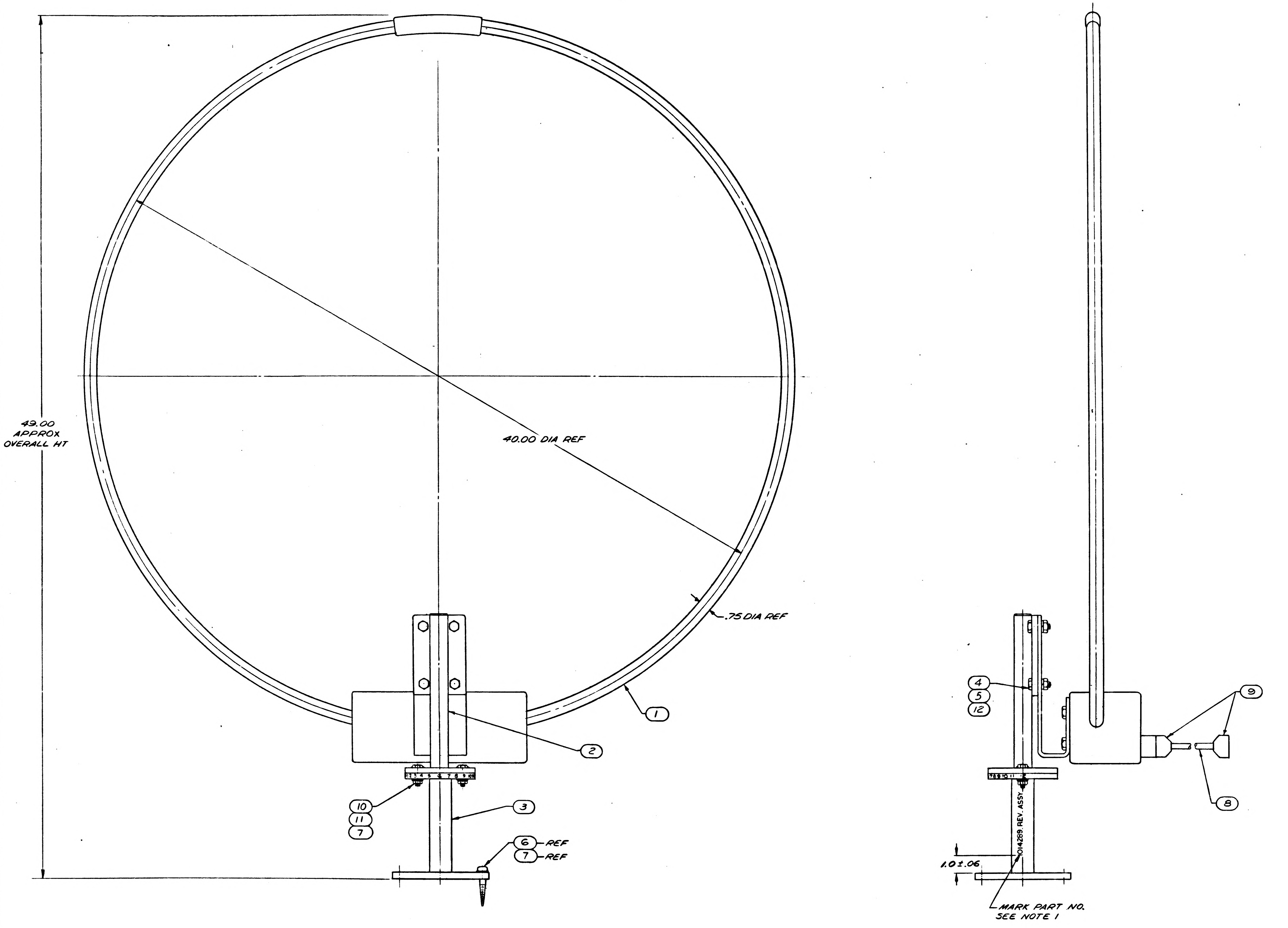
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS

	REVISIONS
SYM	DESCRIPTION
—	CL B RELEASED PER TDRR



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 01940 DATE

NOTES
1. MARK .12 HIGH BLACK CHARACTERS PER ND1002019
2. FINDS 6 & 7 TO BE INSTALLED AT INSTALLATION OF ANTENNA

QTY REQD	PART OR IDENTIFYING NO	
4	MS35307-34	SCREW CAP
2	MS35338-82	WASHER, LO
2	MS35690-410	NUT
2	MS35168-885	PLUG
150'	RG-58C/U	CABLE, COAX,
6	MS15795-310	WASHER, FLA
4	MS16233-3	BOLT, LAG SC
4	MS35690-510	NUT PLA [illegible]
4	MS35337-83	WASHER LOC
1	1014364-1	ANTENNA MOU
1	1014305-1	ANTENNA M
1	1006871	ANTENNA

LIST OF MATERIALS

NONE	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN CABarrett DATE 24MAY63
CHECKED G.R. Bogu 20JUN63
APPROVAL C Sparling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPAC

ANTENNA INSTA
ASSEM

CODE IDENT NO —
SIZE J
SCALE 1/2 WT

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014289

INCHES
PHOTOGRAPHIC SCALE ONLY

NOTICE – WHEN GOVERNMENT DRAWINGS SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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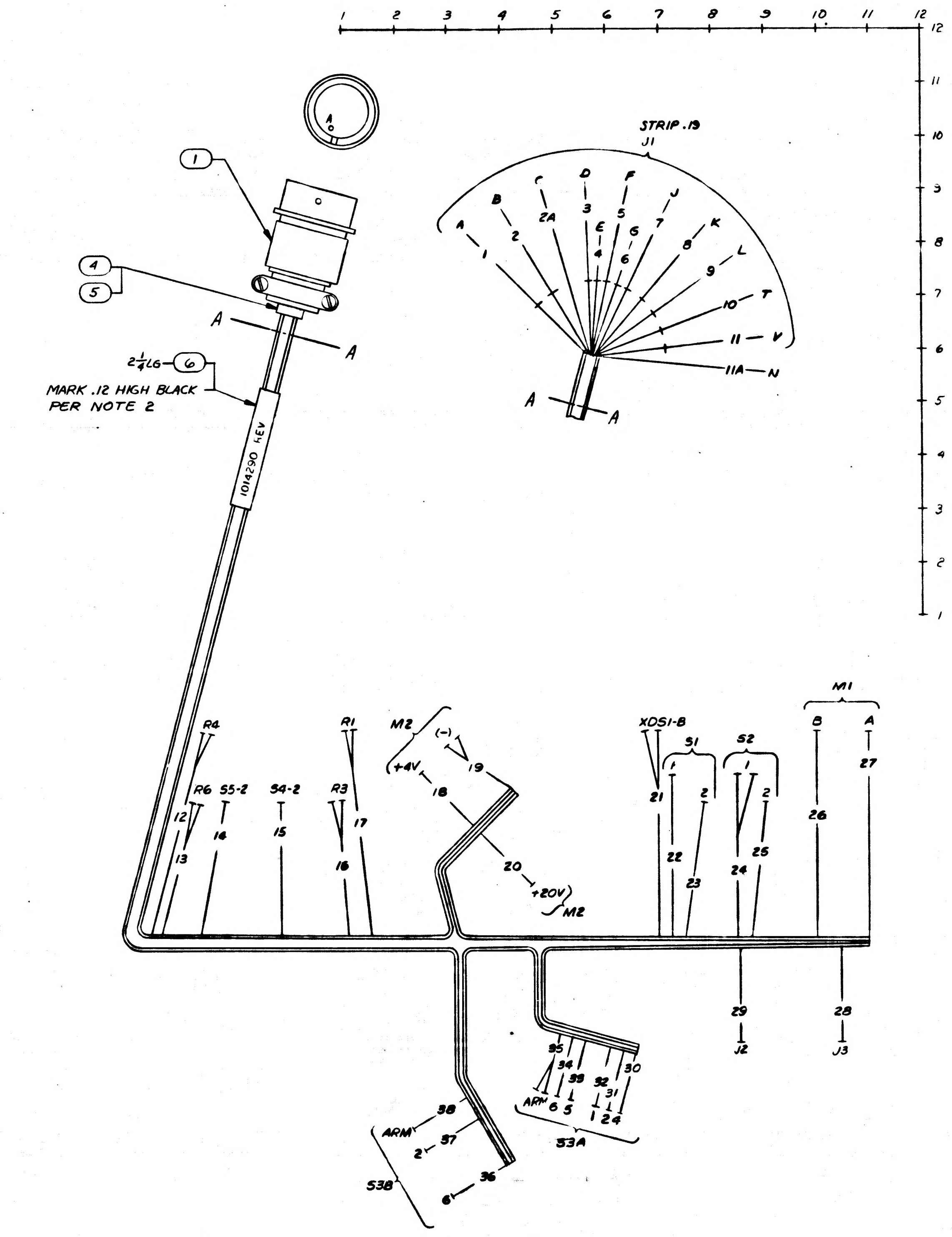
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 1601	6/14/63	E.E.C.

ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	4	BLK	22	2	21	
	21				26	
	11A				13	
	13				16	
	16				19	
	19				28	
	27	WHT	22	3	23	
	24				2	
	2A				23	
	22				3	
	5				32	
	31				6	
	7				30	
	33				17	
	17				12	
	12				8	
	9				34	
	1				25	
	37				18	
	36				20	
	15				10	
	11				14	
	29				[illegible]	
	35				38	


1
4
5
A
A
2¼LG
6
MARK .12 HIGH BLACK PER NOTE 2
1014290 REV
STRIP .19
J1
A B C D F J K L T V N
1 2 2A 3 E 4 5 G 6 7 8 9 10 11 11A
A
A
R4
R6
S5-2
S4-2
R3
R1
12
13
14
15
16
17
M2
(−)
+4V
18
19
20
+20V
M2
XDS1-B
S1
S2
1
2
21
22
23
24
25
M1
B
A
26
27
29
J2
28
J3
35
34
33
32
31
30
ARM 6 5 1 2 4
S3A
38
ARM
37
2
36
6
S3B
1 2 3 4 5 6 7 8 9 10 11 12

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 1601 DATE 6/14/63

NOTES
1. FOR SYMBOLS, FABRICATION & REQD TESTS SEE ND 1002032
2 MARK PER ND 1002019
3. MIL-I-631 TYPE F, FORM U_a, GRADE a, CATEGORY I AWG 3

AR	SEE NOTE 3	INSULATION, SLEEVING	6
1	AN3420-8	BUSHING	5
1	AN 3420-6	BUSHING	4
AR	MIL-W-16878/4E22 WHT	WIRE ELECTRICAL	3
AR	MIL-W-16878/4E22 BLK	WIRE, ELECTRICAL	2
1	MS3120F-22-55P	CONNECTOR	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014139	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE
CHECKED 12 MAY 63
APPROVAL 10 JUNE 63
APPROVAL JUN-10-63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 6/13/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
PWR CONT PNL

CODE IDENT NO —
SIZE F
NASA DRAWING NO 1014290
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

1014290

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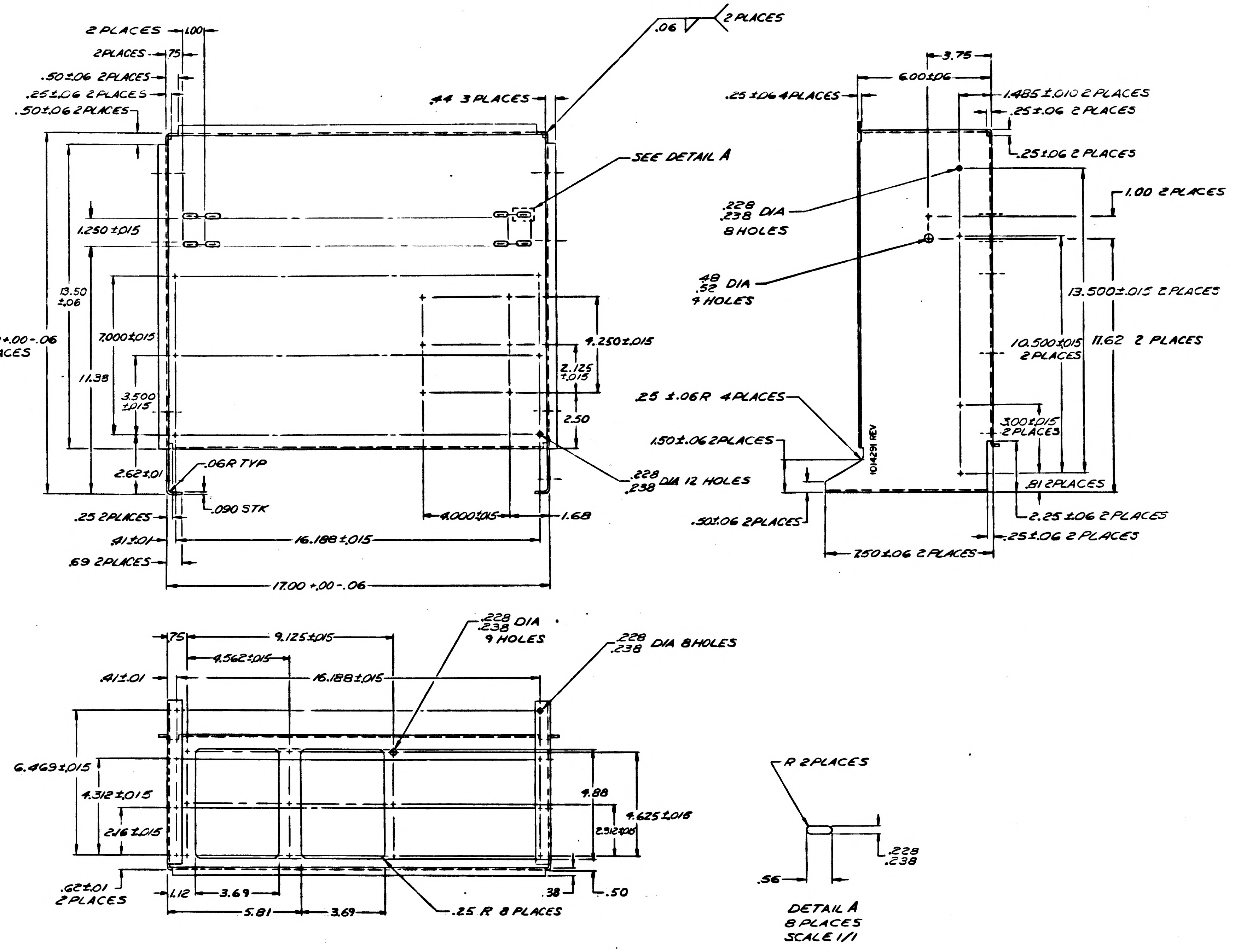
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 1601	[illegible]	[illegible]



2 PLACES 1.00
2 PLACES .75
.50±.06 2 PLACES
.25±.06 2 PLACES
.50±.06 2 PLACES
.44 3 PLACES
.06 2 PLACES
SEE DETAIL A
1.250±.015
13.50 ±.06
16.00+.00-.06 2 PLACES
7.000±.015
11.38
3.500 ±.015
2.62±.01
.06R TYP
.090 STK
.25 2 PLACES
.41±.01
.69 2 PLACES
16.188±.015
17.00+.00-.06
4.250±.015
2.125 ±.015
2.50
4.000±.015
1.68
.228 .238 DIA 12 HOLES
3.75
6.00±.06
.25±.06 4 PLACES
1.485±.010 2 PLACES
.25±.06 2 PLACES
.25±.06 2 PLACES
.228 .238 DIA 8 HOLES
1.00 2 PLACES
.48 .52 DIA 4 HOLES
13.500±.015 2 PLACES
10.500±.015 2 PLACES
11.62 2 PLACES
.25±.06R 4 PLACES
3.00±.015 2 PLACES
1.50±.06 2 PLACES
1014291 REV
.81 2 PLACES
2.25±.06 2 PLACES
.50±.06 2 PLACES
.25±.06 2 PLACES
7.50±.06 2 PLACES
.75
9.125±.015
4.562±.015
.228 .238 DIA 9 HOLES
.228 .238 DIA 8 HOLES
.41±.01
16.188±.015
6.469±.015
4.312±.015
2.16±.015
4.88
4.625±.015
2.312±.015
.62±.01 2 PLACES
1.12
3.69
5.81
3.69
.38
.50
.25 R 8 PLACES
R 2 PLACES
.228 .238
.56
DETAIL A
8 PLACES
SCALE 1/1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 1601 DATE 6/19/63

NOTES
1. MATL: 5052-H32 AL PER QQ-A-318 TEMPER H32
2. REMOVE BURRS & SHARP EDGES
3. WELD PER MIL-W-8604
4. CHROMATE TREAT PER MIL-C-5541
5. MARK .12 HIGH BLACK CHARACTERS PER ND1002019
IN POSITION SHOWN

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014295	1014156	
NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ±.005 .03 ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 7 May 63
CHECKED A. Perrone 29 May 63
APPROVAL [illegible] 12 June 63
APPROVAL [illegible] 6-10-63
APPROVAL J. [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 6/10/63
MIT APPROVAL [illegible] 6/7/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS
SYSTEM INTERFACE

CODE IDENT NO	SIZE	NASA DRAWING NO
—	F	1014291
SCALE 1/2	WT	SHEET 1 OF 1

1014291

[illegible]

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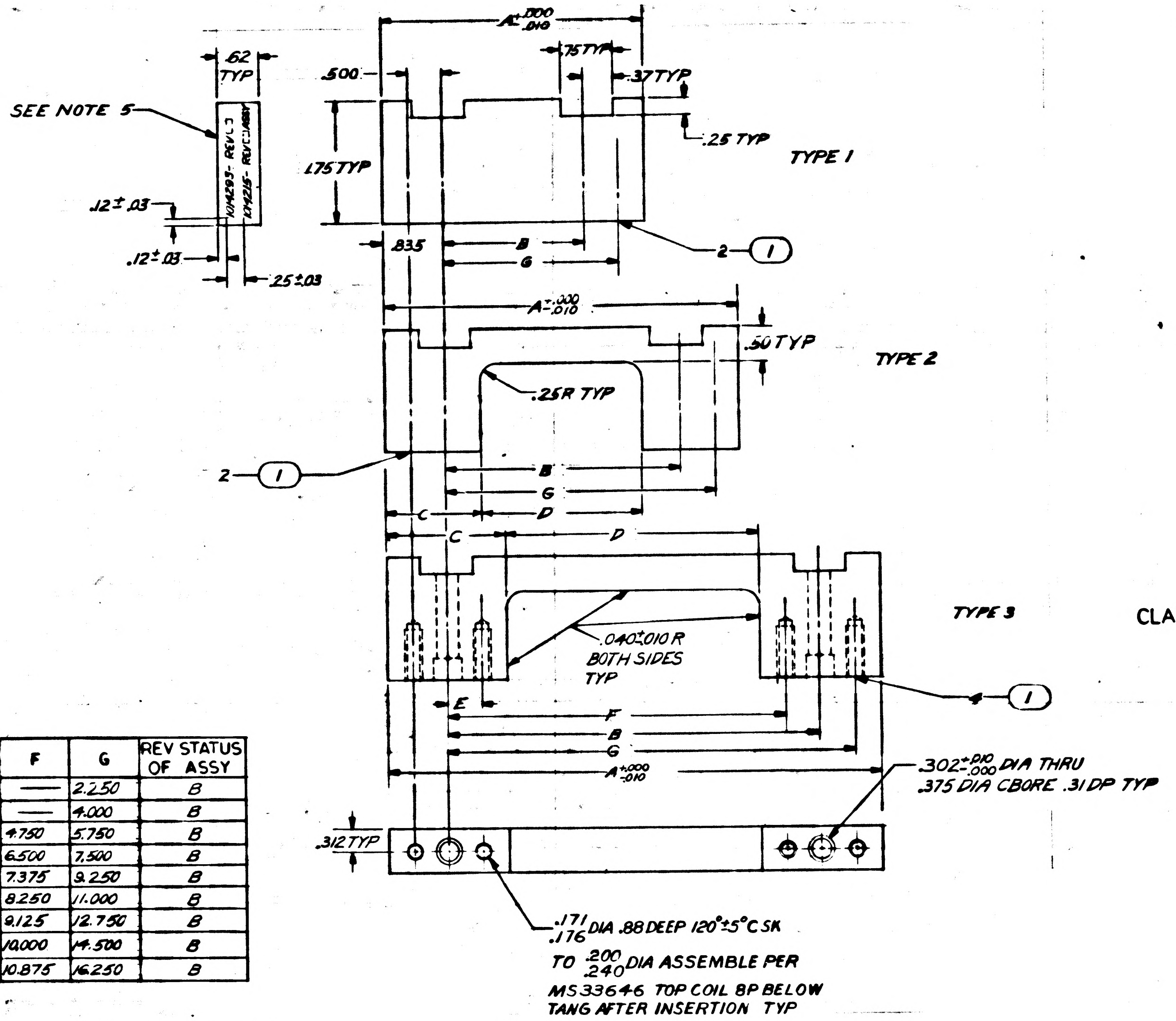
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLB RELEASE PER TDRR 01487	6-5-63	
A	CLASS II CHANGE PER RD-R 5324 C. La Costa CHK W. J. Gifford APPD	10 SEP 63	
B	CHANGED PER TDRR NO. 07052 DR CHK APPD HWM	1 APR 64	KCB



SEE NOTE 5
.62 TYP
1014293- REV[ ]
1014215- REV[ ] ASSY
.12±.03
.12±.03
.25±.03
A +.000 -.010
.500
.75 TYP
.37 TYP
.25 TYP
1.75 TYP
TYPE 1
.835
B
G
2 — 1
A +.000 -.010
.50 TYP
TYPE 2
.25R TYP
2 — 1
B
G
C
D
C
D
TYPE 3
.040±.010 R BOTH SIDES TYP
4 — 1
E
F
B
G
A +.000 -.010
.302 +.010 -.000 DIA THRU
.375 DIA CBORE .31 DP TYP
.312 TYP
.171 .176 DIA .88 DEEP 120°±5° CSK
TO .200 .240 DIA ASSEMBLE PER
MS33646 TOP COIL 8P BELOW
TANG AFTER INSERTION TYP

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01487 DATE 6-5-63

DASH NO.	HANDLE TYPE	A	B	C	D	E	F	G	REV STATUS OF ASSY
1014293-1	1	3.42	1.750	—	—	—	—	2.250	B
1014293-2	2	5.17	3.500	1.34	2.50	—	—	4.000	B
1014293-3	3	6.92	5.250	1.71	3.50	.500	4.750	5.750	B
1014293-4	3	8.67	7.000	1.71	5.25	.500	6.500	7.500	B
1014293-5	3	10.42	8.750	2.59	5.25	1.375	7.375	9.250	B
1014293-6	3	12.17	10.500	3.46	5.25	2.250	8.250	11.000	B
1014293-7	3	13.92	12.250	4.34	5.25	3.125	9.125	12.750	B
1014293-8	3	15.67	14.000	5.21	5.25	4.000	10.000	14.500	B
1014293-9	3	17.42	15.750	6.09	5.25	4.875	10.875	16.250	B

NOTES:

1. MATL. 6061-T6 AL PER QQ-A-325 TEMP T6
2. REMOVE BURRS AND SHARP EDGES
3. CLEAR ANODIZE PER MIL-A-8625, TYPE II
4. FINISH ALL OVER 125
5. MARK APPLICABLE DASH NO. .08 HIGH BLACK CHARACTERS PER ND1002019
6. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY

4	4	4	4	4	4	4	2	2	MS21209C0820	INSERT	1
QTY REQD	QTY REQD	QTY REQD	QTY REQD	QTY REQD	QTY REQD	QTY REQD	QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
-9	-8	-7	-6	-5	-4	-3	-2	-1	LIST OF MATERIALS		

1014215	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE
CHECKED 23 May 63
APPROVAL C Sevlin
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014293
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014293

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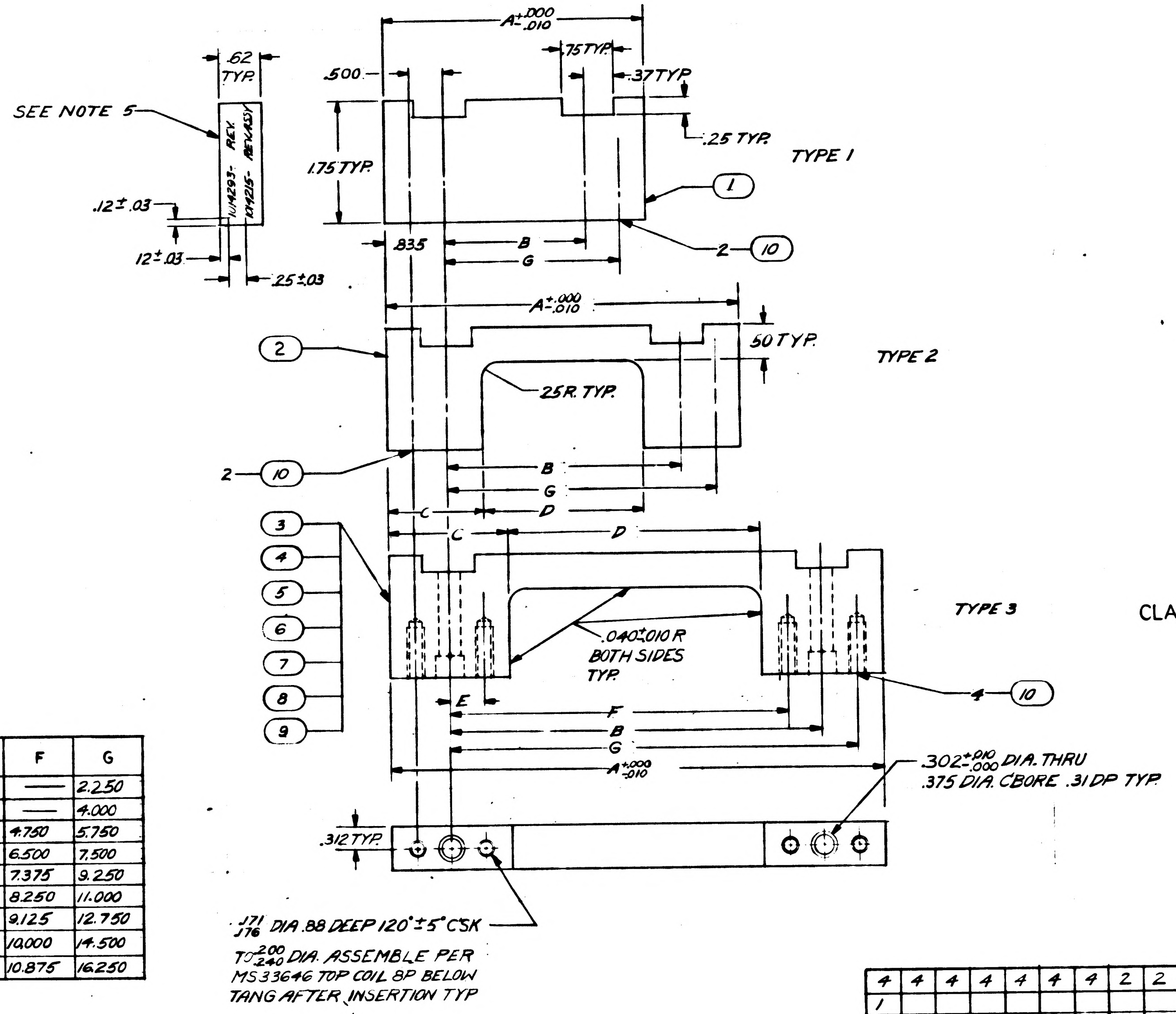
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLB RELEASE PER TDRR 01487	6-5-63	


SEE NOTE 5
.62 TYP.
1014293- REV.
1014215- REV. ASSY
.12 ± .03
.12 ± .03
.25 ± .03
A +.000 -.010
.500
.75 TYP.
.37 TYP.
.25 TYP.
1.75 TYP.
TYPE 1
1
2 10
.835
B
G
A +.000 -.010
.50 TYP.
TYPE 2
2
.25R. TYP.
2 10
B
G
C
D
3
4
5
6
7
8
9
C
D
.040±.010 R BOTH SIDES TYP.
TYPE 3
4 10
E
F
B
G
A +.000 -.010
.302 +.010 -.000 DIA. THRU .375 DIA. CBORE .31 DP TYP.
.312 TYP.
.171/.176 DIA .88 DEEP 120° ± 5° CSK
TO .200/.240 DIA. ASSEMBLE PER MS33646 TOP COIL 8P BELOW TANG AFTER INSERTION TYP

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01487 DATE 6-5-63

DASH NO.	HANDLE TYPE	A	B	C	D	E	F	G
1014293-13	1	3.42	1.750	—	—	—	—	2.250
1014293-14	2	5.17	3.500	1.34	2.50	—	—	4.000
1014293-15	3	6.92	5.250	1.71	3.50	.500	4.750	5.750
1014293-16	3	8.67	7.000	1.71	5.25	.500	6.500	7.500
1014293-17	3	10.42	8.750	2.59	5.25	1.375	7.375	9.250
1014293-18	3	12.17	10.500	3.46	5.25	2.250	8.250	11.000
1015293-19	3	13.92	12.250	4.34	5.25	3.125	9.125	12.750
1015293-20	3	15.67	14.000	5.21	5.25	4.000	10.000	14.500
1015293-21	3	17.42	15.750	6.09	5.25	4.875	10.875	16.250

NOTES:

1. MATL. 6061-T6 AL PER QQ-A-325 TEMP T6
2. REMOVE BURRS AND SHARP EDGES
3. CLEAR ANODIZE PER MIL-A-8625, TYPE II
4. FINISH ALL OVER 125
5. MARK APPLICABLE DASH NO .12 HIGH BLACK CHARACTERS PER ND1002019
6. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY

-9	-8	-7	-6	-5	-4	-3	-2	-1 QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	4	4	4	4	4	4	2	2	MS21209C0820	INSERT	10
1									1014293-21	HANDLE	9
	1								1014293-20		8
		1							1014293-19		7
			1						1014293-18		6
				1					1014293-17		5
					1				1014293-16		4
						1			1014293-15		3
							1		1014293-14		2
								1	1014293-13	HANDLE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014215	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±1°
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE 27 MAY 63
CHECKED D Lindell 23 MAY 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 6-5-63
MIT APPROVAL 6/5/63
MIT APPROVAL 6/5/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014293
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014293

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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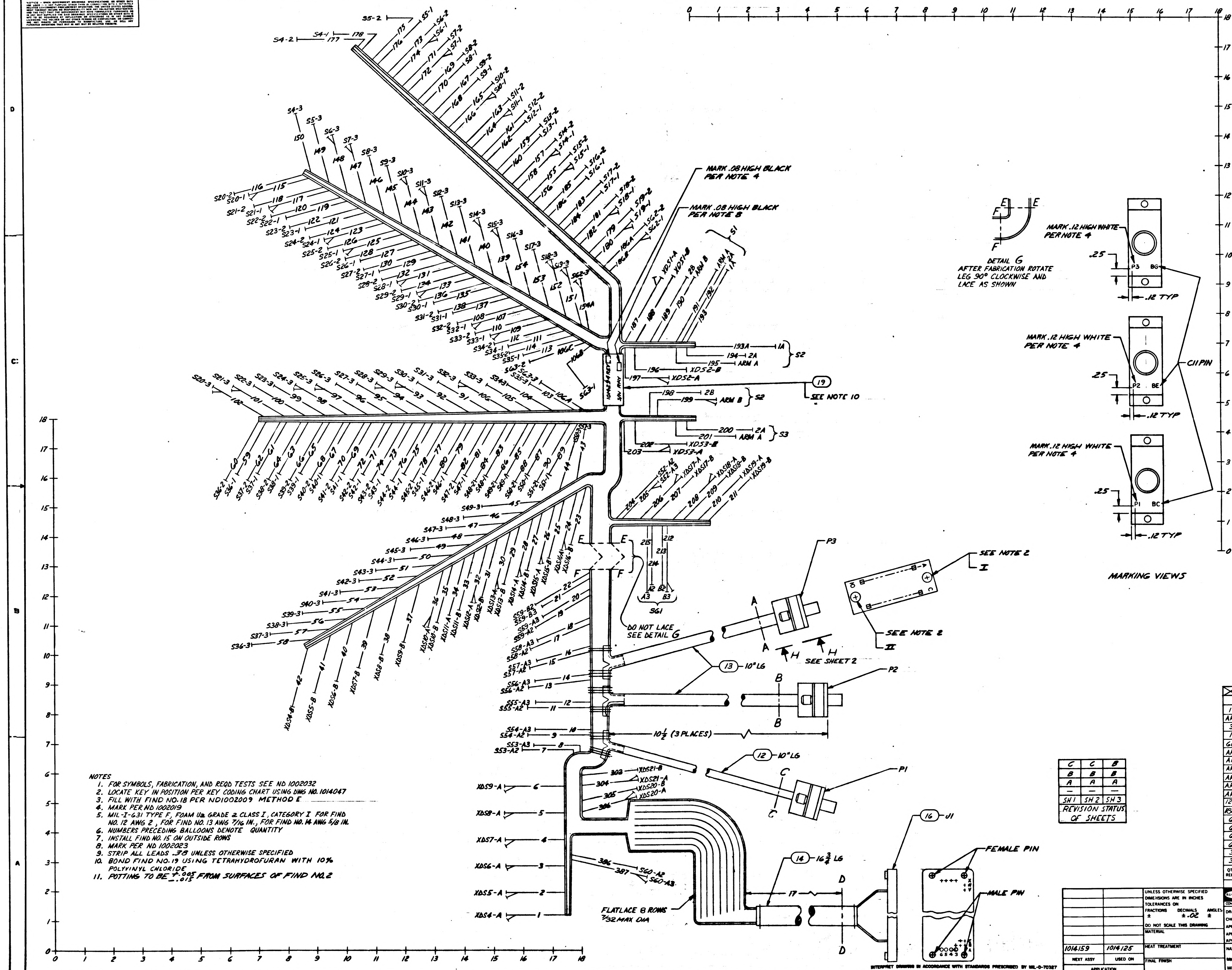
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R 5482A DRC. Gongin CHK W. J. Gifford APPD G. Rean	6 NOV 63	
B	CLASS II CHANGE PER RD R5693 DR. Ken Budd CHK. J. Marinac APPD. Kanley	1-16-64	
C	CHANGED PER TDRR 06343 DR Ken Budd CHK Miles APPD		



C	C	B
B	B	A
A	A	A
—	—	—
SH 1	SH 2	SH 3

REVISION STATUS OF SHEETS

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02910
DATE 9-5-63

NOTES
1. FOR SYMBOLS, FABRICATION, AND REQD TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1014047
3. FILL WITH FIND NO. 18 PER ND1002009 METHOD E
4. MARK PER ND 1002019
5. MIL-I-631 TYPE F, FOAM U2 GRADE 2 CLASS I, CATEGORY I FOR FIND NO. 12 AWG 2, FOR FIND NO. 13 AWG 7/16 IN., FOR FIND NO. 14 AWG 5/8 IN.
6. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
7. INSTALL FIND NO. 15 ON OUTSIDE ROWS
8. MARK PER ND 1002023
9. STRIP ALL LEADS .38 UNLESS OTHERWISE SPECIFIED
10. BOND FIND NO. 19 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
11. POTTING TO BE $^{+.005}_{-.015}$ FROM SURFACES OF FIND NO. 2

☒	1014464	SCHEMATIC	REF
1	1014472-3	BAND MARKER, CABLE	19
AR	1006683	COMPOUND SILICONE RUBBER	18
3	MS39056-6	BUSHING, SLEEVE	17
1	1006671	CONNECTOR, RECEPTACLE	16
60	1014310	INSULATOR, CONTACT	15
AR	SEE NOTE 5	SLEEVING, INSUL	14
AR	SEE NOTE 5	SLEEVING, INSUL	13
AR	SEE NOTE 5	SLEEVING, INSUL	12
AR	MIL-W-16878/4 TYPE E	WIRE, ELEC 22, WHT	11
AR	MIL-W-16878/4 TYPE E	WIRE, ELEC 22, GRN	10
AR	MIL-W-16878/4 TYPE E	WIRE, ELEC 22 RED	9
120	1006987	INSUL CONTACT ELECT, MALE CRIMP	8
180	1006995-1	CONTACT ELECTRICAL, MALE CRIMP	7
6	1014032	RECEPTACLE, INDEXING	6
6	1006997	WASHER, PLAIN, FLAT	5
6	MS 35337-79	WASHER, LOCK	4
6	1006998-1	SCREW, CAPTIVE	3
3	1014024-4	BRACKET, ANGLE	2
3	1014021	PLATE, CONNECTOR	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014159	1014125

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN R. Sargent DATE 3 AUG 63
CHECKED A. G. Cazzens 9 Aug 63
APPROVAL C. Spilling
APPROVAL
APPROVAL
NASA APPROVAL
MIL APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
FRONT PANEL
LOGIC DRAWER NO. 2

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014294
SCALE 1/1
WT
SHEET 1 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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REVISIONS

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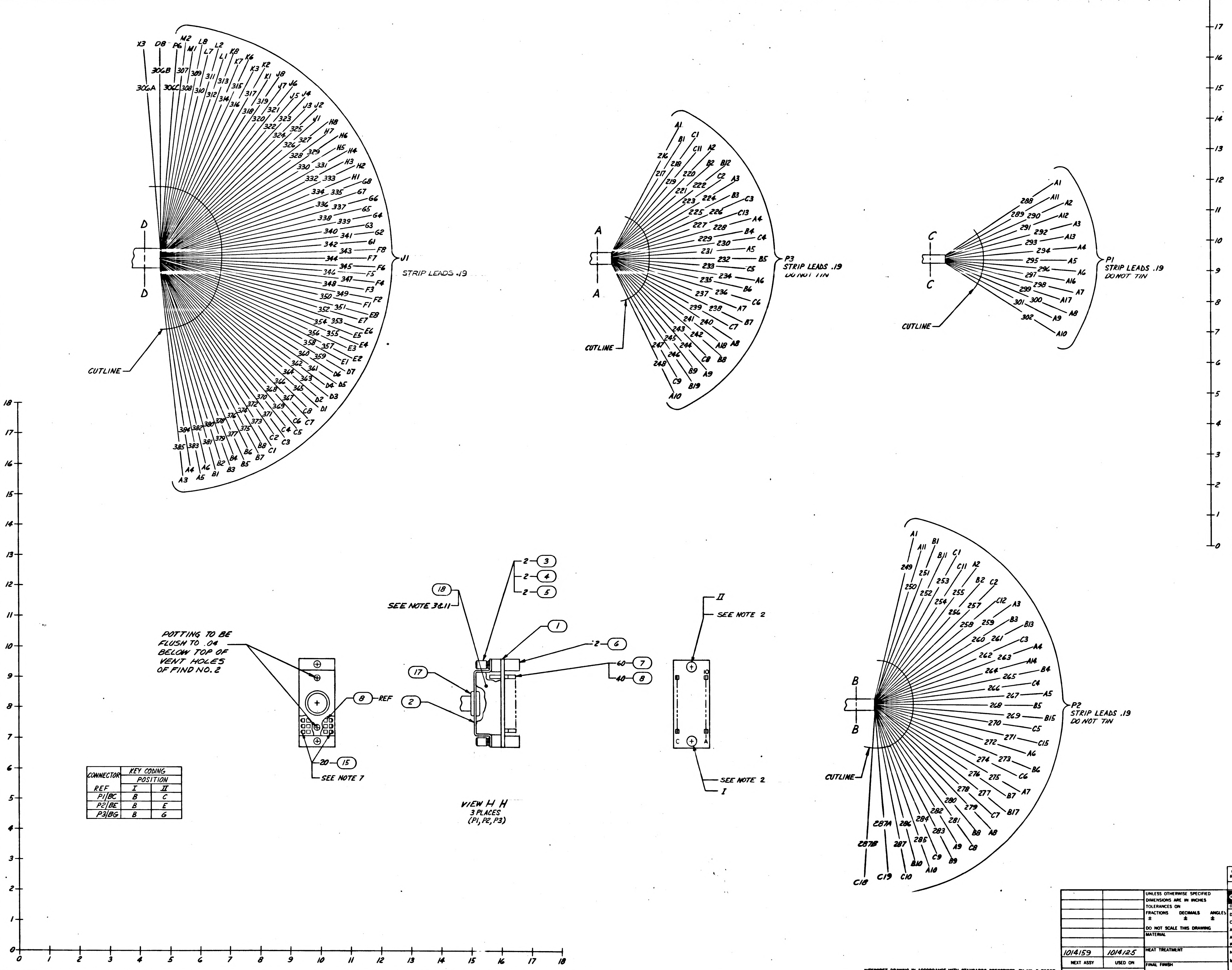
B	CLASS II CHANGE PER RD R5693 DR. Ken Bull CHK APPD	1-16-64	
C	CHANGED PER TDRR 06343 DR Ken Bull CHK Jim Miles APPD	3	



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D
J1
STRIP LEADS .19
CUTLINE
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P3
STRIP LEADS .19
DO NOT TIN
CUTLINE
C
C
P1
STRIP LEADS .19
DO NOT TIN
CUTLINE
B
B
P2 STRIP LEADS .19
DO NOT TIN
CUTLINE
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO. 2
8 REF
20 15
SEE NOTE 7
SEE NOTE 3&11
18
17
2
1
2 3
2 4
2 5
2 6
60 7
40 8
VIEW H H
3 PLACES
(P1, P2, P3)
II
SEE NOTE 2
SEE NOTE 2
I
C
A
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

CONNECTOR REF	KEY CODING POSITION I	KEY CODING POSITION II
P1/BC	B	C
P2/BE	B	E
P3/BG	B	G

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 02910

DATE 9-5-63

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014159	1014125

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN R. Sargent DATE 3AUG63
CHECKED A. G. Cangemi 9 Aug 63
APPROVAL C. Spadini
APPROVAL
APPROVAL J. Pomodoro
NASA APPROVAL
MIL APPROVAL 9/5/63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
FRONT PANEL
LOGIC DRAWER NO. 2

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014294
SCALE 1/1
WT
SHEET 2 OF 3

SYM	DESCRIPTION	DATE	APPROVED
-	CLASS B RELEASED PER TORR		
A	CLASS II CHANGE PER RD-R-5482A DR G. Cray CHK W.J. Tiffol APPD G. Green	6 Nov 63	
B	CLASS II CHANGE PER RD R5693 DR. Ken Bell CHK C.J. Moriner APPD		
C	CHANGED PER TORR 07531 DR W Kelley CHK APPD		KSO

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	306C	RED	22	9	1	
	1				2	
	2				3	
	3				4	
	4				5	
	5				306	
	306				304	
	304				6	
	6				36	
	36				34	
	187				307	
	187				197	
	197				203	
	203				32	
	32				30	
	30				28	
	28				26	
	26				24	
	24				206	
	206				208	
	208	RED	22	9	210	
	308	ORANGE	22	10	387	
	387				212	
	212				205	
	205				199	
	199	ORANGE	22	10	190	
	383	WHITE	22	11	20	
	21				382	
	381				18	
	16				380	
	379				14	
	12				378	
	377				10	
	8				376	
	375				194	
	193A				374	
	373				198	
	192				372	
	371				193	
	189				370	
	369				207	
	211				368	
	367				209	
	35				366	
	365				33	
	31				364	
	363				29	
	27				362	
	361				25	
	23				360	
	357				42	
	41				356	
	355				40	
	39				354	
	353				38	
	37				352	
	351				17	
	13				350	
	349				9	
	11				348	
	347				7	
	15				342	
	346				19	
	22				345	
	344				215	
	214				343	
	341				160	
	160				140	
	138				162	
	162				339	
	337				136	
	136				164	
	166				137	
	134				335	
	333				168	
	168				132	
	130				170	
	170				331	
	329				128	
	128	WHITE	22	11	172	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	174	WHITE	22	11	126	
	126				327	
	325				176	
	176				124	
	122				178	
	178				323	
	321				120	
	120				180	
	182				118	
	118				319	
	317				184	
	184				116	
	114				186	
	186				315	
	313				112	
	112				186B	
	186D				110	
	110				311	
	310				106	
	106				157	
	156				105	
	105				312	
	314				155	
	155				104	
	103				154	
	154				316	
	318				102	
	102				153	
	152				101	
	101				320	
	322				151	
	151				100	
	99				150	
	150				324	
	326				98	
	98				149	
	148				97	
	97				328	
	330				147	
	147				96	
	95				146	
	146				332	
	334				94	
	94				145	
	144				93	
	93				336	
	338				143	
	143				92	
	91				142	
	142				340	
	303				61	
	59				286	
	279				71	
	69				285	
	284				67	
	65				282	
	268				60	
	62				246	
	247				56	
	64				244	
	241				66	
	68				226	
	227				70	
	53				243	
	245				52	
	72				222	
	238				50	
	49				242	
	239				77	
	79				236	
	233				81	
	80				219	
	230				82	
	84				223	
	231				45	
	87				235	
	229				185	
	165				228	
	225				169	
	181	WHITE	22	11	217	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	221	WHITE	22	11	141	
	137				224	
	237				133	
	127				232	
	248				119	
	121				261	
	253				175	
	171				252	
	250				167	
	163				262	
	254				161	
	186C				265	
	263				186A	
	183				255	
	264				129	
	125				271	
	274				117	
	113				277	
	283				75	
	73				281	
	278				48	
	46				276	
	272				[illegible]	
	85				267	
	266				86	
	88				256	
	270				89	
	90				249	
	257				74	
	76				259	
	260				78	
	43				273	
	269				202	
	204				251	
	275				196	
	195				240	
	220				191	
	188				216	
	239				201	
	200				384	
	385				213	
	218				386	
	288				111	
	115				298	
	291				123	
	131				299	
	297				135	
	139				293	
	290				179	
	177				292	
	289				173	
	159				294	
	302				63	
	54				301	
	300				51	
	47				296	
	295				44	
	58				287	
	280				55	
	57				258	
	359				305	
	303				358	
	186F				306A	
	306B				158	
	158				107	
	108				186F	
	186E				287B	
	287A	WHITE	22	11	109	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 0241 DATE 4-5-63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014159	1014125

APPLICATION

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN J. Spinney DATE 8-2-63
CHECKED A.G. Coggan 9 Aug 63
APPROVAL C. Spalding
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
FRONT PANEL
LOGIC DRAWER NO. 2

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014294
SCALE NONE
WT.
SHEET 3 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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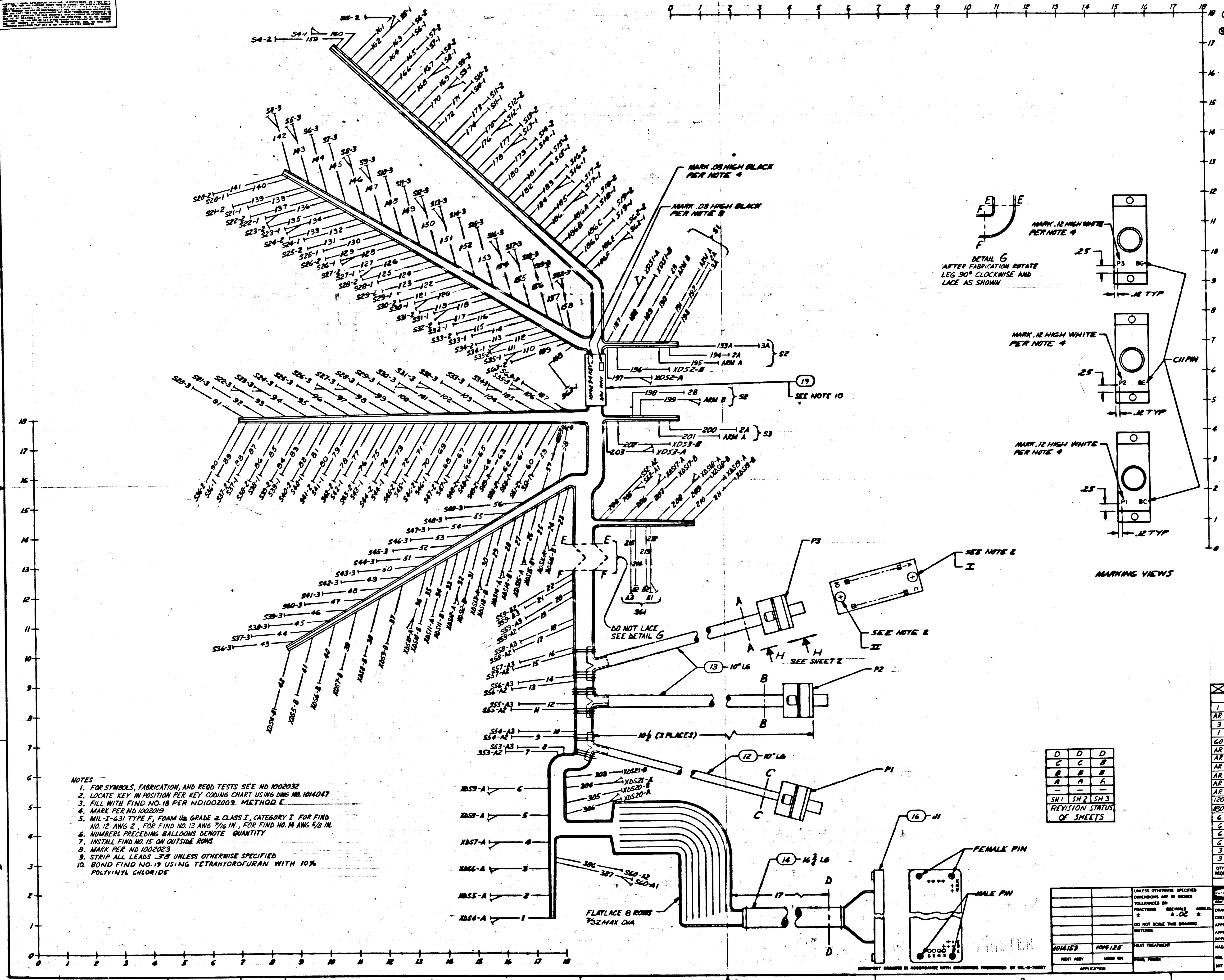
B	CLASS II CHANGE PER RD A5693 DR. Ken Budd CHK. APPD.	1-16-64	
C	CHANGED PER TDRR 06343 DR Ken Budd CHK APPD	3/10/64	
D	CHANGED PER TDRR 07531 DR H. Kelley CHK APPD	18 APR 64	KGB



MARK .08 HIGH BLACK PER NOTE 4
MARK .08 HIGH BLACK PER NOTE 8
SEE NOTE 10
DO NOT LACE SEE DETAIL G
FLATLACE 8 ROWS 7/32 MAX DIA
10½ (3 PLACES)
10" LG
16¾ LG
SEE SHEET 2
SEE NOTE 2
DETAIL G
AFTER FABRICATION ROTATE LEG 90° CLOCKWISE AND LACE AS SHOWN
MARK .12 HIGH WHITE PER NOTE 4
.25
.12 TYP
C11 PIN
MARKING VIEWS
FEMALE PIN
MALE PIN
P1
P2
P3
J1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO.
DATE 4-5-63

NOTES
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4. MARK PER ND 1002019
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6. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
7. INSTALL FIND NO. 15 ON OUTSIDE ROWS
8. MARK PER ND 1002023
9. STRIP ALL LEADS .38 UNLESS OTHERWISE SPECIFIED
10. BOND FIND NO. 19 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE

D	D	D
C	C	B
B	B	B
A	A	A
—	—	—
SH 1	SH 2	SH 3
REVISION STATUS OF SHEETS		

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AR	SEE NOTE 5	SLEEVING, INSUL	12
AR	MIL-W-16878/4 TYPE E	WIRE, ELEC 22, WHT	11
AR	MIL-W-16878/4 TYPE E	WIRE, ELEC 22, ORN	10
AR	MIL-W-16878/4 TYPE E	WIRE, ELEC 22 RED	9
120	1006987	INSUL CONTACT ELECT, MALE CRIMP	8
180	1006995-1	CONTACT ELECTRICAL, MALE CRIMP	7
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6	1006998-1	SCREW, CAPTIVE	3
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3	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014159	1014125
NEXT ASSY	USED ON
APPLICATION	

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FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN R. Sargent DATE 3 AUG 63
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APPROVAL C
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NASA APPROVAL
MIL APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
FRONT PANEL
LOGIC DRAWER NO. 2

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014294
SCALE 1/1
WT
SHEET OF 3

good

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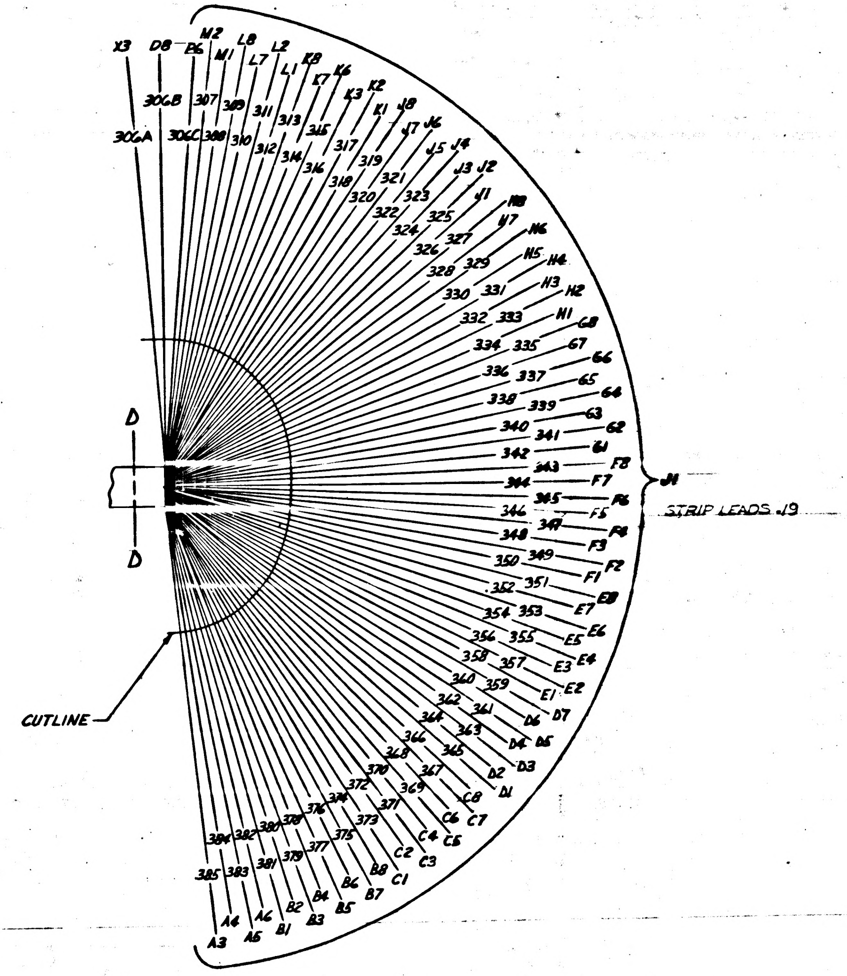
C	CHANGED PER TDRR 06343 DR Ken Bull CHK APPD	3/10/64	
D	CHANGED PER TDRR 07531 DR CHK APPD		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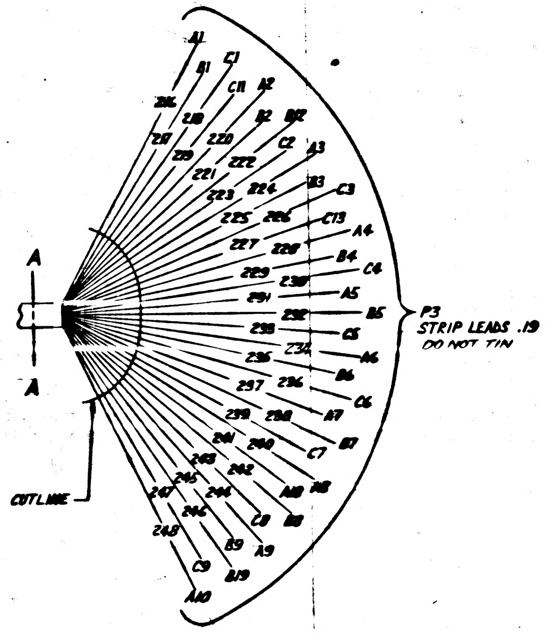
CUTLINE
J1
STRIP LEADS .19


A1
B1
C1
C11
A2
B2
B12
C2
A3
B3
C3
C13
A4
B4
C4
A5
B5
C5
A6
B6
C6
A7
B7
C7
A8
B8
C8
A9
B9
C9
B19
A10
216
217
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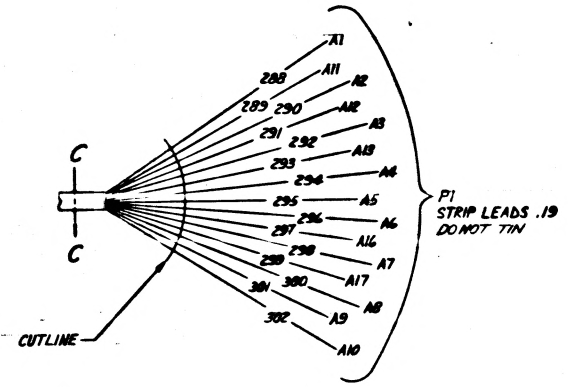
247
248
A
A
CUTLINE
P3
STRIP LEADS .19
DO NOT TIN


A1
A11
A2
A12
A3
A13
A4
A5
A6
A16
A7
A17
A8
A9
A10
288
289
290
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294
295
296
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298
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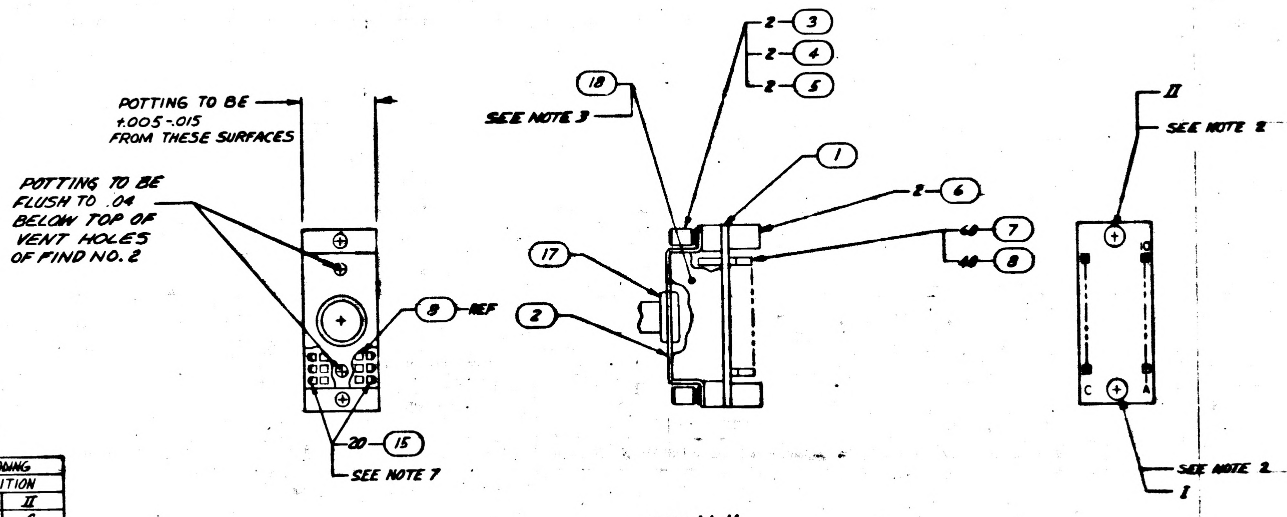
301
302
C
C
CUTLINE
P1
STRIP LEADS .19
DO NOT TIN

FOR INFORMATION ONLY

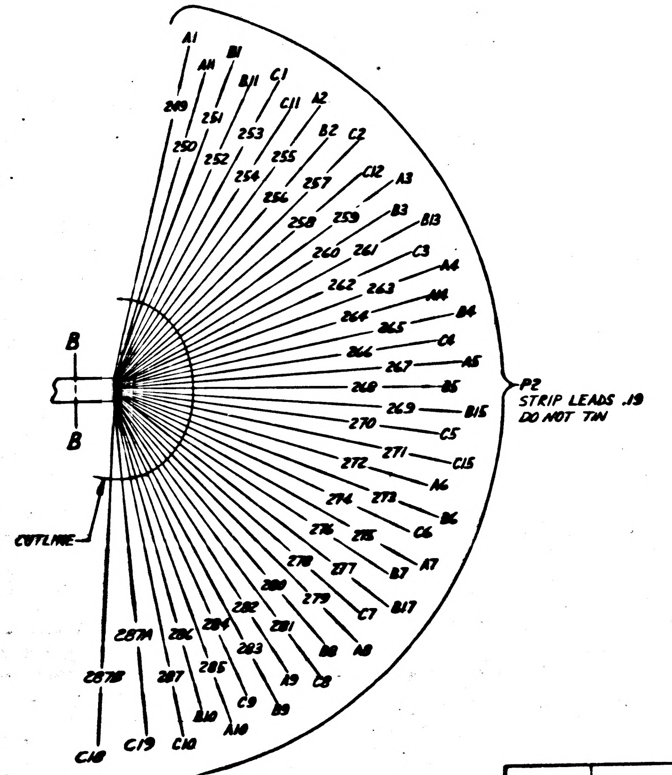
CLASS B RELEASE TDRR NO. 02910

DATE 9-5-63


POTTING TO BE +.005-.015 FROM THESE SURFACES
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO. 2
8 REF
20 15
SEE NOTE 7
18
SEE NOTE 3
2 3
2 4
2 5
1
2 6
17
2
40 7
40 8
II
SEE NOTE 2
10
C
A
SEE NOTE 2
I

VIEW H H
3 PLACES
(P1, P2, P3)

CONNECTOR	KEY CODING POSITION	
REF	I	II
P1/BC	B	C
P2/BE	B	E
P3/BG	B	G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A11
B1
B11
C1
C11
A2
B2
C2
C12
A3
B3
B13
C3
A4
A14
B4
C4
A5
B5
B15
C5
C15
A6
B6
C6
A7
B7
B17
C7
A8
B8
C8
A9
B9
C9
A10
B10
C10
C18
C19
249
250
251
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282
283
284
285
286
287
287A
287B
B
B
CUTLINE
P2
STRIP LEADS .19
DO NOT TIN

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014159	1014125
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 3AUG63
CHECKED 9 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIL APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
FRONT PANEL
LOGIC DRAWER NO. 2

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014294
SCALE 1/1
WT
SHEET 2 OF 3

DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014294

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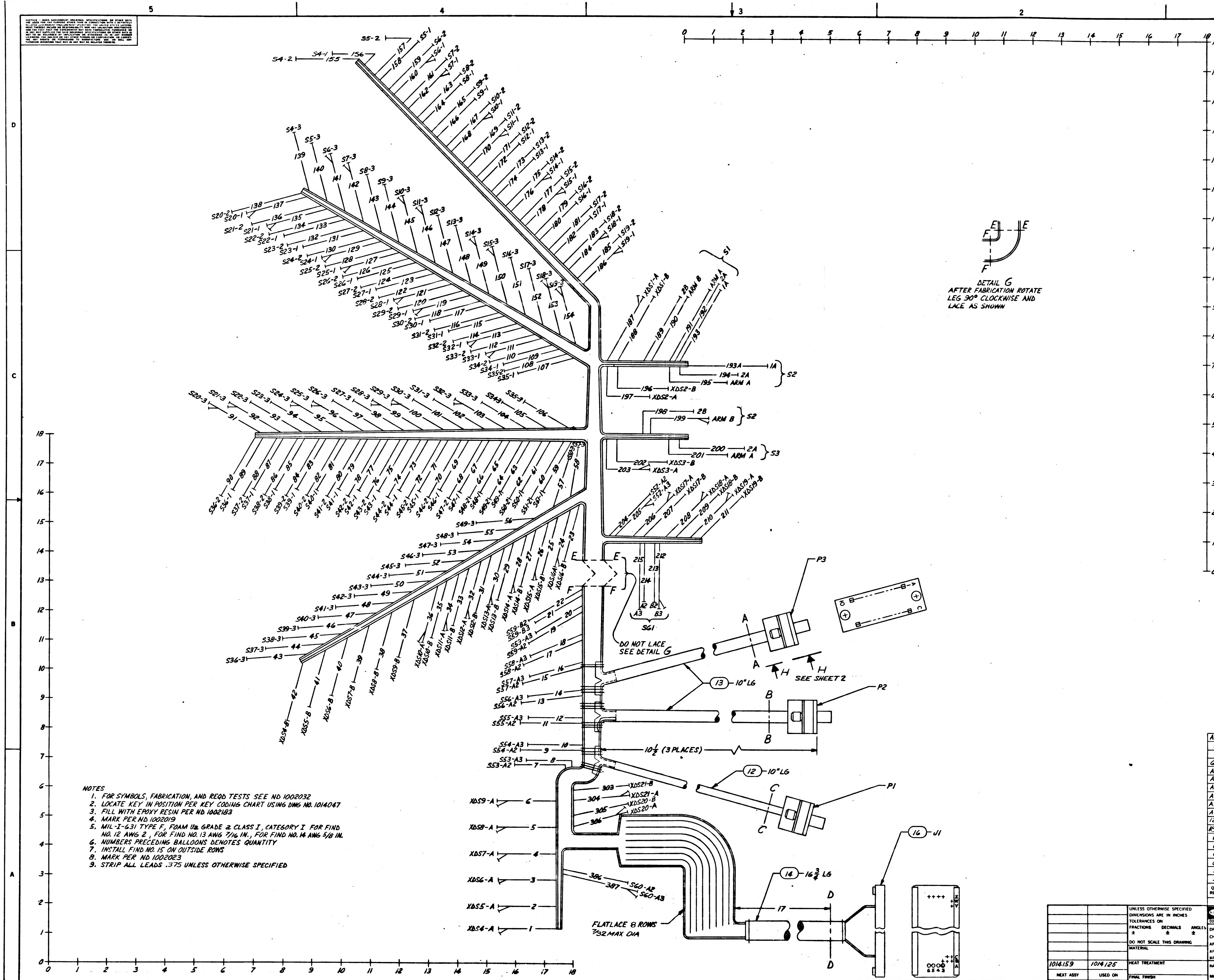
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02910
DATE 9-5-63

NOTES
1. FOR SYMBOLS, FABRICATION, AND REQD TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1014047
3. FILL WITH EPOXY RESIN PER ND 1002183
4. MARK PER ND 1002019
5. MIL-I-631 TYPE F, FOAM U2 GRADE 2 CLASS I, CATEGORY I FOR FIND NO. 12 AWG 2, FOR FIND NO. 13 AWG 7/16 IN., FOR FIND NO. 14 AWG 5/8 IN.
6. NUMBERS PRECEDING BALLOONS DENOTES QUANTITY
7. INSTALL FIND NO. 15 ON OUTSIDE ROWS
8. MARK PER ND 1002023
9. STRIP ALL LEADS .375 UNLESS OTHERWISE SPECIFIED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	1006904	EPOXY RESIN	18
3	MS 35489-13	GROMMET	17
1	1006	CONNECTOR, RECEPTACLE	16
60	1014310	INSULATOR, CONTACT	15
AR	SEE NOTE 5	SLEEVING, INSUL	14
AR	SEE NOTE 5	SLEEVING, INSUL	13
AR	SEE NOTE 5	SLEEVING, INSUL	12
AR	MIL-W-16878/4E22 WHT	WIRE, ELECTRICAL	11
AR	MIL-W-16878/4E22 ORN	WIRE, ELECTRICAL	10
AR	MIL-W-16878/4E22 RED	WIRE, ELECTRICAL	9
120	1006987	INSUL CONTACT ELECT, MALE CRIMP	8
180	1006995-1	CONTACT ELECTRICAL, MALE CRIMP	7
6	1014032	RECEPTACLE, INDEXING	6
6	1006997	WASHER, PLAIN, FLAT	5
6	MS 35337-79	WASHER, LOCK	4
6	1006998-1	SCREW, CAPTIVE	3
3	1014024-1	BRACKET, ANGLE	2
3	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014159	1014125

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN R. Sargent DATE 3 AUG 63
CHECKED A.G. Cappanna 9 Aug 63
APPROVAL C. Spalding
APPROVAL
APPROVAL
NASA APPROVAL
MIL APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
FRONT PANEL
LOGIC DRAWER NO. 2

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014294
SCALE 1/1
WT
SHEET 1 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014294

INCHES
PHOTOGRAPHIC SCALE ONLY

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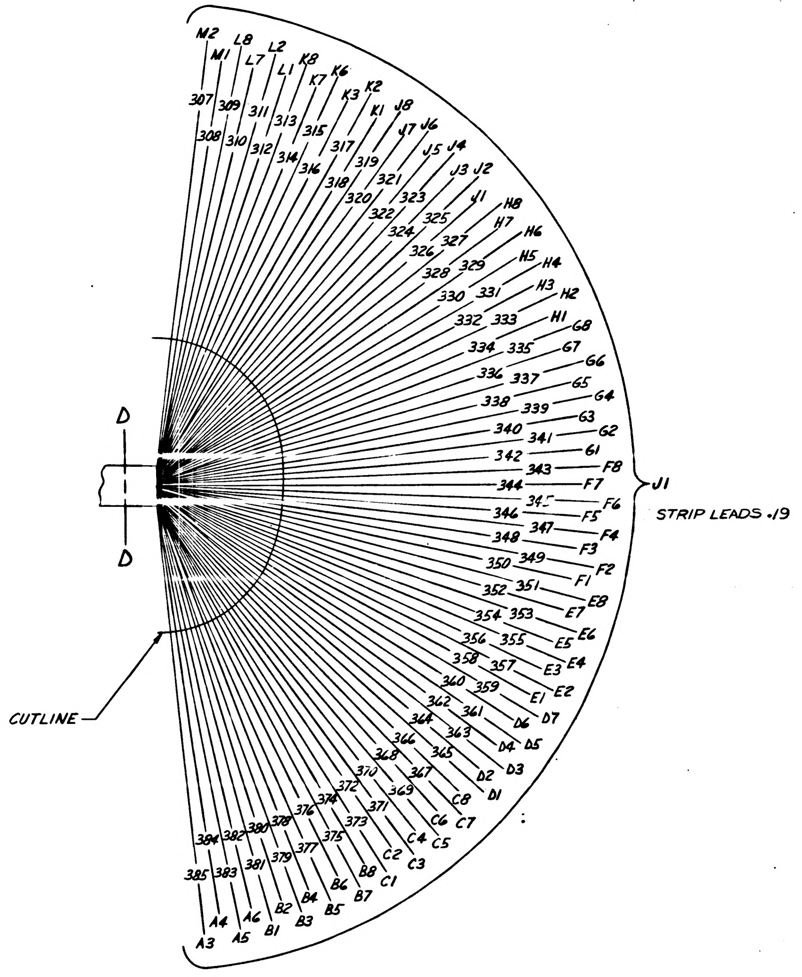
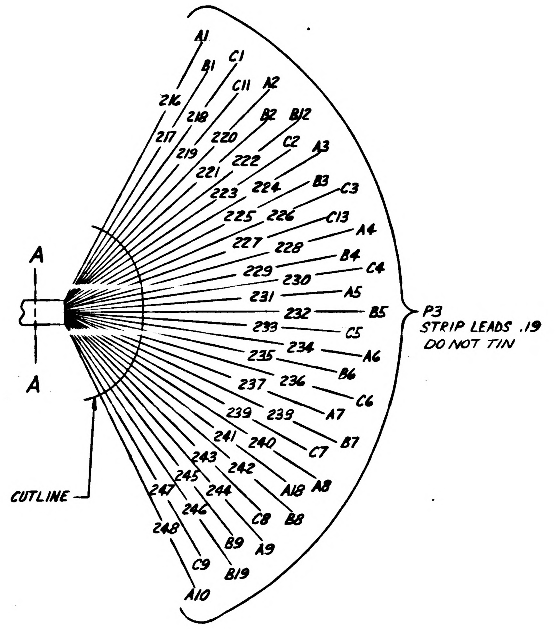
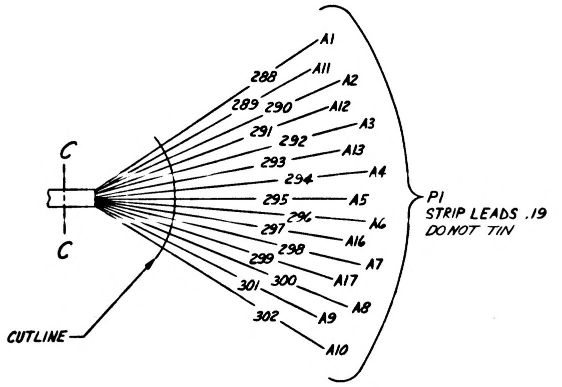
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		

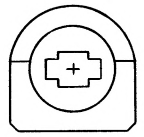
1014294


D
D
CUTLINE
307 M2
308 M1
309 L8
310 L7
311 L2
312 L1
313 K8
314 K7
315 K6
316 K3
317 K2
318 K1
319 J8
320 J7
321 J6
322 J5
323 J4
324 J3
325 J2
326 J1
327 H8
328 H7
329 H6
330 H5
331 H4
332 H3
333 H2
334 H1
335 G8
336 G7
337 G6
338 G5
339 G4
340 G3
341 G2
342 G1
343 F8
344 F7
345 F6
346 F5
347 F4
348 F3
349 F2
350 F1
351 E8
352 E7
353 E6
354 E5
355 E4
356 E3
357 E2
358 E1
359 D7
360 D6
361 D5
362 D4
363 D3
364 D2
365 D1
366 C8
367 C7
368 C6
369 C5
370 C4
371 C3
372 C2
373 C1
374 B8
375 B7
376 B6
377 B5
378 B4
379 B3
380 B2
381 B1
382 A6
383 A5
384 A4
385 A3
J1
STRIP LEADS .19

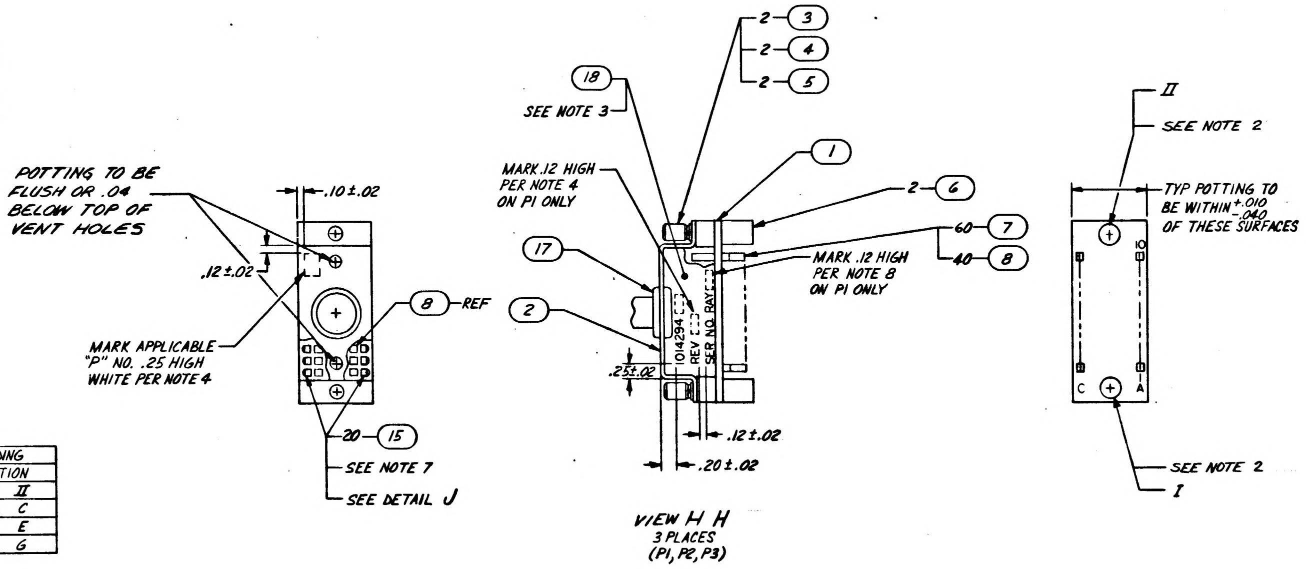

A
A
CUTLINE
216 A1
217 B1
218 C1
219 C11
220 A2
221 B2
222 B12
223 C2
224 A3
225 B3
226 C3
227 C13
228 A4
229 B4
230 C4
231 A5
232 B5
233 C5
234 A6
235 B6
236 C6
237 A7
239 B7
239 C7
240 A8
241 A18
242 B8
243 C8
244 A9
245 B9
246 B19
247 C9
248 A10
P3
STRIP LEADS .19
DO NOT TIN


C
C
CUTLINE
288 A1
289 A11
290 A2
291 A12
292 A3
293 A13
294 A4
295 A5
296 A6
297 A16
298 A7
299 A17
300 A8
301 A9
302 A10
P1
STRIP LEADS .19
DO NOT TIN

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02910
DATE 9-5-63

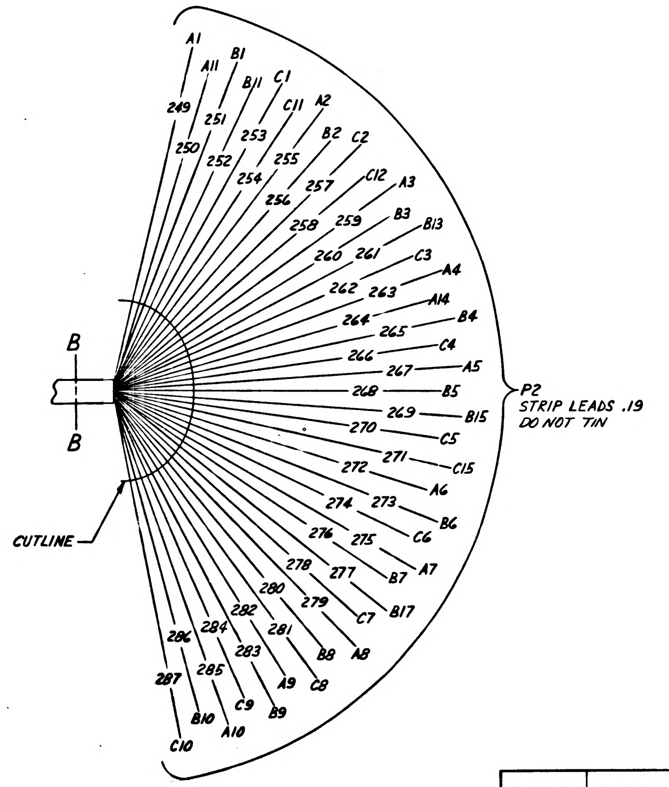


DETAIL J
SCALE 10/1


POTTING TO BE FLUSH OR .04 BELOW TOP OF VENT HOLES
.10 ± .02
.12 ± .02
8 REF
MARK APPLICABLE "P" NO. .25 HIGH WHITE PER NOTE 4
20 15
SEE NOTE 7
SEE DETAIL J
18
SEE NOTE 3
2 3
2 4
2 5
1
2 6
60 7
40 8
MARK .12 HIGH PER NOTE 4 ON P1 ONLY
MARK .12 HIGH PER NOTE 8 ON P1 ONLY
17
2
1014294
REV
SER NO RAY
.25 ± .02
.12 ± .02
.20 ± .02
II
SEE NOTE 2
TYP POTTING TO BE WITHIN +.010 -.040 OF THESE SURFACES
10
C
A
SEE NOTE 2
I

VIEW H H
3 PLACES
(P1, P2, P3)

CONNECTOR	KEY CODING POSITION	
REF	I	II
P1/J	B	C
P2/J	B	E
P3/J	B	G


B
B
CUTLINE
249 A1
250 A11
251 B1
252 B11
253 C1
254 C11
255 A2
256 B2
257 C2
258 C12
259 A3
260 B3
261 B13
262 C3
263 A4
264 A14
265 B4
266 C4
267 A5
268 B5
269 B15
270 C5
271 C15
272 A6
273 B6
274 C6
275 A7
276 B7
277 B17
278 C7
279 A8
280 B8
281 C8
282 A9
283 B9
284 C9
285 A10
286 B10
287 C10
P2
STRIP LEADS .19
DO NOT TIN

1014294

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
LIST OF MATERIALS		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

1014159	1014125
NEXT ASSY	USED ON
APPLICATION	

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN R. Sargent DATE 3AUG63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIL APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
FRONT PANEL
LOGIC DRAWER NO. 2

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014294
SCALE 1/1
WT
SHEET 2 OF

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TORR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	307	RED	22	9	1	
	1				2	
	2				3	
	3				4	
	4				5	
	5				306	
	306				304	
	304				6	
	6				210	
	210				208	
	208				206	
	206				36	
	36				34	
	34				32	
	32				30	
	30				28	
	28				26	
	26				24	
	24				187	
	187				203	
	203	RED	22	9	197	
	308	ORANGE	22	10	387	
	387				212	
	212				205	
	205				199	
	199	ORANGE	22	10	190	
	383	WHITE	22	11	20	
	21				382	
	381				18	
	16				380	
	379				14	
	12				378	
	377				10	
	8				376	
	375				194	
	193A				374	
	373				198	
	192				372	
	371				193	
	189				370	
	369				207	
	211				368	
	367				209	
	35				366	
	365				33	
	31				364	
	363				29	
	27				362	
	361				25	
	23				360	
	357				42	
	41				356	
	355				40	
	39				354	
	353				38	
	37				352	
	351				17	
	13				350	
	349				9	
	11				348	
	347				7	
	15				342	
	346				19	
	22				345	
	344				215	
	214				343	
	341				178	
	178				115	
	117				176	
	176				339	
	337				119	
	119				174	
	172				121	
	121				335	
	333				170	
	170				123	
	125				168	
	168				331	
	329				127	
	127	WHITE	22	11	166	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	164	WHITE	22	11	129	
	129				327	
	325				162	
	162				131	
	133				160	
	160				323	
	321				135	
	135				158	
	156				137	
	137				319	
	317				186	
	186				107	
	109				184	
	184				315	
	313				111	
	111				182	
	180				113	
	113				311	
	310				103	
	103				151	
	152				104	
	104				312	
	314				153	
	153				105	
	106				154	
	154				316	
	318				91	
	91				139	
	140				92	
	92				320	
	322				141	
	141				93	
	94				142	
	142				324	
	326				95	
	95				143	
	144				96	
	96				328	
	330				145	
	145				97	
	98				146	
	146				332	
	334				99	
	99				147	
	148				100	
	100				336	
	338				149	
	149				101	
	102				150	
	150				340	
	309				87	
	89				286	
	279				77	
	79				285	
	284				81	
	83				282	
	268				90	
	88				246	
	247				45	
	86				244	
	241				84	
	82				226	
	227				80	
	48				243	
	245				49	
	78				222	
	238				51	
	52				242	
	239				71	
	69				236	
	233				67	
	70				219	
	230				68	
	66				223	
	231				56	
	61				235	
	229				183	
	171				228	
	225				167	
	155	WHITE	22	11	217	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	221	WHITE	22	11	116	
	120				224	
	237				124	
	130				232	
	248				138	
	136				261	
	253				161	
	165				252	
	250				169	
	173				262	
	254				175	
	179				265	
	263				181	
	185				255	
	264				128	
	132				271	
	274				108	
	112				277	
	283				73	
	75				281	
	278				53	
	55				276	
	272				65	
	63				267	
	266				64	
	62				256	
	270				59	
	60				249	
	257				76	
	74				259	
	260				72	
	58				273	
	269				202	
	204				251	
	275				196	
	195				240	
	220				191	
	188				216	
	234				201	
	200				384	
	385				213	
	218				386	
	288				114	
	110				298	
	291				134	
	126				299	
	297				122	
	118				293	
	290				157	
	159				292	
	289				163	
	177				294	
	302				85	
	47				301	
	300				50	
	54				296	
	295				57	
	43				287	
	280				46	
	44				258	
	359				305	
	303	WHITE	22	11	358	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 020 DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

1014159	1014125
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN J. Spinney DATE 8-2-63
CHECKED A. G. Caggiano 9 Aug 63
APPROVAL C. Spalding
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
FRONT PANEL
LOGIC DRAWER NO. 2

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014294
SCALE NONE
WT
SHEET 3 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 1601	6/19/63	[illegible]
A	REPLACED WITH CHANGE BY REV B PER TDRR 04578 DR S. Oniferr CHK W. J. Gifford	–	[illegible]

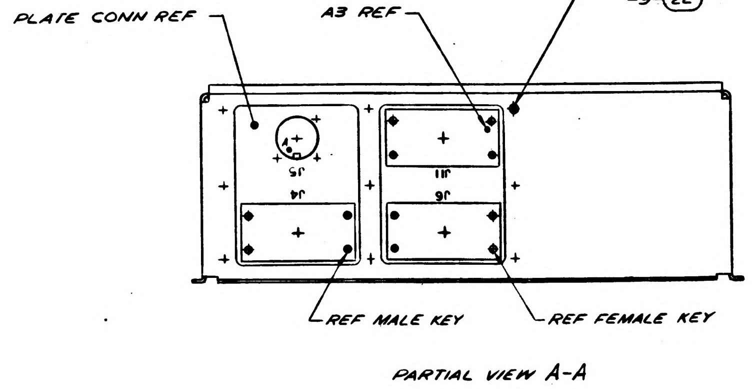
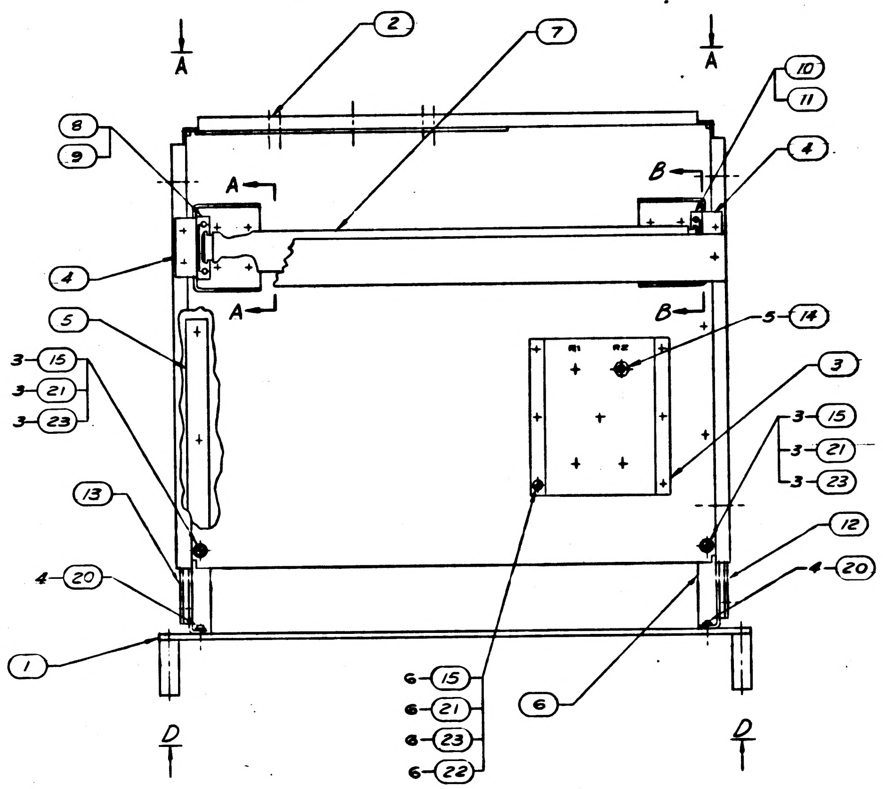
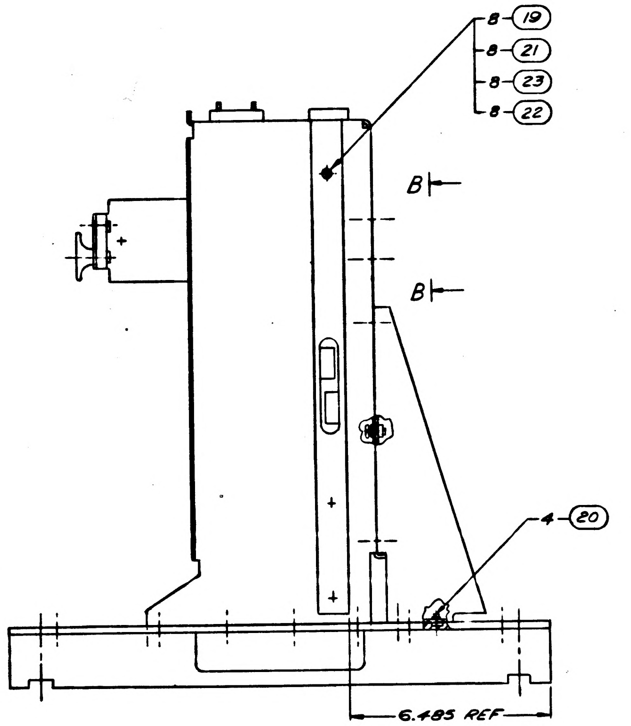


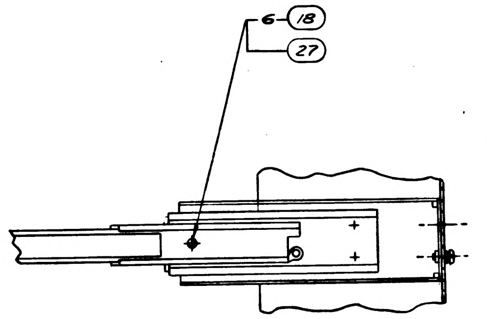
PLATE CONN REF
A3 REF
9-15
9-21
9-23
9-22
J5
J4
J1
J6
REF MALE KEY
REF FEMALE KEY

PARTIAL VIEW A-A

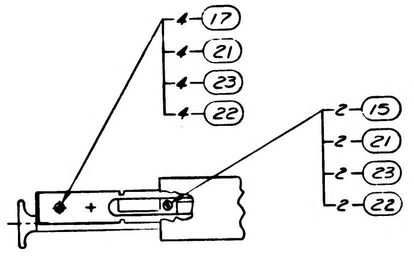

A
A
2
7
10
11
8
9
4
A
A
B
B
4
5
5-14
3
3-15
3-21
3-23
3-15
3-21
3-23
13
4-20
12
4-20
1
6-15
6-21
6-23
6-22
6
D
D


8-19
8-21
8-23
8-22
B
B
4-20
6.485 REF

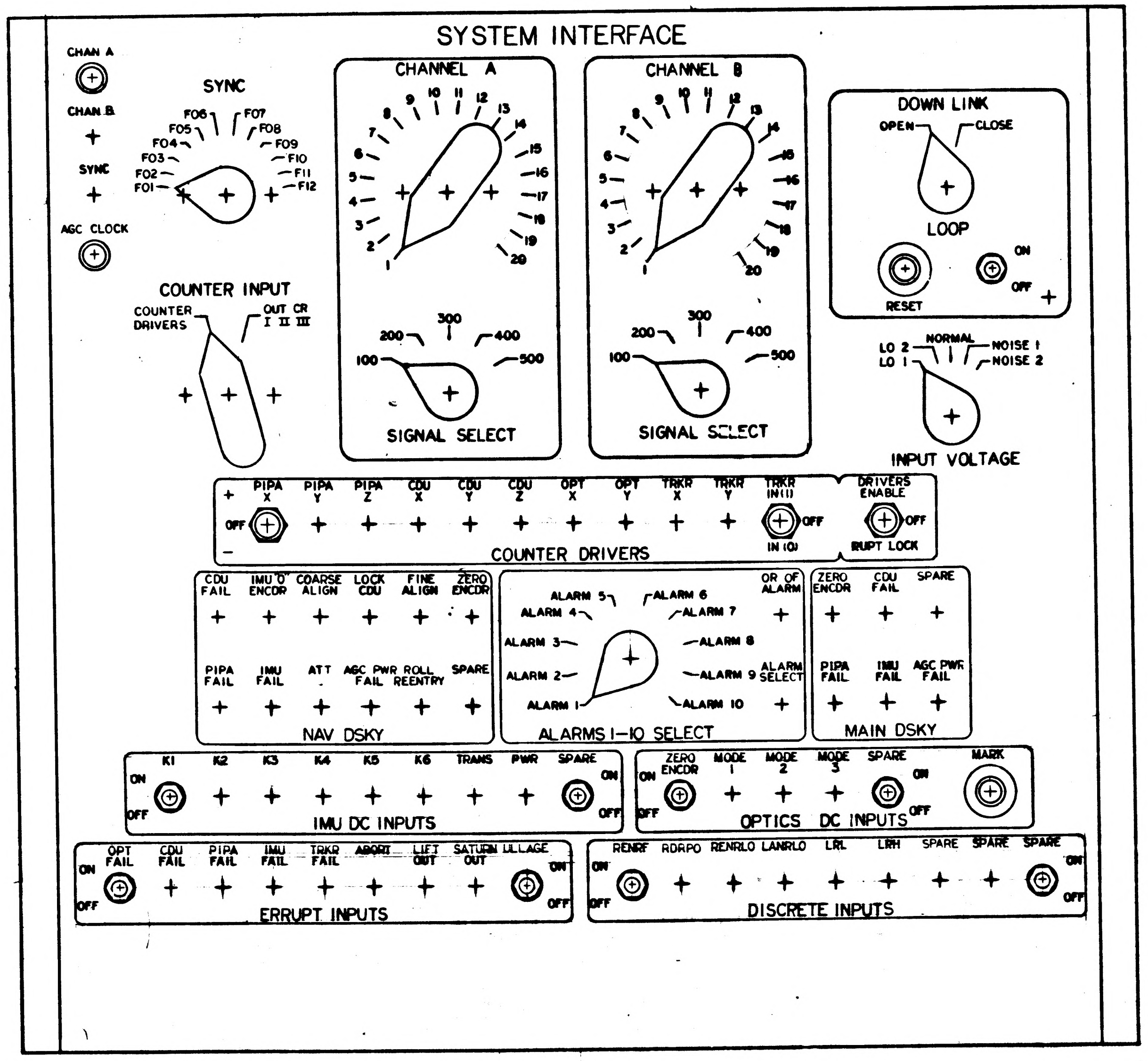
FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 1601 DATE 6/19/63



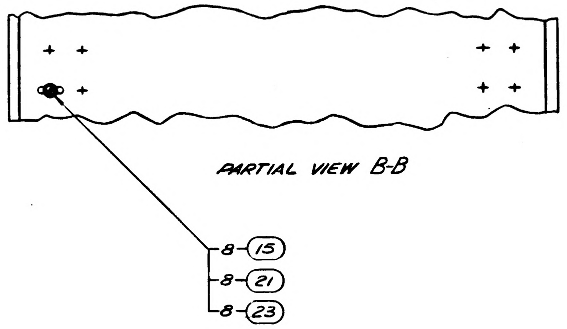
PARTIAL SECTION A-A
SHOWN WITH SLIDE EXTENDED


4-17
4-21
4-23
4-22
2-15
2-21
2-23
2-22

PARTIAL SECTION B-B
SHOWN WITH SLIDE EXTENDED


SYSTEM INTERFACE
CHAN A
CHAN B
SYNC
AGC CLOCK
SYNC
F01
F02
F03
F04
F05
F06
F07
F08
F09
F10
F11
F12
CHANNEL A
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
100 200 300 400 500
SIGNAL SELECT
CHANNEL B
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
100 200 300 400 500
SIGNAL SELECT
DOWN LINK
OPEN
CLOSE
LOOP
RESET
ON
OFF
COUNTER INPUT
COUNTER DRIVERS
OUT CR I II III
LO 2
LO 1
NORMAL
NOISE 1
NOISE 2
INPUT VOLTAGE
PIPA X
PIPA Y
PIPA Z
CDU X
CDU Y
CDU Z
OPT X
OPT Y
TRKR X
TRKR Y
TRKR IN (I)
DRIVERS ENABLE
OFF
IN (O)
RUPT LOCK
COUNTER DRIVERS
CDU FAIL
IMU "0" ENCDR
COARSE ALIGN
LOCK CDU
FINE ALIGN
ZERO ENCDR
PIPA FAIL
IMU FAIL
ATT
AGC PWR FAIL
ROLL REENTRY
SPARE
NAV DSKY
ALARM 1
ALARM 2
ALARM 3
ALARM 4
ALARM 5
ALARM 6
ALARM 7
ALARM 8
ALARM 9
ALARM 10
OR OF ALARM
ALARM SELECT
ALARMS 1-10 SELECT
ZERO ENCDR
CDU FAIL
SPARE
PIPA FAIL
IMU FAIL
AGC PWR FAIL
MAIN DSKY
K1 K2 K3 K4 K5 K6
TRANS
PWR
SPARE
ON
OFF
IMU DC INPUTS
ZERO ENCDR
MODE 1
MODE 2
MODE 3
SPARE
MARK
OPTICS DC INPUTS
OPT FAIL
CDU FAIL
PIPA FAIL
IMU FAIL
TRKR FAIL
ABORT
LIFT OFF
SATURN OUT
ULLAGE
ERRUPT INPUTS
RENRF
RDRPO
RENRLO
LANRLO
LRL
LRH
SPARE
SPARE
SPARE
DISCRETE INPUTS

VIEW D-D
SCALE 1/1



PARTIAL VIEW B-B

NOTES
1. ASSEMBLE FIND NO. 18 TO FIND NO. 9 & 11 USING FIND NO. 16
2. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
3. FOR SYMBOL, FABRICATION & REQUIRED TEST SEE ND1002032

Ⓐ REPLACED WITH CHANGE BY REVISION B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
41	MS35338-80	WASHER LOCK	23
29	MS35649-84	NUT PLAIN HEX	22
41	MS15795-307	WASHER FLAT	21
12	MS21045 C08	NUT SELF LOCKING	20
8	MS35249-52	SCREW FLAT HD SLOTTED	19
6	MS35249-49	SCREW FLAT HD SLOTTED	18
4	MS35249-53	SCREW FLAT HD SLOTTED	17
AR	MIL-S-40083 CL31	SEALING & RETAINING COMP	16
31	MS35233-45	SCREW PAN HD SLOTTED	15
5	RV4NAYSD102A	RESISTOR, VARIABLE / MIL-R-9	14
1	1006930-4	SLIDE	13
1	1006930-3	SLIDE	12
1	1006988-4	SLIDE, CHASSIS	11
1	1006988-2	SLIDE, CHASSIS	10
1	1006988-3	SLIDE, CHASSIS	9
1	1006988-1	SLIDE, CHASSIS	8
1	1014259	LOGIC PLATE ASSY	7
1	1014252	BRACKET, ASSY R.H.	6
1	1014253	BRACKET, ASSY L.H.	5
2	1014255-1	BRACKET ASSY	4
1	1014254	BRACKET, POTENTIOMETER	3
1	1014291	CHASSIS	2
1	1014180	FRONT PANEL ASSY	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN [illegible] DATE 20 May
CHECKED D. Pezzone 31 May 63
APPROVAL [illegible] 10 June 63
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWER ASSEMBLY
SYSTEM INTERFACE

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014295
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014295

SYM	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER TDRR 04578	1/7/64	

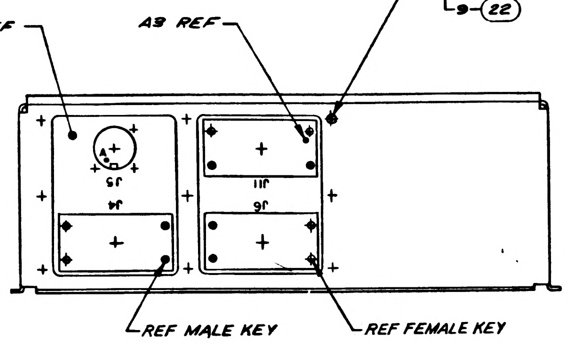
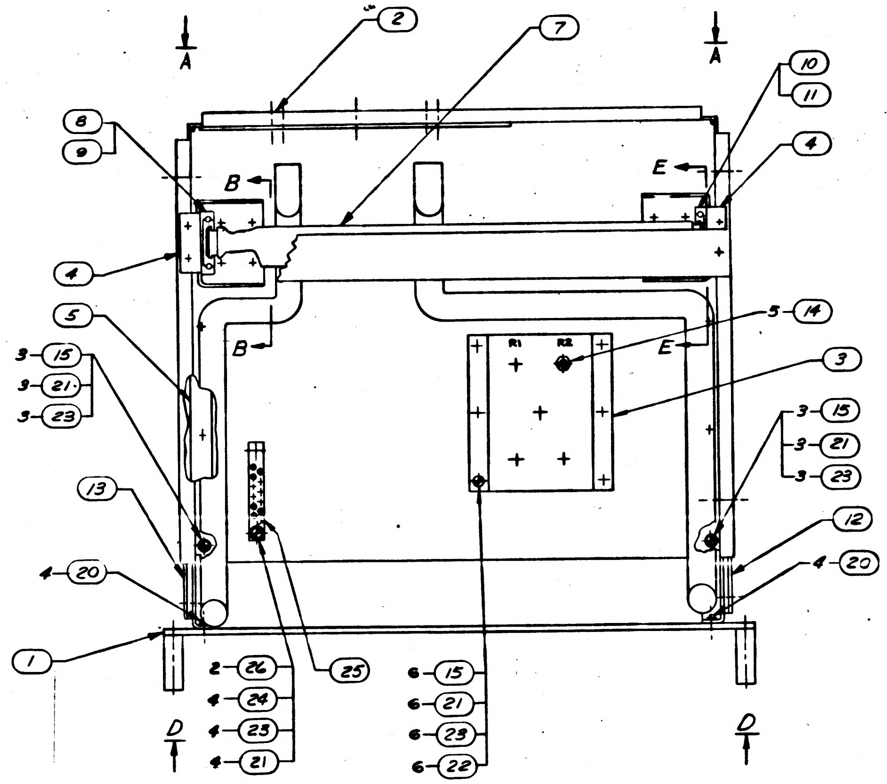


PLATE CONN REF
A9 REF
9-15
9-21
9-23
9-22
J5
J1
J4
J6
REF MALE KEY
REF FEMALE KEY

PARTIAL VIEW A-A



2
7
A
A
8
9
10
11
4
B
E
4
5
B
E
5-14
3
3-15
3-21
3-23
3-15
3-21
3-23
13
12
4-20
4-20
1
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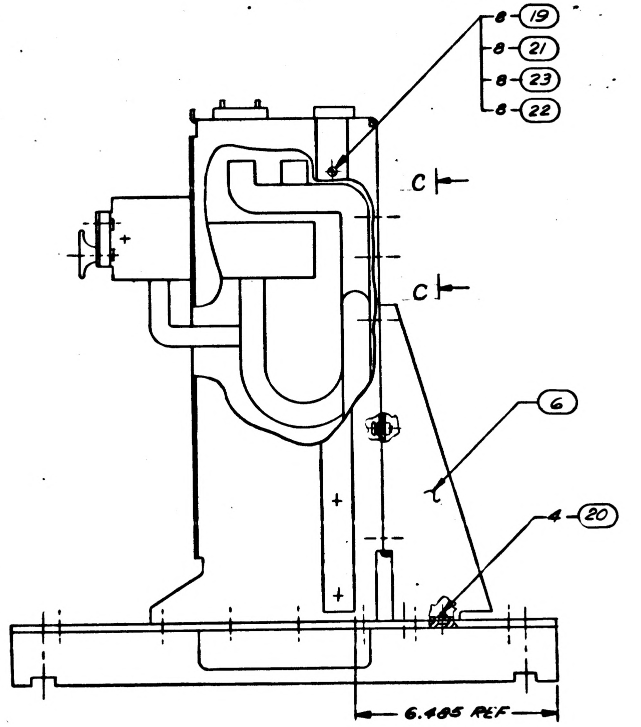
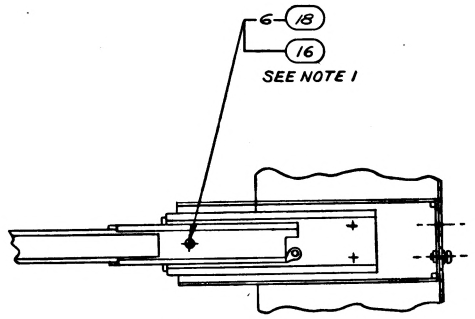
6-23
6-22
D
D
R1
R2



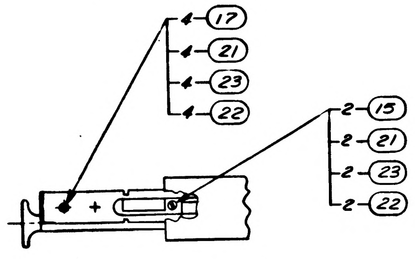
8-19
8-21
8-23
8-22
C
C
6
4-20
6.485 REF

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE



6-18
16
SEE NOTE 1

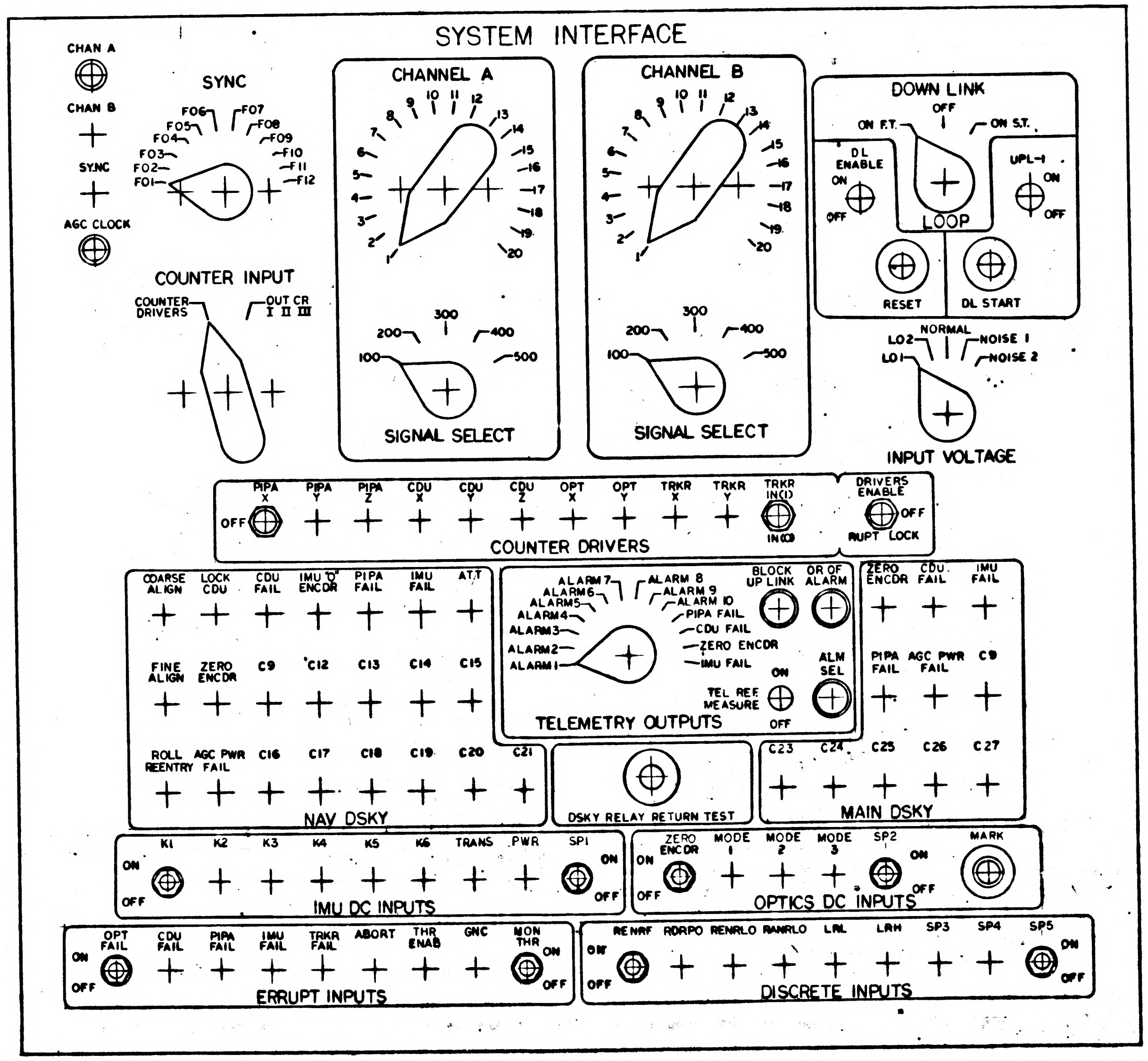
PARTIAL SECTION B-B
SHOWN WITH SLIDE EXTENDED



4-17
4-21
4-23
4-22
2-15
2-21
2-23
2-22

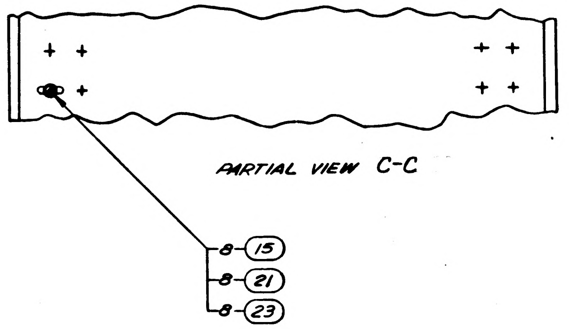
PARTIAL SECTION E-E
SHOWN WITH SLIDE EXTENDED

Ⓑ REPLACES REV A WITH CHANGE



SYSTEM INTERFACE
CHAN A
CHAN B
SYNC
AGC CLOCK
SYNC
F01
F02
F03
F04
F05
F06
F07
F08
F09
F10
F11
F12
COUNTER INPUT
COUNTER DRIVERS
OUT CR
I II III
CHANNEL A
CHANNEL B
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
100
200
300
400
500
SIGNAL SELECT
SIGNAL SELECT
DOWN LINK
ON F.T.
OFF
ON S.T.
DL ENABLE
ON
OFF
UPL-1
ON
OFF
LOOP
RESET
DL START
NORMAL
LO2
LO1
NOISE 1
NOISE 2
INPUT VOLTAGE
PIPA X
PIPA Y
PIPA Z
CDU X
CDU Y
CDU Z
OPT X
OPT Y
TRKR X
TRKR Y
TRKR IN(1)
IN(0)
OFF
DRIVERS ENABLE
OFF
RUPT LOCK
COUNTER DRIVERS
COARSE ALIGN
LOCK CDU
CDU FAIL
IMU "0" ENCDR
PIPA FAIL
IMU FAIL
ATT
FINE ALIGN
ZERO ENCDR
C9
C12
C13
C14
C15
ROLL REENTRY
AGC PWR FAIL
C16
C17
C18
C19
C20
C21
NAV DSKY
ALARM 1
ALARM 2
ALARM 3
ALARM 4
ALARM 5
ALARM 6
ALARM 7
ALARM 8
ALARM 9
ALARM 10
PIPA FAIL
CDU FAIL
ZERO ENCDR
IMU FAIL
BLOCK UP LINK
OR OF ALARM
ON
TEL REF MEASURE
OFF
ALM SEL
TELEMETRY OUTPUTS
DSKY RELAY RETURN TEST
ZERO ENCDR
CDU FAIL
IMU FAIL
PIPA FAIL
AGC PWR FAIL
C9
C23
C24
C25
C26
C27
MAIN DSKY
K1
K2
K3
K4
K5
K6
TRANS
PWR
SP1
ON
OFF
ON
OFF
IMU DC INPUTS
ZERO ENCDR
MODE 1
MODE 2
MODE 3
SP2
MARK
ON
OFF
ON
OFF
OPTICS DC INPUTS
OPT FAIL
CDU FAIL
PIPA FAIL
IMU FAIL
TRKR FAIL
ABORT
THR ENAB
GNC
MON THR
ON
OFF
ON
OFF
ERRUPT INPUTS
RENRF
RDRPO
RENRLO
RANRLO
LRL
LRH
SP3
SP4
SP5
ON
OFF
ON
OFF
DISCRETE INPUTS

VIEW D-D
SCALE 1/1



PARTIAL VIEW C-C

NOT SHOWN

NOTES
1. ASSEMBLE FIND NO. 18 USING FIND NO. 16
2. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES
3. FOR SYMBOLS, FABRICATION & REQUIRED TEST SEE ND1002032

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1014329	SCHEMATIC	REF
1	1014371	LEAD, ELECTRICAL	27
2	NS4AW0212	INSULATOR, SEATITE JAN-I-8	26
1	1020061	GROUNDING STRIP ASSY	25
4	MS 35216-41	SCREW MACHINE, PAN HD	24
45	MS 35338-80	WASHER, LOCK	23
29	MS 35649-84	NUT, PLAIN HEX	22
45	MS 15795-307	WASHER FLAT	21
12	MS 21045 C08	NUT, SELF-LOCKING	20
8	MS 35249-52	SCREW, FLAT HD, SLOTTED	19
6	MS 35249-49	SCREW, FLAT HD, SLOTTED	18
4	MS 35249-53	SCREW, FLAT HD, SLOTTED	17
AR	MIL-S-40083 CL31	SEALING & RETAINING COMP	16
31	MS 35233-45	SCREW, PAN HD, SLOTTED	15
5	RV4NAYSD102A	RESISTOR, VARIABLE/MIL-R-9	14
1	1006930-4	SLIDE	13
1	1006930-3	SLIDE	12
1	1006988-4	SLIDE CHASSIS	11
1	1006988-2	SLIDE CHASSIS	10
1	1006988-3	SLIDE CHASSIS	9
1	1006988-1	SLIDE CHASSIS	8
1	1014259	LOGIC PLATE ASSY	7
1	1014252	BRACKET ASSY, RH	6
1	1014253	BRACKET ASSY, LH	5
2	1014255-1	BRACKET ASSY	4
1	1014254	BRACKET, POTENTIOMETER	3
1	1014291	CHASSIS	2
1	1014180	FRONT PANEL ASSY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

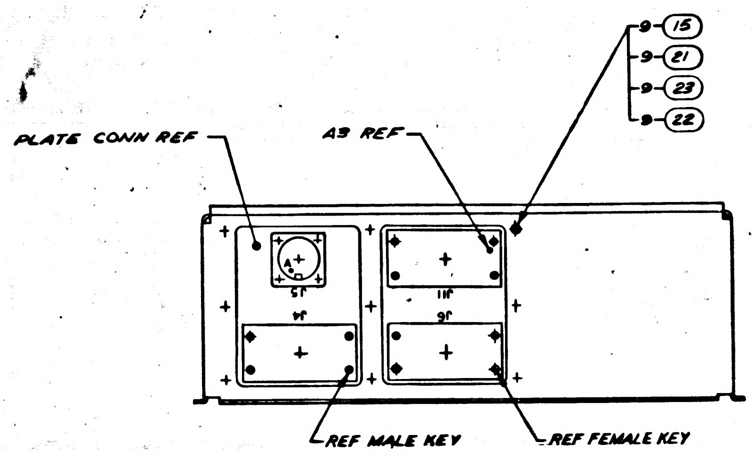
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN E Pallisen DATE 6 SEP 63
CHECKED 12 Dec 63
APPROVAL C. Sjostrom JEK
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

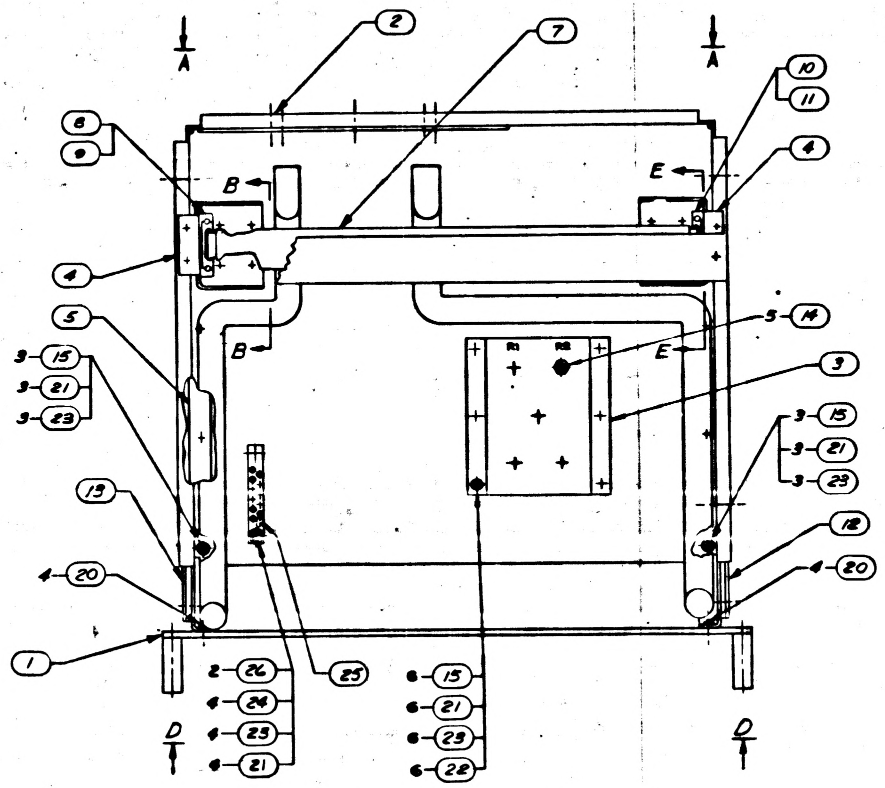
DRAWER ASSEMBLY
SYSTEM INTERFACE

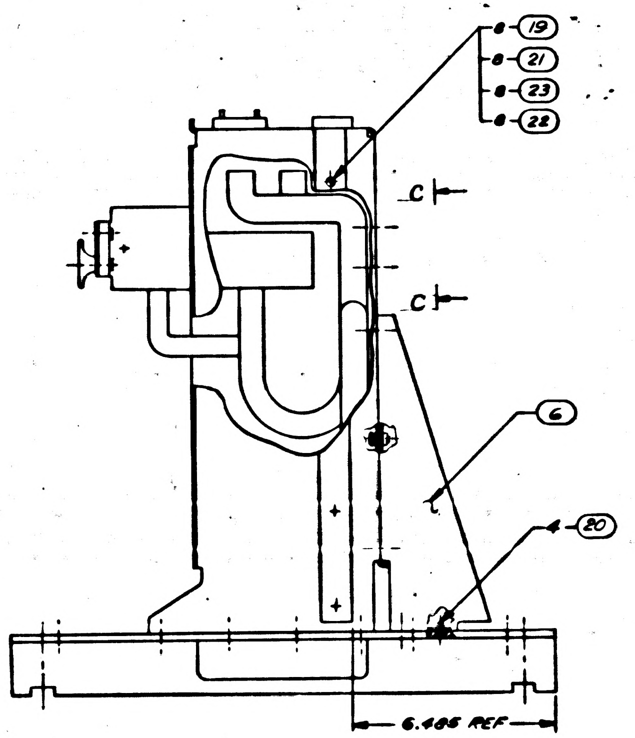
CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014295
SCALE 1/2
WT
SHEET 1 OF 1

SYM	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER TDRR 04518		
C	CLASS II CHANGE PER RD R5799A DR J.P. Leonard CHK APPD		
D	CHANGED PER TDRR NO. 09744 DR J.P. Leonard CHK APPD		

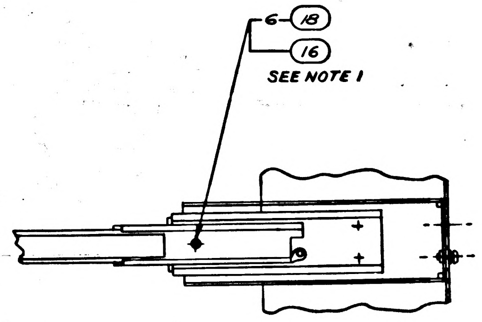

9-(15)
9-(21)
9-(23)
9-(22)
PLATE CONN REF
A3 REF
REF MALE KEY
REF FEMALE KEY

PARTIAL VIEW A-A

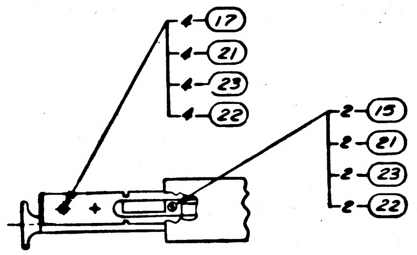

(2)
(7)
(10)
(11)
(4)
(8)
(9)
A
B
E
(4)
(5)
5-(14)
(3)
3-(15)
3-(21)
3-(23)
(19)
(12)
4-(20)
(1)
2-(26)
4-(24)
4-(25)
4-(21)
(25)
6-(15)
6-(21)
6-(23)
6-(22)
D


8-(19)
8-(21)
8-(23)
8-(22)
C
(6)
4-(20)
6.485 REF

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 1601 DATE 6/19/63

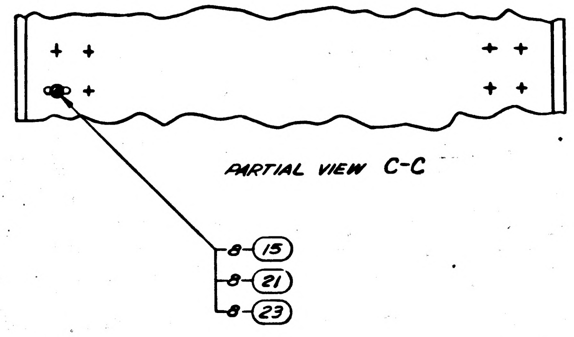

6-(18)
(16)
SEE NOTE 1

PARTIAL SECTION B-B
SHOWN WITH SLIDE EXTENDED

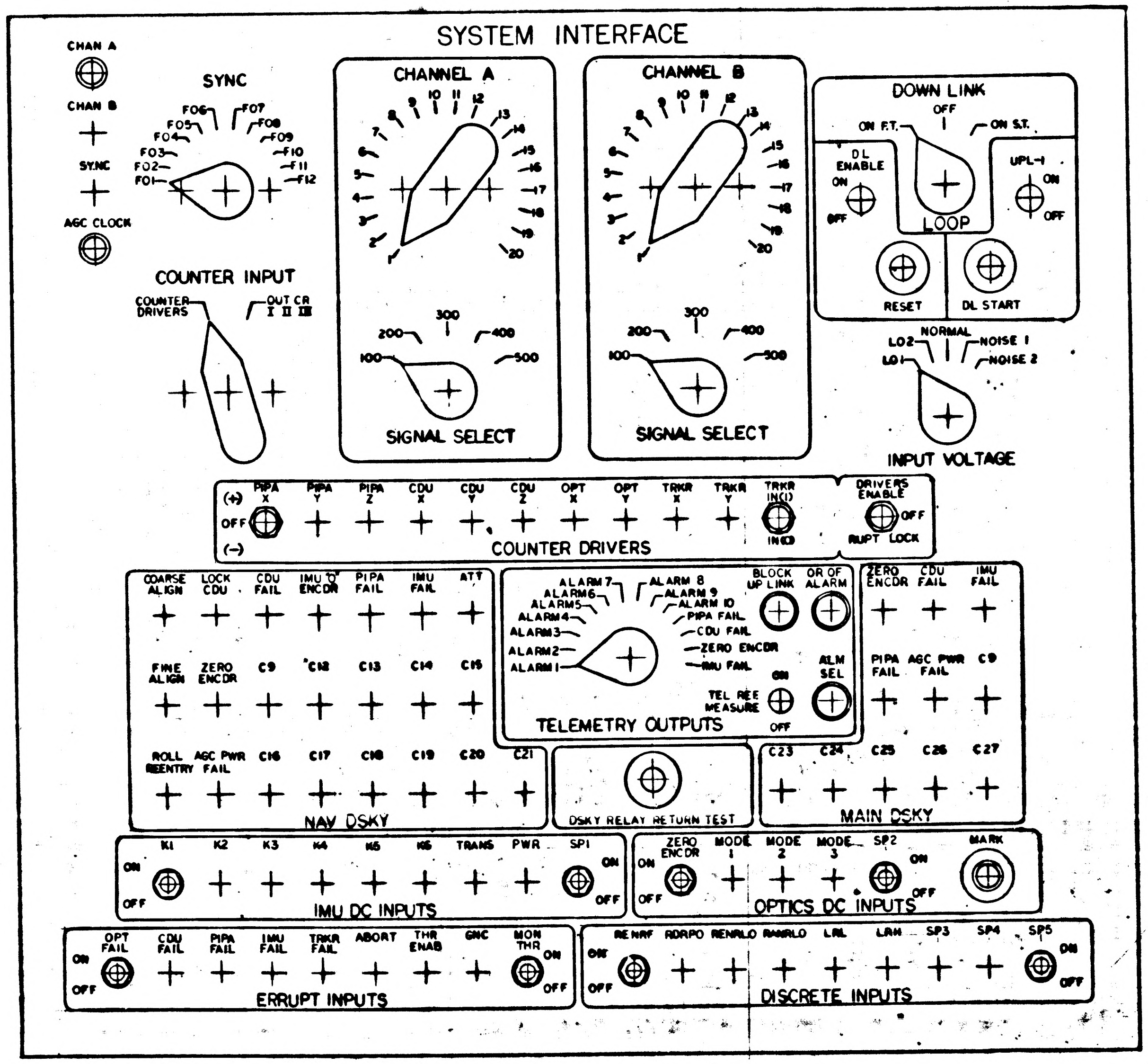

4-(17)
4-(21)
4-(23)
4-(22)
2-(15)
2-(21)
2-(23)
2-(22)

PARTIAL SECTION E-E
SHOWN WITH SLIDE EXTENDED

Ⓑ REPLACES REV A WITH CHANGE



PARTIAL VIEW C-C


SYSTEM INTERFACE
CHAN A
CHAN B
SYNC
AGC CLOCK
SYNC
F01 F02 F03 F04 F05 F06 F07 F08 F09 F10 F11 F12
CHANNEL A
CHANNEL B
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
SIGNAL SELECT
100 200 300 400 500
DOWN LINK
OFF
ON F.T.
ON S.T.
DL ENABLE
ON
OFF
UPL-I
LOOP
RESET
DL START
COUNTER INPUT
COUNTER DRIVERS
OUT CR I II III
NORMAL
LO2
LO1
NOISE 1
NOISE 2
INPUT VOLTAGE
(+)
OFF
(–)
PIPA X
PIPA Y
PIPA Z
CDU X
CDU Y
CDU Z
OPT X
OPT Y
TRKR X
TRKR Y
TRKR IN(I)
IN(O)
DRIVERS ENABLE
RUPT LOCK
COUNTER DRIVERS
COARSE ALIGN
LOCK CDU
CDU FAIL
IMU "0" ENCDR
PIPA FAIL
IMU FAIL
ATT
FINE ALIGN
ZERO ENCDR
C9
C12
C13
C14
C15
ROLL REENTRY
AGC PWR FAIL
C16
C17
C18
C19
C20
C21
NAV DSKY
ALARM 1
ALARM 2
ALARM 3
ALARM 4
ALARM 5
ALARM 6
ALARM 7
ALARM 8
ALARM 9
ALARM 10
PIPA FAIL
CDU FAIL
ZERO ENCDR
IMU FAIL
BLOCK UP LINK
OR OF ALARM
ALM SEL
TEL REE MEASURE
ON
OFF
TELEMETRY OUTPUTS
DSKY RELAY RETURN TEST
ZERO ENCDR
CDU FAIL
IMU FAIL
PIPA FAIL
AGC PWR FAIL
C9
C23
C24
C25
C26
C27
MAIN DSKY
K1 K2 K3 K4 K5 K6
TRANS
PWR
SP1
ON
OFF
IMU DC INPUTS
ZERO ENCDR
MODE 1
MODE 2
MODE 3
SP2
MARK
OPTICS DC INPUTS
OPT FAIL
CDU FAIL
PIPA FAIL
IMU FAIL
TRKR FAIL
ABORT
THR ENAB
GNC
MON THR
ERRUPT INPUTS
RENRF
RDRPO
RENRLO
RANRLO
LRL
LRH
SP3
SP4
SP5
DISCRETE INPUTS

VIEW D-D
SCALE 1/1

JUMPER LIST					
FROM	TO	LENGTH	FIND NO.	LENGTH	FIND NO.
R1-CW	R1-ARM	.75	28	.38	29
R2-CW	R2-ARM				
R3-CW	R3-ARM				
R4-CW	R4-ARM				
R5-CW	R5-ARM	.75	28	.38	29

NOTES
1. ASSEMBLE FIND NO. 18 USING FIND NO. 16
2. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES
3. FOR SYMBOLS, FABRICATION & REQUIRED TEST SEE ND 1002032
4. QQ-W-343, TYPE S, CLASS K FOR FIND NO. 28.
5. MIL-I-631, TYPE F, FORM Ua, GRADE a, CLASS I, CATEGORY I, GAUGE AWG 15, FOR FIND NO. 29.

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
╳	1014329	SCHEMATIC	REF
1.88	SEE NOTE 5	SLEEVING	29
3.75	SEE NOTE 4	WIRE, ELECTRICAL	28
~~1~~	~~1014874~~	~~LEAD, ELECTRICAL~~	~~27~~
2	NS4AW0212	INSULATOR, SEATITE JAN-I-8	26
1	1020061	GROUNDING STRIP ASSY	25
4	MS 35216-41	SCREW MACHINE, PAN HD	24
45	MS 35338-80	WASHER, LOCK	23
29	MS 35649-84	NUT, PLAIN HEX	22
45	MS 15795-307	WASHER FLAT	21
12	MS 21045 C08	NUT, SELF-LOCKING	20
8	MS 35249-52	SCREW, FLAT HD, SLOTTED	19
6	MS 35249-49	SCREW, FLAT HD, SLOTTED	18
4	MS 35249-53	SCREW, FLAT HD, SLOTTED	17
AR	MIL-S-40083 CL 31	SEALING & RETAINING COMP	16
31	MS 35233-45	SCREW, PAN HD, SLOTTED	15
5	RV4NAYSD102A	RESISTOR, VARIABLE/MIL-R-9	14
1	1006930-4	SLIDE	13
1	1006930-3	SLIDE	12
1	1006988-4	SLIDE CHASSIS	11
1	1006988-2	SLIDE CHASSIS	10
1	1006988-3	SLIDE CHASSIS	9
1	1006988-1	SLIDE CHASSIS	8
1	1014259	LOGIC PLATE ASSY	7
1	1014252	BRACKET ASSY, RH	6
1	1014253	BRACKET ASSY, LH	5
2	1014255-1	BRACKET ASSY	4
1	1014254	BRACKET, POTENTIOMETER	3
1	1014291	CHASSIS	2
1	1014180	FRONT PANEL ASSY	1

NEXT ASSY	USED ON
1014156	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-497
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWER ASSEMBLY
SYSTEM INTERFACE

CODE IDENT NO. —
SIZE J
DWG NO. 1014295
SCALE 1/2
SHEET 1 OF 1

1014295

SYM	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER TDRR 04518	11-7-64	
C	CLASS II CHANGE PER RD R5799A DR J.P Leonard CHK	12 MAR 64	
D	CHANGED PER TDRR NO. 09744 DR J.P Leonard CHK APPD	9 JUNE 64	KEO
E	CHANGED PER TDRR NO. 11303 DR CHayward CHK G.C APPD G Marinaro	10 AUG 64	KEO

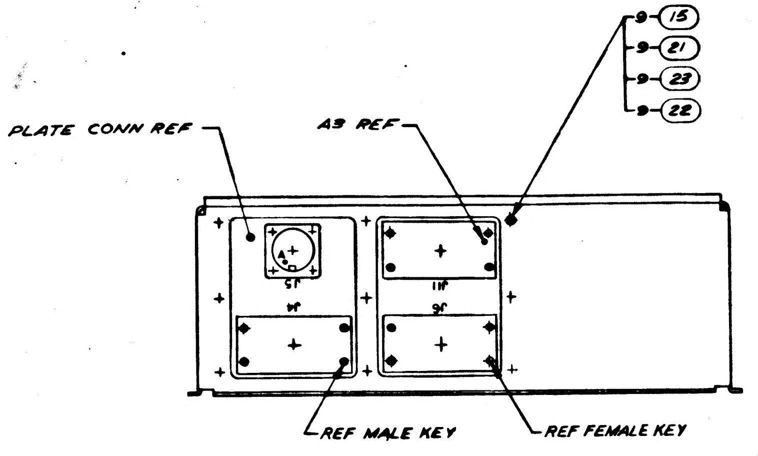
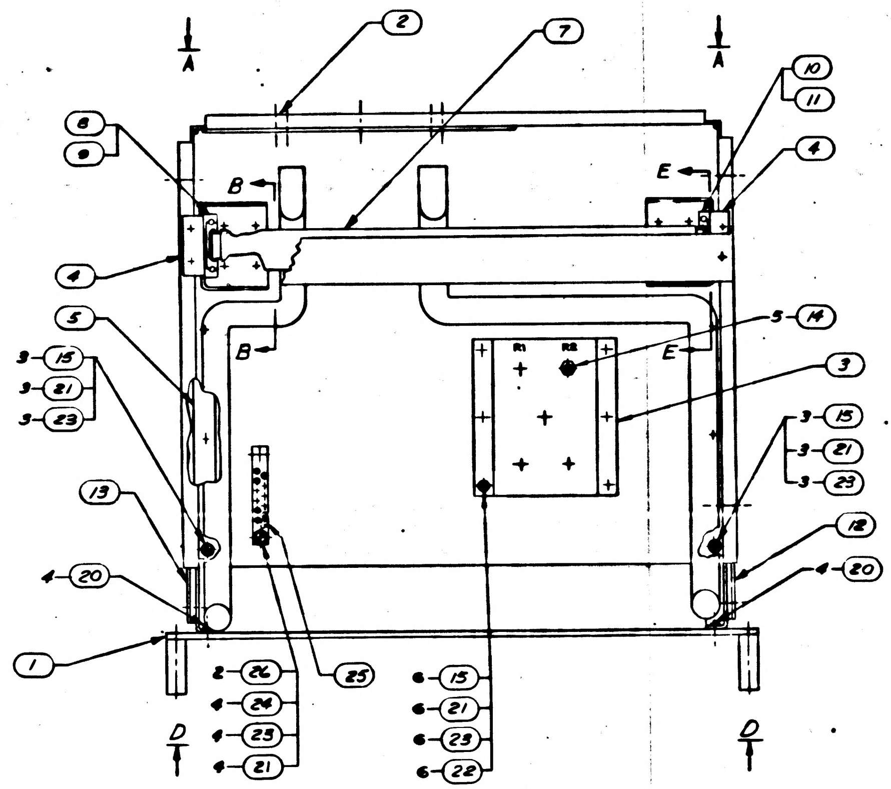
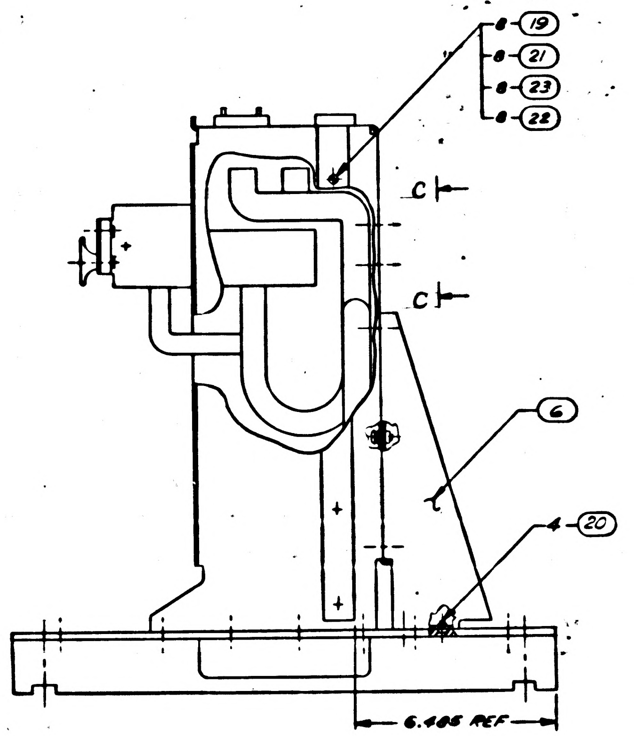


PLATE CONN REF
A9 REF
9-15
9-21
9-23
9-22
REF MALE KEY
REF FEMALE KEY

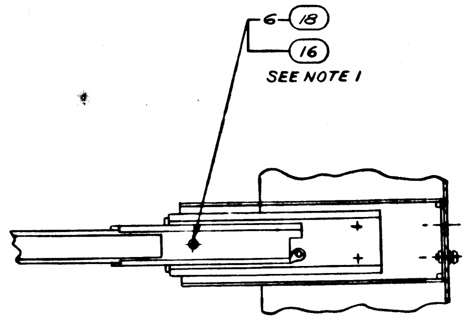
PARTIAL VIEW A-A


A
A
B
B
E
E
C
D
D
2
7
8
9
10
11
4
4
5
3
5-14
3-15
3-21
3-23
13
12
4-20
4-20
1
25
2-26
4-24
4-23
4-21
6-15
6-21
6-23
6-22
R1
R2

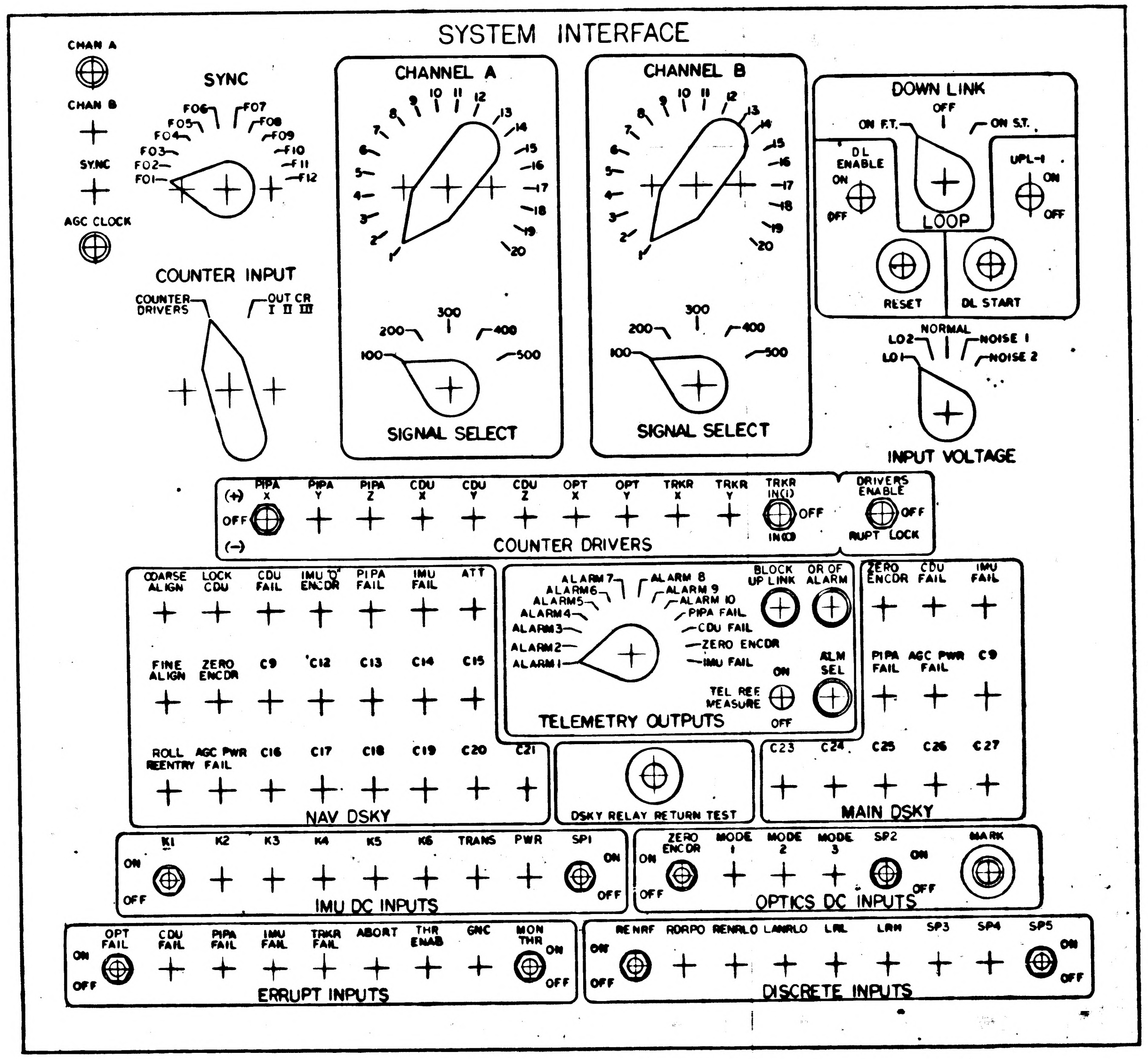

8-19
8-21
8-23
8-22
C
C
6
4-20
6.486 REF

FOR INFORMATION ONLY

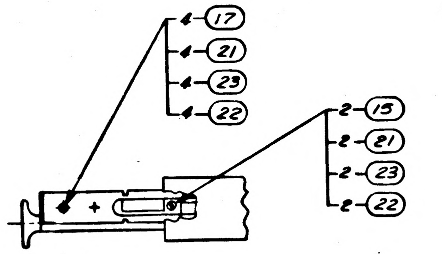
CLASS B RELEASE TDRR NO. 1601 DATE 6/17/63


6-18
16
SEE NOTE 1

PARTIAL SECTION B-B
SHOWN WITH SLIDE EXTENDED

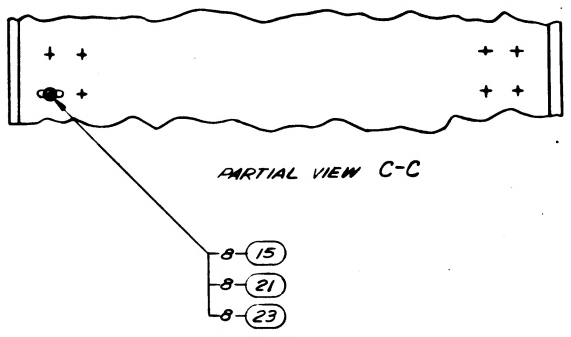

SYSTEM INTERFACE
CHAN A
CHAN B
SYNC
AGC CLOCK
SYNC
F01
F02
F03
F04
F05
F06
F07
F08
F09
F10
F11
F12
COUNTER INPUT
COUNTER DRIVERS
OUT CR I II III
CHANNEL A
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
SIGNAL SELECT
100 200 300 400 500
CHANNEL B
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
SIGNAL SELECT
100 200 300 400 500
DOWN LINK
ON F.T.
OFF
ON S.T.
DL ENABLE
ON
OFF
UPL-1
ON
OFF
LOOP
RESET
DL START
NORMAL
LO2
LO1
NOISE 1
NOISE 2
INPUT VOLTAGE
(+)
OFF
(−)
PIPA X
PIPA Y
PIPA Z
CDU X
CDU Y
CDU Z
OPT X
OPT Y
TRKR X
TRKR Y
TRKR IN(1)
OFF
IN(0)
COUNTER DRIVERS
DRIVERS ENABLE
OFF
RUPT LOCK
COARSE ALIGN
LOCK CDU
CDU FAIL
IMU "0" ENCDR
PIPA FAIL
IMU FAIL
ATT
FINE ALIGN
ZERO ENCDR
C9
C12
C13
C14
C15
ROLL REENTRY
AGC PWR FAIL
C16
C17
C18
C19
C20
C21
NAV DSKY
ALARM 1
ALARM 2
ALARM 3
ALARM 4
ALARM 5
ALARM 6
ALARM 7
ALARM 8
ALARM 9
ALARM 10
PIPA FAIL
CDU FAIL
ZERO ENCDR
IMU FAIL
BLOCK UP LINK
OR OF ALARM
ON
TEL REF MEASURE
OFF
ALM SEL
TELEMETRY OUTPUTS
DSKY RELAY RETURN TEST
ZERO ENCDR
CDU FAIL
IMU FAIL
PIPA FAIL
AGC PWR FAIL
C9
C23
C24
C25
C26
C27
MAIN DSKY
ON
OFF
K1
K2
K3
K4
K5
K6
TRANS
PWR
SP1
ON
OFF
IMU DC INPUTS
ON
OFF
ZERO ENCDR
MODE 1
MODE 2
MODE 3
SP2
ON
OFF
MARK
OPTICS DC INPUTS
ON
OFF
OPT FAIL
CDU FAIL
PIPA FAIL
IMU FAIL
TRKR FAIL
ABORT
THR ENAB
GNC
MON THR
ON
OFF
ERRUPT INPUTS
ON
OFF
RENRF
RORPO
RENRLO
LANRLO
LRL
LRH
SP3
SP4
SP5
ON
OFF
DISCRETE INPUTS

VIEW D-D
SCALE 1/1


4-17
4-21
4-23
4-22
2-15
2-21
2-23
2-22

PARTIAL SECTION E-E
SHOWN WITH SLIDE EXTENDED

Ⓑ REPLACES REV A WITH CHANGE



PARTIAL VIEW C-C

JUMPER LIST					
FROM	TO	LENGTH	FIND NO.	LENGTH	FIND NO.
R1-CW	R1-ARM	.75	28	.38	29
R2-CW	R2-ARM				
R3-CW	R3-ARM				
R4-CW	R4-ARM				
R5-CW	R5-ARM	.75	28	.38	29

NOTES

1. ASSEMBLE FIND NO. 18 USING FIND NO. 16
2. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES
3. FOR SYMBOLS, FABRICATION & REQUIRED TEST SEE ND 1002032
4. QQ-W-343, TYPE S, CLASS K FOR FIND NO. 28
5. MIL-I-631, TYPE F, FORM Ua, GRADE a, CLASS I, CATEGORY I, GAUGE AWG 15, FOR FIND NO. 29.

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1014329	SCHEMATIC	REF
1.88	SEE NOTE 5	SLEEVING	29
3.75	SEE NOTE 4	WIRE, ELECTRICAL	28
~~1~~	~~[illegible]~~	~~LEAD, ELECTRICAL~~	~~27~~
2	NS4AW0212	INSULATOR, STEATITE JAN-I-8	26
1	1020061	GROUNDING STRIP ASSY	25
4	MS 35216-41	SCREW MACHINE, PAN HD	24
45	MS 35338-80	WASHER, LOCK	23
29	MS 35649-84	NUT, PLAIN HEX	22
45	MS 15795-307	WASHER FLAT	21
12	MS 21045 C08	NUT, SELF-LOCKING	20
8	MS 35249-52	SCREW, FLAT HD, SLOTTED	19
6	MS 35249-49	SCREW, FLAT HD, SLOTTED	18
4	MS 35249-53	SCREW, FLAT HD, SLOTTED	17
AR	MIL-S-40083 CL31	SEALING & RETAINING COMP	16
31	MS 35233-45	SCREW, PAN HD, SLOTTED	15
5	RV4NAYSD102A	RESISTOR, VARIABLE/MIL-R-94	14
1	1006930-4	SLIDE	13
1	1006930-3	SLIDE	12
1	1006988-4	SLIDE CHASSIS	11
1	1006988-2	SLIDE CHASSIS	10
1	1006988-3	SLIDE CHASSIS	9
1	1006988-1	SLIDE CHASSIS	8
1	1014259	LOGIC PLATE ASSY	7
1	1014252	BRACKET ASSY, RH	6
1	1014253	BRACKET ASSY, LH	5
2	1014255-1	BRACKET ASSY	4
1	1014254	BRACKET, POTENTIOMETER	3
1	1014291	CHASSIS	2
1	1014180	FRONT PANEL ASSY	1

~~NOT SHOWN~~

NEXT ASSY	USED ON
1014156	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN E Pallman DATE 6 SEPT
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWER ASSEMBLY
SYSTEM INTERFACE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014295
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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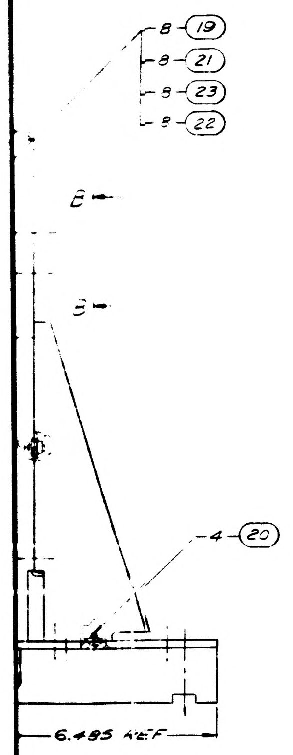
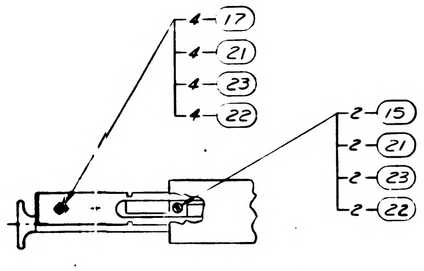
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 1601	6/19/63	K.E.K.



FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 1601 DATE 6/19/63



PARTIAL SECTION B-B
SHOWN WITH SLIDE EXTENDED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
41	MS35338-80	WASHER LOCK	23
29	MS35649-84	NUT PLAIN HEX	22
41	MS15795-307	WASHER FLAT	21
12	MS21045 C08	NUT SELF LOCKING	20
8	MS35249-52	SCREW FLAT HD SLOTTED	19
6	MS35249-49	SCREW FLAT HD SLOTTED	18
4	MS35249-53	SCREW FLAT HD SLOTTED	17
AR	MIL-S-40083 CL31	SEALING & RETAINING COMP	16
31	MS35233-45	SCREW PAN HD SLOTTED	15
5	RV4NAYSD102A	RESISTOR, VARIABLE/MIL-R-9	14
1	1006930-4	SLIDE	13
1	1006930-3	SLIDE	12
1	1006988-4	SLIDE, CHASSIS	11
1	1006988-2	SLIDE, CHASSIS	10
1	1006988-3	SLIDE, CHASSIS	9
1	1006988-1	SLIDE, CHASSIS	8
1	1014259	LOGIC PLATE ASSY	7
1	1014252	BRACKET, ASSY R.H.	6
1	1014253	BRACKET, ASSY L.H.	5
2	1014255-1	BRACKET, ASSY	4
1	1014254	BRACKET, POTENTIOMETER	3
1	1014291	CHASSIS	2
1	1014180	FRONT PANEL ASSY	1

LIST OF MATERIALS

1014295

1014196		
NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN D. Bl... DATE 20 May
CHECKED A. Pezzone 31 May 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

DRAWER ASSEMBLY
SYSTEM INTERFACE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014295
SCALE 1/2
WT
SHEET 1 OF 1

1014295

INCHES
PHOTOGRAPHIC SCALE ONLY

F2

1014295

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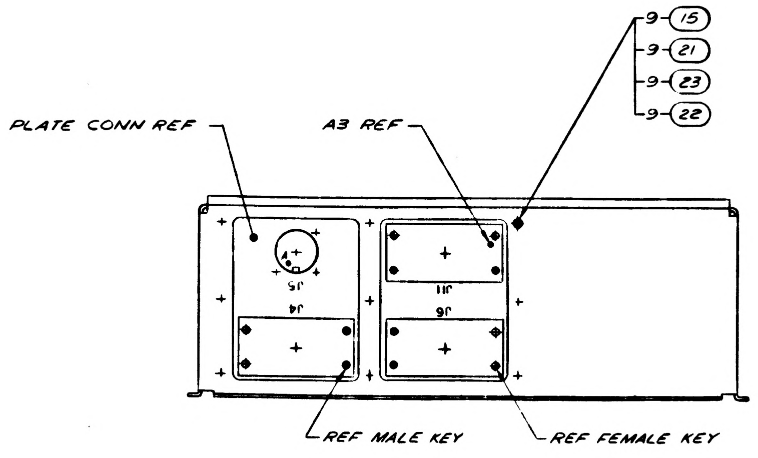
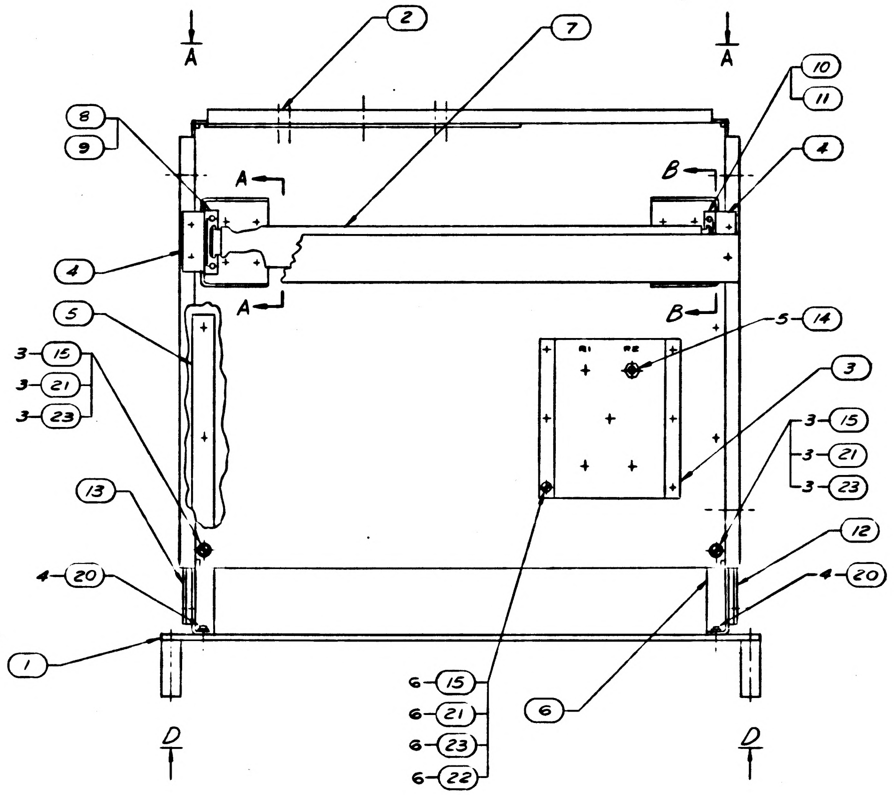
REVISIONS

SYM	DESCRIPTION	DATE
—	CL B RELEASED PER TDRR	


9-15
9-21
9-23
9-22
PLATE CONN REF
A3 REF
J5
J4
J11
J6
REF MALE KEY
REF FEMALE KEY

PARTIAL VIEW A-A


A
A
2
7
8
9
10
11
4
4
A
A
B
B
5-14
5
3
3-15
3-21
3-23
3-15
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1
6
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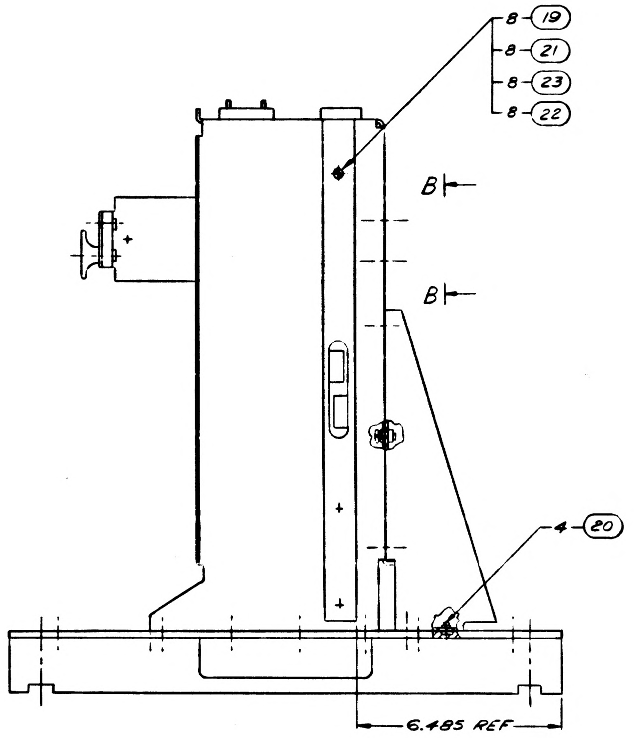
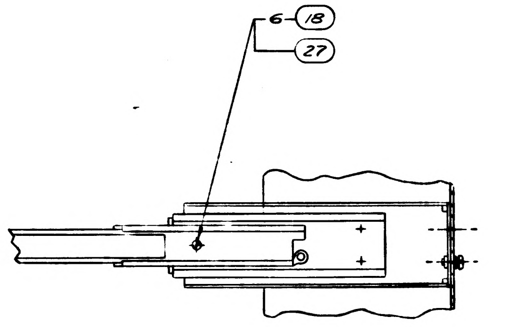
6-21
6-23
6-22
D
D

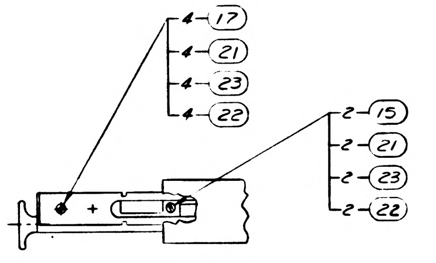

8-19
8-21
8-23
8-22
B
B
4-20
6.485 REF

FOR INFORMATION ONLY

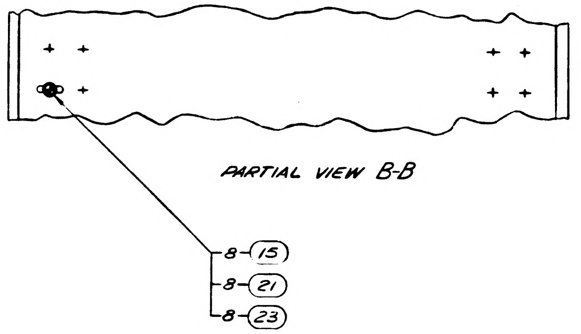
CLASS B RELEASE PER TDRR NO. 1..01 DATE 6/19/



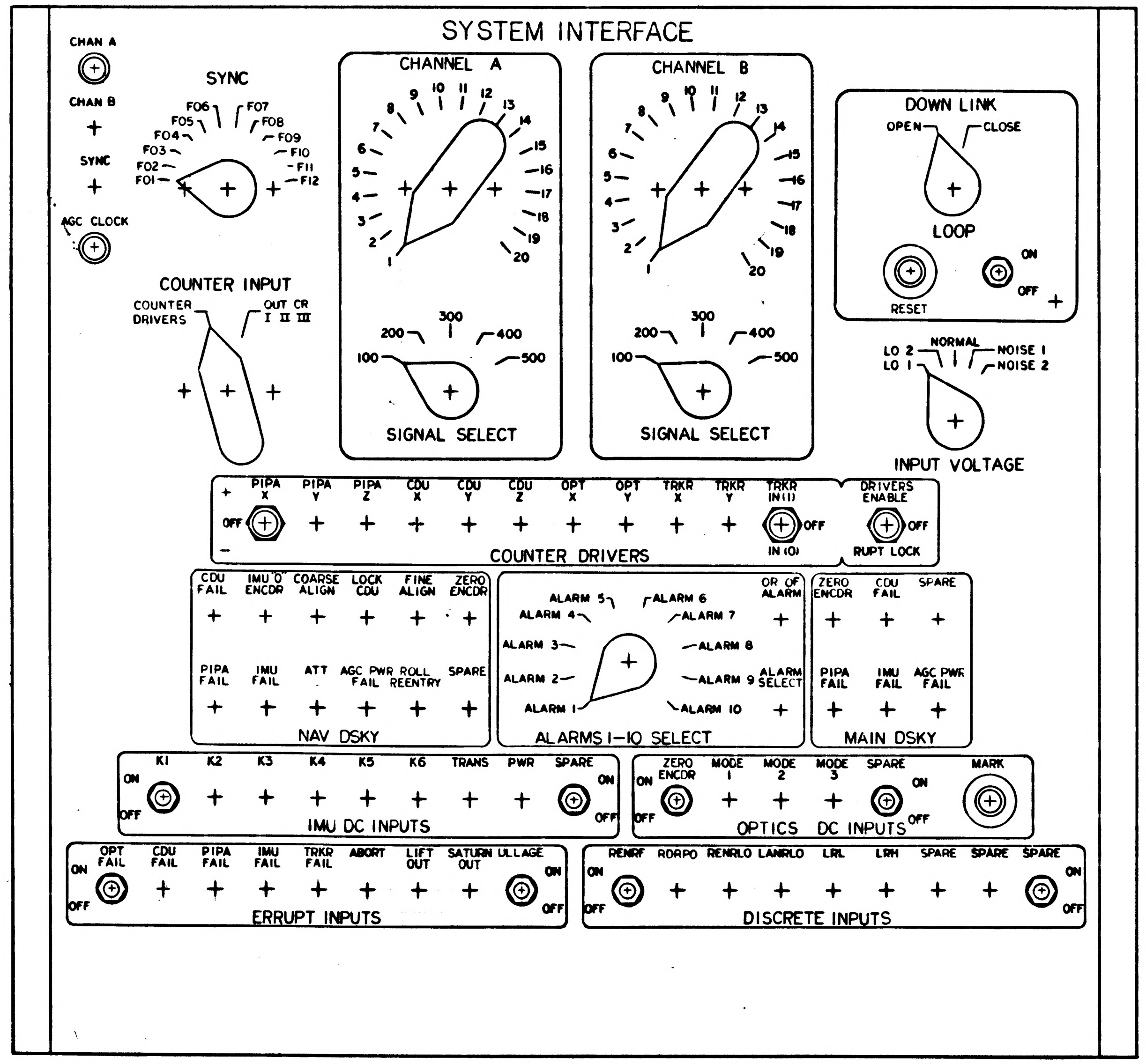
PARTIAL SECTION A-A
SHOWN WITH SLIDE EXTENDED


4-17
4-21
4-23
4-22
2-15
2-21
2-23
2-22

PARTIAL SECTION B-B
SHOWN WITH SLIDE EXTENDED



PARTIAL VIEW B-B


SYSTEM INTERFACE
CHAN A
CHAN B
SYNC
AGC CLOCK
SYNC
F01
F02
F03
F04
F05
F06
F07
F08
F09
F10
F11
F12
COUNTER INPUT
COUNTER DRIVERS
OUT CR I II III
CHANNEL A
CHANNEL B
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
100
200
300
400
500
SIGNAL SELECT
SIGNAL SELECT
DOWN LINK
OPEN
CLOSE
LOOP
RESET
ON
OFF
LO 2
LO 1
NORMAL
NOISE 1
NOISE 2
INPUT VOLTAGE
PIPA X
PIPA Y
PIPA Z
CDU X
CDU Y
CDU Z
OPT X
OPT Y
TRKR X
TRKR Y
TRKR IN (1)
IN (0)
DRIVERS ENABLE
RUPT LOCK
OFF
COUNTER DRIVERS
CDU FAIL
IMU "0" ENCDR
COARSE ALIGN
LOCK CDU
FINE ALIGN
ZERO ENCDR
PIPA FAIL
IMU FAIL
ATT
AGC PWR FAIL
ROLL REENTRY
SPARE
NAV DSKY
ALARM 1
ALARM 2
ALARM 3
ALARM 4
ALARM 5
ALARM 6
ALARM 7
ALARM 8
ALARM 9
ALARM 10
OR OF ALARM
ALARM SELECT
ALARMS 1–10 SELECT
ZERO ENCDR
CDU FAIL
SPARE
PIPA FAIL
IMU FAIL
AGC PWR FAIL
MAIN DSKY
K1
K2
K3
K4
K5
K6
TRANS
PWR
SPARE
IMU DC INPUTS
ZERO ENCDR
MODE 1
MODE 2
MODE 3
SPARE
MARK
OPTICS DC INPUTS
OPT FAIL
CDU FAIL
PIPA FAIL
IMU FAIL
TRKR FAIL
ABORT
LIFT OUT
SATURN OUT
ULLAGE
ERRUPT INPUTS
RENRF
RDRPO
RENRLO
LANRLO
LRL
LRH
SPARE
SPARE
SPARE
DISCRETE INPUTS

VIEW D-D
SCALE 1/1

NOTES
1. ASSEMBLE FIND NO. 18 TO FIND NO. 9 & 11 USING FIND NO. 16
2. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
3. FOR SYMBOL, FABRICATION & REQUIRED TEST SEE ND 1002032

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
41	MS35338-80	WASHER LOCK
29	MS35649-84	NUT PLAIN HEX
41	MS15795-307	WASHER FLAT
12	MS21045 C08	NUT SELF LOCKING
8	MS35249-52	SCREW FLAT HD SLOTTE
6	MS35249-49	SCREW FLAT HD SLOTTE
4	MS35249-53	SCREW FLAT HD SLOTTE
AR	MIL-S-40083 CL31	SEALING & RETAINING COMP
31	MS35233-45	SCREW PAN HD SLOTTED
5	RV4NAYSD102A	RESISTOR, VARIABLE / MIL-R
1	1006930-4	SLIDE
1	1006930-3	SLIDE
1	1006988-4	SLIDE, CHASSIS
1	1006988-2	SLIDE, CHASSIS
1	1006988-3	SLIDE, CHASSIS
1	1006988-1	SLIDE, CHASSIS
1	1014259	LOGIC PLATE ASSY
1	1014252	BRACKET ASSY R.H.
1	1014253	BRACKET ASSY L.H.
[illegible]	1014255-1	BRACKET ASSY
1	1014254	BRACKET, POTENTIOMET
1	1014291	CHASSIS
1	1014180	FRONT PANEL ASSY

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
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FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN D. Bi[illegible] DATE 20 Mar
CHECKED R. [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

DRAWER ASSEMBLY
SYSTEM INTERFACE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014295
SCALE 1/2
WT
SHEET 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
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F1 1014295

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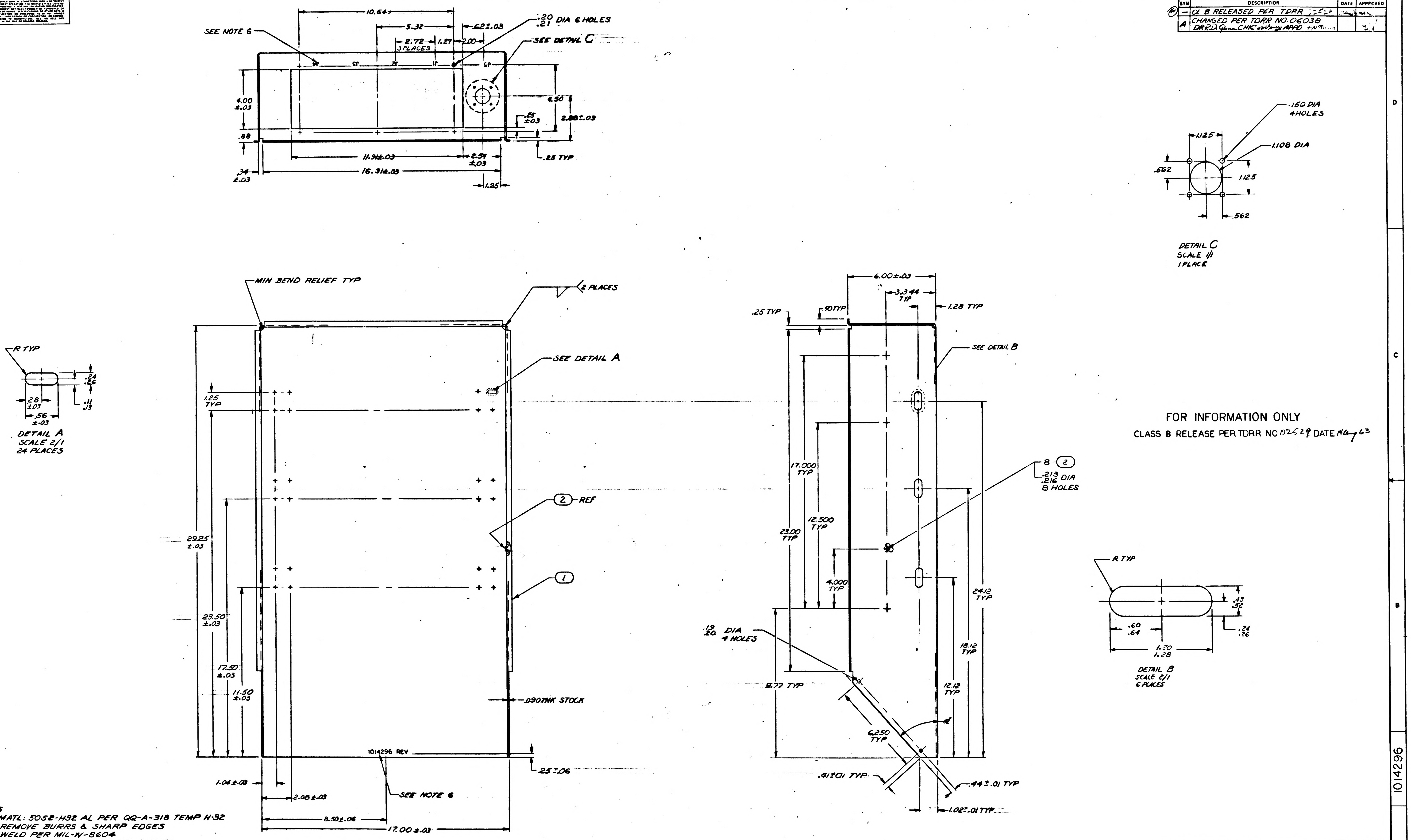
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR NO. 06038 DR R.D. Glenn CHK APPD		



10.64
5.32
2.72 3 PLACES
1.27
2.00
.62±.03
.20 .21 DIA 6 HOLES
SEE DETAIL C
SEE NOTE 6
4.00 ±.03
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4.50
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.25 ±.03
.25 TYP
11.31±.03
2.51 ±.03
16.31±.03
.34 ±.03
1.25
.160 DIA 4 HOLES
1.125
1.108 DIA
.562
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DETAIL C
SCALE 1/1
1 PLACE
R TYP
.24 .26
.11 .13
.28 ±.03
.56 ±.03
DETAIL A
SCALE 2/1
24 PLACES
MIN BEND RELIEF TYP
2 PLACES
SEE DETAIL A
1.25 TYP
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29.25 ±.03
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.090THK STOCK
1014296 REV
.25±.06
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SEE NOTE 6
8.50±.06
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3.344 TYP
1.28 TYP
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17.000 TYP
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8 2
.213 .216 DIA 8 HOLES
24.12 TYP
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.19 .20 DIA 4 HOLES
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R TYP
.48 .52
.60 .64
1.20 1.28
.24 .26
DETAIL B
SCALE 2/1
6 PLACES

FOR INFORMATION ONLY

CLASS B RELEASE PER TDRR NO 02529 DATE May 63

NOTES
1. MATL: 5052-H32 AL PER QQ-A-318 TEMP H-32
2. REMOVE BURRS & SHARP EDGES
3. WELD PER MIL-W-8604
4. CHROMATE TREAT PER MIL-C-5541
5. ALL BEND RADII .06
6. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
8	1006989-15	NUT, PLAIN SELF-CLINCH.	2
1	1014296-1	CHASSIS,	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014309	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±.005 ±.02
ANGLES ±1°
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTES

HEAT TREATMENT

FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO. NAS 9-498

DRAWN A. Vorce DATE 15 May 63
CHECKED
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

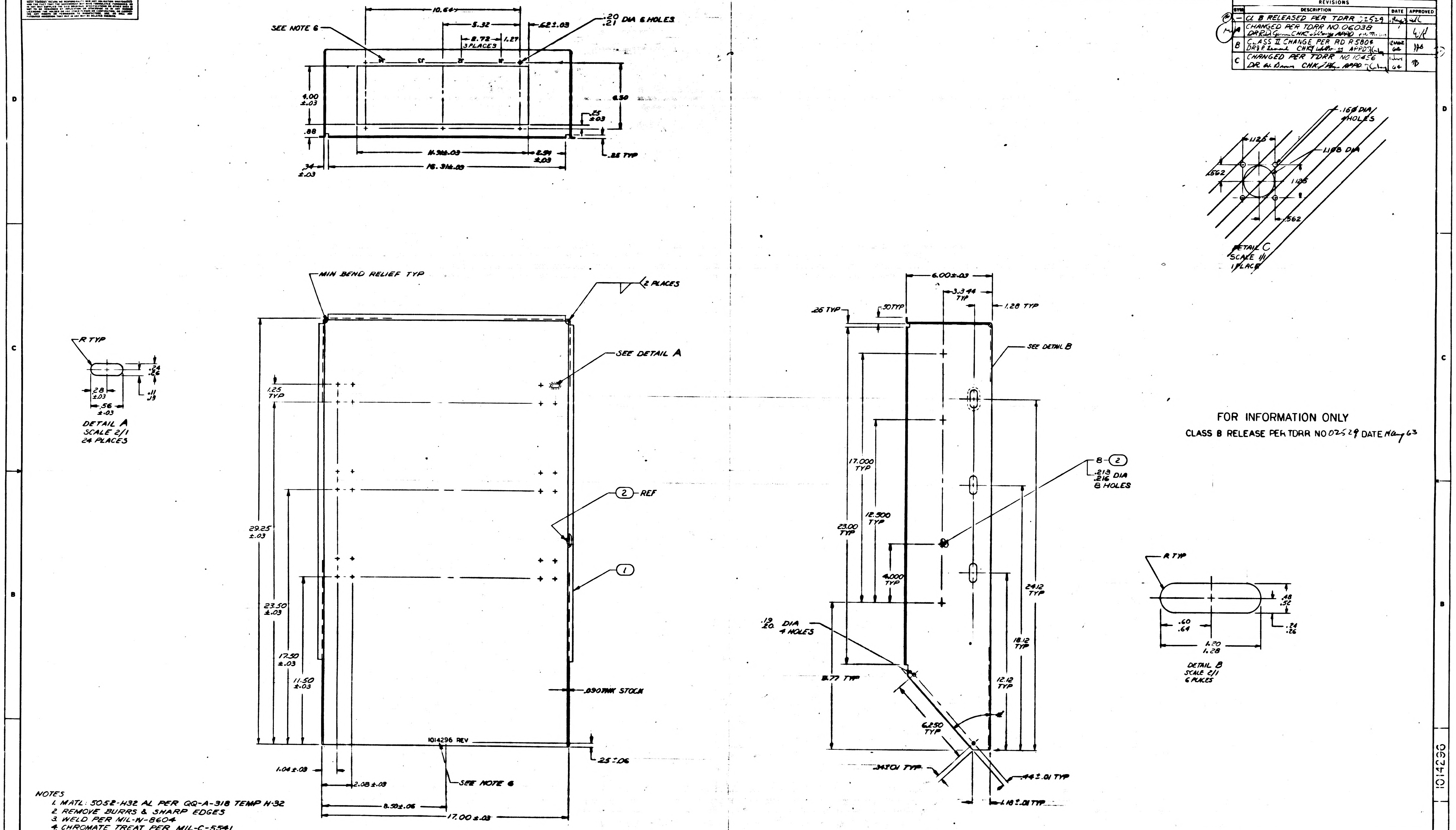
CHASSIS
PROGRAMMER AND MONITOR

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014296
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014296

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 02529	14 May 63	
A	CHANGED PER TDRR NO. 06038 DR R.D. Ginn CHK APPD		
B	CLASS II CHANGE PER RD R5804 DR J.P. Leonard CHK APPD	12 MAR 64	
C	CHANGED PER TDRR NO 10456 DR. W. Dawson CHK. APPD.	1 July 64	



SEE NOTE 6
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.11 .13
DETAIL A
SCALE 2/1
24 PLACES
MIN BEND RELIEF TYP
2 PLACES
SEE DETAIL A
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29.25 ±.03
23.50 ±.03
17.50 ±.03
11.50 ±.03
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.090THK STOCK
1014296 REV
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1.04±.03
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SEE NOTE 6
8.50±.06
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SEE DETAIL B
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.213 .216 DIA 8 HOLES
24.12 TYP
18.12 TYP
12.12 TYP
.19 .20 DIA 4 HOLES
5.77 TYP
6.250 TYP
.34±.01 TYP
.44±.01 TYP
1.18±.01 TYP
.160 DIA 4 HOLES
1.125
1.188 DIA
.562
DETAIL C
SCALE 1/1
1 PLACE
R TYP
.48 .52
.60 .64
.24 .26
1.20 1.28
DETAIL B
SCALE 2/1
6 PLACES

FOR INFORMATION ONLY

CLASS B RELEASE PER TDRR NO 02529 DATE 14 May 63

NOTES

1. MATL: 5052-H32 AL PER QQ-A-318 TEMP H-32
2. REMOVE BURRS & SHARP EDGES
3. WELD PER MIL-W-8604
4. CHROMATE TREAT PER MIL-C-5541
5. ALL BEND RADII .06
6. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
8	1006989-15	NUT, PLAIN SELF-CLINCH.	2
1	1014296-1	CHASSIS,	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014309	

APPLICATION

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DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTES

HEAT TREATMENT

FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498

DRAWN A. Force DATE 15 Mar 63
CHECKED 29 Jul 63
APPROVAL 5/1/63
APPROVAL 5/8/63
APPROVAL
NASA APPROVAL Jack Bernard
MIT APPROVAL
MIT APPROVAL 14 May 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS
PROGRAMMER AND MONITOR

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014296
SCALE 1/2
WT
SHEET 1 OF 1

1014296

1014296

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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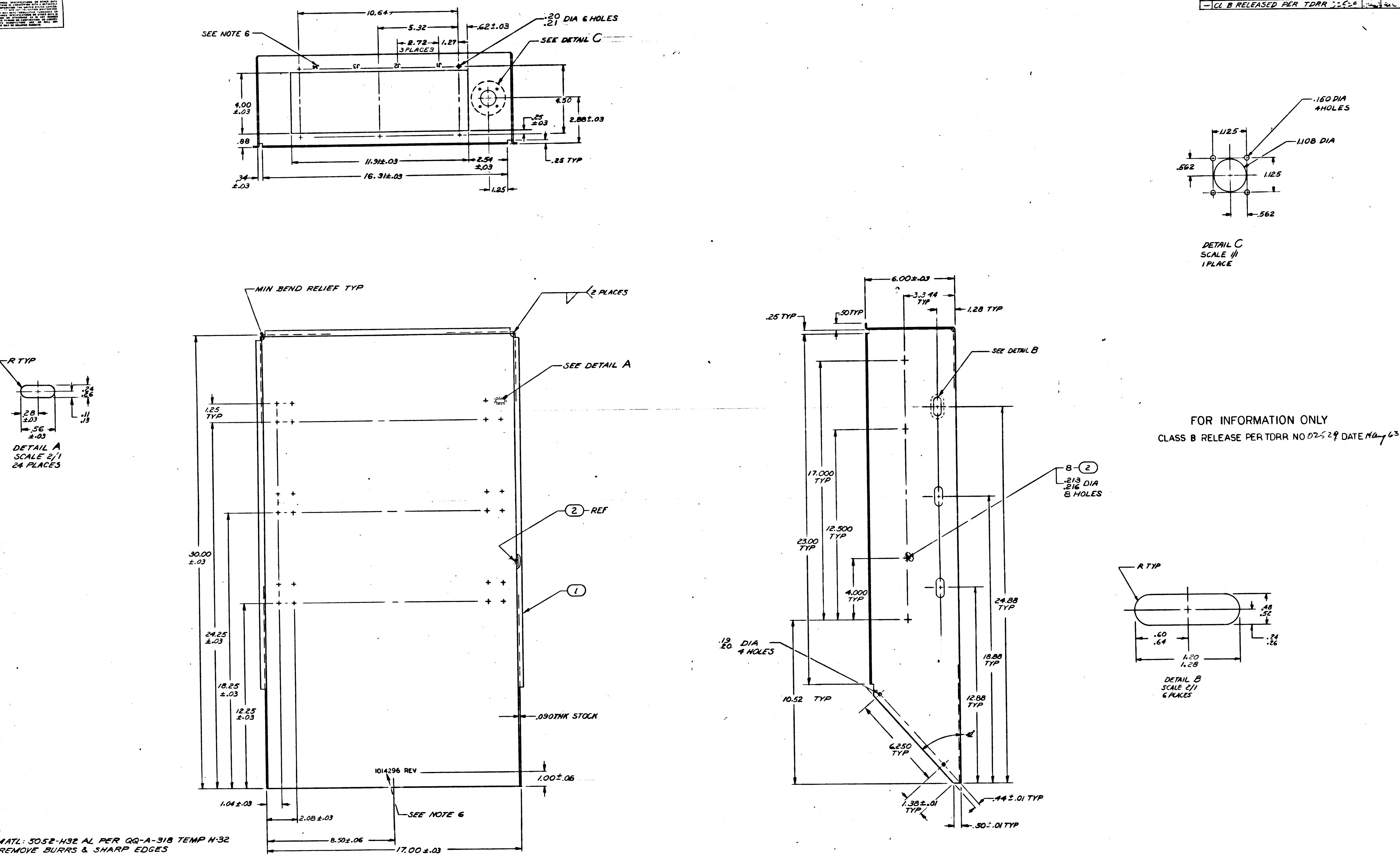

SEE NOTE 6
10.64
5.32
2.72 3 PLACES
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.20 .21 DIA 6 HOLES
SEE DETAIL C
4.00 ±.03
4.50
.25 ±.03
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2.54 ±.03
.25 TYP
.34 ±.03
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.160 DIA 4 HOLES
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1.108 DIA
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DETAIL C SCALE 1/1 1 PLACE
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DETAIL A SCALE 2/1 24 PLACES
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18.25 ±.03
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1014296 REV
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SEE NOTE 6
8.50±.06
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3.344 TYP
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SEE DETAIL B
17.000 TYP
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.213 .216 DIA 8 HOLES
24.88 TYP
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.60 .64
.24 .26
1.20 1.28
DETAIL B SCALE 2/1 6 PLACES

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO 02529 DATE May 63

NOTES
1. MATL: 5052-H32 AL PER QQ-A-318 TEMP H-32
2. REMOVE BURRS & SHARP EDGES
3. WELD PER MIL-W-8604
4. CHROMATE TREAT PER MIL-C-5541
5. ALL BEND RADII .06
6. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
8	1006989-15	NUT, PLAIN SELF-CLINCH.	2
1	1014296-1	CHASSIS,	1

LIST OF MATERIALS

1014309	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN A. Voce DATE 5 May 63
CHECKED [illegible]
APPROVAL [illegible] 5/6/63
APPROVAL [illegible] 5/6/63
APPROVAL [illegible]
NASA APPROVAL Jack Bernard
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] May 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS
PROGRAMMER AND MONITOR

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014296
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014296

INCHES
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F-2

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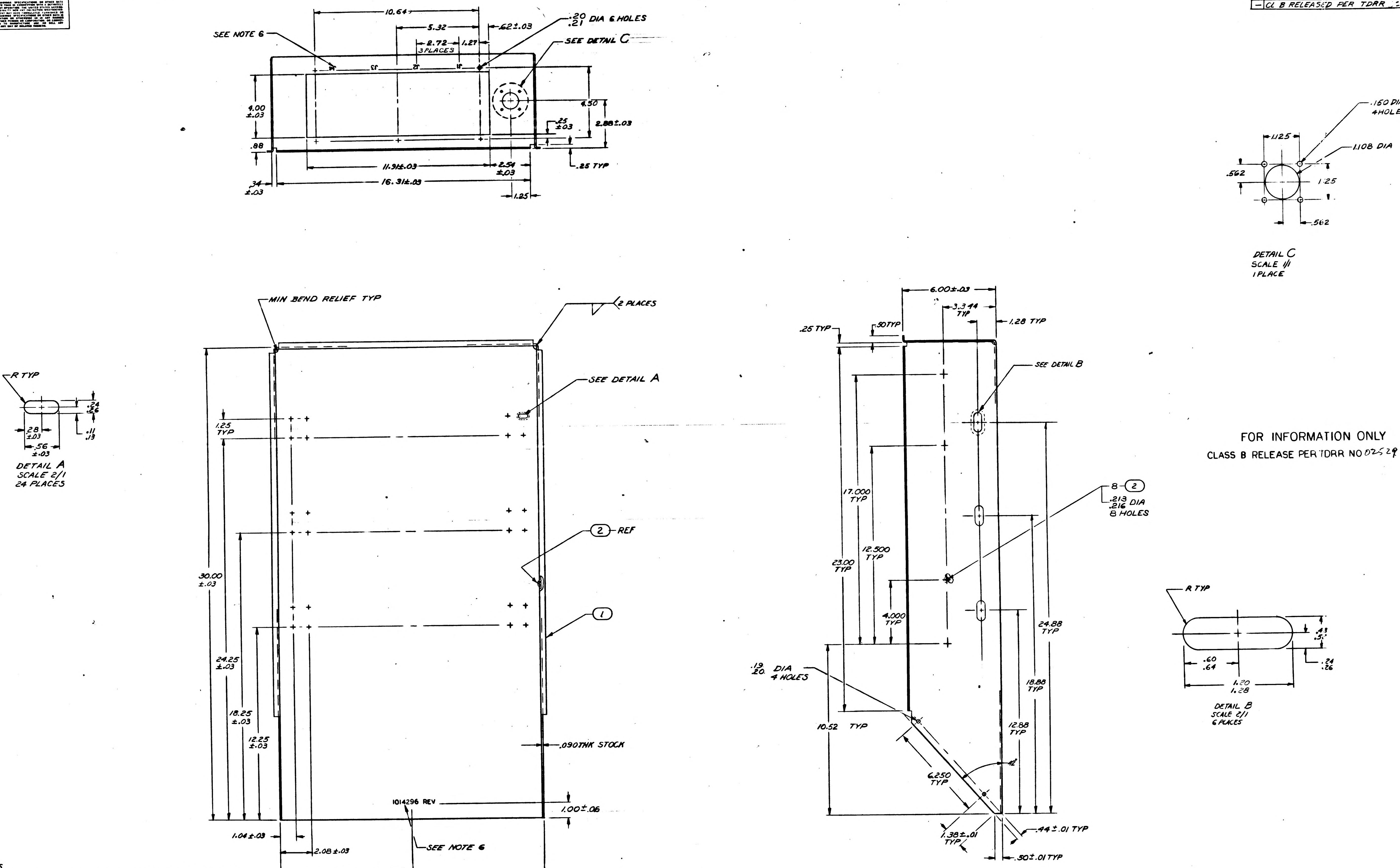
REVISIONS	
SYM	DESCRIPTION
—	CL B RELEASED PER TDRR


SEE NOTE 6
10.64
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SEE DETAIL C
4.00 ±.03
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.150 DIA 4 HOLES
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DETAIL A
SCALE 2/1
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.090THK STOCK
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SEE NOTE 6
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3.344 TYP
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.24 .26
1.20 1.28
DETAIL B
SCALE 2/1
6 PLACES

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO 02529

NOTES
1. MATL: 5052-H32 AL PER QQ-A-318 TEMP H-32
2. REMOVE BURRS & SHARP EDGES
3. WELD PER MIL-W-8604
4. CHROMATE TREAT PER MIL-C-5541
5. ALL BEND RADII .06
6. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO	NOMENC DESC
8	1006989-15	NUT, PLAIN
1	1014296-1	CHASSIS,

LIST OF MATERIALS

1014309	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO NAS 9-498
DRAWN A. Voce DATE 5 MAY 63
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MIT APPROVAL

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PROGRAMMER

CODE IDENT NO —
SIZE J
SCALE 1/2
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INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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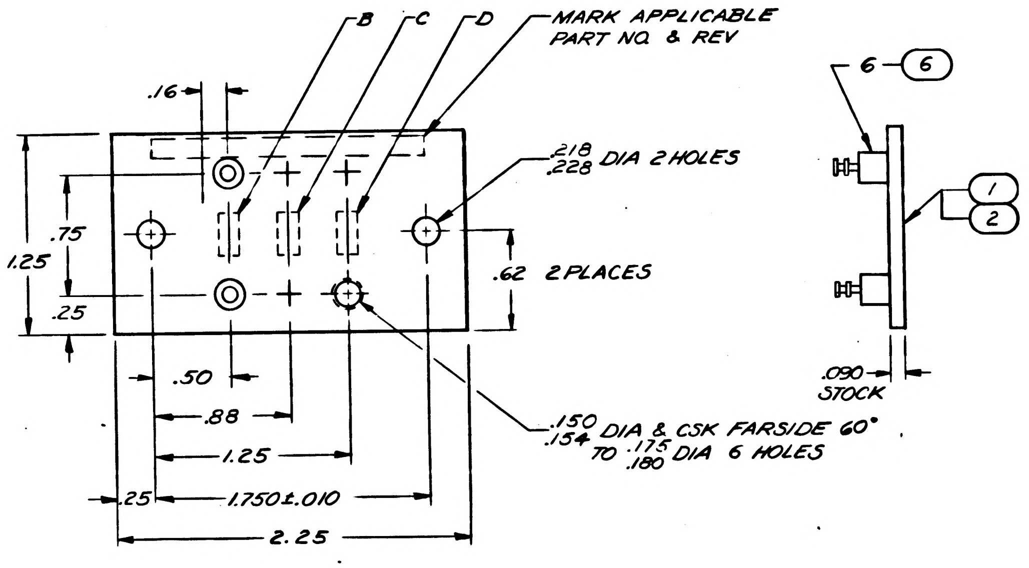
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 1601	6/19/63	L.E.L.
A	CHANGED PER TDRR 05559 DR [illegible] CHK [illegible] APPD [illegible]	1-17-64	[illegible]



REFERENCE DESIGNATIONS	
SYMBOL	FIND NO.
R1, R4	3
R2, R5	4
R3, R6	5

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 1601 DATE 6/19/63

PART NO.	B	C	D	REV STATUS OF PARTS
1014297-3	R1	R2	R3	—
1014297-4	R4	R5	R6	—

REV STATUS OF ASSY	
PART NO.	REV SYM
1014297-1	A
1014297-2	A

NOTES ① ②

1. MATL: PLASTIC, EPOXY-GLASS, TYPE GEB SHT PER MIL-P-18177B, TYPE GEB
2. FOR SYMBOLS, FABRICATION & REQD TESTS SEE ND 1002032
3. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019 ALL MARKING TO BE NEARSIDE. SEE CHART FOR APPLICABLE PART NO. AND COMPONENT MARKING
4. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY

QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
6	6	1006689-5	TERMINAL	6
1	1	MS 35043-83	RESISTOR, 680Ω ½W ±5%	5
1	1	MS 35043-104	RESISTOR, 5.1K ½W ±5%	4
1	1	MS 35043-94	RESISTOR, 2K ½W ±5%	3
1	—	1014297-4	BOARD	2
—	1	1014297-3	BOARD	1
-2	-1	LIST OF MATERIALS		

NEXT ASSY	USED ON
1014139	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±2°
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTES

HEAT TREATMENT

FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS9-498

DRAWN a. Vorce DATE 20 MAY 63
CHECKED D. Lindell 27 MAY 63
APPROVAL [illegible] 10 JUN 63
APPROVAL [illegible] 6-10-63
APPROVAL J. [illegible]
NASA APPROVAL [illegible] 6/11/63
MIT APPROVAL L. E. Larson
MIT APPROVAL L. Jedman [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPONENT ASSEMBLY

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	D	1014297

SCALE 2/1 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

1014297

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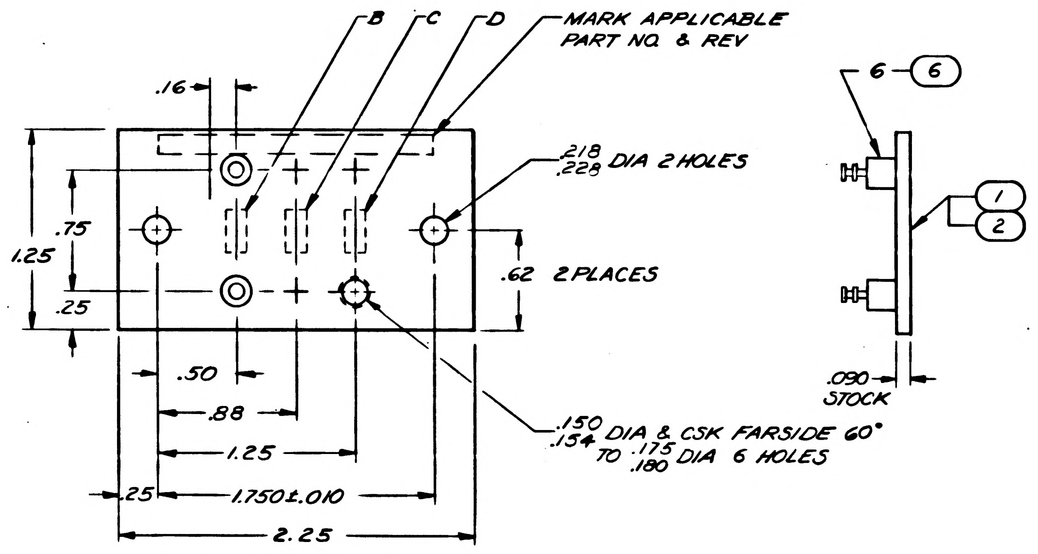
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 1601	6/19/63	L.E.L.



REFERENCE DESIGNATIONS	
SYMBOL	FIND NO.
R1, R4	3
R2, R5	4
R3, R6	5

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 1601 DATE 6/19/63

PART NO.	B	C	D	REV STATUS OF PARTS
1014297-3	R1	R2	R3	—
1014297-4	R4	R5	R6	—

NOTES ① ②

1. MATL: PLASTIC, EPOXY-GLASS, TYPE GEB
   SHT PER MIL-P-18177B, TYPE GEB
2. FOR SYMBOLS, FABRICATION & REQD TESTS SEE ND 1002032
3. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019
   ALL MARKING TO BE NEARSIDE. SEE CHART FOR APPLICABLE PART NO. AND COMPONENT MARKING
4. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY

QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
6	6		TERMINAL	6
1	1	MS 35043-83	RESISTOR, 680Ω ½W ±5%	5
1	1	MS 35043-104	RESISTOR, 5.1K ½W ±5%	4
1	1	MS 35043-94	RESISTOR, 2K ½W ±5%	3
1	—	1014297-4	BOARD	2
—	1	1014297-3	BOARD	1
-2	-1	LIST OF MATERIALS		

NEXT ASSY	USED ON
1014139	1014156

APPLICATION

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MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS9-498
DRAWN A. Vorce DATE 20 MAY 63
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APPROVAL 10 6-63
APPROVAL 6-10-63
APPROVAL 6-11-63
NASA APPROVAL 6/11/63
MIT APPROVAL L. E. L
MIT APPROVAL 6/12/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPONENT
ASSEMBLY

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014297
SCALE 2/1
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SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES 0 1 2
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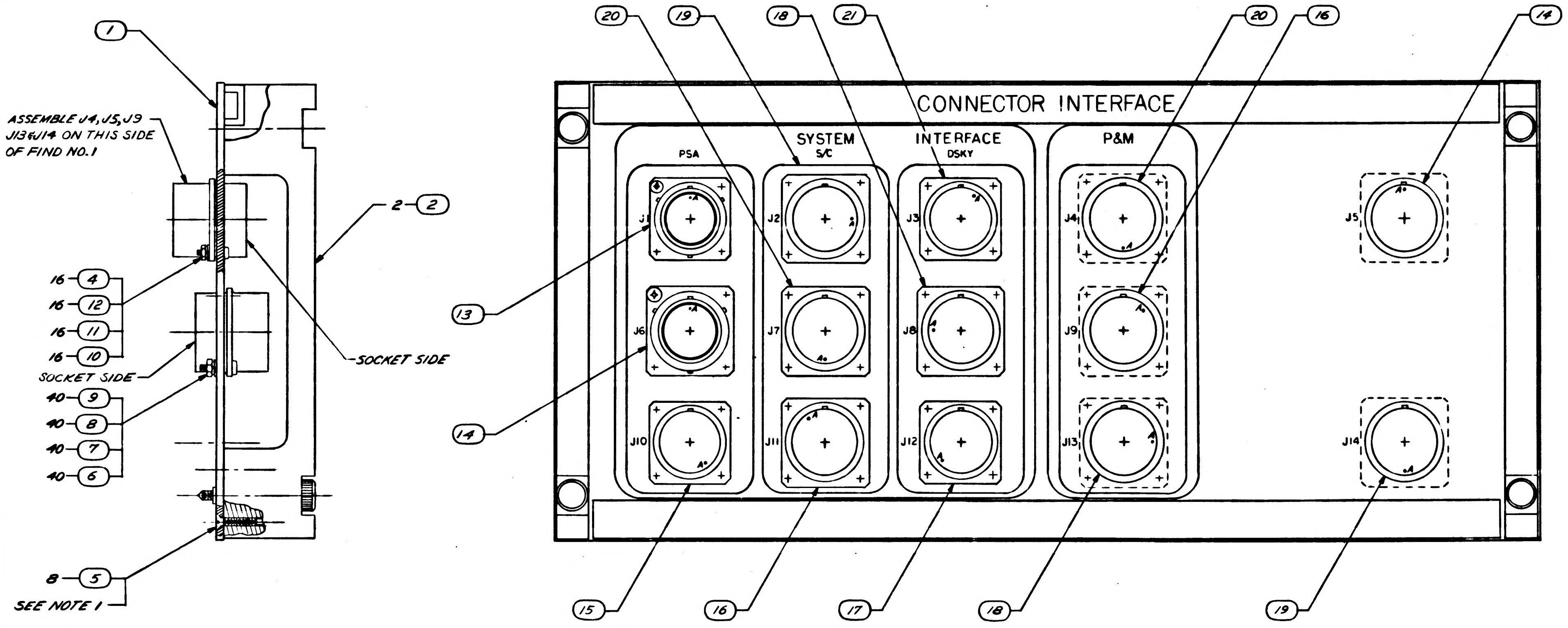
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 1601	6/19/63	



FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. 1601 DATE 6/19/63

NOTES
1. ASSEMBLE FIND NO. 5 USING FIND NO. 3
2. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	MS3119E-22-55W	CONNECTOR	21
2	MS3119E-24-61X	CONNECTOR	20
2	MS3119E-24-61W	CONNECTOR	19
2	MS3119E-24-61Y	CONNECTOR	18
1	MS3119E-22-55Y	CONNECTOR	17
2	MS3119E-24-61Z	CONNECTOR	16
1	MS3119E-22-55X	CONNECTOR	15
2	MS3119E-24-61	CONNECTOR	14
1	MS3119E-22-55	CONNECTOR	13
16	MS35337-78	WASHER, LOCK	12
16	MS15795-303	WASHER, FLAT	11
16	MS35216-16	SCR, PAN HD, CROSS-RECESSED	10
40	MS35649-64	NUT, PLAIN, HEX	9
40	MS35337-79	WASHER, LOCK	8
40	MS15795-305	WASHER, FLAT	7
40	MS35216-28	SCR. PAN HD, CROSS-RECESSED	6
8	MS35200-45	SCREW, FH, CROSS-RECESSED	5
16	MS35649-44	NUT, PLAIN HEX	4
A/R	MIL-S-40083CL31	COMPOUND, SEALING	3
2	1014215-4	HANDLE	2
1	1014299	PANEL	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN P. Wingfield DATE MAY 63
CHECKED
APPROVAL 6/6/63
APPROVAL 6/6/63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 6/11/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRONT PANEL ASSY
CONNECTOR INTERFACE

CODE IDENT NO
SIZE F
NASA DRAWING NO 1014298
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

NOTICE – WHEN GOVERNMENT DRAWINGS SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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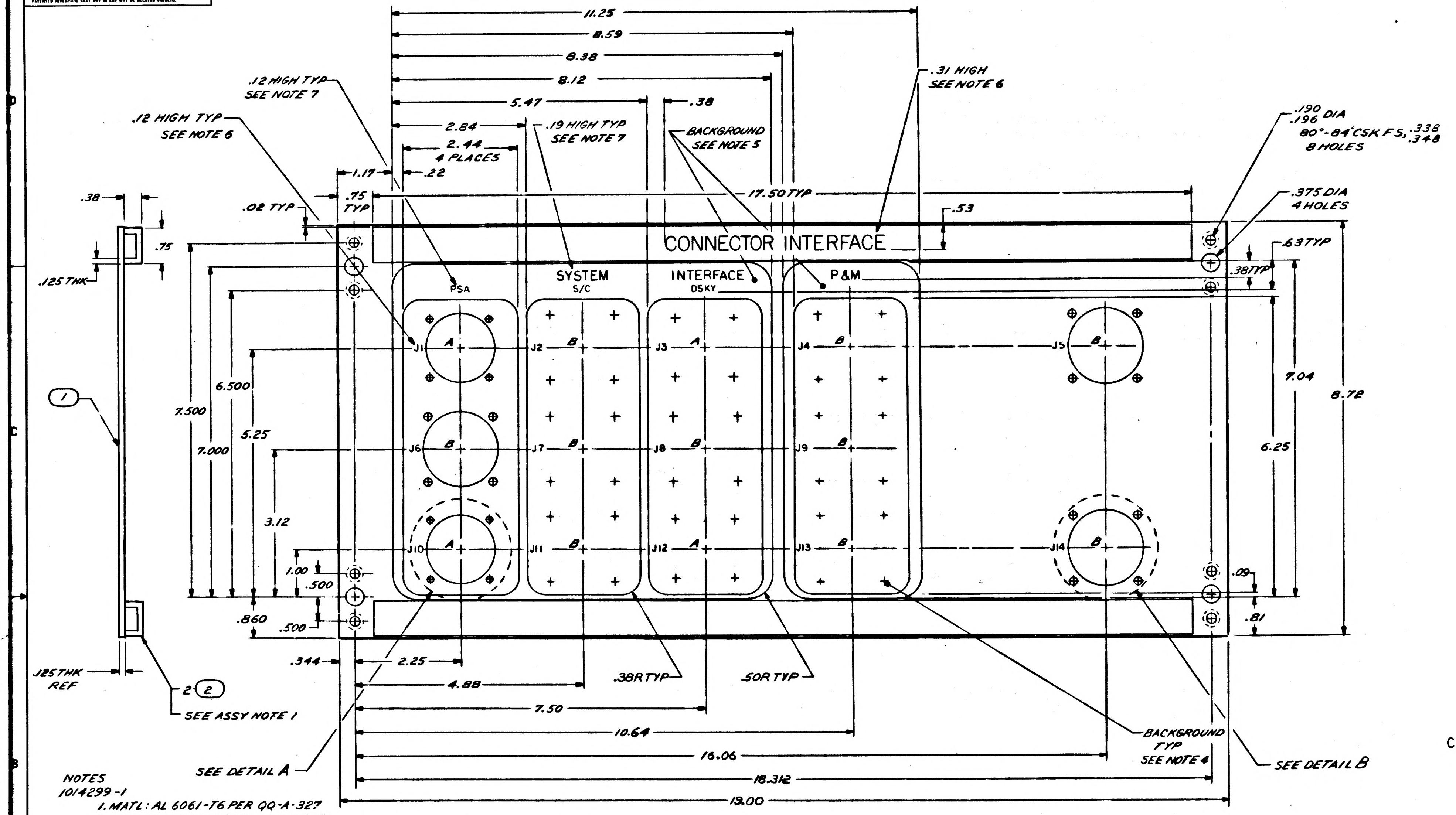
REVISIONS

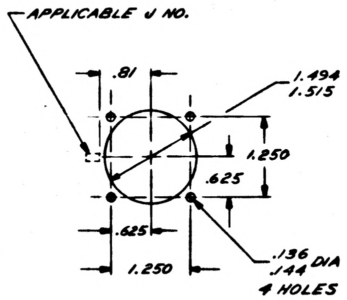
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 1601	6/19/63	


11.25
8.59
8.38
8.12
5.47
.38
2.84
2.44
4 PLACES
1.17
.22
.12 HIGH TYP
SEE NOTE 7
.12 HIGH TYP
SEE NOTE 6
.19 HIGH TYP
SEE NOTE 7
BACKGROUND
SEE NOTE 5
.31 HIGH
SEE NOTE 6
.190
.196 DIA
80°-84° CSK F S, .338 .348
8 HOLES
.375 DIA
4 HOLES
17.50 TYP
.53
.63 TYP
.38 TYP
.75
TYP
.02 TYP
.38
.75
.125 THK
①
CONNECTOR INTERFACE
PSA
SYSTEM
S/C
INTERFACE
DSKY
P&M
J1
J2
J3
J4
J5
J6
J7
J8
J9
J10
J11
J12
J13
J14
A
B
7.500
7.000
6.500
5.25
3.12
1.00
.500
.860
.500
.344
7.04
8.72
6.25
.09
.81
.125 THK
REF
2 ②
SEE ASSY NOTE 1
2.25
4.88
7.50
10.64
16.06
18.312
19.00
.38 R TYP
.50 R TYP
BACKGROUND
TYP
SEE NOTE 4
SEE DETAIL A
SEE DETAIL B

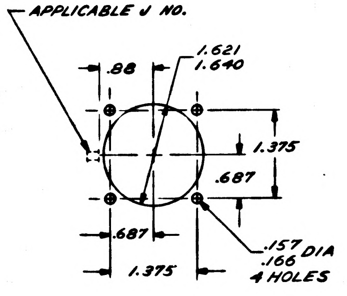
NOTES
1014299-1
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & BREAK SHARP EDGES

NOTES
1014299-2
1. MATL: AL 6063-T5 PER QQ-A-274
2. REMOVE BURRS & BREAK SHARP EDGES

ASSY NOTES
1. DIP BRAZE FIND 2 TO FIND 1 PER MIL-B-23362
2. HEAT TREAT PER MIL-H-6088 TO TEMP T5
3. ELECTRICALLY CONDUCTIVE CHROMATE PER MIL-C-5541
4. PAINT FRONT & EDGES 1 COAT TT-E-529, CLASS B, FED-STD 595, COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
5. PAINT 1 COAT TT-E-529, CLASS B, FED-STD-595, COLOR NO. 26251 PER MIL-F-14072 P513 TYPE II
6. SILK SCREEN (FRONT OF PANEL) BLACK PER ND1002019
7. SILKSCREEN (FRONT OF PANEL) WHITE PER ND1002019
8. MARK (REAR OF PANEL) .12 HIGH BLACK PER ND1002019


APPLICABLE J NO.
.81
1.494
1.515
1.250
.625
.625
1.250
.136
.144 DIA
4 HOLES

DETAIL A
4 PLACES MARKED A


APPLICABLE J NO.
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1.621
1.640
1.375
.687
.687
1.375
.157
.166 DIA
4 HOLES

DETAIL B
10 PLACES MARKED B

FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. 1601 DATE 6/19/63

—	—
SH1	SH2

REV STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
2	1014299-2	CHANNEL	2
1	1014299-1	PANEL	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014298	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 .02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 1
HEAT TREATMENT SEE NOTE 2
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRONT PANEL
CONNECTOR INTERFACE

CODE IDENT NO —
SIZE F
NASA DRAWING NO 1014299
SCALE 1/1
WT
SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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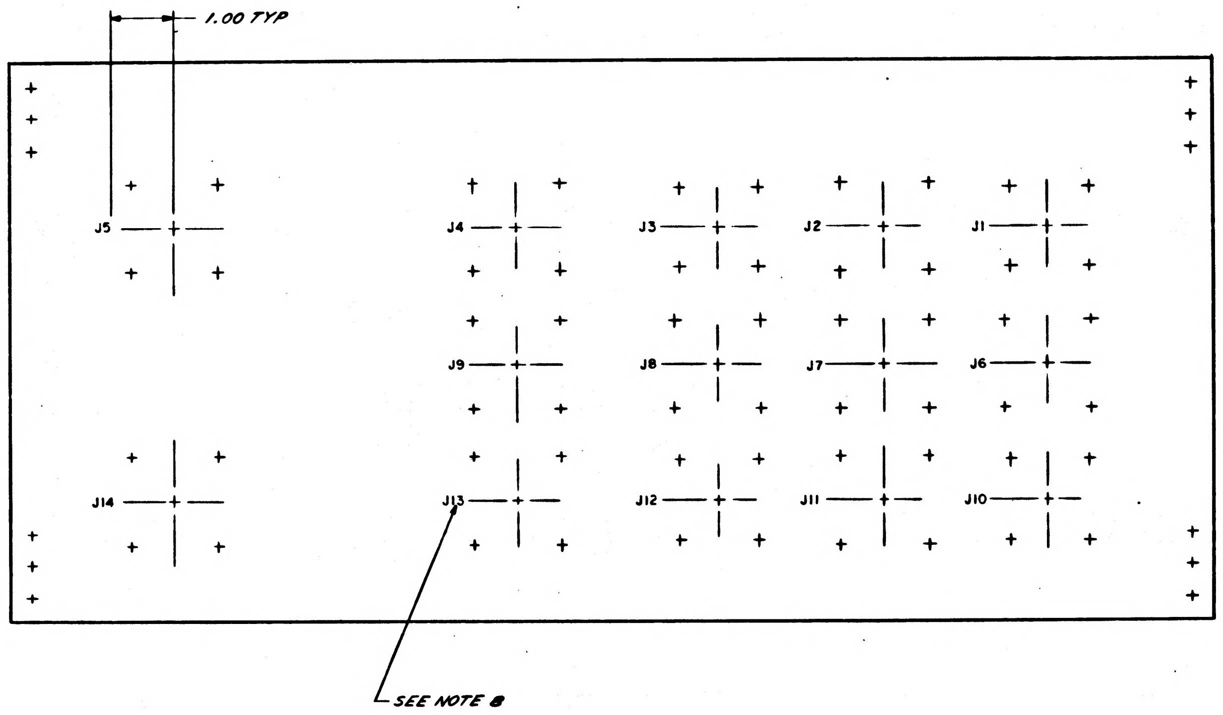
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 1601	6/19/63	



FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. 1601 DATE 6/19/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO.
DRAWN P. Winfield DATE 17 MAY 63
CHECKED R. Brooks
APPROVAL C. Spurling 10 Jun 1963
APPROVAL 6/6/63
APPROVAL
NASA APPROVAL 6/12/63
MIT APPROVAL
MIT APPROVAL Gelman

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRONT PANEL
CONNECTOR INTERFACE

CODE IDENT NO	SIZE	NASA DRAWING NO
—	F	1014299

SCALE 1/1 WT SHEET 2 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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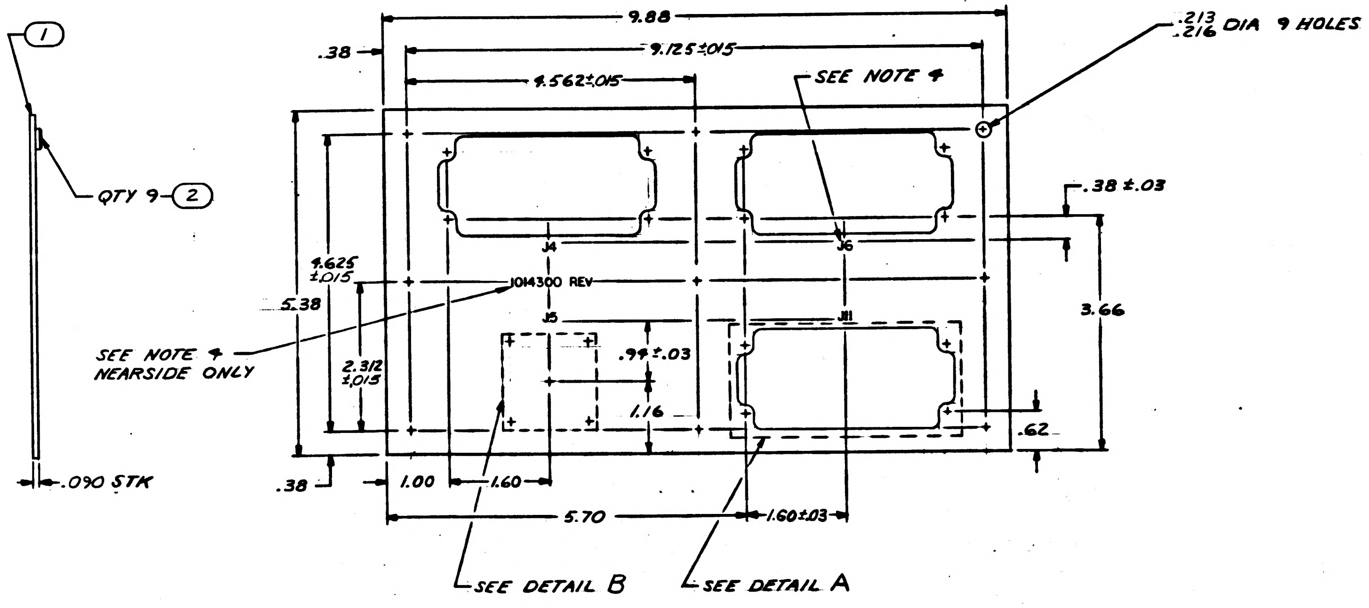
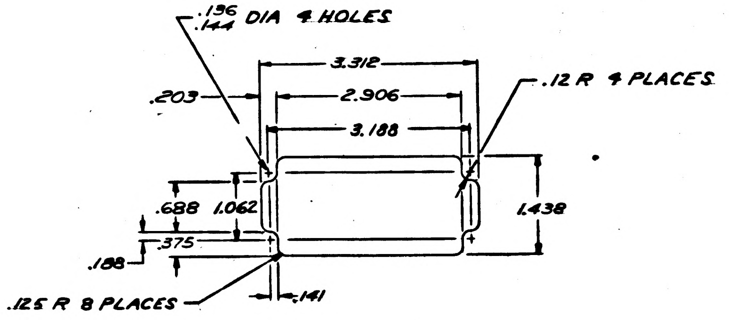
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR NO. 1601	6/19/63	L.E.L.
A	REPLACED WITH CHANGE BY REV B PER TDRR 03839	10-19-63	WK.

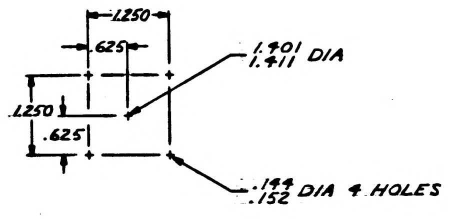


①
QTY 9–②
.090 STK
9.88
.38
9.125±.015
4.562±.015
SEE NOTE 4
.213
.216 DIA 9 HOLES
.38±.03
J4
J6
4.625
±.015
1014300 REV
5.38
J5
J11
3.66
SEE NOTE 4
NEARSIDE ONLY
2.312
±.015
.94±.03
1.16
.62
.38
1.00
1.60
5.70
1.60±.03
SEE DETAIL B
SEE DETAIL A



.136
.144 DIA 4 HOLES
3.312
.203
2.906
.12 R 4 PLACES
3.188
.688
1.062
1.438
.375
.188
.125 R 8 PLACES
.141

DETAIL A
3 PLACES



1.250
.625
1.401
1.411 DIA
1.250
.625
.144
.152 DIA 4 HOLES

DETAIL B

FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. 1601 DATE 6/19/63

Ⓐ REPLACED WITH CHANGE BY REV B

NOTES
①
1. MAT'L: 5052-H32 AL PER QQ-A-318 TEMPER H32
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541
4. MARK BOTH SIDES .12 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT AS NOTED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
9	1006989-15	NUT, SELF-CLINCHING	2
1	1014300-1	PLATE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014237	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN E. Podgorski DATE 21 MAY 63
CHECKED A. Perrone 31 May 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL Guldman 6/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE CONNECTOR ASSY

CODE IDENT NO. ——
SIZE F
NASA DRAWING NO. 1014300
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014300

INCHES
PHOTOGRAPHIC SCALE ONLY

[illegible]

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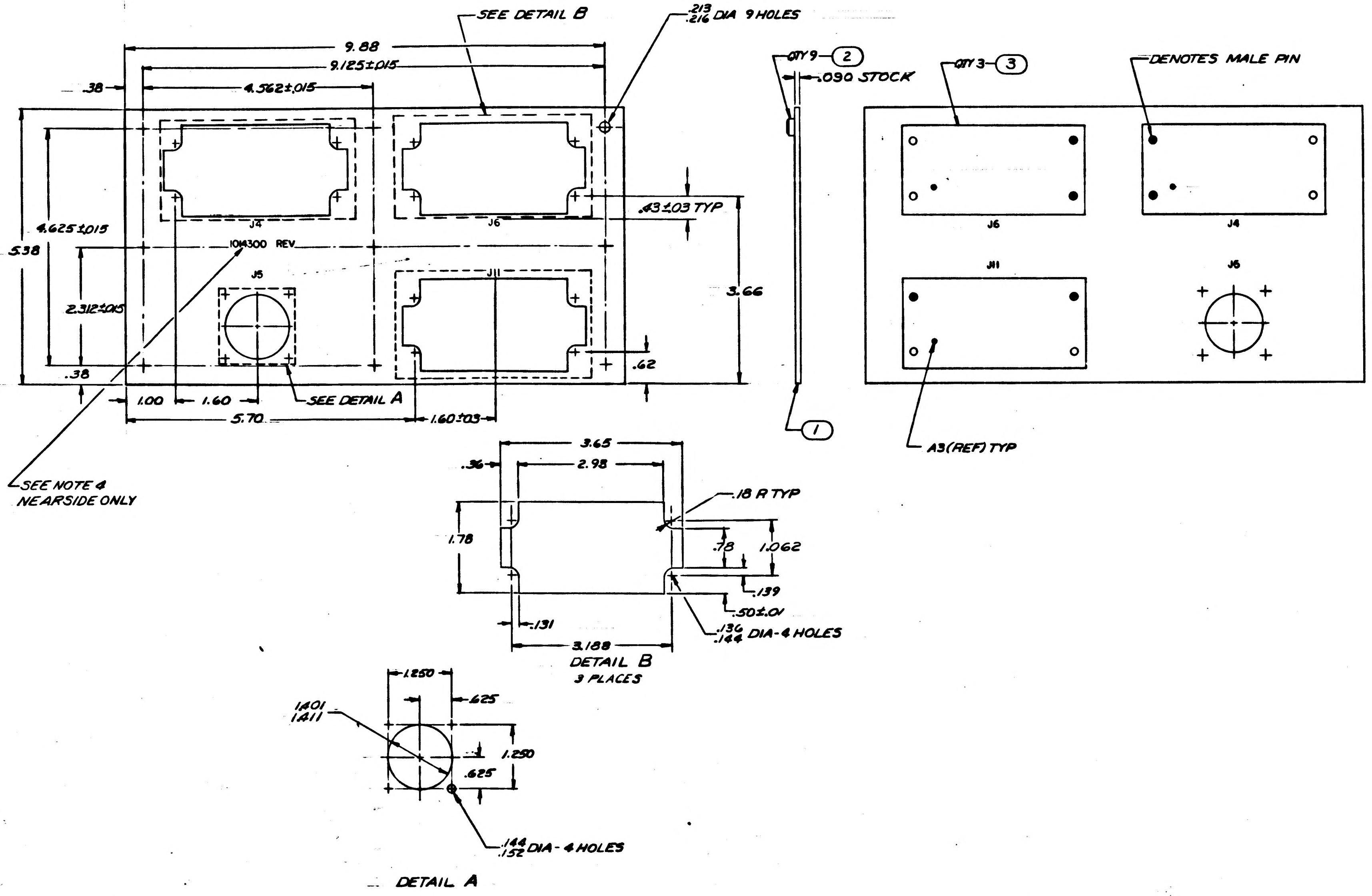
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER TDRR NO. 03839	[illegible]	WK


SEE DETAIL B
.213 .216 DIA 9 HOLES
9.88
9.125±.015
4.562±.015
.38
J4
J6
J5
J11
.43±.03 TYP
4.625±.015
5.38
1014300 REV
2.312±.015
3.66
.62
.38
1.00
1.60
SEE DETAIL A
5.70
1.60±.03
SEE NOTE 4 NEARSIDE ONLY
QTY 9 ②
.090 STOCK
①
QTY 3 ③
DENOTES MALE PIN
J6
J4
J11
J5
A3(REF) TYP
3.65
.36
2.98
.18 R TYP
1.78
.78
1.062
.139
.50±.01
.131
3.188
.136 .144 DIA-4 HOLES
DETAIL B
3 PLACES
1.250
.625
1.401 1.411
1.250
.625
.144 .152 DIA-4 HOLES
DETAIL A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 2601 DATE 6/19/63

Ⓑ REPLACES REV A WITH CHANGE

NOTES
1. MATL 5052-H32 AL PER QQ-A-318 TEMPER H32
2. REMOVE BURRS AND SHARP EDGES
3. CHROMATE PER MIL-C-5541
4. MARK BOTH SIDES .12 HIGH BLACK PER ND 1002019 EXCEPT AS NOTED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
3	1006671	CONNECTOR RECPT	3
9	1006989-15	NUT, SELF CLINCHING	2
1	1014300-1	PLATE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014327	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible] 9/30/63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, CONNECTOR ASSY
SYSTEM INTERFACE

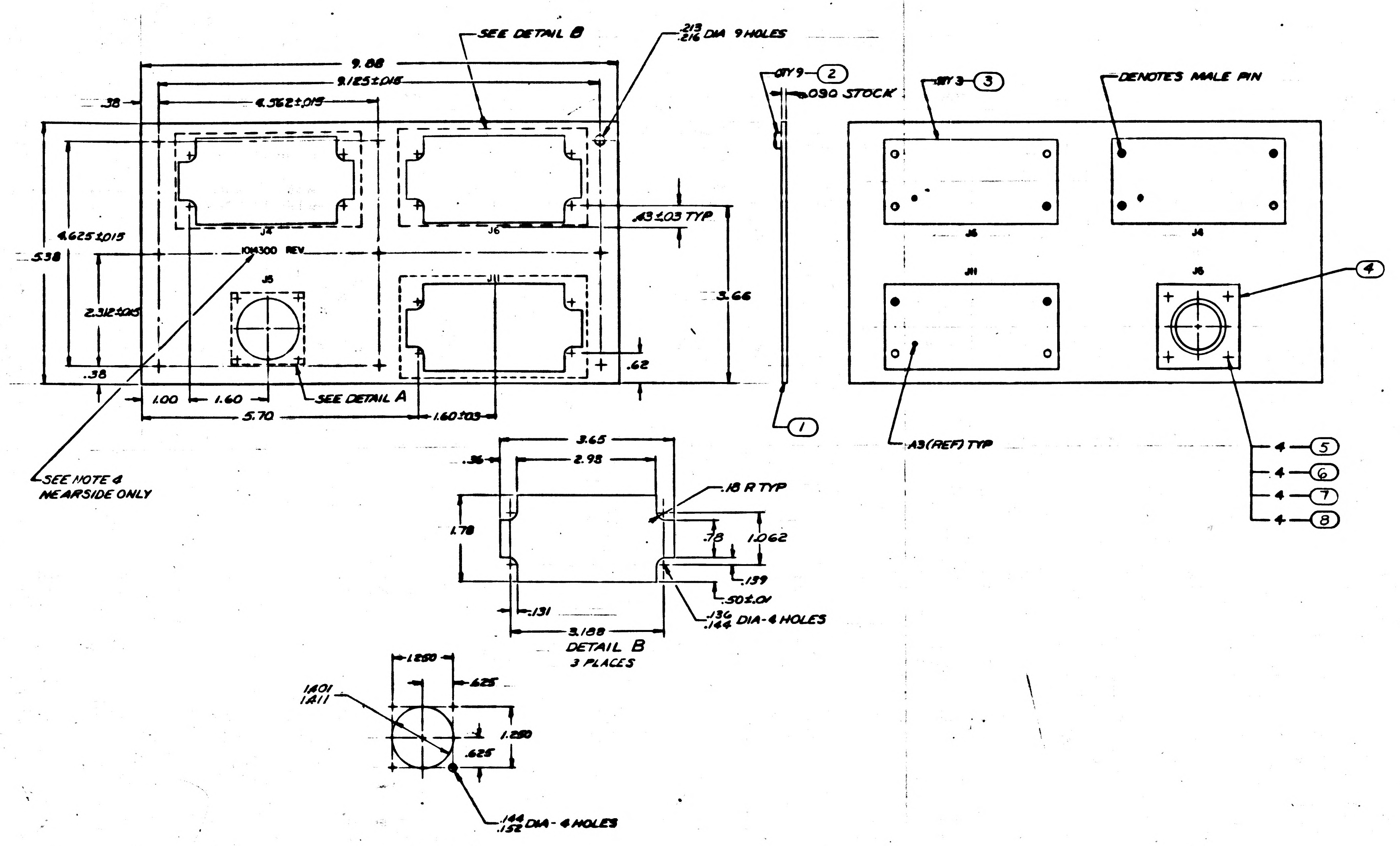
CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014300
SCALE 1/1
WT
SHEET 1 OF 1

1014300

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER TDRR NO. 03839		WK
C	CHANGED PER TDRR 06758 DR CHK APPD	3-24	



SEE DETAIL B
.213
.216 DIA 9 HOLES
9.88
9.125±.015
4.562±.015
.38
4.625±.015
5.38
2.312±.015
.38
1.00
1.60
5.70
1.60±.03
SEE DETAIL A
.43±.03 TYP
3.66
.62
J4
J6
J5
J11
1014300 REV
SEE NOTE 4
NEARSIDE ONLY
QTY 9 — 2
.090 STOCK
1
QTY 3 — 3
DENOTES MALE PIN
J6
J4
J11
J5
4
A3(REF) TYP
4 — 5
4 — 6
4 — 7
4 — 8
3.65
2.98
.36
.18 R TYP
1.78
.78
1.062
.139
.50±.01
.131
3.188
.136
.144 DIA-4 HOLES
DETAIL B
3 PLACES
1.250
.625
1.401
1.411
1.250
.625
.144
.152 DIA - 4 HOLES
DETAIL A

NOTES
1. MATL 5052-H32 AL PER QQ-A-318 TEMPER H32
2. REMOVE BURRS AND SHARP EDGES
3. CHROMATE PER MIL-C-5541
4. MARK BOTH SIDES .12 HIGH BLACK PER ND 1002019 EXCEPT AS NOTED

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 2601 DATE 6/19/63

Ⓑ REPLACES REV A WITH CHANGE

4	MS 35649-44	NUT, HEX	8
4	MS 35337-78	WASHER, LOCK	7
4	MS 15795-303	WASHER, FLAT	6
4	MS 35216-16	SCREW, PAN HEAD	5
1	MS 3120F-22-55P	CONNECTOR RECPT	4
3	1006671	CONNECTOR RECPT	3
9	1006989-15	NUT, SELF CLINCHING	2
1	1014300-1	PLATE	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014237	1014156
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
SEE NOTE
HEAT TREATMENT
FINAL FINISH
SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
SUBT APPROVAL
SUBT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, CONNECTOR ASSY
SYSTEM INTERFACE

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014300
SCALE 1/1
WT
SHEET 1 OF 1

1014300

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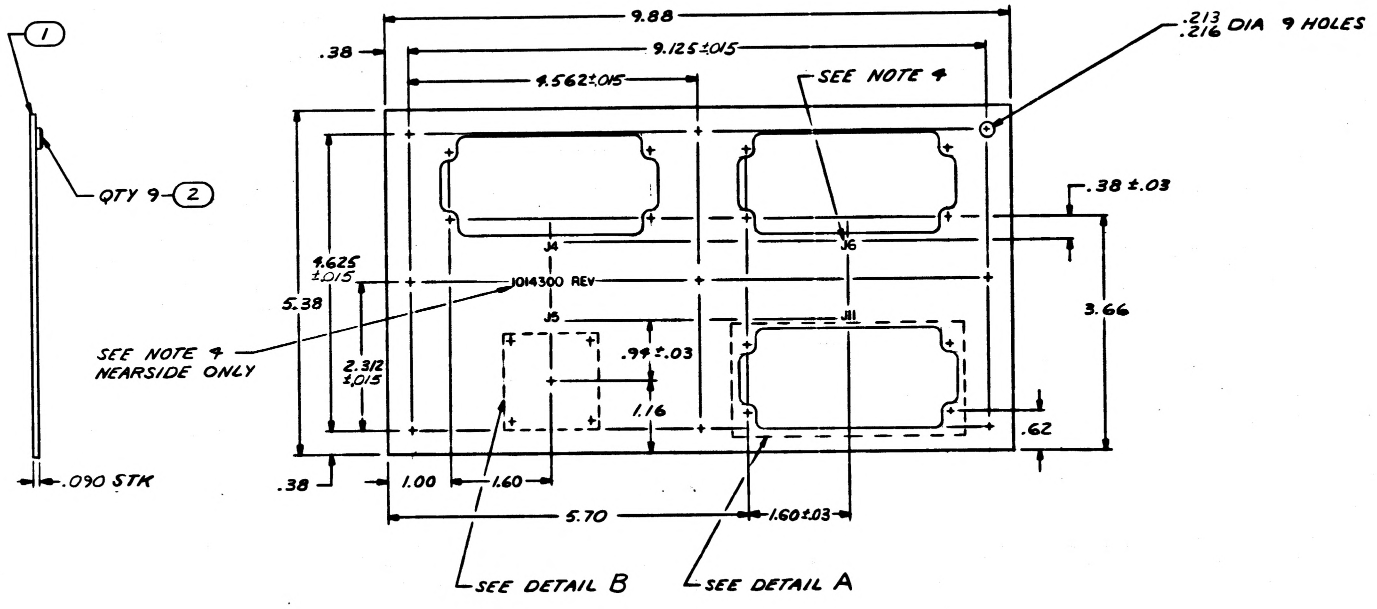
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR NO. 1601	[illegible]	[illegible]


①
QTY 9-②
.090 STK
9.88
.38
9.125±.015
4.562±.015
SEE NOTE 4
.213
.216 DIA 9 HOLES
.38±.03
3.66
4.625
±.015
5.38
1014300 REV
J4
J5
J6
J11
SEE NOTE 4
NEARSIDE ONLY
2.312
±.015
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1.16
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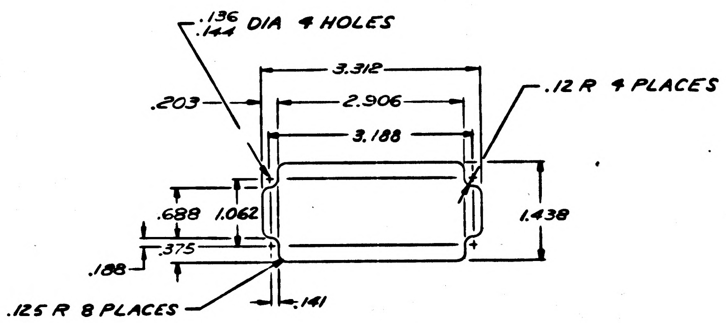
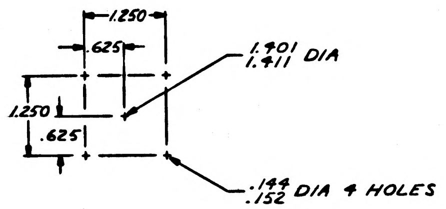
.38
1.00
1.60
5.70
1.60±.03
SEE DETAIL B
SEE DETAIL A


.136
.144 DIA 4 HOLES
3.312
2.906
3.188
.203
.12 R 4 PLACES
.688
1.062
.375
.188
1.438
.141
.125 R 8 PLACES

DETAIL A
3 PLACES


1.250
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1.250
.625
1.401
1.411 DIA
.144
.152 DIA 4 HOLES

DETAIL B

FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. 1601 DATE 6/19/63

1014300

NOTES
①
1. MAT'L: 5052-H32 AL PER QQ-A-318 TEMPER H32
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541
4. MARK BOTH SIDES .12 HIGH BLACK CHARACTERS PER ND1002019 EXCEPT AS NOTED

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
9	1006989-15	NUT, SELF-CLINCHING	2
1	1014300-1	PLATE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014237	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN E Podmorski DATE 21 May 63
CHECKED A Perrone 31 May 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL Geldman 6/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE CONNECTOR ASSY

CODE IDENT NO —
SIZE F
NASA DRAWING NO 1014300
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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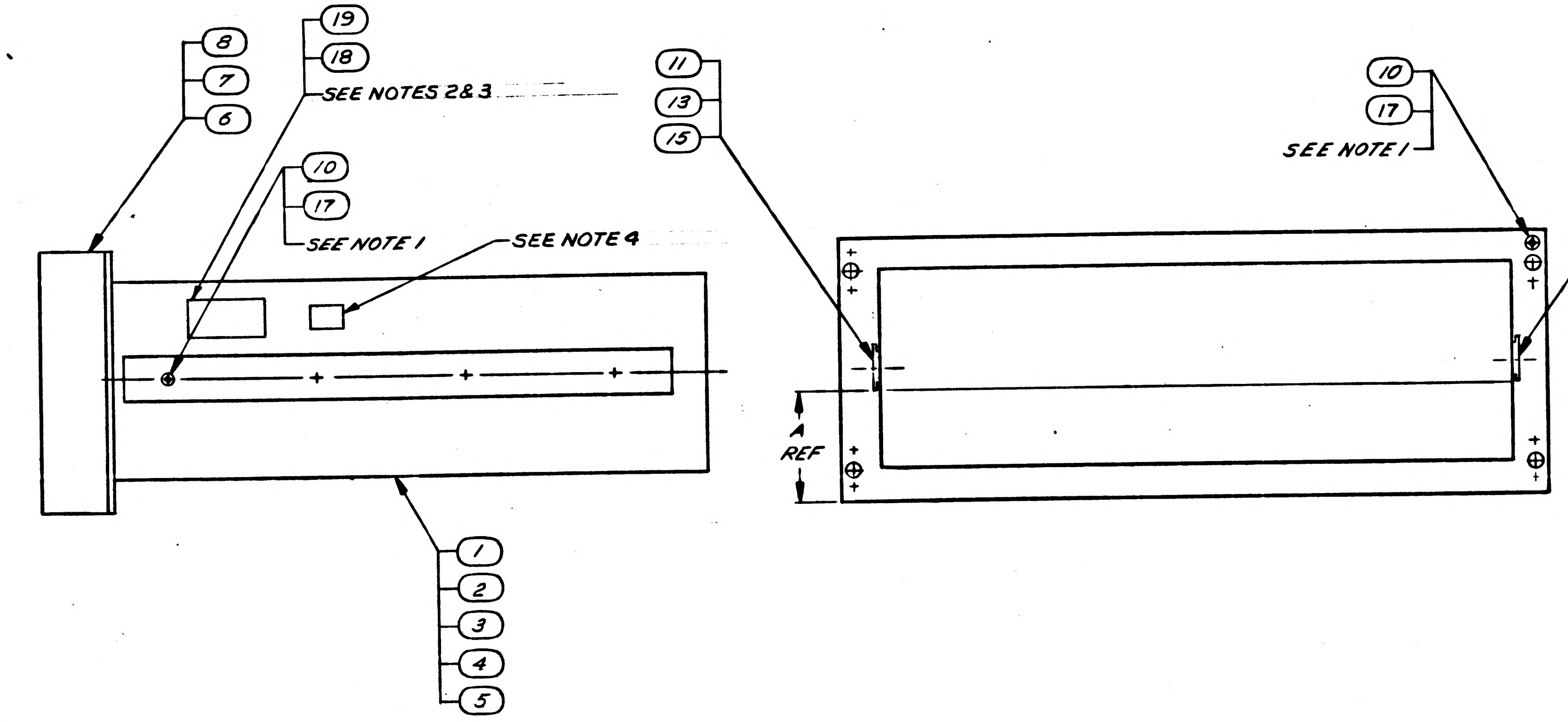
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 1601	6/19/63	T.E.K.
A	CHANGED PER TDRR NO. 05672 DR H Swindell CHK W.J. Gifford	27 JAN 64	WR



FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. 1601 DATE 6/19/63

PART NO.	DIM. A	REV STATUS OF ASSY
1014302 -1	2.109	A
1014302 -2	2.109	A
1014302 -3	3.859	A
1014302 -4	2.984	A
1014302 -5	3.859	A

NOTES:
1. ASSEMBLE FIND NO. 17 USING FIND NO. 10
2. ASSEMBLE FIND NO. 18 USING FIND NO. 19 APPROXIMATELY WHERE SHOWN
3. MARK APPLICABLE INFORMATION .06 HIGH PER ND1002019 AND PER ND1002023
4. MARK APPROX WEIGHT IN LBS .25 HIGH BLACK CHARACTERS PER ND1002123 IN APPROX POSITION SHOWN

QTY REQD -5	QTY REQD -4	QTY REQD -3	QTY REQD -2	QTY REQD -1	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	AR	AR	AR	AR	MIL-A-5092 TYPE III	CEMENT	19
1	1	1	1	1	1200085	PLATE, IDENT, APOLLO G&N	18
16	16	14	10	10	MS35200-42	SCREW, FLAT HD	17
1	—	—	—	—	1006930-6	SLIDE, LH CHASSIS SECTION	16
1	—	—	—	—	1006930-5	SLIDE, RH CHASSIS SECTION	15
—	1	—	—	—	1006930-2	SLIDE, LH CHASSIS SECTION	14
—	1	—	—	—	1006930-1	SLIDE, RH CHASSIS SECTION	13
—	—	1	1	1	1006930-4	SLIDE, LH CHASSIS SECTION	12
—	—	1	1	1	1006930-3	SLIDE, RH CHASSIS SECTION	11
AR	AR	AR	AR	AR	MIL-S-40083, CL 31	SEALING & RETAINING COMPOUND	10
~~16~~	~~16~~	~~16~~	~~12~~	~~12~~	~~MS35249-53~~	~~SCREW, FLAT HD~~	~~9~~
—	2	—	—	—	1014215-3	HANDLE ASSY	8
2	—	2	—	—	1014215-4	HANDLE ASSY	7
—	—	—	2	2	1014215-2	HANDLE ASSY	6
1	—	—	—	—	1006937	OSCILLOSCOPE	5
—	1	—	—	—	1006934	COUNTER, FREQUENCY	4
—	—	1	—	—	1006935	PWR SUPPLY	3
—	—	—	1	—	1006931-2	PWR SUPPLY	2
—	—	—	—	1	1006931-1	PWR SUPPLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN P. Winfield DATE 22 MAY 63
CHECKED D. Perrone 31 May 63
APPROVAL 6/6/63
APPROVAL 6/6/63
APPROVAL 6/6/63
NASA APPROVAL 6/19/63
MIT APPROVAL L.E. Larson
MIT APPROVAL L. Gelman 6/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE-SLIDE
ASSEMBLY
COMPUTER TEST SET

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014302
SCALE NONE
WT
SHEET 1 OF 1

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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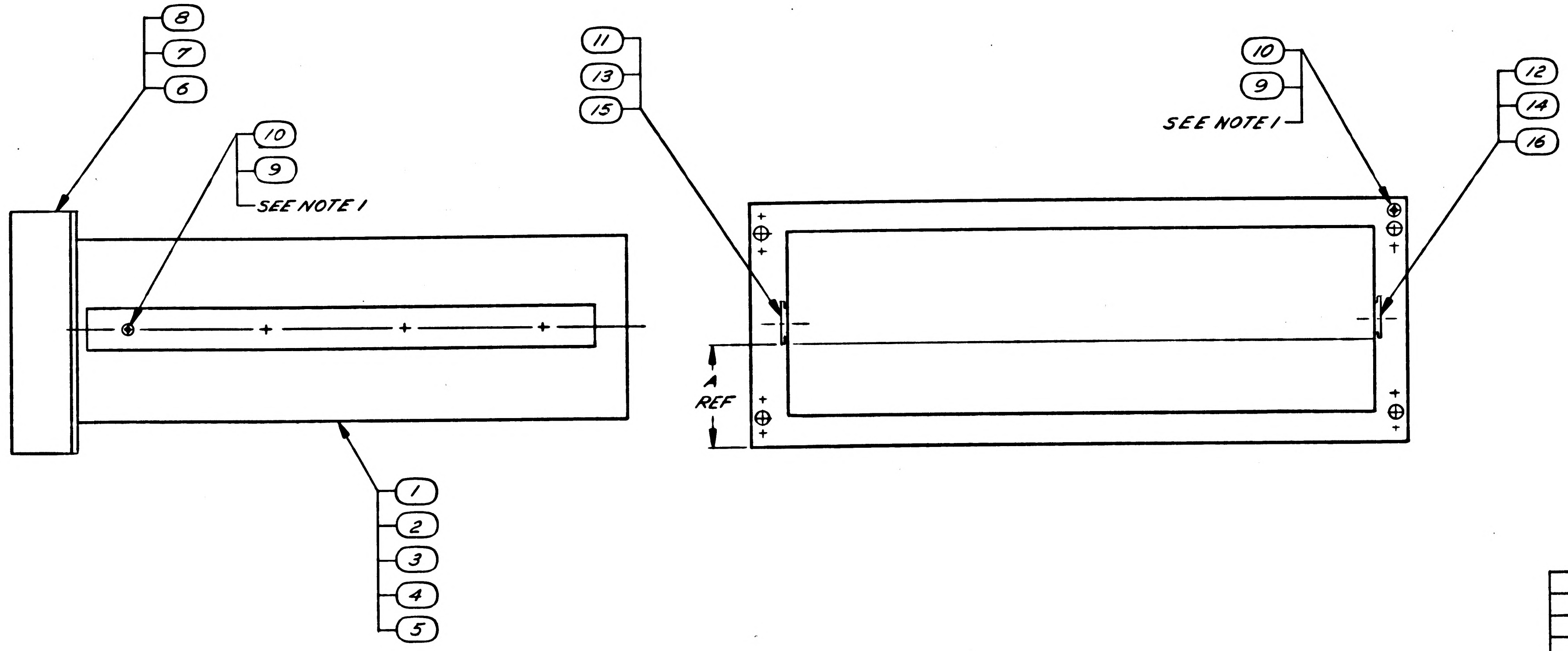
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 1601	6/12/63	L.E.L.



FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. 1601 DATE 6/19/63

PART NO.	DIM. A
1014302 -1	2.109
1014302 -2	2.109
1014302 -3	3.859
1014302 -4	2.984
1014302 -5	3.859

NOTES:
1. ASSEMBLE FIND NO. 9 USING FIND NO. 10

QTY REQD -5	QTY REQD -4	QTY REQD -3	QTY REQD -2	QTY REQD -1	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	—	—	—	—	1006930-6	SLIDE, LH CHASSIS SECTION	16
1	—	—	—	—	1006930-5	SLIDE, RH CHASSIS SECTION	15
—	1	—	—	—	1006930-2	SLIDE, LH CHASSIS SECTION	14
—	1	—	—	—	1006930-1	SLIDE, RH CHASSIS SECTION	13
—	—	1	1	1	1006930-4	SLIDE, LH CHASSIS SECTION	12
—	—	1	1	1	1006930-3	SLIDE, RH CHASSIS SECTION	11
AR	AR	AR	AR	AR	MIL-S-40083, CL 31	SEALING & RETAINING COMPOUND	10
16	16	16	12	12	MS35249-53	SCREW, FLAT HD	9
—	2	—	—	—	1014215-3	HANDLE ASSY	8
2	—	2	—	—	1014215-4	HANDLE ASSY	7
—	—	—	2	2	1014215-2	HANDLE ASSY	6
1	—	—	—	—	1006937	OSCILLOSCOPE	5
—	1	—	—	—	1006934	COUNTER, FREQUENCY	4
—	—	1	—	—	1006935	PWR SUPPLY	3
—	—	—	1	—	1006931-2	PWR SUPPLY	2
—	—	—	—	1	1006931-1	PWR SUPPLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS . ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN P. Winfield DATE 22MAY63
CHECKED D. Perrone 31 May 63
APPROVAL 6/6/63
APPROVAL 6/6/63
APPROVAL 6/6/63
NASA APPROVAL 6/17/63
MIT APPROVAL L.E. Larson
MIT APPROVAL 6/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE-SLIDE
ASSEMBLY
COMPUTER TEST SET

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014302
SCALE NONE
WT
SHEET 1 OF 1

1014302

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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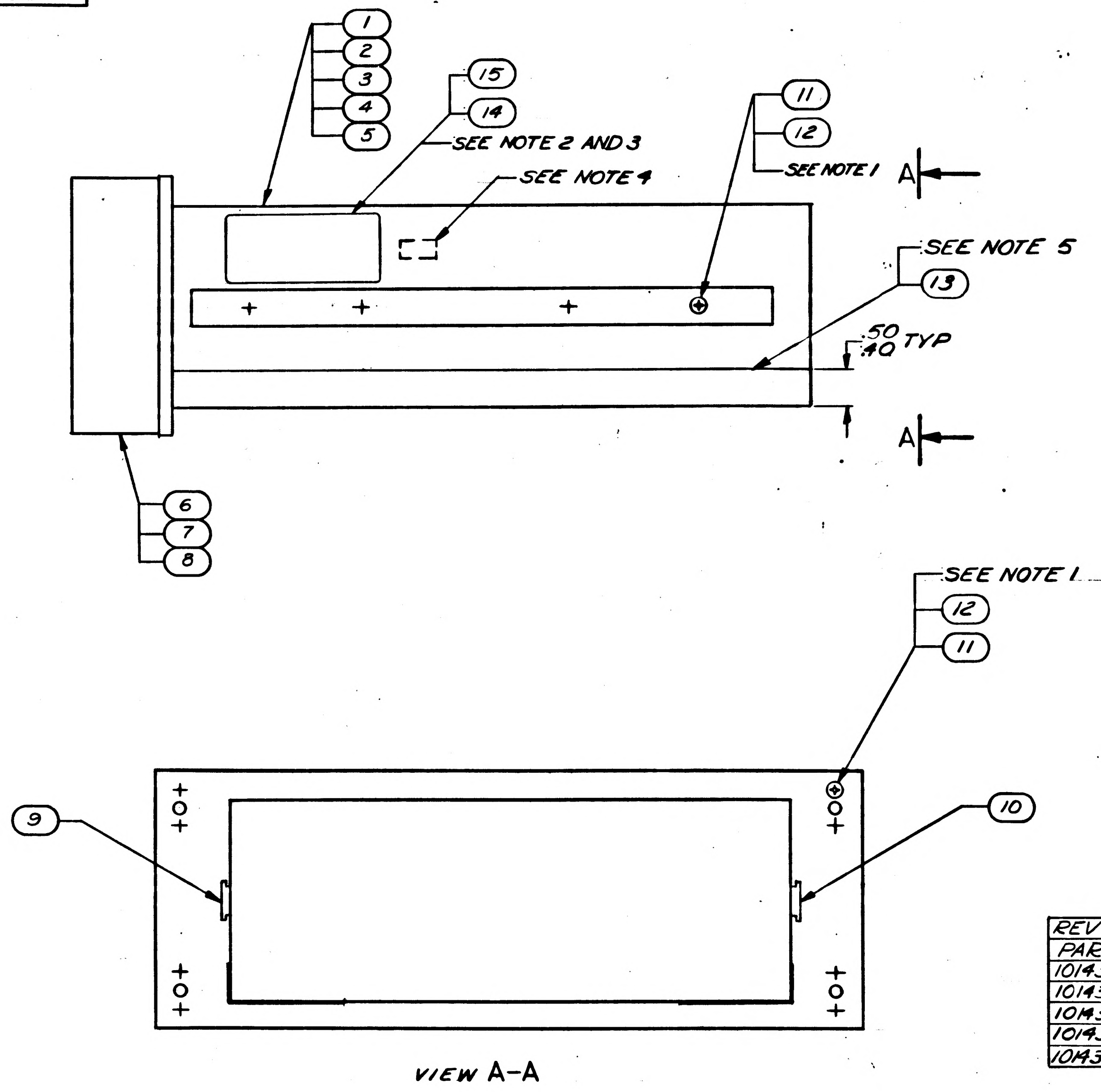
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 01487	6-5-63	
A	CHANGED PER TDRR 05679 G.S. Goldman CHK W. J. Gifford APPD	1-20-64	WR



NOTES:

1. ASSEMBLE FIND NO. 11 USING FIND NO. 12
2. ASSEMBLE FIND NO. 14 USING FIND NO. 15 APPROX WHERE SHOWN
3. MARK APPLICABLE INFORMATION .06 HIGH PER ND1002019 AND PER ND1002023
4. MARK APPROX WEIGHT IN LBS .25 HIGH BLACK CHARACTERS PER ND1002123 APPROX WHERE SHOWN
5. ASSEMBLE FIND NO. 13 TO BOTH SIDES OF UNITS AS SHOWN

REV STATUS OF ASSY

PART NO.	REV SYM
1014303-1	A
1014303-2	A
1014303-3	A
1014303-4	A
1014303-5	A

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 01487 DATE 6-5-63

QTY REQD -5	QTY REQD -4	QTY REQD -3	QTY REQD -2	QTY REQD -1	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	AR	AR	AR	AR	MIL-A-5092, TYPE III	CEMENT	15
1	1	1	1	1	1020085	PLATE, IDENTIFICATION, APOLLO G & N	14
AR	—	AR	AR	—	1006692-4	TAPE, PRESSURE SENSITIVE ADHESIVE	13
AR	AR	AR	AR	AR	MIL-S-40083, CL31	SEALING & RETAINING COMPOUND	12
4	16	4	8	8	MS 35200-42	SCREW, FLAT HEAD	11
—	1	—	—	—	1006930-2	SLIDE (L.H. CHASSIS SECTION)	10
—	1	—	—	—	1006930-1	SLIDE (R.H. CHASSIS SECTION)	9
—	—	—	2	—	1014215-5	HANDLE ASSY	8
—	2	—	—	2	1014215-3	HANDLE ASSY	7
2	—	2	—	—	1014215-2	HANDLE ASSY	6
1	—	—	—	—	1006963	CALIBRATOR FREQUENCY	5
—	1	—	—	—	1006961	RECEIVER, PHASE COMPARATOR	4
—	—	1	—	—	1006962	COUNTER, ELECTRICAL	3
—	—	—	1	—	1006965	DIGITAL RECORDER	2
—	—	—	—	1	1006959	DRAWER	1

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN A. Vorce DATE 23 MAY 63
CHECKED J. R. McAllister 24 May 63
APPROVAL C. Sowling JPK
APPROVAL
APPROVAL
NASA APPROVAL W. J. Rhine 6-5-63
MIT APPROVAL L. Gelman 6/5/63
MIT APPROVAL L. Hafel 6/5/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE – SLIDE
ASSEMBLY
CALIBRATION CONSOLE

CODE IDENT NO. ——
SIZE D
NASA DRAWING NO. 1014303
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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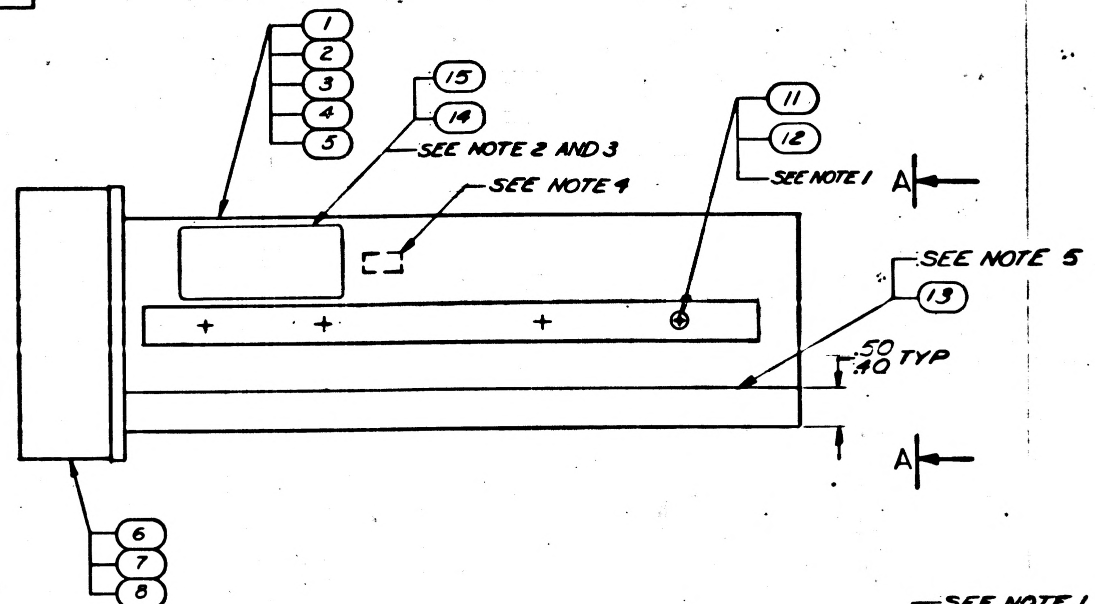
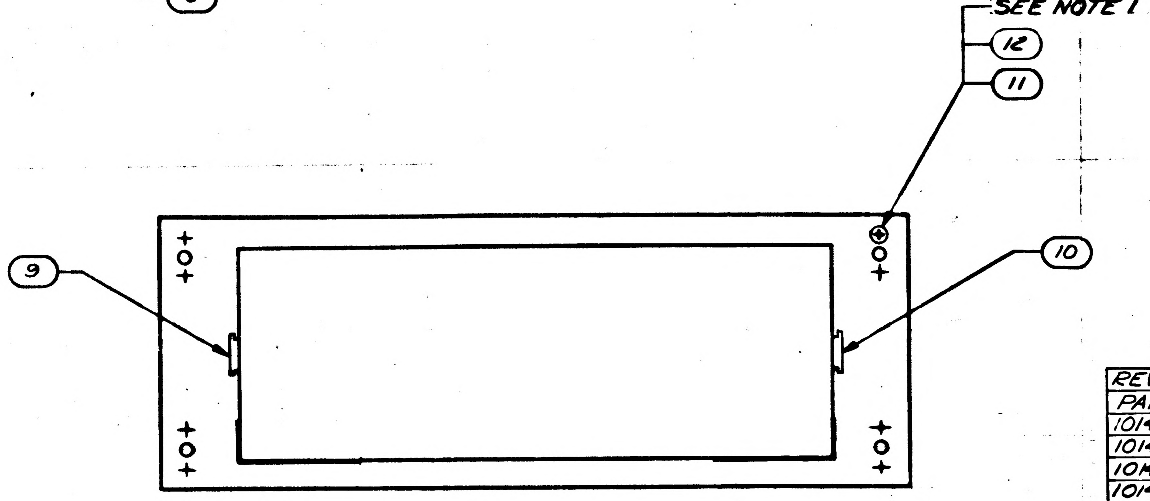
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 01487	6-5-63	
A	CHANGED PER TDRR 05679 CHK W. J. Gifford APPD		
B	CHANGED PER TDRR 08124 DR B Katsuka CHK A. Caggiano APPD	11 MAY 64	KEB



FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 01487 DATE 6-5-63



VIEW A-A

REV STATUS OF ASSY	
PART NO.	REV SYM
1014303-1	B
1014303-2	B
1014303-3	B
1014303-4	B
1014303-5	B

NOTES:
1. ASSEMBLE FIND NO. 11 USING FIND NO. 12
2. ASSEMBLE FIND NO. 14 USING FIND NO. 15 APPROX WHERE SHOWN
3. MARK APPLICABLE INFORMATION .06 HIGH PER ND1002019 AND PER ND1002023
4. MARK APPROX WEIGHT IN LBS .25 HIGH BLACK CHARACTERS PER ND1002123 APPROX WHERE SHOWN
5. ASSEMBLE FIND NO. 13 TO BOTH SIDES OF UNITS AS SHOWN

QTY REQD -5	QTY REQD -4	QTY REQD -3	QTY REQD -2	QTY REQD -1	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	AR	AR	AR	AR	MIL-C-4003	CEMENT	15
1	1	1	1	1	1020085	PLATE, IDENTIFICATION, APOLLO G & N	14
AR	—	AR	AR	—	1006692-4	TAPE, PRESSURE SENSITIVE ADHESIVE	13
AR	AR	AR	AR	AR	MIL-S-40083, CL 31	SEALING & RETAINING COMPOUND	12
4	16	4	8	8	MS 35200-42	SCREW, FLAT HEAD	11
—	1	—	—	—	1006930-2	SLIDE (L. H. CHASSIS SECTION)	10
—	1	—	—	—	1006930-1	SLIDE (R. H. CHASSIS SECTION)	9
—	—	—	2	—	1014215-5	HANDLE ASSY	8
—	2	—	—	2	1014215-3	HANDLE ASSY	7
2	—	2	—	—	1014215-2	HANDLE ASSY	6
1	—	—	—	—	1006963	CALIBRATOR FREQUENCY	5
—	1	—	—	—	1006961	RECEIVER, PHASE COMPARATOR	4
—	—	1	—	—	1006962	COUNTER, ELECTRICAL	3
—	—	—	1	—	1006965	DIGITAL RECORDER	2
—	—	—	—	1	1006959	DRAWER	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014217	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN A. Vocce DATE 23 MAY 63
CHECKED J. R. McAllen 24 May 63
APPROVAL C Sowden JPK
APPROVAL
APPROVAL
NASA APPROVAL 6-5-63
MIT APPROVAL L Gelman 6/5/63
MIT APPROVAL L Hatzel 6/5/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE – SLIDE
ASSEMBLY
CALIBRATION CONSOLE

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014303
SCALE NONE
WT
SHEET 1 OF 1

1014303

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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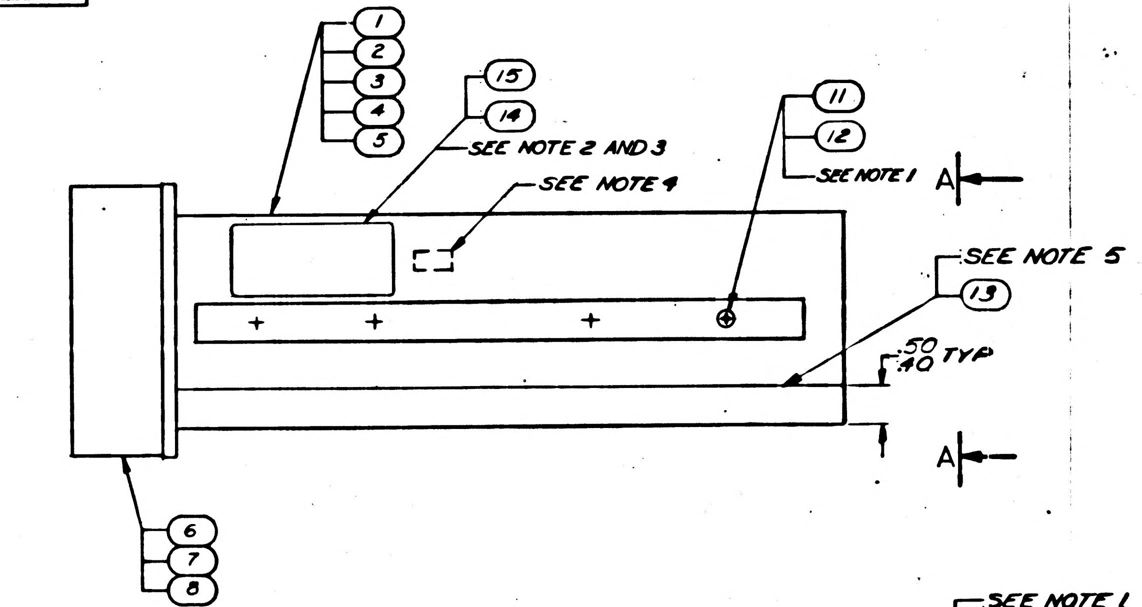
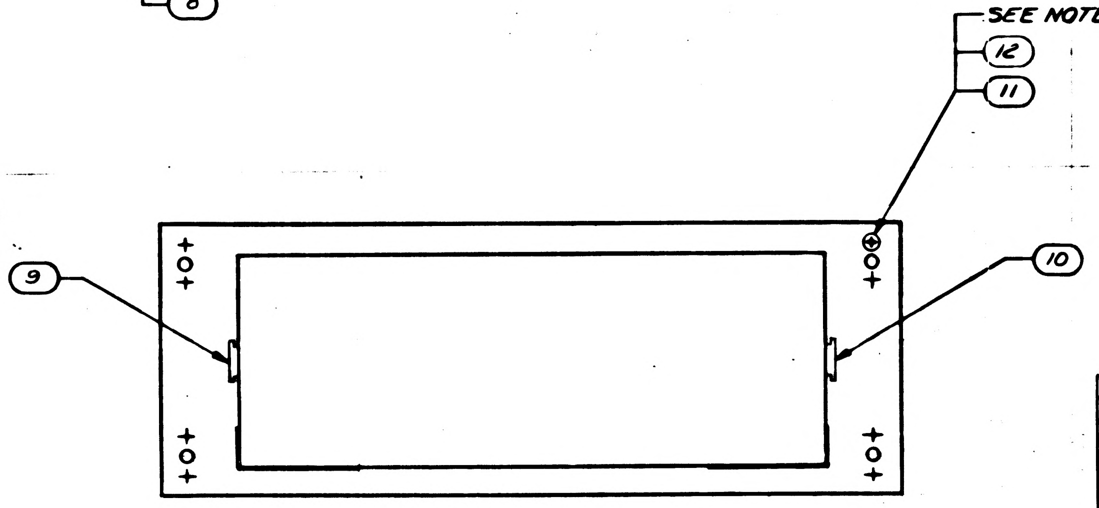
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 01487	6-5-63	
A	CHANGED PER TDRR 05679 CHK W. J. Gifford APPD		
B	CHANGED PER TDRR 08124 DR B Katsuls CHK A. Caggiano APPD	11 MAY 64	KEB
C	UPGRADE TO CL A WITH CHANGE PER TDRR 16297 BKatsuls CHK APPD	2 MAR 65	3-9-65





VIEW A-A

REV STATUS OF ASSY	
PART NO.	REV SYM
1014303-1	B
1014303-2	B
1014303-3	B
1014303-4	B
1014303-5	B

NOTES:
1. ASSEMBLE FIND NO. 11 USING FIND NO. 12
2. ASSEMBLE FIND NO. 14 USING FIND NO. 15 APPROX WHERE SHOWN
3. STAMP .06 HIGH GOTHIC CHARACTERS PER ND1002019 & ND1002023
4. MARK APPROX. WEIGHT IN LBS .25 HIGH GOTHIC CHARACTERS PER ND1002123 USING BLK INK 1006271-10 APPROX. WHERE SHOWN.
5. ASSEMBLE FIND NO. 13 TO BOTH SIDES OF UNITS AS SHOWN

QTY REQD -5	QTY REQD -4	QTY REQD -3	QTY REQD -2	QTY REQD -1	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	AR	AR	AR	AR	MIL-C-4003	CEMENT	15
1	1	1	1	1	1020085	PLATE, IDENTIFICATION, APOLLO G & N	14
AR	—	AR	AR	—	1006692-4	TAPE, PRESSURE SENSITIVE ADHESIVE	13
AR	AR	AR	AR	AR	MIL-S-40083, CL 31	SEALING & RETAINING COMPOUND	12
4	16	4	8	8	MS 35200-42	SCREW, FLAT HEAD	11
—	1	—	—	—	1006930-2	SLIDE (L.H. CHASSIS SECTION)	10
—	1	—	—	—	1006930-1	SLIDE (R.H. CHASSIS SECTION)	9
—	—	—	2	—	1014215-5	HANDLE ASSY	8
—	2	—	—	2	1014215-3	HANDLE ASSY	7
2	—	2	—	—	1014215-2	HANDLE ASSY	6
1	—	—	—	—	1006963	CALIBRATOR FREQUENCY	5
—	1	—	—	—	1006961	RECEIVER, PHASE COMPARATOR	4
—	—	1	—	—	1006962	COUNTER, ELECTRICAL	3
—	—	—	1	—	1006965	DIGITAL RECORDER	2
—	—	—	—	1	1006959	DRAWER	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1020344	
1014217	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN A. Vocce DATE 23 MAY 63
CHECKED 24 May 63
APPROVAL C. Sowling JPK
APPROVAL
APPROVAL
NASA APPROVAL 6-1-65
MIT APPROVAL 6/5/63
MIT APPROVAL 6/5/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE – SLIDE
ASSEMBLY
CALIBRATION CONSOLE

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014303
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014303

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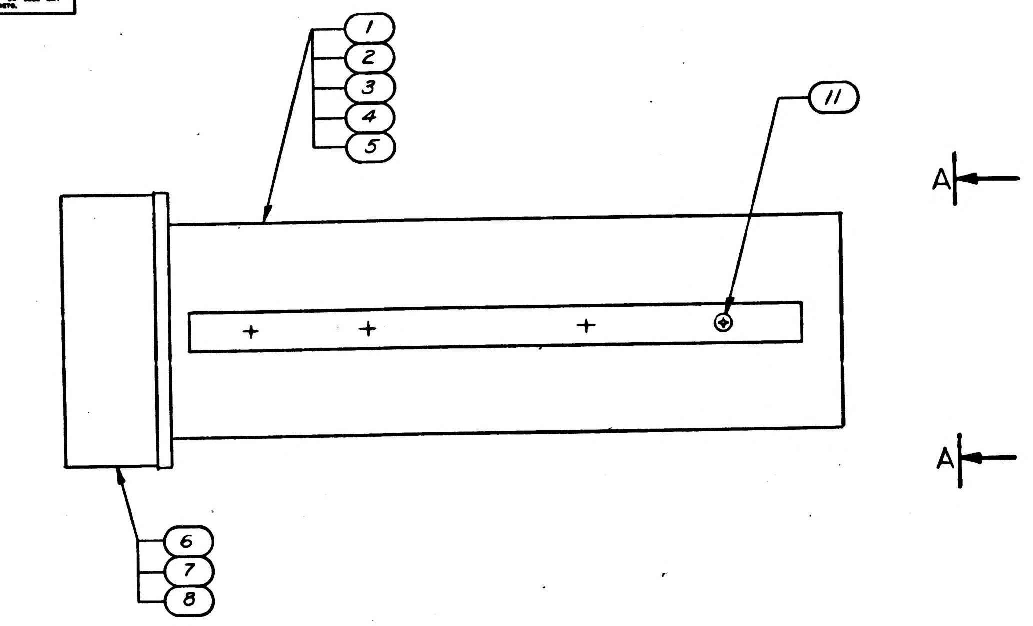
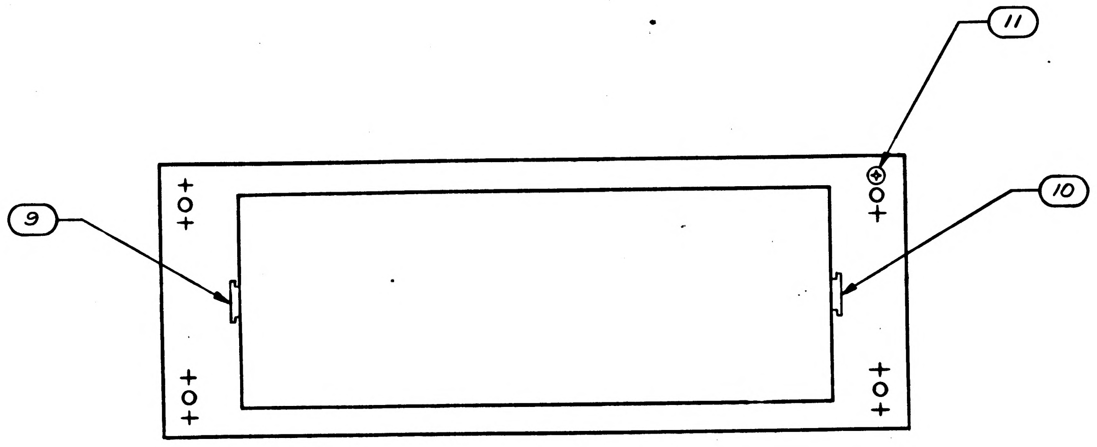
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 01487	6-5-63	





VIEW A-A

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 01487 DATE 6-5-63

QTY REQD	QTY REQD	QTY REQD	QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	16	4	8	8	MS 35200-43	SCREW, FLAT HEAD	11
—	1	—	—	—	1006930-2	SLIDE (L.H. CHASSIS SECTION)	10
—	1	—	—	—	1006930-1	SLIDE (R.H. CHASSIS SECTION)	9
—	—	—	2	—	1014215-5	HANDLE ASSY	8
—	2	—	—	2	1014215-3	HANDLE ASSY	7
2	—	2	—	—	1014215-2	HANDLE ASSY	6
1	—	—	—	—	1006963	CALIBRATOR FREQUENCY	5
—	1	—	—	—	1006961	RECEIVER, PHASE COMPARATOR	4
—	—	1	—	—	1006962	COUNTER, ELECTRICAL	3
—	—	—	1	—	1006965	DIGITAL RECORDER	2
—	—	—	—	1	1006959	DRAWER	1
-5	-4	-3	-2	-1	LIST OF MATERIALS		

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

HEAT TREATMENT

FINAL FINISH

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498

DRAWN a. Vocce DATE 23 MAY 63
CHECKED J R McCallen 24 May 63
APPROVAL C Sowley JPK
APPROVAL
APPROVAL
NASA APPROVAL W J Rhine 6-5-63
MIT APPROVAL L Gebman 6/5/63
MIT APPROVAL L Hafel 6/5/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE — SLIDE
ASSEMBLY
CALIBRATION CONSOLE

CODE IDENT NO. ——
SIZE D
NASA DRAWING NO. 1014303
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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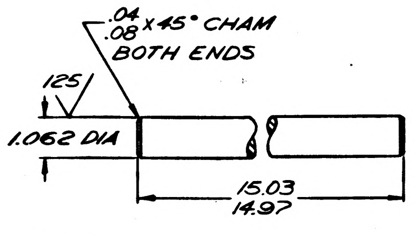
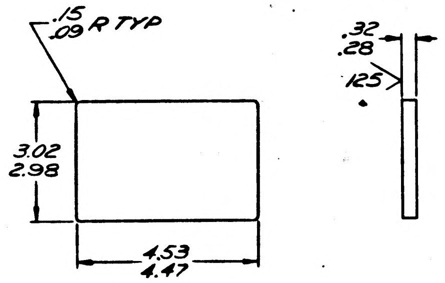
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		



.04 .08 X 45° CHAM BOTH ENDS
125
1.062 DIA
15.03 14.97

NOTES
1. MATL: 6061-T6 AL ROD PER FED. QQ-A-268, TEMP T4
2. REMOVE BURRS & SHARP EDGES

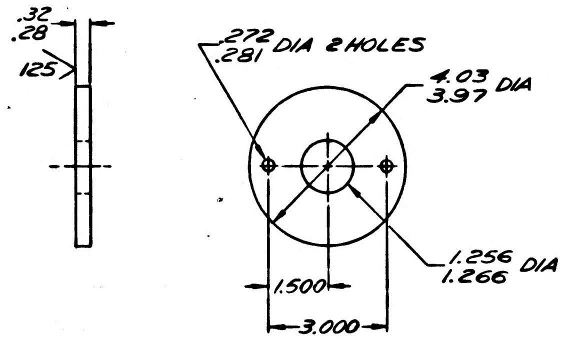
CENTER POST
1014305-2



.15 .09 R TYP
3.02 2.98
4.53 4.47
.32 .28
125

NOTES
1. MATL: 6061-T6 AL PLATE PER FED. QQ-A-327, TEMP T6
2. REMOVE BURRS & SHARP EDGES

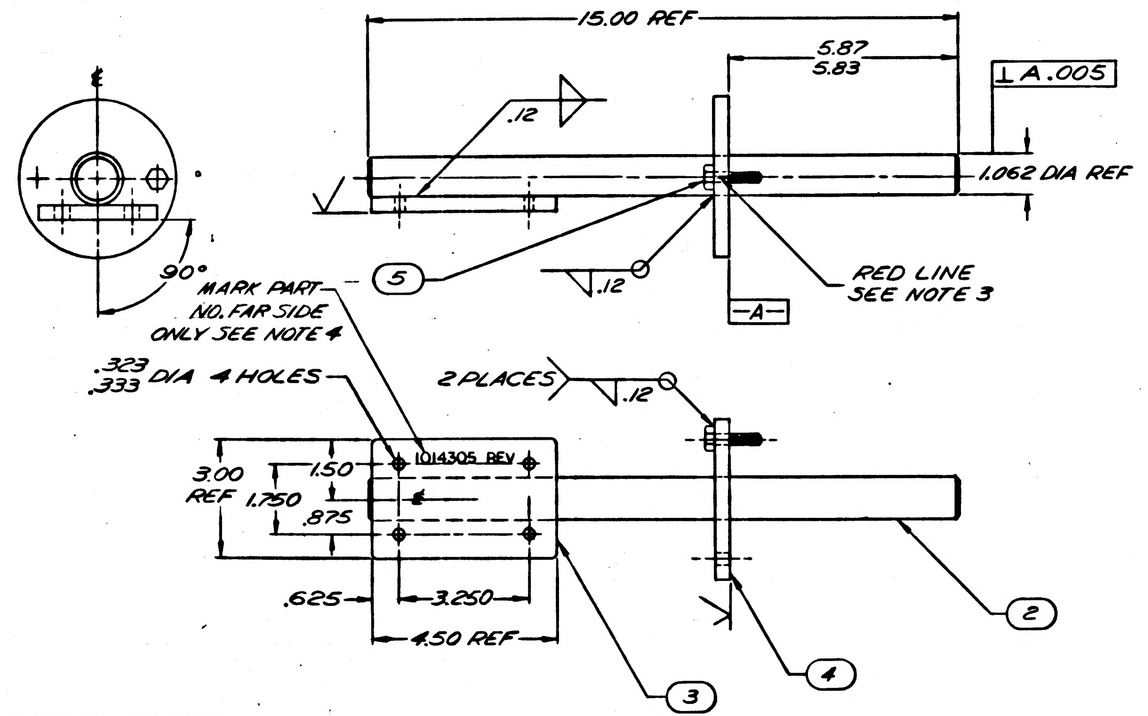
MOUNTING PLATE
1014305-3



.32 .28
125
.272 .281 DIA 2 HOLES
4.03 3.97 DIA
1.256 1.266 DIA
1.500
3.000

NOTES
1. MATL: 6061-T6 AL PLATE PER FED. QQ-A-327, TEMP T6
2. REMOVE BURRS & SHARP EDGES

LOCKING PLATE
1014305-4



15.00 REF
5.87 5.83
⊥ A .005
.12
1.062 DIA REF
⊈
90°
MARK PART NO. FAR SIDE ONLY SEE NOTE 4
5
.12
RED LINE SEE NOTE 3
-A-
.323 .333 DIA 4 HOLES
2 PLACES
.12
3.00 REF
1.50
1.750
.875
1014305 REV
.625
3.250
4.50 REF
2
3
4

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 0194D DATE 10 July 63

NOTES
1. WELD PER MIL-W-6858
2. CLEAR ANODIZE PER MIL-A-8625, TYPE I
3. METAL STAMP .04 .08 WIDE LINE PER ND1002019 & FILL WITH CHIP NO. 11105 PER FED. 595
4. MARK .12 HIGH BLACK CHARACTERS PER ND1002019 IN APPROX POSITION SHOWN

002019

REV STATUS OF PARTS	
PART NO.	REV SYMBOL
1014305-1	—
1014305-2	—
1014305-3	—
1014305-4	—

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2	MS35313-9	SCREW CAP	5
1	1014305-4	LOCKING PLATE	4
1	1014305-3	MOUNTING PLATE	3
1	1014305-2	CENTER POST	2
1	1014305-1	ANTENNA MTG ASSY	1

LIST OF MATERIALS

MASTER

1014289	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS ± DECIMALS ±.005 .02 ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 11 Jun 63
CHECKED A.P. Bogni 21JUN63
APPROVAL E. S
APPROVAL
APPROVAL J. Pendleton
NASA APPROVAL Jack Barnard
MIT APPROVAL 7/10/63
MIT APPROVAL 7/10/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

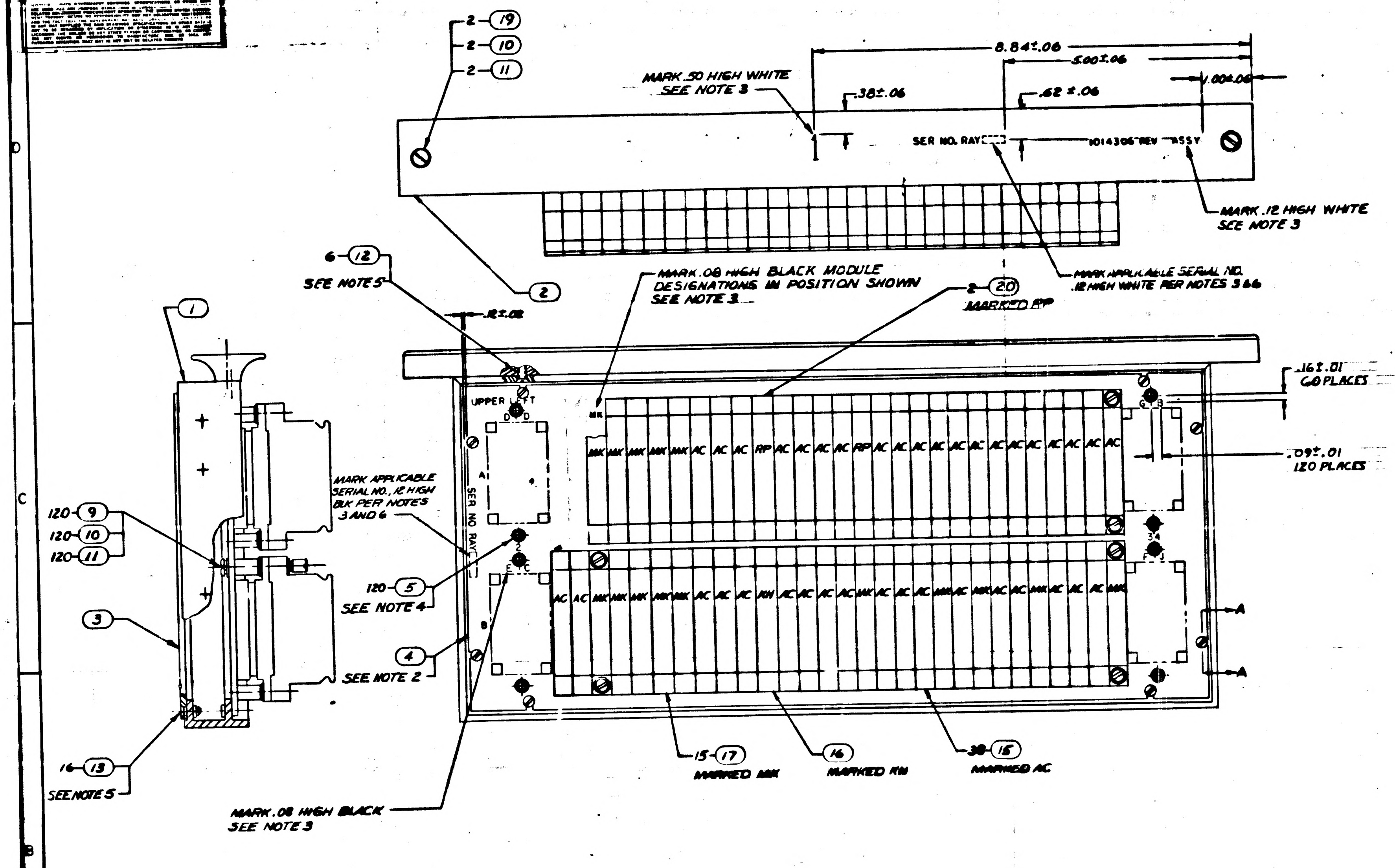
ANTENNA MOUNTING ASSEMBLY

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014305
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

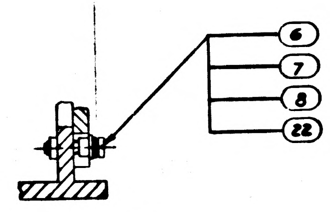
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVED
REVISIONS			
–	CL B RELEASED PER TDRR NO.		
A	CLASS II CHANGE PER RD-R 5507 DR C. Crosp CHK J.G. Rogers APPD	11-11-63	
B	CLASS II CHANGE PER R5713 DR. Ken Budd CHK APPD	11 FEB 64	
C	CHANGED PER TDRR 07537 DR CHK APPD	17 APR 64	



2-(19)
2-(10)
2-(11)
MARK .50 HIGH WHITE SEE NOTE 3
8.84±.06
5.00±.06
.38±.06
.62±.06
1.00±.06
SER NO. RAY
1014306 REV ASSY
MARK .12 HIGH WHITE SEE NOTE 3
(2)
MARK APPLICABLE SERIAL NO. .12 HIGH WHITE PER NOTES 3 & 6
6-(12)
SEE NOTE 5
MARK .08 HIGH BLACK MODULE DESIGNATIONS IN POSITION SHOWN SEE NOTE 3
2-(20) MARKED RP
.12±.02
(1)
UPPER LEFT
.16±.01 60 PLACES
.09±.01 120 PLACES
MARK APPLICABLE SERIAL NO. .12 HIGH BLK PER NOTES 3 AND 6
SER NO. RAY
120-(9)
120-(10)
120-(11)
120-(5) SEE NOTE 4
(3)
(4) SEE NOTE 2
16-(13) SEE NOTE 5
MARK .08 HIGH BLACK SEE NOTE 3
15-(17) MARKED MK
(16) MARKED RW
38-(15) MARKED AC
A
A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE 9-1-63



SECTION A-A
16 PLACES
SCALE 2/1

NOTES:

1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. WIREWRAP FIND NO. 4 USING 101 VV & V PER ND1002031
3. MARK PER ND1002019
4. LOCATE AND INSTALL FIND NO. 5 PER KEY CODE MARKING USING DWG NO. 1014047
5. ASSEMBLE FIND NO. 12 & 13 TO FIND NO. 1 USING FIND NO. 14
6. MARK SERIAL NO. PER ND1002023
7. AFTER MACHINE WIREWRAPPING PLATE, INSTALL ONE OF FIND NO. 23 BETWEEN PINS 1B34-8 & 1B33-20, ONE OF FIND NO. 23 BETWEEN PINS 1A12-8 & 1A14-20, ONE OF FIND NO. 23 BETWEEN PINS 1B2-9 & 1B5-20, ONE OF FIND NO. 23 BETWEEN PINS 1B1-19 & 1B3-20, ONE OF FIND NO. 23 BETWEEN PINS 1B13-4 & 1B14-20, ONE OF FIND NO. 23 BETWEEN PINS 1A35-6 & 1A35-20, & ONE OF FIND NO. 23 BETWEEN PINS 1A18-7 & 1A19-20, INSTALL WITH MINUS (-) ALWAYS ON PIN 20, SOLDER PER MIL-S-6872, FIND NO. 24 ON FIND NO. 23 LEADS AS REQUIRED & COVER CAPACITOR BODY USING FIND NO 25, 56 LONG.
8. MIL-I-631, TYPE F, FORM Ua, GRADE a, CLASS I, CATEGORY I, COLOR BLUE, AWG SIZE NO. 24, FOR FIND 24
9. AR DENOTES AS REQUIRED
10. MIL-I-631, TYPE F, FORM Ua, GRADE a, CLASS I, CATEGORY I, AWG SIZE NO. 8, FOR FIND NO. 25

SEE NOTE 7

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	SEE NOTE 10	SLEEVING	25
☒	1014269	LOGIC FLOW DIAGRAM	REF
☒	1014352	LOGIC FLOW DIAGRAM	REF
☒	1014266	LOGIC FLOW DIAGRAM	REF
☒	1014379	LOGIC FLOW DIAGRAM	REF
☒	~~1014196~~	~~SCHEMATIC~~	~~REF~~
☒	1014424	WIREWRAP MACH CARDS	REF
☒	~~1014425~~	~~COMPUTER READOUT~~	~~REF~~
AR	SEE NOTE 8	SLEEVING	24
7	CS13AF010K	CAPACITOR	23
16	1006986	WASHER SHOULDER NYLON	22
~~2~~	~~1014053~~	~~MODULE, TRANSFORMER~~	21
2	1014065-2	MODULE, RESISTOR	20
2	1006998-1	SCREW, CAPTIVE	19
AR	ND1002107	WIRE NO. 24 AWG	18
15	1014096	MODULE, DRIVER	17
1	1014079	MODULE, GATED FLIP FLOP	16
38	1014034	MODULE, NOR	15
AR	MIL-S-40083, CLASS 31	SEALING & RETAINING COMP	14
16	MS35200-14	SCREW, FLAT HD	13
6	MS35200-24	SCREW, FLAT HD	12
122	MS35338-79	WASHER, LOCK	11
122	1006997	WASHER, FLAT	10
120	MS35233-29	SCREW, PAN HD	9
16	MS35338-78	WASHER, LOCK	8
16	MS15795-303	WASHER, FLAT	7
16	MS35233-17	SCREW, PAN HD	6
120	1014212	STANDOFF, PROGRAM	5
1	1014048-1	PLATE ASSY	4
1	1014026	COVER, CONN PLATE	3
1	1017258	SUPPORT, FRAME	2
1	1014014-2	FRAME	1

LIST OF MATERIALS

1014309	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-49
DRAWN DATE
CHECKED G.J. Manners 9 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC PLATE ASSY NO. 1
PROGRAMMER AND MONITOR

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014306
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014306

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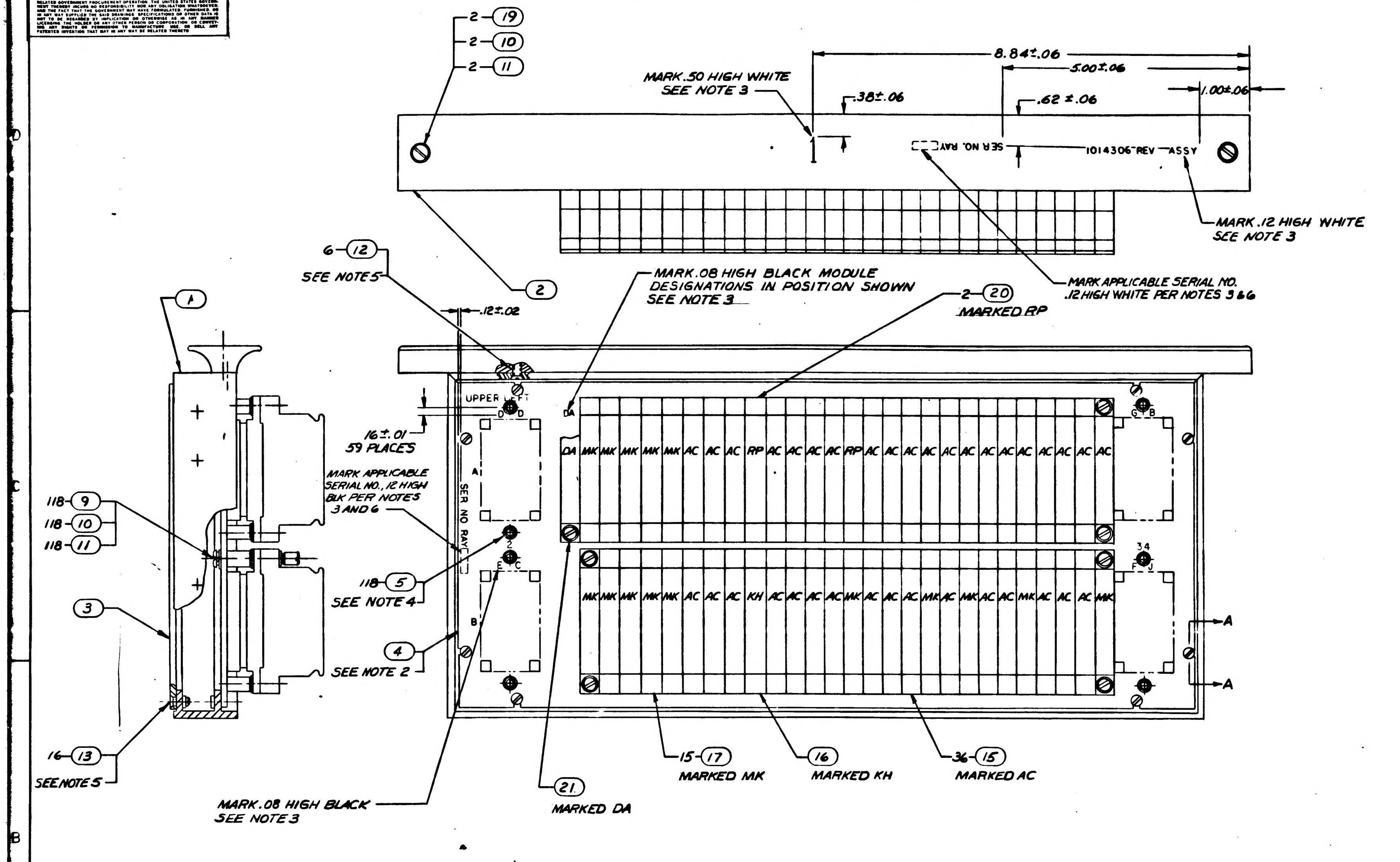
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR NO.		

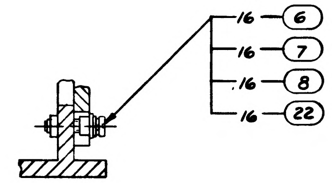


2-(19)
2-(10)
2-(11)
MARK .50 HIGH WHITE SEE NOTE 3
8.84±.06
5.00±.06
.38±.06
.62±.06
1.00±.06
SER NO. RAY
1014306-REV ASSY
MARK .12 HIGH WHITE SEE NOTE 3
(2)
MARK APPLICABLE SERIAL NO. .12 HIGH WHITE PER NOTES 3 & 6
6-(12) SEE NOTES 5
MARK .08 HIGH BLACK MODULE DESIGNATIONS IN POSITION SHOWN SEE NOTE 3
2-(20) MARKED RP
(1)
.12±.02
UPPER LEFT
16±.01 59 PLACES
MARK APPLICABLE SERIAL NO., .12 HIGH BLK PER NOTES 3 AND 6
SER NO RAY
A
B
D D
E C
G B
F J
2
34
DA
DA MK MK MK MK MK AC AC AC RP AC AC AC AC RP AC AC AC AC AC AC AC AC AC AC AC AC AC
MK MK MK MK MK AC AC AC KH AC AC AC AC MK AC AC AC MK AC MK AC AC MK AC AC AC MK
118-(9)
118-(10)
118-(11)
(3)
118-(5) SEE NOTE 4
(4) SEE NOTE 2
16-(13) SEE NOTE 5
MARK .08 HIGH BLACK SEE NOTE 3
(21) MARKED DA
15-(17) MARKED MK
(16) MARKED KH
36-(15) MARKED AC
A
A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 00910 DATE 9-5-63

NOTES:

1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. WIREWRAP FIND NO. 4 USING 1014424 PER ND1002031
3. MARK PER ND1002019
4. LOCATE AND INSTALL FIND NO. 5 PER KEY CODE MARKING USING DWG NO. 1014047
5. ASSEMBLE FIND NO. 12 & 13 TO FIND NO. 1 USING FIND NO. 14
6. MARK SERIAL NO. PER ND1002023



16-(6)
16-(7)
16-(8)
16-(22)

SECTION A-A
16 PLACES
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1014196	SCHEMATIC	REF
☒	1014424	WIREWRAP MACH CARDS	REF
☒	1014425	COMPUTER READOUT	REF
16	1006986	WASHER SHOULDER NYLON	22
1	1014053	MODULE, TRANSFORMER	21
2	1014065-2	MODULE, RESISTOR	20
2	1006998-1	SCREW, CAPTIVE	19
AR	ND1002107	WIRE NO. 24 AWG	18
15	1014096	MODULE, DRIVER	17
1	1014079	MODULE, GATED FLIP FLOP	16
36	1014034	MODULE, NOR	15
AR	MIL-S-40083, CLASS 31	SEALING & RETAINING COMP	14
16	MS35200-14	SCREW, FLAT HD	13
6	MS35200-24	SCREW, FLAT HD	12
120	MS35338-79	WASHER, LOCK	11
120	1006997	WASHER, FLAT	10
118	MS35233-29	SCREW, PAN HD	9
16	MS35338-78	WASHER, LOCK	8
16	MS15795-303	WASHER, FLAT	7
16	MS35233-17	SCREW, PAN HD	6
118	1014212	STANDOFF, PROGRAM	5
1	1014048-1	PLATE ASSY	4
1	1014026	COVER, CONN PLATE	3
1	1014258	SUPPORT, FRAME	2
1	1014014-2	FRAME	1

LIST OF MATERIALS

1014309	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN R.C. Dunton DATE 7 AUG 63
CHECKED O.J. Mormoro 9 AUG 63
APPROVAL E. Sparling 22 Aug 63
APPROVAL
APPROVAL J. Pendleton
NASA APPROVAL
MIT APPROVAL 9/5/63
MIT APPROVAL 9/5/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC PLATE ASSY NO. 1
PROGRAMMER AND MONITOR

CODE IDENT NO —
SIZE F
NASA DRAWING NO 1014306
SCALE 1/1 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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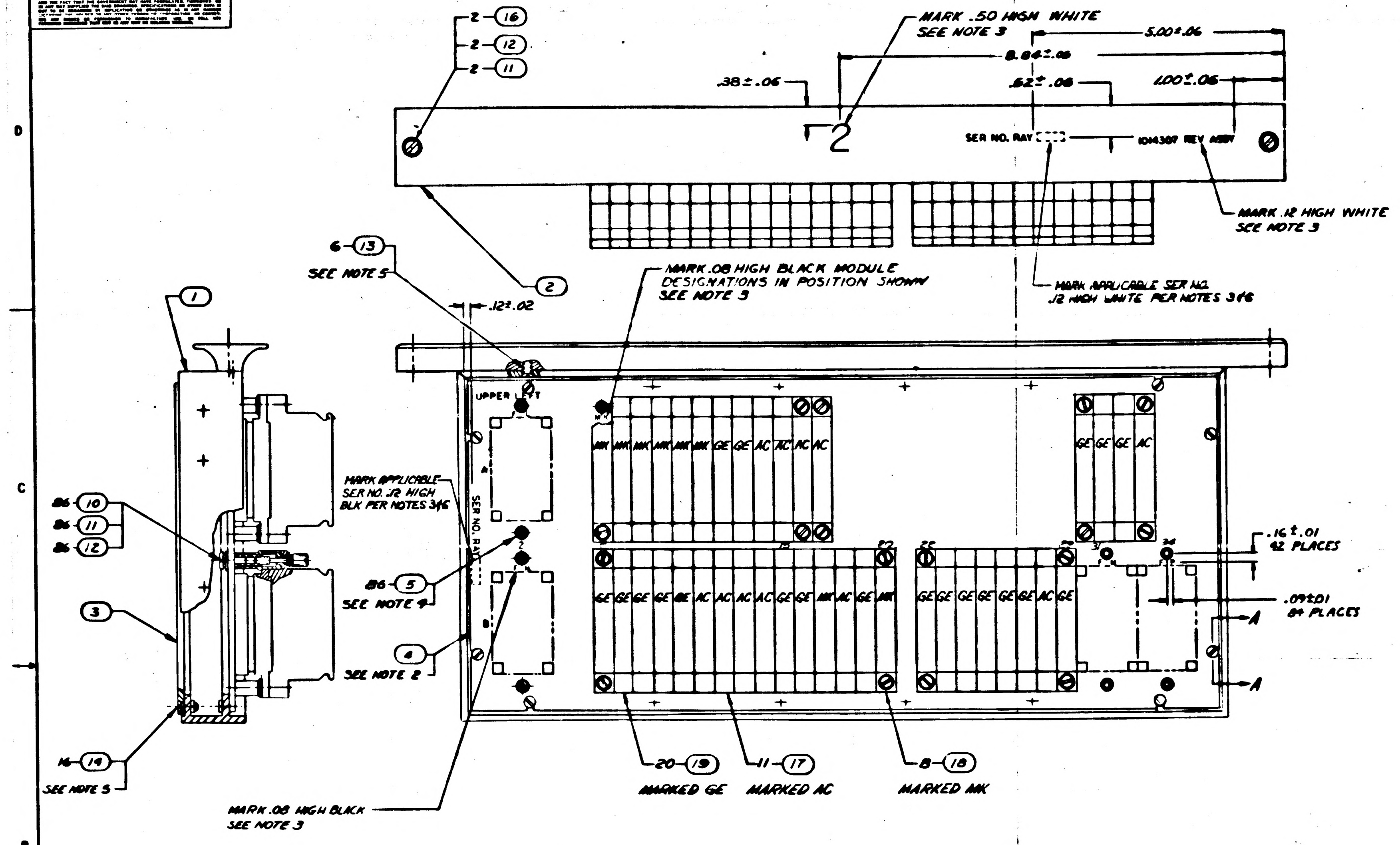
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 02529	May 63	
A	CLASS II CHANGE PER RD-R 5507 DR C. Champ CHK APPD	[illegible]	
B	CLASS II CHANGE PER RD-R5679 DR R.S. Tracy CHK C. Joubert APPD	1-5-64	
C	CHANGED PER TDRB 09748 DR Kimball CHK APPD	7-23-64	KCB

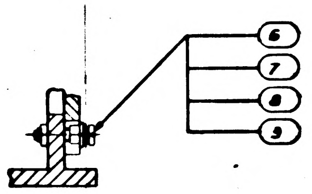


2 — (16)
2 — (12)
2 — (11)
MARK .50 HIGH WHITE
SEE NOTE 3
.38 ± .06
8.84 ± .06
5.00 ± .06
.62 ± .06
1.00 ± .06
2
SER NO. RAY
1014307 REV ASSY
MARK .12 HIGH WHITE
SEE NOTE 3
(2)
6 — (13)
SEE NOTE 5
.12 ± .02
MARK .08 HIGH BLACK MODULE
DESIGNATIONS IN POSITION SHOWN
SEE NOTE 3
MARK APPLICABLE SER NO.
.12 HIGH WHITE PER NOTES 3 & 6
(1)
UPPER LEFT
MARK APPLICABLE
SER NO. .12 HIGH
BLK PER NOTES 3 & 6
SER NO. RAY
86 — (10)
86 — (11)
86 — (12)
(3)
86 — (5)
SEE NOTE 4
(4)
SEE NOTE 2
16 — (14)
SEE NOTE 5
MARK .08 HIGH BLACK
SEE NOTE 3
MK MK MK MK MK MK GE GE AC AC AC AC
GE GE GE AC
GE GE GE GE GE AC AC AC AC GE GE MK AC GE MK
GE GE GE GE GE GE AC GE
.16 ± .01
42 PLACES
.09 ± .01
84 PLACES
A
A
20 — (19)
MARKED GE
11 — (17)
MARKED AC
8 — (18)
MARKED MK

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02529 DATE May 63

NOTES

1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. WIREWRAP FIND NO. 4 USING FIND NO. 20 PER ND1002031
3. MARK PER ND1002019
4. LOCATE & INSTALL FIND NO. 5 PER KEY CODE MARKING USING DWG NO. 1014047
5. ASSEMBLE FIND NO. 13 AND FIND NO. 14 TO FIND NO. 1 USING FIND NO. 15
6. MARK SERIAL NO. PER ND1002023



SECTION A-A
16 PLACES
SCALE 2/1

☒	1014196	SCHEMATIC	REF
☒	1014426	WIREWRAP MACH. CARDS	REF
☒	1014427	COMPUTER READOUT	REF
☒	1014262	LOGIC FLOW DIAGRAM	REF
AR	ND1002107	WIRE, NO. 24 AWG	20
20	1014230	MODULE, INTERFACE RCVR	19
8	1014096	MODULE, DRIVER	18
11	1014034	MODULE, NOR	17
2	1006998-1	SCREW, CAPTIVE	16
AR	MIL-S-40083, CL31	SEALING & RETAINING COMPOUND	15
16	MS35200-14	SCREW, FLAT HD	14
6	MS35200-24	SCREW, FLAT HD	13
88	MS35338-79	WASHER, LOCK	12
88	1006997	WASHER, FLAT	11
86	MS35233-29	SCREW, PAN HD	10
16	1006986	WASHER, SHOULDERED, NYLON	9
16	MS35338-78	WASHER, LOCK	8
16	MS15795-303	WASHER, FLAT	7
16	MS35233-17	SCREW, PAN HD	6
86	1014212	STAND OFF, PROGRAM	5
1	1014048-1	PLATE ASSY	4
1	1014026	COVER, CONN PLATE	3
1	1014258	SUPPORT, FRAME	2
1	1014014-2	FRAME	1
QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014307

1014309	
NEXT ASSY	USED-ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 27 Mar
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC PLATE ASSY NO. 2
PROGRAMMER AND MONITOR

CODE IDENT NO —
SIZE F
NASA DRAWING NO. 1014307
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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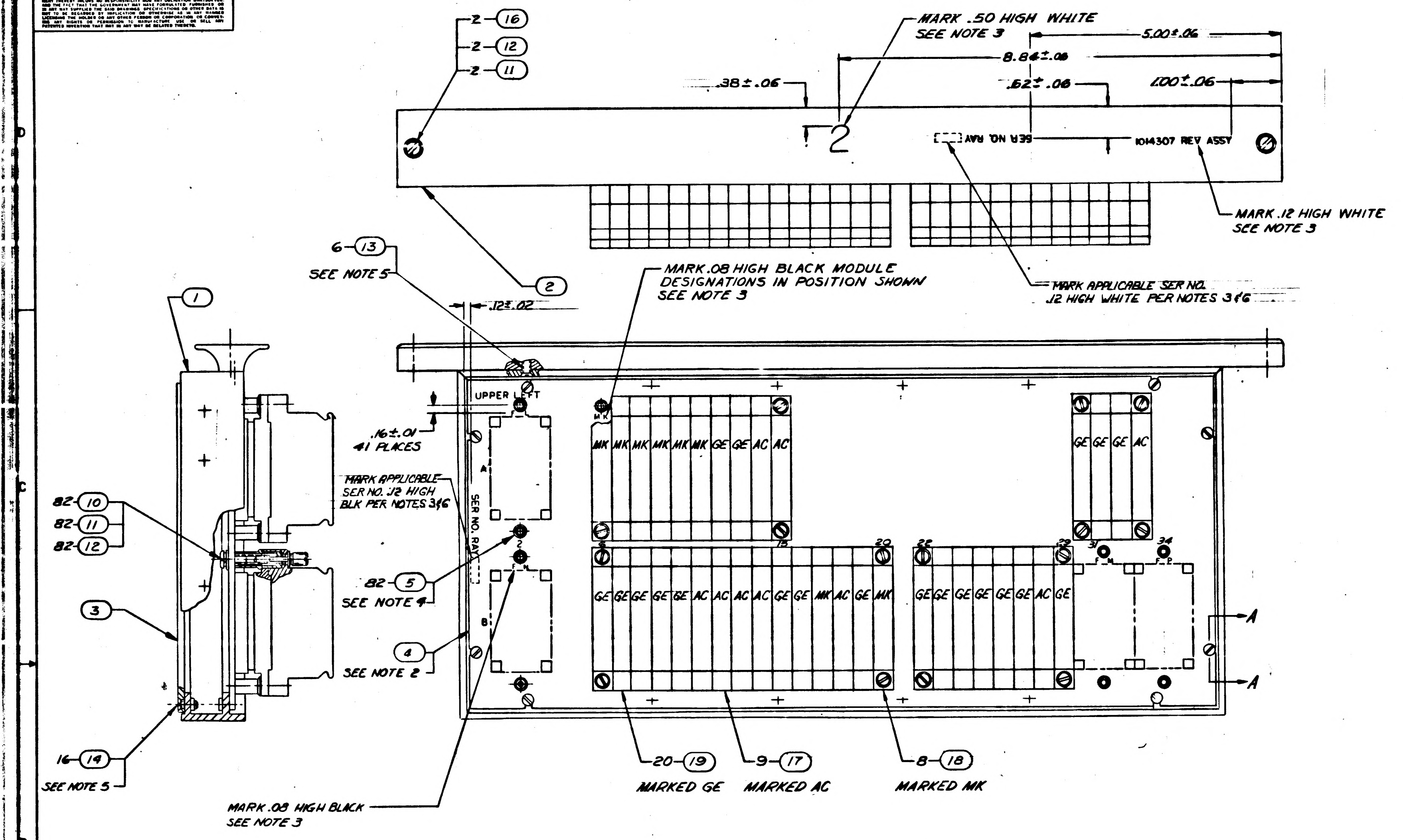
REVISIONS			
SYM	DESCRIPTION	DATE	APPROV
—	CLASS B RELEASED PER TDRR NO. 02529	1 May 63	

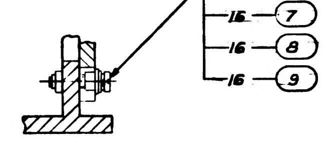


2 (16)
2 (12)
2 (11)
MARK .50 HIGH WHITE
SEE NOTE 3
5.00±.06
8.84±.06
.38±.06
.62±.06
1.00±.06
2
SER NO. RAY
1014307 REV ASSY
MARK .12 HIGH WHITE
SEE NOTE 3
(2)
6 (13)
SEE NOTE 5
.12±.02
MARK .08 HIGH BLACK MODULE
DESIGNATIONS IN POSITION SHOWN
SEE NOTE 3
MARK APPLICABLE SER NO.
.12 HIGH WHITE PER NOTES 3&6
(1)
UPPER LEFT
.16±.01
41 PLACES
MARK APPLICABLE
SER NO. .12 HIGH
BLK PER NOTES 3&6
SER NO. RAY
82 (10)
82 (11)
82 (12)
82 (5)
SEE NOTE 4
(3)
(4)
SEE NOTE 2
A
B
MK
MK MK MK MK MK MK GE GE AC AC
GE GE GE AC
6
15
20
22
29
31
34
GE GE GE GE GE AC AC AC AC GE GE MK AC GE MK
GE GE GE GE GE GE AC GE
A
A
16 (14)
SEE NOTE 5
20 (19)
MARKED GE
9 (17)
MARKED AC
8 (18)
MARKED MK
MARK .08 HIGH BLACK
SEE NOTE 3

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02529 DATE 1 May 63

NOTES

1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. WIREWRAP FIND NO. 4 USING PER ND1002031
3. MARK PER ND1002019
4. LOCATE & INSTALL FIND NO. 5 PER KEY CODE MARKING USING DWG NO. 1014047
5. ASSEMBLE FIND NO. 13 AND FIND NO. 14 TO FIND NO. 1 USING FIND NO. 15
6. MARK SERIAL NO. PER ND1002023



16 (6)
16 (7)
16 (8)
16 (9)

SECTION A-A
16 PLACES
SCALE 2/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1014196	SCHEMATIC	REF
☒	1014426	WIREWRAP MACH. CARDS	REF
☒	1014427	COMPUTER READOUT	REF
AR	ND1002107	WIRE, NO. 24 AWG	20
20	1014230	MODULE, INTERFACE RCVR	19
8	1014096	MODULE, DRIVER	18
9	1014034	MODULE, NOR	17
2	1006998-1	SCREW, CAPTIVE	16
AR	MIL-S-40083, CL31	SEALING & RETAINING COMPOUND	15
16	MS35200-14	SCREW, FLAT HD	14
6	MS35200-24	SCREW, FLAT HD	13
82	MS35338-79	WASHER, LOCK	12
84	1006997	WASHER, FLAT	11
82	MS35233-29	SCREW, PAN HD	10
16	1006986	WASHER, SHOULDERED NYLON	9
16	MS35338-78	WASHER, LOCK	8
16	MS15795-303	WASHER, FLAT	7
16	MS35233-17	SCREW, PAN HD	6
82	1014212	STAND OFF, PROGRAM	5
1	1014048-1	PLATE ASSY	4
1	1014026	COVER, CONN PLATE	3
1	1014258	SUPPORT, FRAME	2
1	1014014-2	FRAME	1

LIST OF MATERIALS

1014307

1014309	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 27 May 63
CHECKED 29 Apr 63
APPROVAL 4/16/63
APPROVAL 4/16/63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 1 May 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC PLATE ASSY NO. 2
PROGRAMMER AND MONITOR

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014307
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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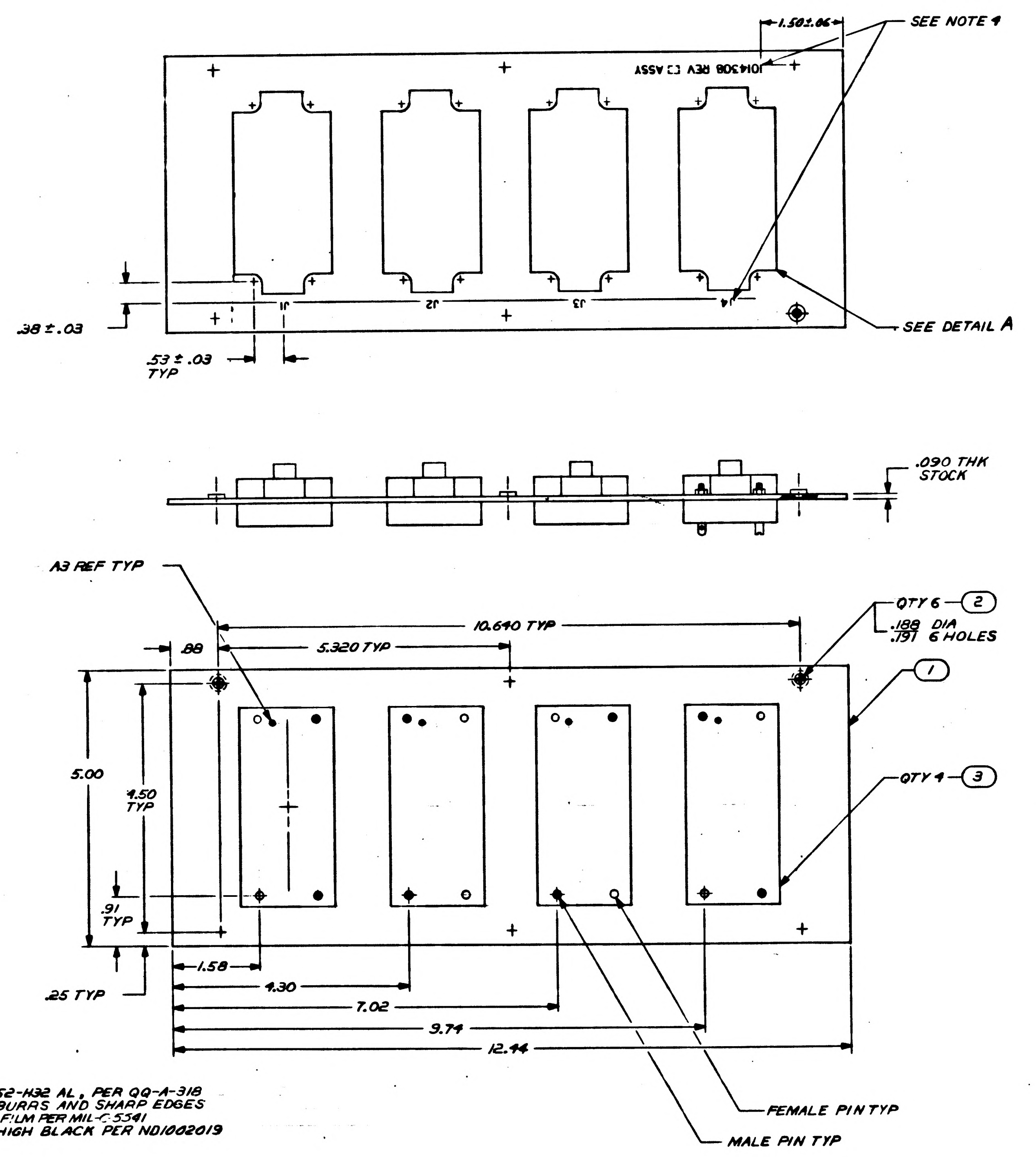
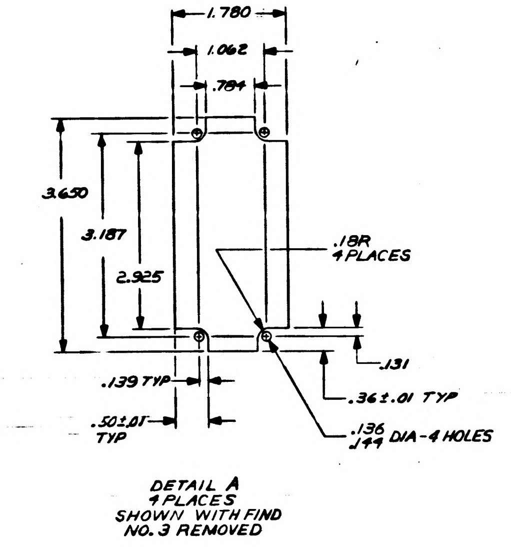
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 03585		



1.50±.06
SEE NOTE 4
1014308 REV [ ] ASSY
J1
J2
J3
J4
SEE DETAIL A
.38±.03
.53±.03 TYP
.090 THK STOCK
A3 REF TYP
10.640 TYP
5.320 TYP
.88
QTY 6 — 2
.188 DIA .191 6 HOLES
1
5.00
4.50 TYP
QTY 4 — 3
.91 TYP
.25 TYP
1.58
4.30
7.02
9.74
12.44
FEMALE PIN TYP
MALE PIN TYP



1.780
1.062
.784
3.650
3.187
2.925
.18R 4 PLACES
.131
.139 TYP
.36±.01 TYP
.50±.01 TYP
.136 .144 DIA-4 HOLES

DETAIL A
4 PLACES
SHOWN WITH FIND NO. 3 REMOVED

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03585 DATE 3 Oct 63

NOTES
1. MATL: 5052-H32 AL, PER QQ-A-318
2. REMOVE BURRS AND SHARP EDGES
3. CHROMATE FILM PER MIL-C-5541
4. MARK .12 HIGH BLACK PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	1006671	CONNECTOR, RECEPTACLE	3
6	1006989-11	NUT, SELF-CLINCHING	2
1	1014308-1	PLATE, CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014309	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 .02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 1
HEAT TREATMENT
FINAL FINISH SEE NOTE 3

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P.S. Drag DATE 22 Aug 63
CHECKED A.J. Marinaro 6 Sept 63
APPROVAL E. Sparling JRK
APPROVAL 9/20/63
APPROVAL 9/6/63
NASA APPROVAL 10-2-63
MIT APPROVAL
MIT APPROVAL 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE & CONNECTOR ASSY
PROGRAMMER AND MONITOR

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014308
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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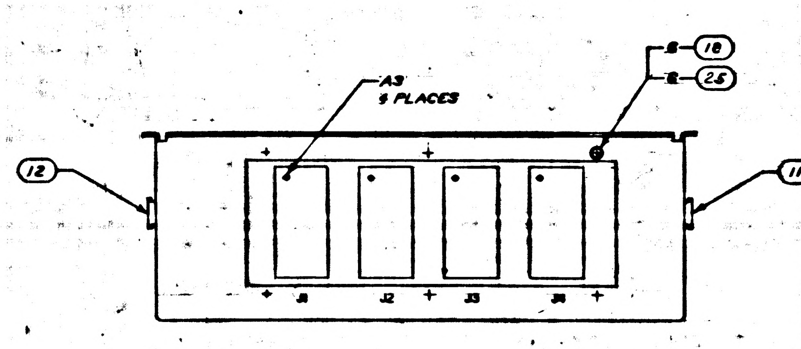
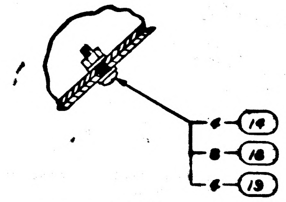
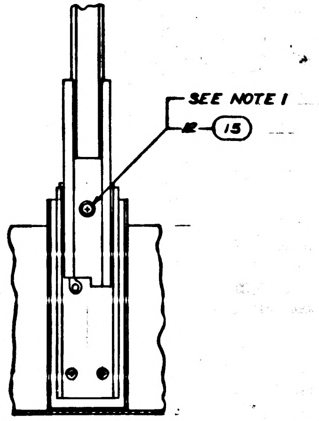
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO		
A	CLASS II CHANGE PER RD-R5655 DR J.P. Leonard CHK W. J. Gifford APPD	8 JAN 64	JJB
B	CHANGED PER TDRR 06764 DR. CHK J.J APPD	64	


A3
4 PLACES
8-(10)
8-(25)
(12)
(11)
J1
J2
J3
J4

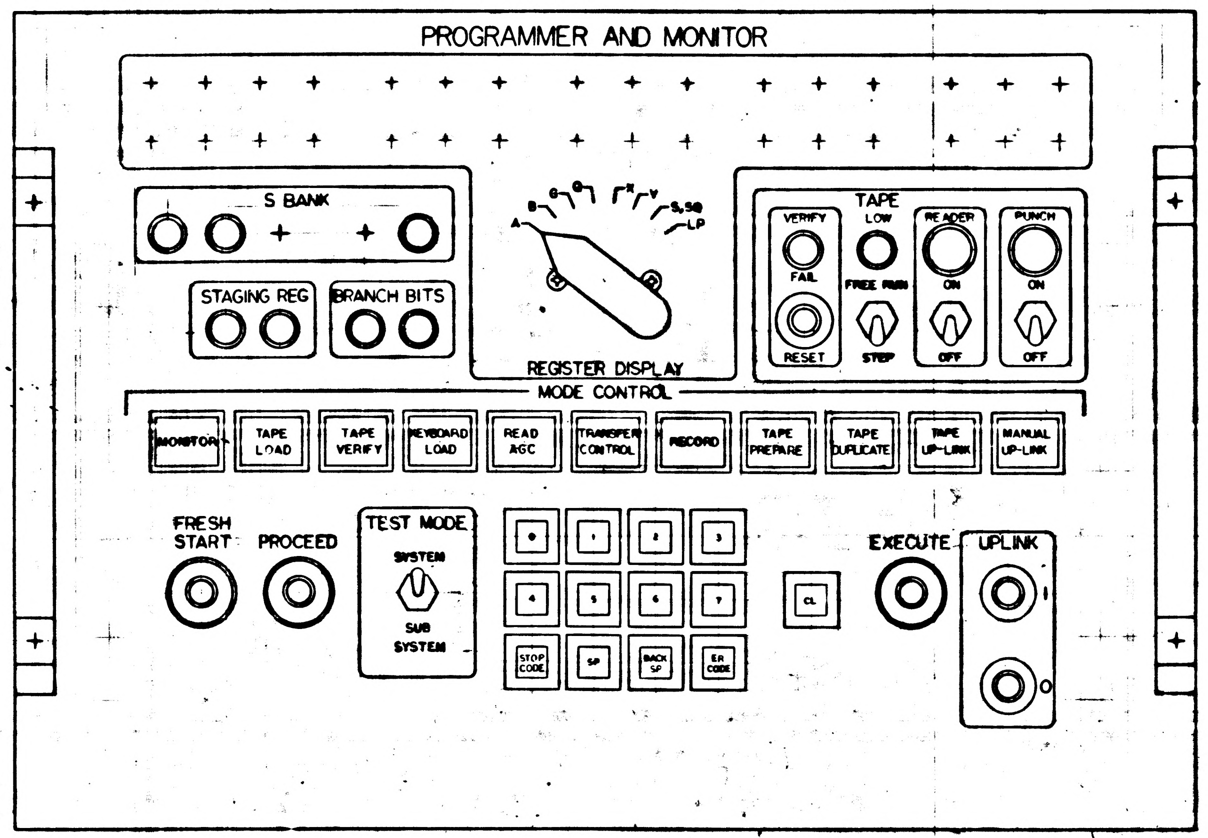
VIEW C-C

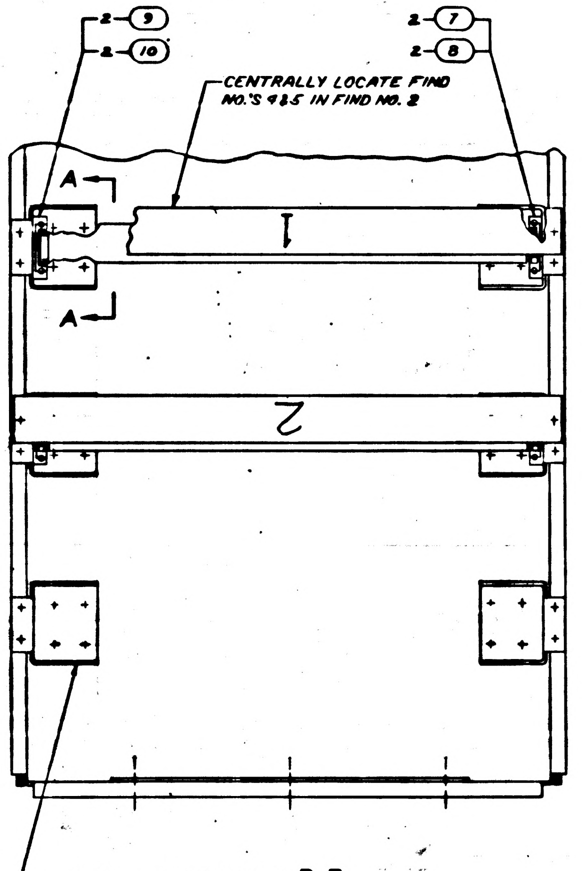


SECTION B-B
SCALE 1/1
4 PLACES


SEE NOTE 1
12-(15)

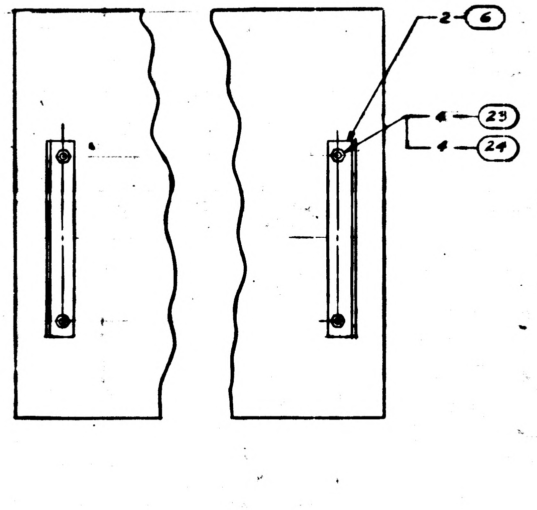
SECTION A-A
ROTATED 90° C/W
SHOWN WITH SLIDE EXTENDED


PROGRAMMER AND MONITOR
S BANK
STAGING REG
BRANCH BITS
A
B
C
D
F
V
S,SB
LP
REGISTER DISPLAY
TAPE
VERIFY
FAIL
RESET
LOW
FREE RUN
STEP
READER
ON
OFF
PUNCH
ON
OFF
MODE CONTROL
MONITOR
TAPE LOAD
TAPE VERIFY
KEYBOARD LOAD
READ AGC
TRANSFER CONTROL
RECORD
TAPE PREPARE
TAPE DUPLICATE
TAPE UP-LINK
MANUAL UP-LINK
FRESH START
PROCEED
TEST MODE
SYSTEM
SUB SYSTEM
STOP CODE
SP
BACK SP
ER CODE
CL
EXECUTE
UPLINK


2-(9)
2-(10)
2-(7)
2-(8)
CENTRALLY LOCATE FIND NO.'S 4&5 IN FIND NO. 2
A
A
1
2
6-(3)

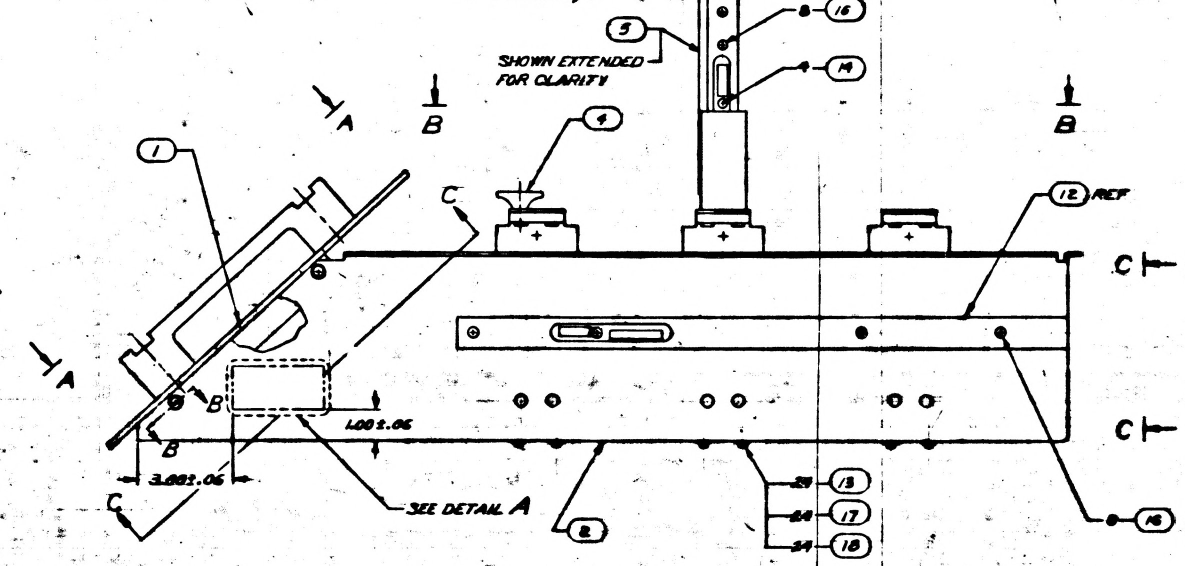
PARTIAL VIEW B-B
ROTATED 90° CLOCKWISE

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO 03585 DATE 3 Oct 63



SECTION C-C
FIND NO.2 NOT SHOWN

VIEW A-A
SCALE 1/1


(5)
SHOWN EXTENDED FOR CLARITY
8-(16)
4-(19)
(4)
(1)
A
A
B
B
C
C
C
C
(12) REF
B
B
1.00±.06
3.00±.06
SEE DETAIL A
(2)
24-(13)
24-(17)
34-(18)
8-(16)

SEE NOTE 4

NASA
UNIT PROGRAMMER AND MONITOR
DWG NO. 1014309
SER NO. RAY
MFG BY RAYTHEON
UNDER CONTRACT NO. NAS 9-498

.12±.03
TYP

DETAIL A

NOTES:
1. ASSEMBLE FIND NO. 15 TO FIND NO.7, 8, 9 & 10 USING FIND NO. 20
2. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
3. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032
4. MARK .12 HIGH BLACK PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
—	1014440	SCHEMATIC	REF
—	1020064	INTERCONN. DIAGRAM	REF
~~4~~	~~MS35649-04~~	~~NUT~~	~~26~~
6	MS35216-26	SCREW, PAN HD	25
4	MS15795-308	WASHER FLAT	24
4	MS21044-C3	NUT SELF LOCKING	23
~~4~~	~~MS15795-305~~	~~WASHER, FLAT~~	~~22~~
~~4~~	~~MS35337-79~~	~~WASHER, LOCK~~	~~21~~
A/R	MIL-S-40083 CL 31	SEALING COMPOUND	20
4	MS21044-C08	NUT, SELF-LOCKING	19
38	MS15795-307	WASHER, FLAT	18
24	MS35337-80	WASHER, LOCK	17
16	MS35200-44	SCREW, FLAT HD	16
12	MS35200-40	SCREW, FLAT HD	15
8	MS35216-43	SCREW, PAN HD	14
24	MS35216-42	SCREW, PAN HD	13
1	1006930-5	SLIDE, RH	12
1	1006930-6	SLIDE, LH	11
2	1006988-4	SLIDE, RH	10
2	1006988-2	SLIDE, RH	9
2	1006988-3	SLIDE, LH	8
2	1006988-1	SLIDE, LH	7
2	1020063	BRACKET, ANGLE	6
1	1014307	LOGIC PLATE ASSY NO. 2	5
1	1014306	LOGIC PLATE ASSY NO. 1	4
6	1014255-2	BRACKET ASSY	3
1	1014296	CHASSIS	2
1	1014143	PANEL ASSY	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R C Taylor DATE
CHECKED 29 Jul 63
APPROVAL C Sandy
APPROVAL 9/20/63
APPROVAL
NASA APPROVAL
APPROVAL
APPROVAL Oct 3,63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWER ASSEMBLY
PROGRAMMER AND MONITOR

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	J	1014309
SCALE 1/2	WT	SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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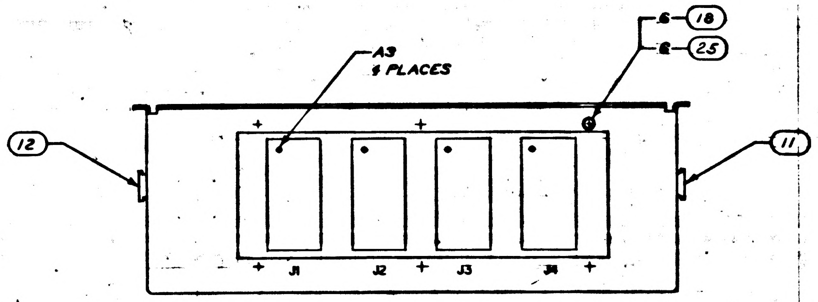
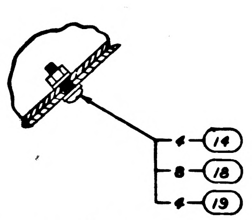
REVISIONS

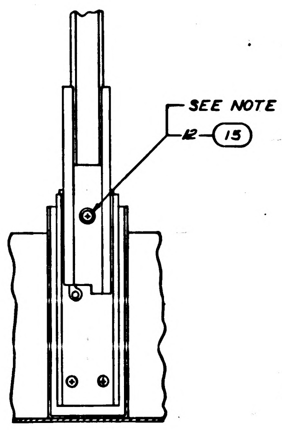
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO 03585		
A	CLASS II CHANGE PER RD-R5655 DR J.P. Leonard CHK W. J. Gifford APPD	8 JAN 64	JGB
B	CHANGED PER TDRR 06764 DR. Ken Bush CHK J.J. APPD	3 MAR 64	CB
C	CHANGED PER RD R 5927 DR. W. Brown CHK G. Coggins APPD.	MAR 64	KEB
D	CHANGED PER TDRR 10955 DR. W. Brown CHK. APPD	7-1-64	JB


A3
4 PLACES
6-18
6-25
12
11
J1
J2
J3
J4

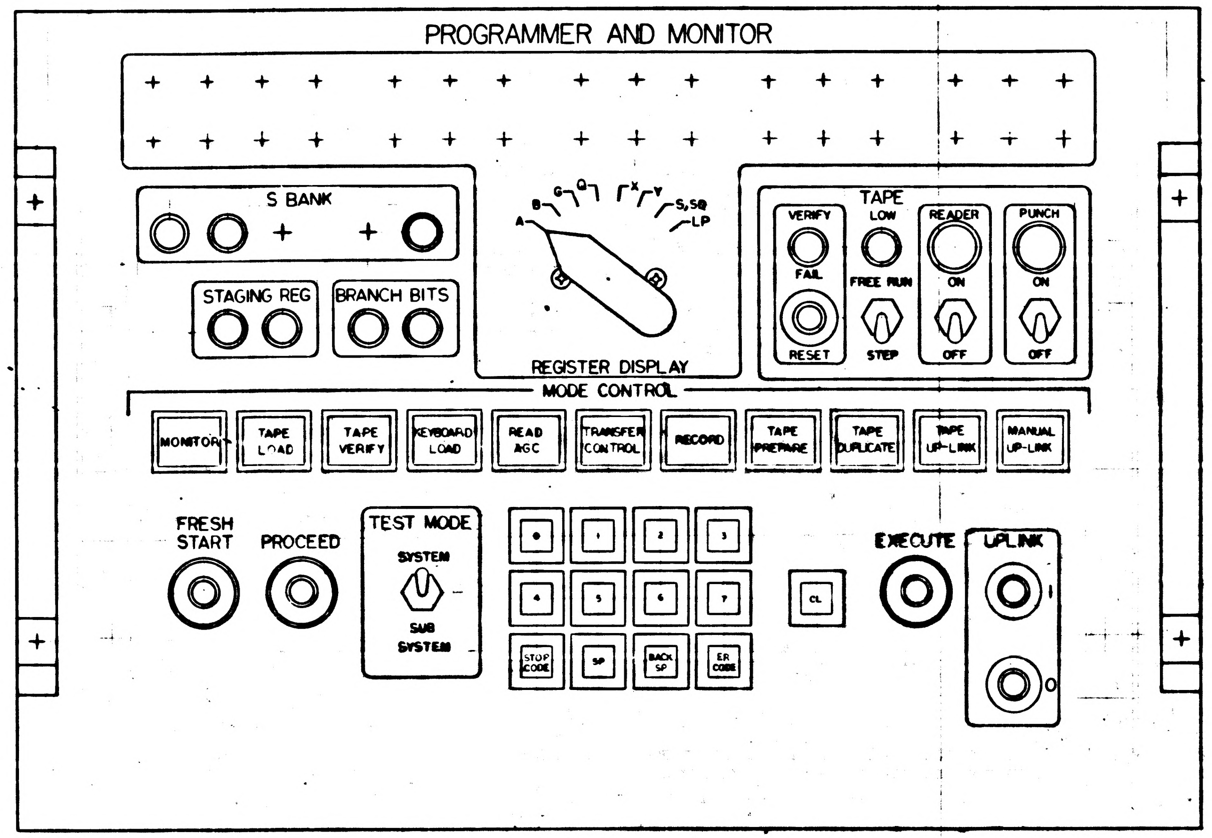
VIEW C-C

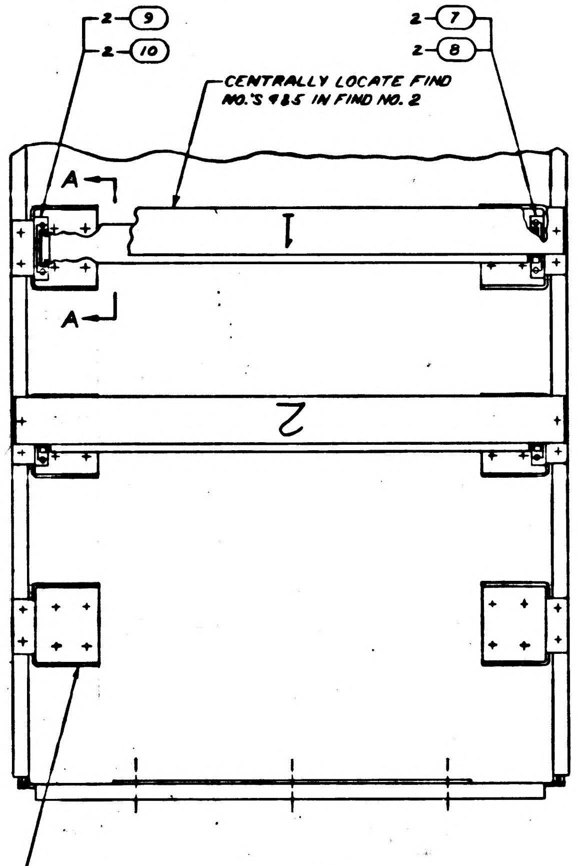


SECTION B-B
SCALE 1/1
4 PLACES


SEE NOTE 1
12-15

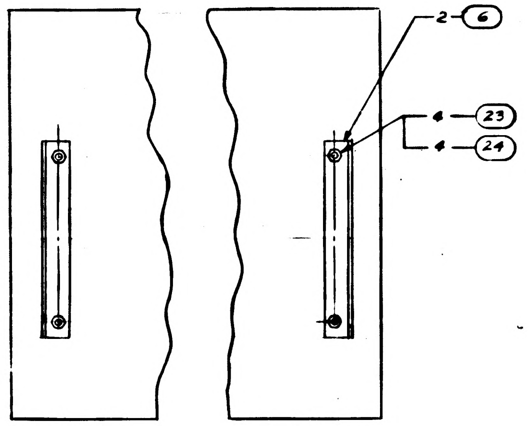
SECTION A-A
ROTATED 90° CW
SHOWN WITH SLIDE EXTENDED


PROGRAMMER AND MONITOR
S BANK
STAGING REG
BRANCH BITS
A
B
C
Q
L
X
Y
S,SQ
LP
REGISTER DISPLAY
TAPE
VERIFY
FAIL
RESET
LOW
FREE RUN
STEP
READER
ON
OFF
PUNCH
ON
OFF
MODE CONTROL
MONITOR
TAPE LOAD
TAPE VERIFY
KEYBOARD LOAD
READ AGC
TRANSFER CONTROL
RECORD
TAPE PREPARE
TAPE DUPLICATE
TAPE UP-LINK
MANUAL UP-LINK
FRESH START
PROCEED
TEST MODE
SYSTEM
SUB SYSTEM
0
1
2
3
4
5
6
7
STOP CODE
SP
BACK SP
ER CODE
CL
EXECUTE
UPLINK
I
O


2-9
2-10
2-7
2-8
CENTRALLY LOCATE FIND NO.'S 4 & 5 IN FIND NO. 2
A
A
1
2
6-3

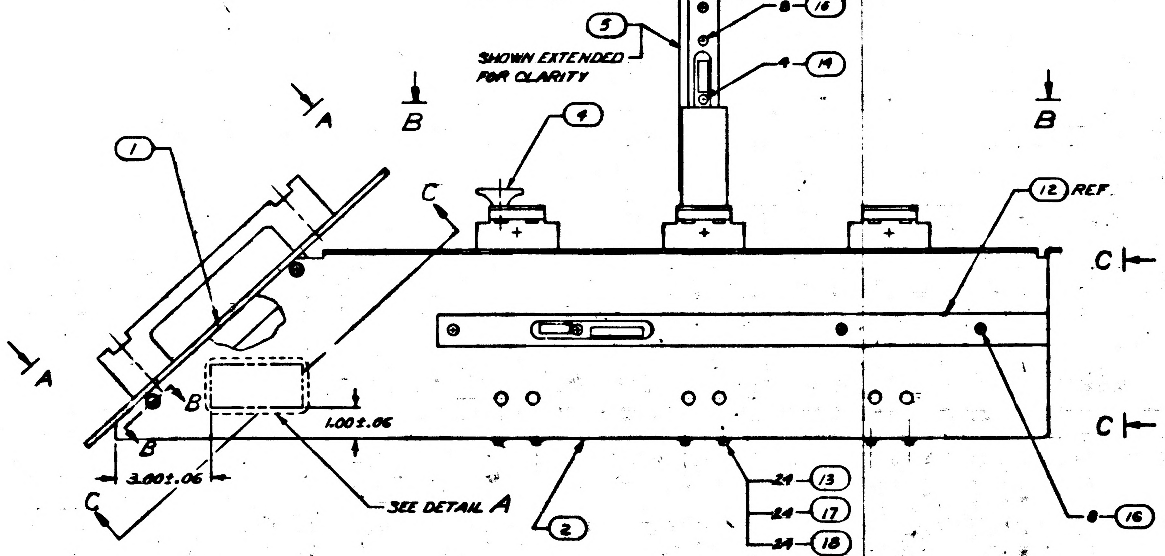
PARTIAL VIEW B-B
ROTATED 90° CLOCKWISE

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO 03585 DATE 3 Oct 63



SECTION C-C
FIND NO.2 NOT SHOWN

VIEW A-A
SCALE 1/1


5
8-16
4-14
SHOWN EXTENDED FOR CLARITY
A
B
B
4
1
C
12 REF.
C
C
A
B
B
1.00±.06
3.00±.06
C
SEE DETAIL A
2
24-13
24-17
24-18
8-16

SEE NOTE 4

NASA
UNIT PROGRAMMER AND MONITOR
DWG NO. 1014309
SER NO. RAY
MFG BY RAYTHEON
UNDER CONTRACT NO. NAS 9-498

.12±.03
TYP

DETAIL A

NOTES:
1. ASSEMBLE FIND NO. 15 TO FIND NO.7,8,9 & 10 USING FIND NO.20
2. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
3. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032
4. MARK .12 HIGH BLACK PER ND1002019

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
—	1014440	SCHEMATIC	REF
—	1020064	INTERCONN. DIAGRAM	REF
~~4~~	~~MS35649-24~~	~~NUT~~	~~26~~
6	MS35216-26	SCREW, PAN HD	25
4	MS15795-308	WASHER FLAT	24
4	MS21044-C3	NUT SELF LOCKING	23
~~4~~	~~MS15795-305~~	~~WASHER, FLAT~~	~~22~~
~~4~~	~~MS35337-79~~	~~WASHER, LOCK~~	~~21~~
A/R	MIL-S-40083 CL 31	SEALING COMPOUND	20
4	MS21044-C08	NUT, SELF-LOCKING	19
38	MS15795-308	WASHER, FLAT	18
24	MS35337-80	WASHER, LOCK	17
16	MS35200-42	SCREW, FLAT HD	16
12	MS35200-40	SCREW, FLAT HD	15
8	MS35216-43	SCREW, PAN HD	14
24	MS35216-42	SCREW, PAN HD	13
1	1006930-5	SLIDE, R H	12
1	1006930-6	SLIDE, L H	11
2	1006988-4	SLIDE, R H	10
2	1006988-2	SLIDE, R H	9
2	1006988-3	SLIDE, L H	8
2	1006988-1	SLIDE, L H	7
2	1020063	BRACKET, ANGLE	6
1	1014307	LOGIC PLATE ASSY NO. 2	5
1	1014306	LOGIC PLATE ASSY NO. 1	4
6	1014255-2	BRACKET ASSY	3
1	1014296	CHASSIS	2
1	1014143	PANEL ASSY	1

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R.C. Taylor DATE
CHECKED 29 Jul 63
APPROVAL C. Sandy
APPROVAL 1/20/63
APPROVAL
NASA APPROVAL 2-63
MIT APPROVAL 30 Oct 63
MIT APPROVAL Oct 3 '63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

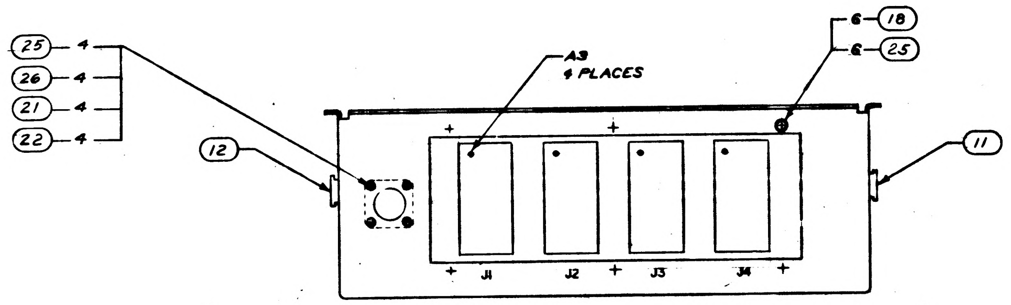
DRAWER ASSEMBLY
PROGRAMMER AND MONITOR

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014309
SCALE 1/2
WT
SHEET 1 OF 1

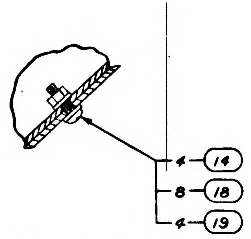
NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO

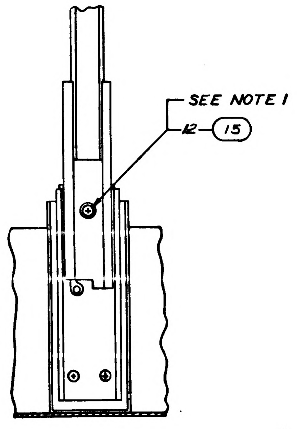
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO [illegible]		


25 — 4
26 — 4
21 — 4
22 — 4
12
A3
4 PLACES
6 — 18
6 — 25
11
J1
J2
J3
J4

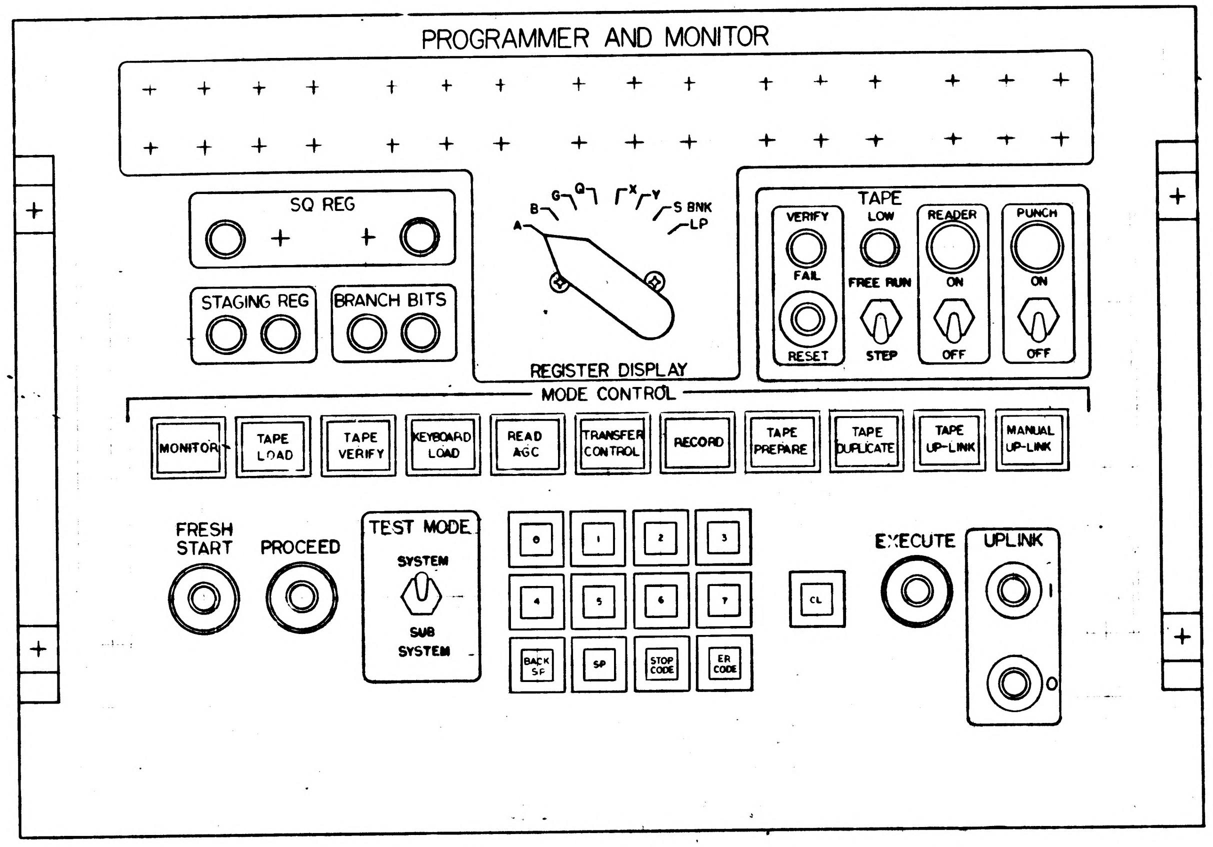
VIEW C-C

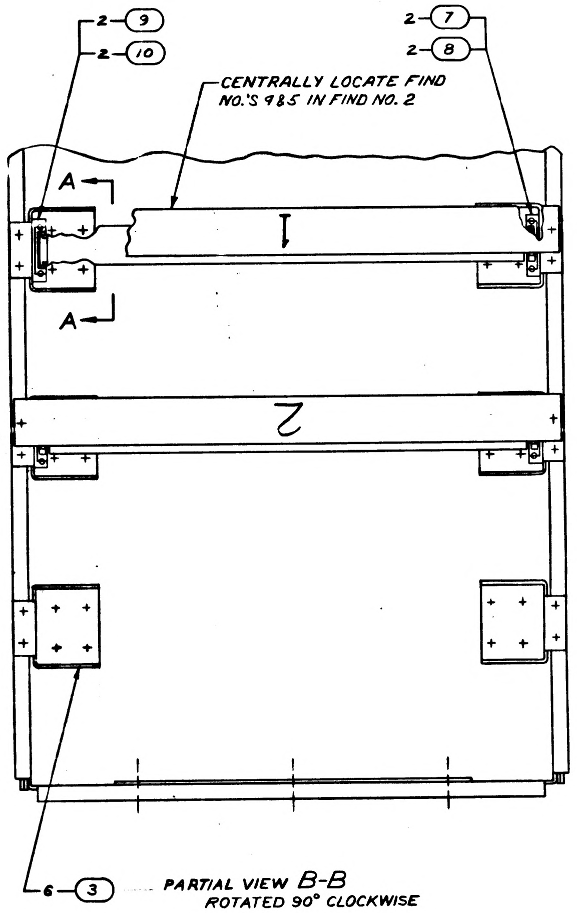


SECTION B-B
SCALE 1/1
4 PLACES

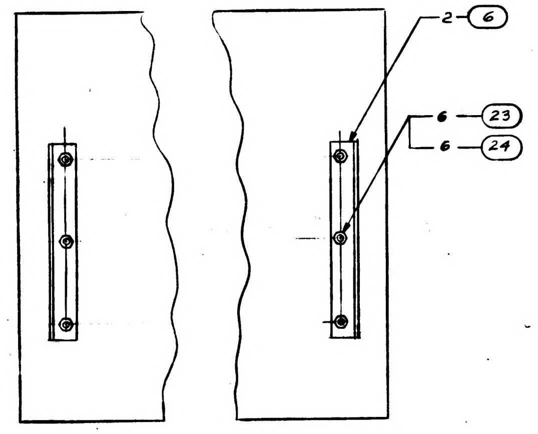

SEE NOTE 1
12 — 15

SECTION A-A
ROTATED 90° CW
SHOWN WITH SLIDE EXTENDED


PROGRAMMER AND MONITOR
SQ REG
STAGING REG
BRANCH BITS
B G Q X Y S BNK LP
A
REGISTER DISPLAY
TAPE
VERIFY
FAIL
RESET
LOW
FREE RUN
STEP
READER
ON
OFF
PUNCH
ON
OFF
MODE CONTROL
MONITOR
TAPE LOAD
TAPE VERIFY
KEYBOARD LOAD
READ AGC
TRANSFER CONTROL
RECORD
TAPE PREPARE
TAPE DUPLICATE
TAPE UP-LINK
MANUAL UP-LINK
FRESH START
PROCEED
TEST MODE
SYSTEM
SUB SYSTEM
0
1
2
3
4
5
6
7
BACK SF
SP
STOP CODE
ER CODE
CL
EXECUTE
UPLINK
I
O

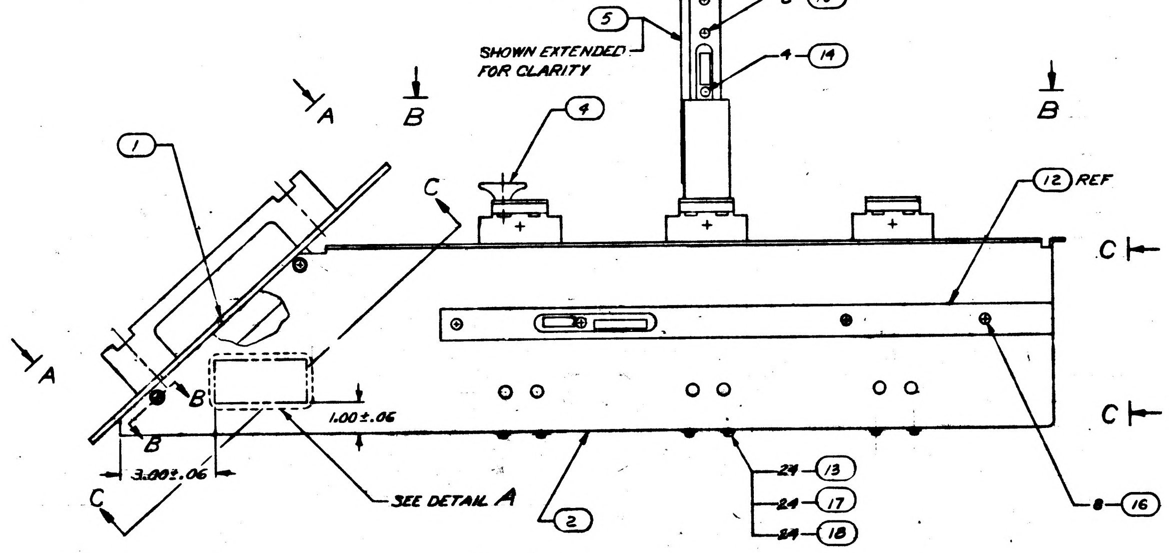

2 — 9
2 — 10
2 — 7
2 — 8
CENTRALLY LOCATE FIND NO.'S 4&5 IN FIND NO. 2
A
A
1
2
6 — 3

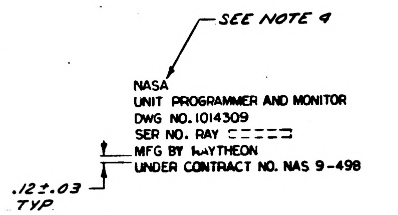
PARTIAL VIEW B-B
ROTATED 90° CLOCKWISE



SECTION C-C
FIND NO.2 NOT SHOWN

VIEW A-A
SCALE 1/1


5
SHOWN EXTENDED FOR CLARITY
8 — 16
4 — 14
4
1
A
B
B
C
12 REF
C
C
A
B
1.00 ±.06
3.00 ±.06
C
SEE DETAIL A
2
24 — 13
24 — 17
24 — 18
8 — 16


SEE NOTE 4
NASA
UNIT PROGRAMMER AND MONITOR
DWG NO. 1014309
SER NO. RAY
MFG BY RAYTHEON
UNDER CONTRACT NO. NAS 9-498
.12±.03 TYP

DETAIL A

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO 03585 DATE 3 Oct 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
—	1014440	SCHEMATIC	REF
—	1020064	INTERCONN. DIAGRAM	REF
4	MS35649-64	NUT	26
10	MS35216-26	SCREW, PAN HD	25
6	MS15795-308	WASHER FLAT	24
6	MS21044-C3	NUT SELF LOCKING	23
4	MS15795-305	WASHER, FLAT	22
4	MS35337-79	WASHER, LOCK	21
A/R	MIL-S-40083 CL 31	SEALING COMPOUND	20
4	MS21044-C08	NUT, SELF-LOCKING	19
38	MS15795-307	WASHER, FLAT	18
24	MS35337-80	WASHER, LOCK	17
16	MS35200-44	SCREW, FLAT HD	16
12	MS35200-40	SCREW, FLAT HD	15
8	MS35216-43	SCREW, PAN HD	14
24	MS35216-42	SCREW, PAN HD	13
1	1006930-5	SLIDE, R H	12
1	1006930-6	SLIDE, L H	11
2	1006988-4	SLIDE, R H	10
2	1006988-2	SLIDE, R H	9
2	1006988-3	SLIDE, L H	8
2	1006988-1	SLIDE, L H	7
2	1020063	BRACKET, ANGLE	6
1	1014307	LOGIC PLATE ASSY NO. 2	5
1	1014306	LOGIC PLATE ASSY NO. 1	4
6	1014255	BRACKET ASSY	3
1	1014296	CHASSIS	2
1	1014143	PANEL ASSY	1

LIST OF MATERIALS

NOTES:
1. ASSEMBLE FIND NO. 15 TO FIND NO. 7, 8, 9 & 10 USING FIND NO. 20
2. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
3. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032
4. MARK .12 HIGH BLACK PER ND1002019

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R.C. Taylor DATE 21 MAY 63
CHECKED [illegible] 29 July 63
APPROVAL C. Sanh [illegible]
APPROVAL [illegible] 9/20/63
APPROVAL [illegible]
NASA APPROVAL [illegible] 10-2-63
MIT APPROVAL [illegible] 3 Oct 63
MIT APPROVAL [illegible] 3 Oct 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWER ASSEMBLY
PROGRAMMER AND MONITOR

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014309
SCALE 1/2
WT
SHEET 1 OF 1

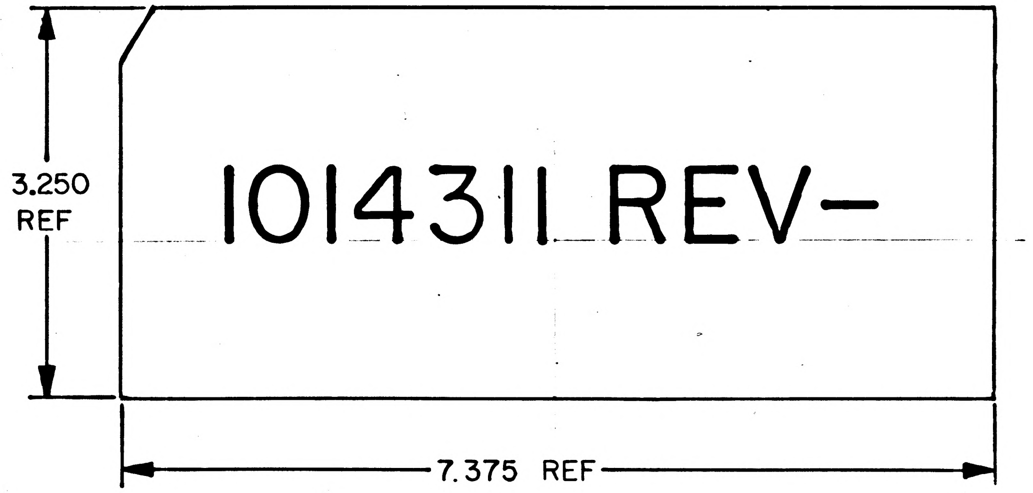
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	

DECK M
NO OF CARDS 607



REFERENCE DRAWINGS
SCHEMATICS 1014271
1014261
1014357

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 05245 DATE 12/17/63

NOTE:
NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

MASTER

RAYTHEON CO. LEXINGTON, MASS. CONTRACT NO. NAS-9-498	**MANNED SPACECRAFT CENTER** HOUSTON, TEXAS	
DRAWN DATE 1OCT63 CHECKED 7OCT63 APPROVAL C Sperling JPK APPROVAL JS 12/6/63	WIRE WRAP MACHINE CARDS COMPUTER TEST SET LOGIC DRAWER NO.2 LOGIC PLATE ASSY NO.2	
NASA APPROVAL 12/17/63	CODE IDENT NO. — SIZE B	NASA DRAWING NO. 1014311
MIT APPROVAL 12/17/63 MIT APPROVAL 12/17/63	SCALE NONE WT	SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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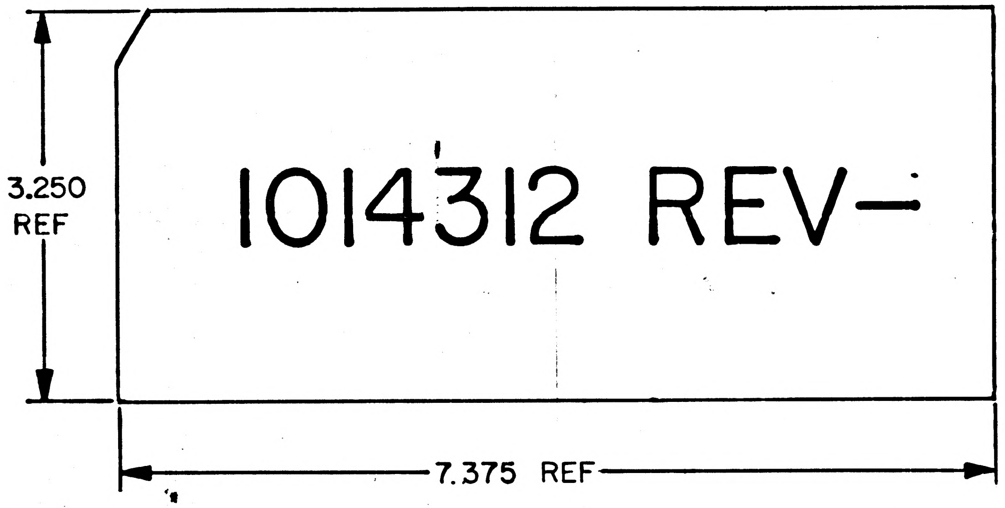
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	

DECK P
NO OF CARDS 333



REFERENCE DRAWINGS
SCHEMATICS 1014271
1014260
1014268

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 05245 DATE 12/17/63

NOTE:
NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

MASTER

RAYTHEON CO. LEXINGTON, MASS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
CONTRACT NO. NAS-9-498	
DRAWN DATE 1OCT63 CHECKED 7OCT63 APPROVAL APPROVAL 12/6/63	WIRE WRAP MACHINE CARDS COMPUTER TEST SET LOGIC DRAWER NO. 2 LOGIC PLATE ASSY NO. 4
NASA APPROVAL 12/17/63 MIT APPROVAL 12/17/63 MIT APPROVAL 12/17/63	CODE IDENT NO. — SIZE B NASA DRAWING NO. 1014312
	SCALE NONE WT SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

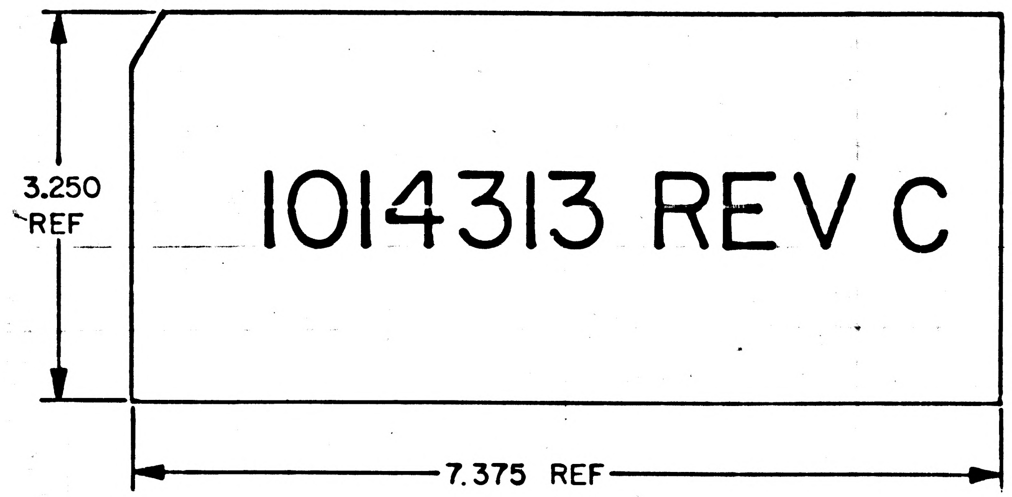
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	
A	CLASS II CHANGE PER RD-R5751 DR R. Wheeler CHK W. J. Gifford APPD	27 JAN 64	JJ
B	CLASS II CHANGE PER RD-R5807 DR S.T. Quilici CHK A Coggins APPD	4/21/64	
C	CHANGED PER TDRR 08135 DR H. Kelley CHK J.C. Jordan APPD	14 MAY 64	KEB

DECK R

NO OF CARDS 236



REFERENCE DRAWINGS

SCHEMATICS 1014271
1014362
1014356

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO 05245 DATE 12/17/63

NOTE:

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

RAYTHEON CO. LEXINGTON, MASS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
CONTRACT NO. NAS-9-498	
DRAWN S.T. Quilici DATE 1 OCT 63 CHECKED J. Flagg 7 OCT 63 APPROVAL C. Sperling APPROVAL J.J. Rundstine 12/6/63	WIRE WRAP MACHINE CARDS COMPUTER TEST SET LOGIC DRAWER NO.2 LOGIC PLATE ASSY NO. 5
NASA APPROVAL MIT APPROVAL 12/17/63 MIT APPROVAL 12/17/63	CODE IDENT NO. — SIZE B NASA DRAWING NO. 1014313 SCALE NONE WT SHEET 1 OF 1

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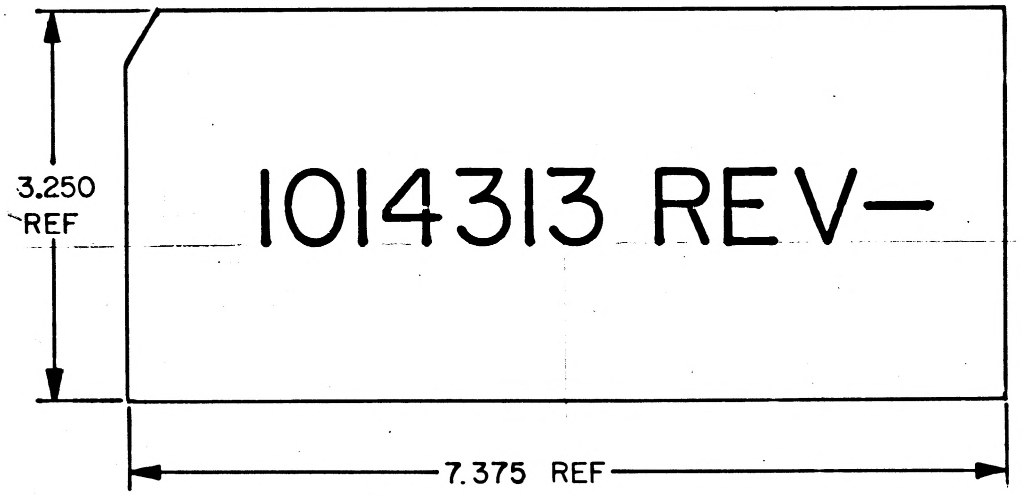
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	

DECK R

NO OF CARDS 234



REFERENCE DRAWINGS

SCHEMATICS 1014271
1014362
1014356

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO 05245 DATE 12/17/63

NOTE:

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

MASTER

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

DRAWN S. T. [illegible] DATE 1 OCT 63
CHECKED J. [illegible] 7 OCT 63
APPROVAL C. Sperling JOK
APPROVAL [illegible] JJS
J. J. Poundstone KHB 12/16/63
NASA APPROVAL [illegible] 12/17/63
MIT APPROVAL [illegible] 12/17/63
MIT APPROVAL Dennis [illegible] 12/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE WRAP MACHINE CARDS
COMPUTER TEST SET
LOGIC DRAWER NO. 2
LOGIC PLATE ASSY NO. 5

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	B	1014313

SCALE NONE WT SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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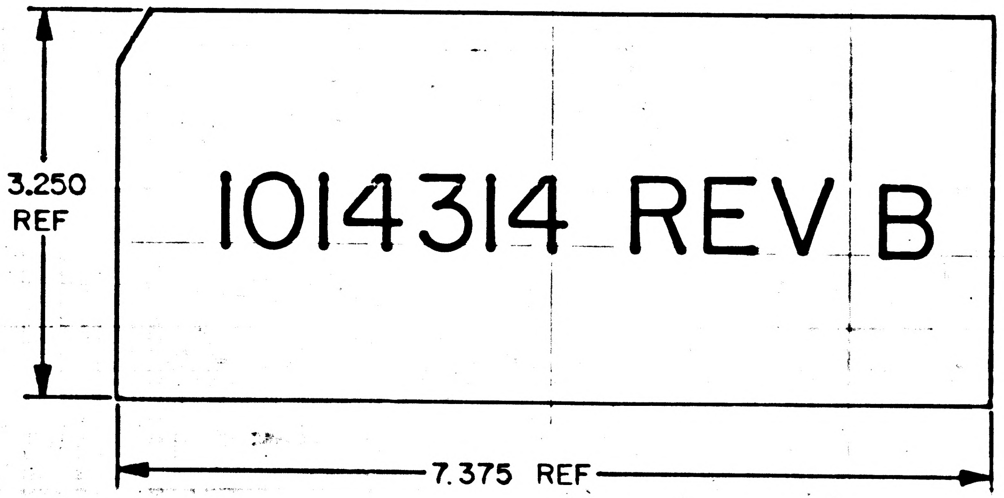
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	
A	CLASS II CHANGE PER RD-R5751 DR CHK APPD	27 JAN 64	
B	CHANGED PER TDRR 08135 DR CHK APPD	14 MAY 64	

DECK N

NO OF CARDS 560



REFERENCE DRAWINGS

SCHEMATICS 1014271
1014265
1014263
1014344

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO 05245 DATE 12/17/63

NOTE:

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

RAYTHEON CO. LEXINGTON, MASS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
CONTRACT NO. NAS-9-498			
DRAWN DATE 1 OCT 63 CHECKED 7 OCT 63 APPROVAL JPK APPROVAL JJB 12/6/63	WIRE WRAP MACHINE CARDS COMPUTER TEST SET LOGIC DRAWER NO.2 LOGIC PLATE ASSY NO.3		
NASA APPROVAL 12/17/63 MIT APPROVAL 12/17/63 MIT APPROVAL 12/17/63	CODE IDENT NO. —	SIZE B	NASA DRAWING NO. 1014314
	SCALE NONE	WT	SHEET 1 OF 1

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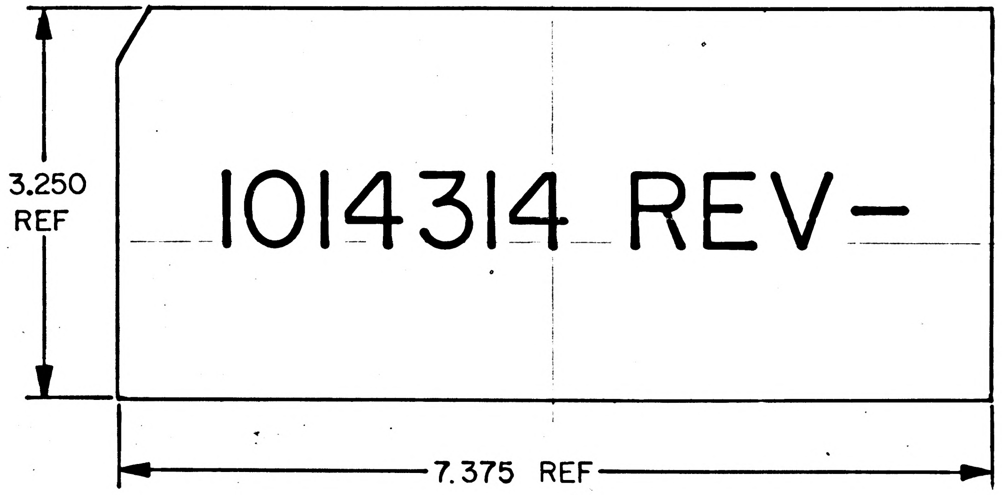
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	

DECK N

NO OF CARDS 553



REFERENCE DRAWINGS

SCHEMATICS 1014271
1014265
1014263
1014344

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO 05245 DATE 12/17/63

NOTE:

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

MASTER

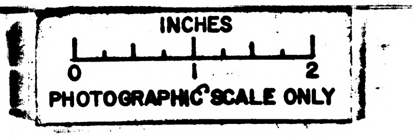
RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

DRAWN S. T. DATE 1 OCT 63
CHECKED 7 OCT 63
APPROVAL JPK
APPROVAL JJB
12/6/63
NASA APPROVAL 12/17/63
MIT APPROVAL 12/17/63
MIT APPROVAL 12/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE WRAP MACHINE CARDS
COMPUTER TEST SET
LOGIC DRAWER NO. 2
LOGIC PLATE ASSY NO. 3

CODE IDENT NO. -
SIZE B
NASA DRAWING NO. 1014314
SCALE NONE
WT
SHEET 1 OF 1



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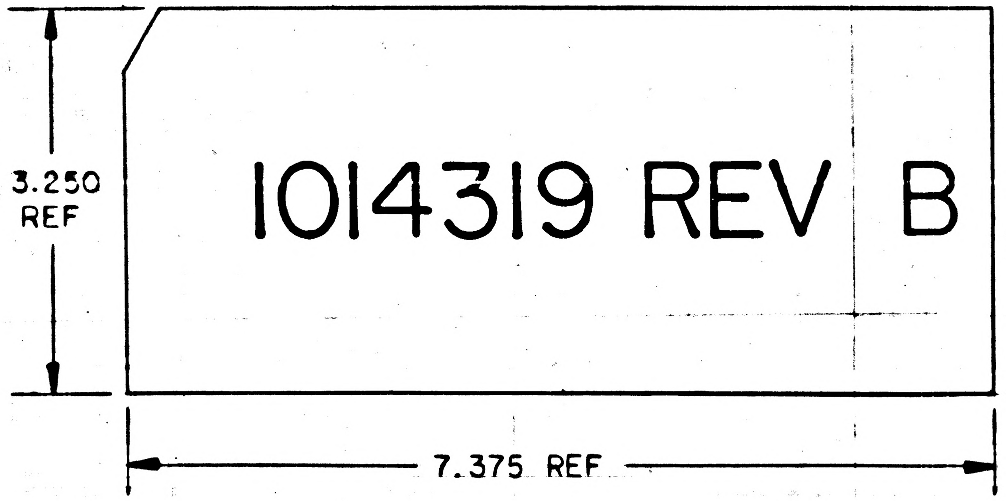
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 05245	12-17-63	
A	CLASS II CHANGE PER RD-R5750 DR S.T. CHK APPD	27 JAN 64	
B	CLASS II CHANGE PER RD-R5964 DR R. Wheeler CHK APPD	23 APR 64	KGS
C	CHANGED PER TDRR NO. 09749 DR J.P. Leonard CHK APPD	9 JUNE 64	RSA

DECK K

NO. OF CARDS 619



REFERENCE DRAWINGS

SCHEMATICS

FOR INFORMATION ONLY

CLASS B RELEASE

TDRR NO. 05245 DATE 12-17-63

NOTE

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

MAS

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

DRAWN DATE 4 OCT 63
CHECKED 7 Oct 63
APPROVAL DK
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 12/17/63
MIT APPROVAL 12/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE WRAP MACHINE CARDS
COMPUTER TEST SET
LOGIC DRAWER NO.1
INTERCONNECTION PLATE ASSY NO.6

CODE IDENT NO. —
SIZE B
NASA DRAWING NO. 1014319
SCALE NONE
WT
SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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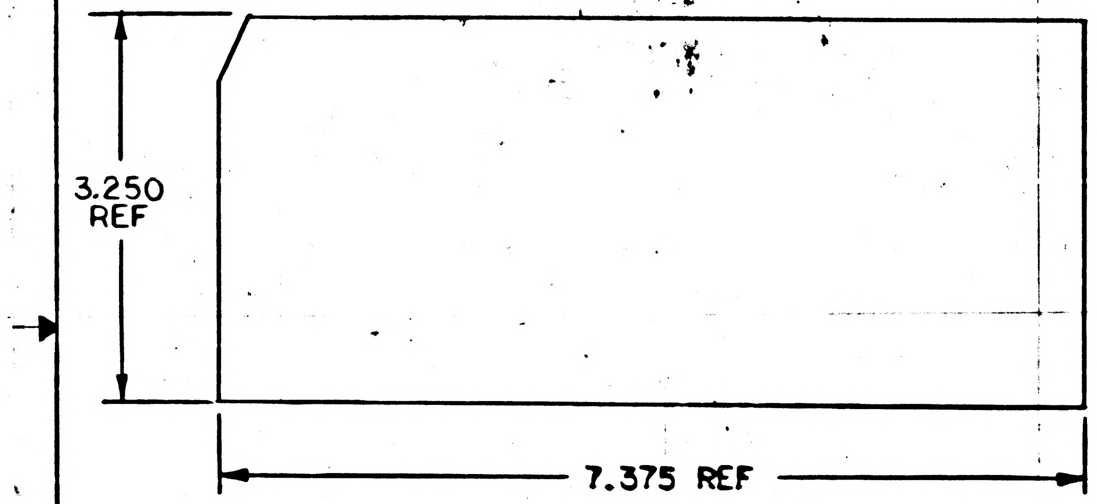
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 05245	12-17-63	
A	CLASS II CHANGE PER RD-R5750 DR S.T. CHK APPD	27 JAN 64	
B	CLASS II CHANGE PER RD-R5964 DR R. Wheeler CHK APPD	23 APR 64	
C	CHANGED PER TDRR NO. 09749 DR J.P. Leonard CHK APPD	9 JUNE 64	
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 20595 DR P. Milord CHK D. Lapula APPD	29 AUG 65	

NO. OF CARDS 687



REFERENCE DRAWINGS

SCHEMATICS

NOTE:

USE CARD FORM IBM U11897
OR EQUIVALENT

RAYTHEON CO. LEXINGTON, MASS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
CONTRACT NO. NAS-9-498	
DRAWN S.T. DATE 4 OCT 63 CHECKED 7 Oct 63 APPROVAL DK APPROVAL APPROVAL	WIRE WRAP MACHINE CARDS COMPUTER TEST SET LOGIC DRAWER NO. 1 INTERCONNECTION PLATE ASSY NO. 6
NASA APPROVAL 12/17/63 MIT APPROVAL 12/17/63 MIT APPROVAL 12/17/63	CODE IDENT NO. 49956 · SIZE B · NASA DRAWING NO. 1014319 SCALE NONE · WT · SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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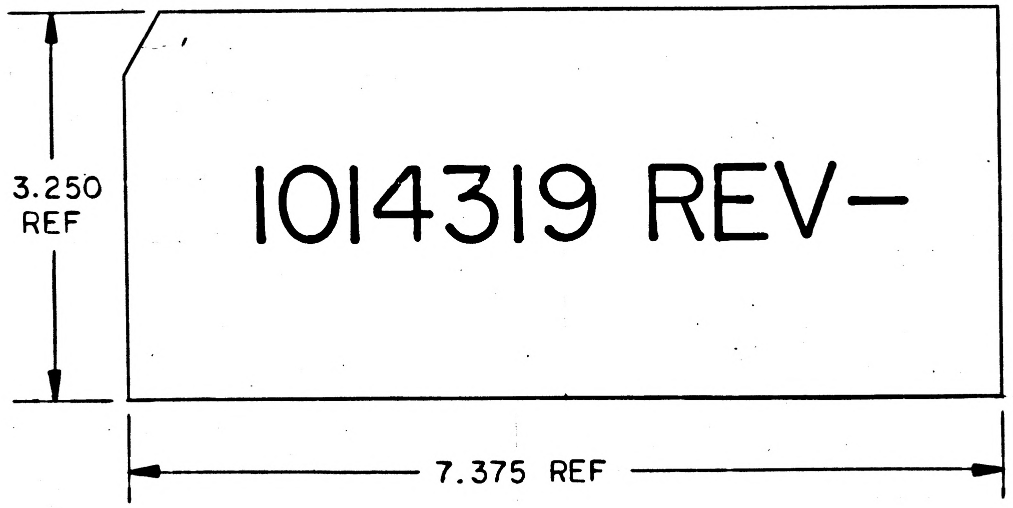
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 05245	12-17-63	DK

DECK K

NO OF CARDS 621



REFERENCE DRAWINGS

SCHEMATICS

FOR INFORMATION ONLY

CLASS B RELEASE

TDRR NO 05245 DATE 12-17-63

NOTE

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

MASTER

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

DRAWN DATE 4 OCT 63
CHECKED 7 Oct 63
APPROVAL DK
APPROVAL
APPROVAL 12/16/63
NASA APPROVAL 12/17/63
MIT APPROVAL 12/17/63
MIT APPROVAL 12/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE WRAP MACHINE CARDS
COMPUTER TEST SET
LOGIC DRAWER NO. 1
INTERCONNECTION PLATE ASSY NO. 6

CODE IDENT NO. —
SIZE B
NASA DRAWING NO. 1014319
SCALE NONE
WT
SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

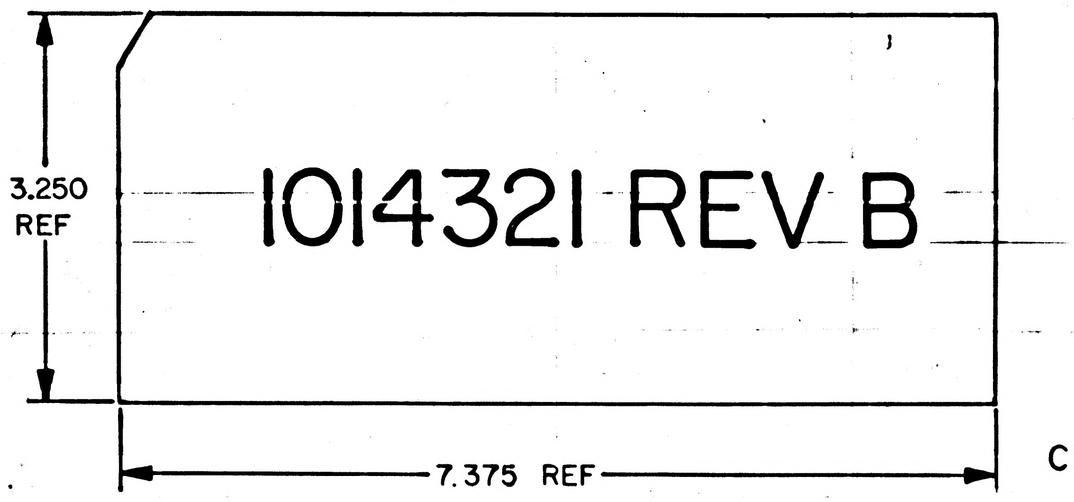
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	
A	CLASS II CHANGE PER RD-R5751 DR R. Wheeler CHK W. J. [illegible] APPD	27 JAN 64	JJS
B	CHANGED PER TDRR 08135 DR H. Kelley CHK J. C. [illegible] APPD	14 MAY 64	AEB

DECK S

NO OF CARDS 500



REFERENCE DRAWINGS

SCHEMATICS 1020066

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO 05245 DATE 12/17/63

NOTE:

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

DRAWN DATE 1 OCT 63
CHECKED 7 OCT 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 12/17/63
MIT APPROVAL 12-17-63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE WRAP MACHINE CARDS
COMPUTER TEST SET
LOGIC DRAWER NO.2
INTERCONNECTION PLATE ASSY NO.6

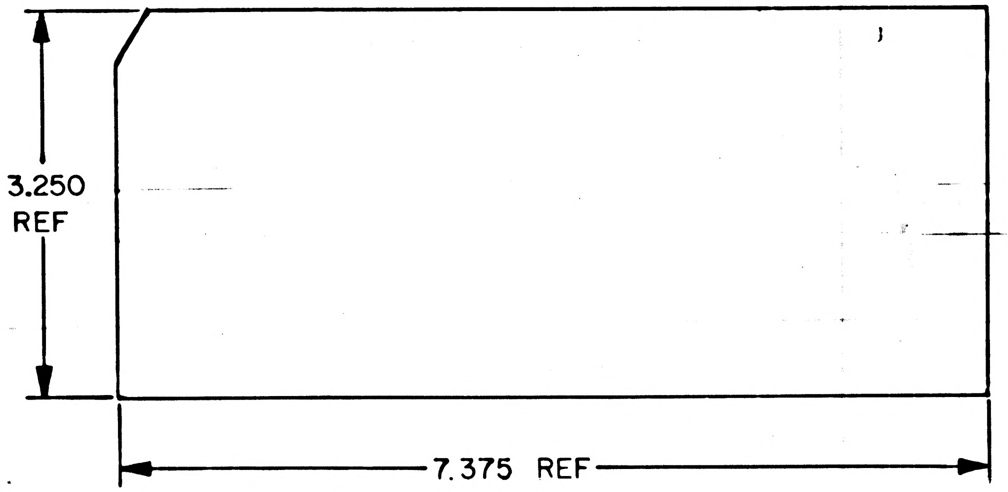
CODE IDENT NO. -
SIZE B
NASA DRAWING NO. 1014321
SCALE NONE
WT
SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	
A	CLASS II CHANGE PER RD-R5751 DR R. Wheeler CHK W. J. APPD	27 JAN 64	JJB
B	CHANGED PER TDRR 08135 DR H. Kelley CHK J.C. APPD	14 MAY 64	KEB
C	CHANGED PER TDRR 14488 DR CHK JCJ APPD	22 DEC 64	KEB

DECK S

NO OF CARDS 500



REFERENCE DRAWINGS

SCHEMATICS 1020066

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO 05245 DATE 12/17/63

NOTE:

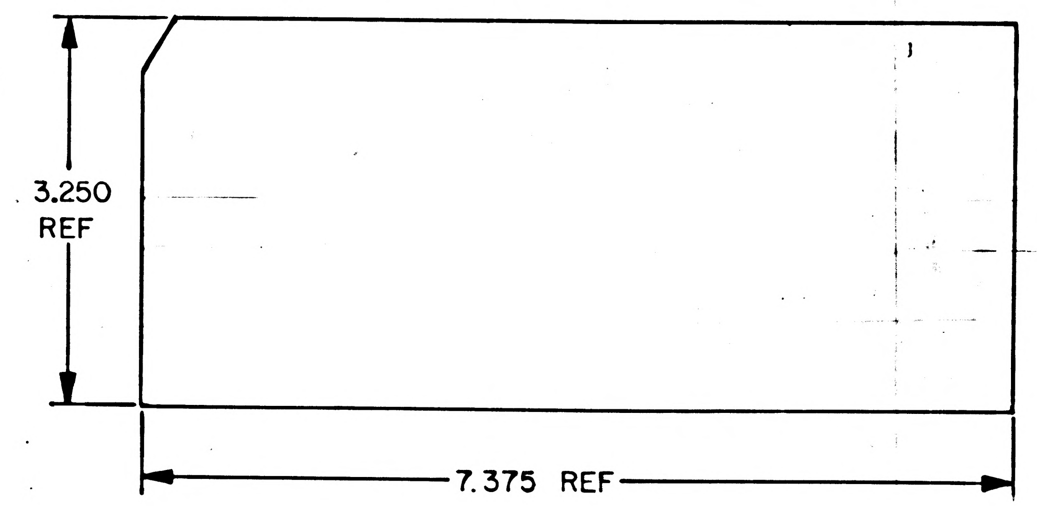
USE CARD FORM IBM U11897
OR EQUIVALENT

RAYTHEON CO. LEXINGTON, MASS. CONTRACT NO. NAS-9-498	MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DRAWN DATE 1 OCT 63 CHECKED 7 OCT 63 APPROVAL JPK APPROVAL JJB 4/6/63	WIRE WRAP MACHINE CARDS COMPUTER TEST SET LOGIC DRAWER NO.2 INTERCONNECTION PLATE ASSY NO.6		
NASA APPROVAL 12/17/63 MIT APPROVAL 12/17/63 MIT APPROVAL D. Scolamiero 12-17-63	CODE IDENT NO. - SCALE NONE	SIZE B WT	NASA DRAWING NO. 1014321 SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	
A	CLASS II CHANGE PER RD-R5751 DR R Wheeler CHK APPD	27 JAN 64	
B	CHANGED PER TDRR 08135 DR H. Kelley CHK APPD	14 MAY 64	
C	CHANGED PER TDRR 14488 DR CHK JCJ APPD	22 DEC 64	
D	UPGRADE TO CL A WITH CHANGE PER TDRR 20595 DR P. Milard CHK APPD	29 Aug 65	

NO. OF CARDS 568



NOTE:

USE CARD FORM IBM U11897 OR EQUIVALENT

REFERENCE DRAWINGS

SCHEMATICS 1020066

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

DRAWN DATE 1 OCT 63
CHECKED 7 OCT 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 12/17/63
MIT APPROVAL 12-17-63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE WRAP MACHINE CARDS
COMPUTER TEST SET
LOGIC DRAWER NO. 2
INTERCONNECTION PLATE ASSY NO. 6

CODE IDENT NO. 49956
SIZE B
NASA DRAWING NO. 1014321
SCALE NONE
WT
SHEET 1 OF 1

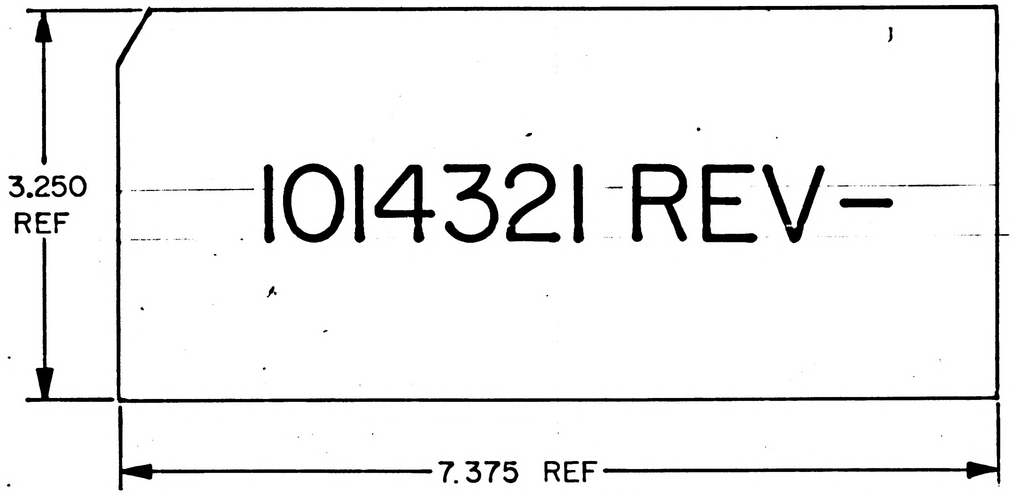
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	

DECK S

NO OF CARDS 500



REFERENCE DRAWINGS

SCHEMATICS 1020066

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO 05245 DATE 12/17/63

NOTE:

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

MASTER

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

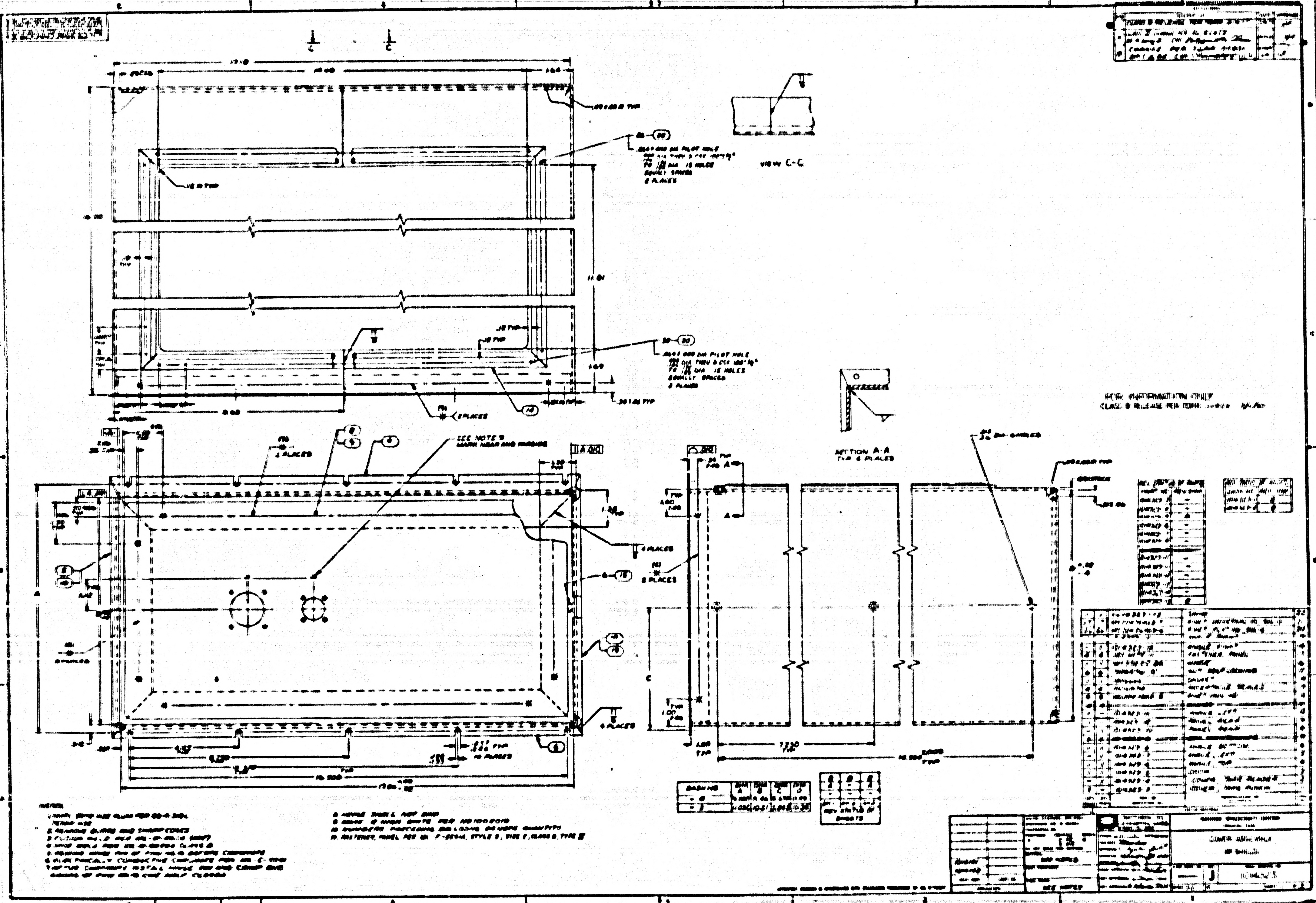
DRAWN DATE 1OCT63
CHECKED 7OCT 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 12/17/63
MIT APPROVAL 12-17-63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE WRAP MACHINE CARDS
COMPUTER TEST SET
LOGIC DRAWER NO.2
INTERCONNECTION PLATE ASSY NO.6

CODE IDENT NO. -
SIZE B
NASA DRAWING NO. 1014321
SCALE NONE
WT
SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY


VIEW C-C
SECTION A-A
TYP 4 PLACES
SEE NOTE 9
4 PLACES
2 PLACES
10 PLACES
16.500
7.250
11.81
A
B
C
C

FOR INFORMATION ONLY

CLASS B RELEASE PER [illegible]

NOTES:

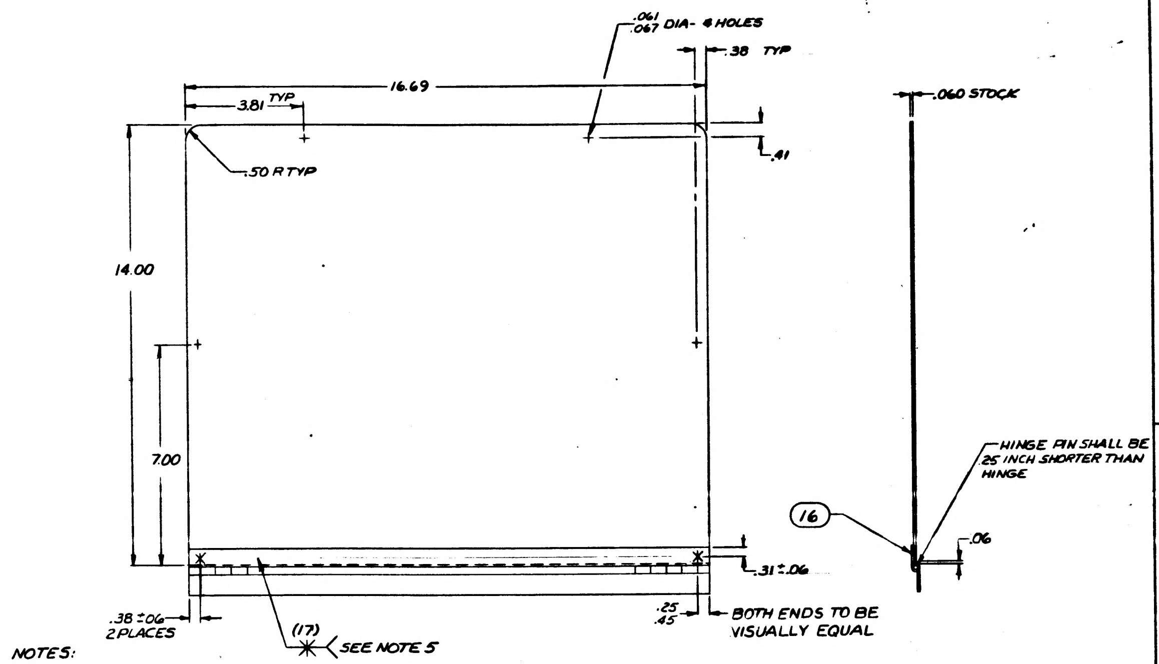
[illegible]

11. FASTENER, PANEL PER MIL-F-[illegible], STYLE 2, SIZE 2, CLASS 2, TYPE II

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

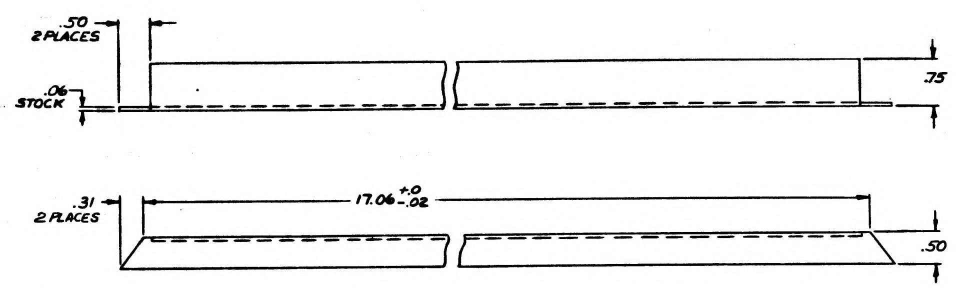
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASE PER TDRR 01857	-2-	
B	CHANGE PER TDRR 05801 DR C. LaPorte CHK S. Rogers APPD	10 FEB 64	


.061
.067 DIA - 4 HOLES
.38 TYP
16.69
3.81 TYP
.41
.50 R TYP
14.00
7.00
.060 STOCK
HINGE PIN SHALL BE .25 INCH SHORTER THAN HINGE
16
.06
.31 ±.06
.38 ±.06
2 PLACES
(17)
SEE NOTE 5
.25
.45
BOTH ENDS TO BE VISUALLY EQUAL

NOTES:

1. MATL: 5052-H32 ALUM PER QQ-A-318c TEMPER H32
2. REMOVE BURRS AND SHARP EDGES.
3. WELD PER MIL-W-6858A
4. REMOVE HINGE PIN BEFORE CHROMATE TREATING
5. CHROMATE TREAT PER MIL-C-5541 EXCEPT TO BE ELECTRICALLY CONDUCTIVE
6. CRIMP END LOOPS OF FIND NO.16 ONE HALF CLOSED
7. HINGE SHALL NOT BIND

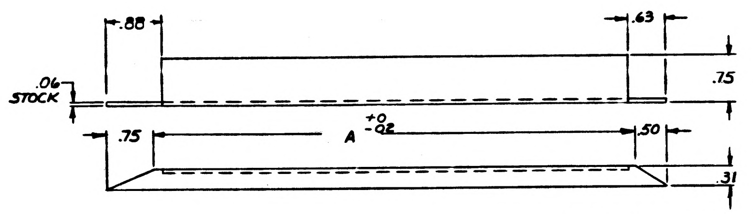
DOOR
1014323-5
SCALE 1/2


.50
2 PLACES
.06
STOCK
.75
.31
2 PLACES
17.06 +0 -.02
.50

NOTES

1. MATL: 6063-T5 ALUM PER QQ-A-274 TEMPER T5
2. REMOVE BURRS AND SHARP EDGES.

ANGLE, BOTTOM
1014323-8

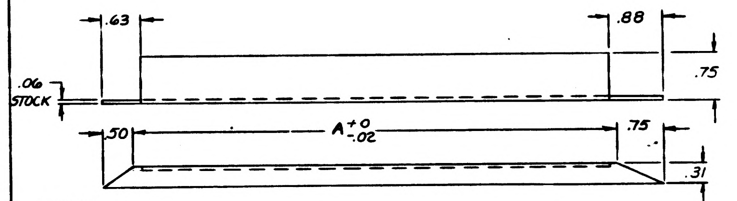

.88
.63
.75
.06
STOCK
.75
A +0 -.02
.50
.31

NOTES:

1. MATL: 6063-T5 ALUM PER QQ-A-274 TEMPER T5
2. REMOVE BURRS AND SHARP EDGES.

DASH NO	DIM A
-7	8.46
-11	10.21

ANGLE, LEFT


.63
.88
.75
.06
STOCK
.50
A +0 -.02
.75
.31

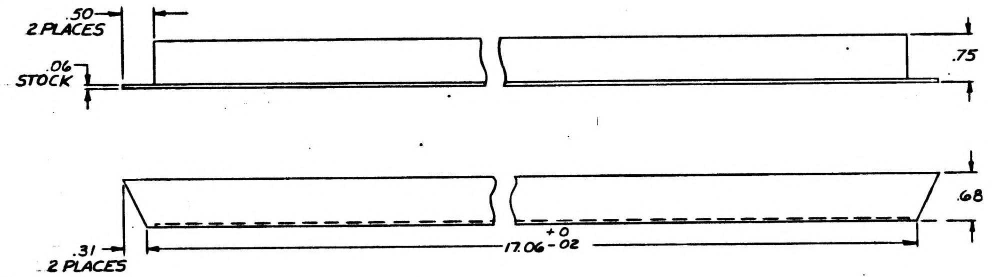
NOTES:

1. MATL: 6063-T5 ALUM PER QQ-A-274 TEMPER T5
2. REMOVE BURRS AND SHARP EDGES

DASH NO.	DIM A
-13	8.46
-14	10.21

ANGLE, RIGHT

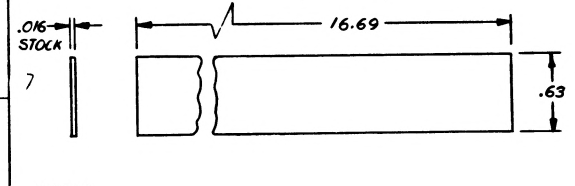
FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR 01857 7/2/63


.50
2 PLACES
.06
STOCK
.75
.68
.31
2 PLACES
17.06 +0 -.02

NOTES:

1. MATL: 6063-T5 ALUM PER QQ-A-274 TEMPER T5
2. REMOVE BURRS AND SHARP EDGES.

ANGLE, TOP
1014323-6


.016
STOCK
16.69
.63

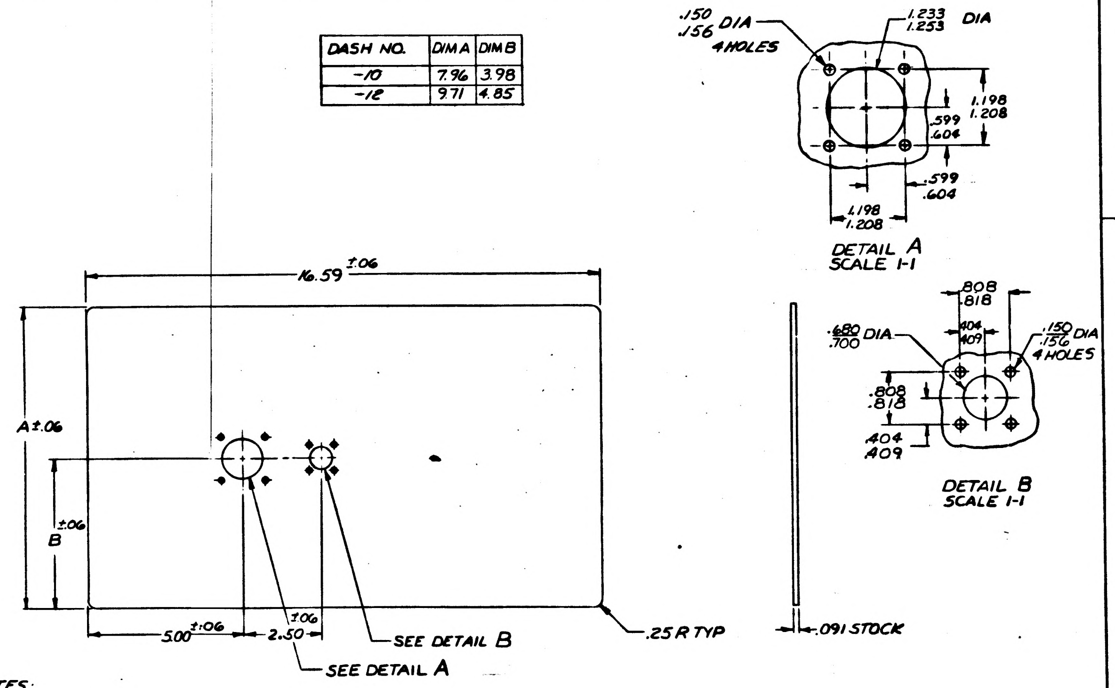
7

NOTES

1. MATL: 5052-H32 ALUMINUM PER QQ-A-318C TEMPER H32
2. ELECTRICALLY CONDUCTIVE CHROMATE PER MIL-C-5541

SHIM
SCALE 2/1
1014323-15

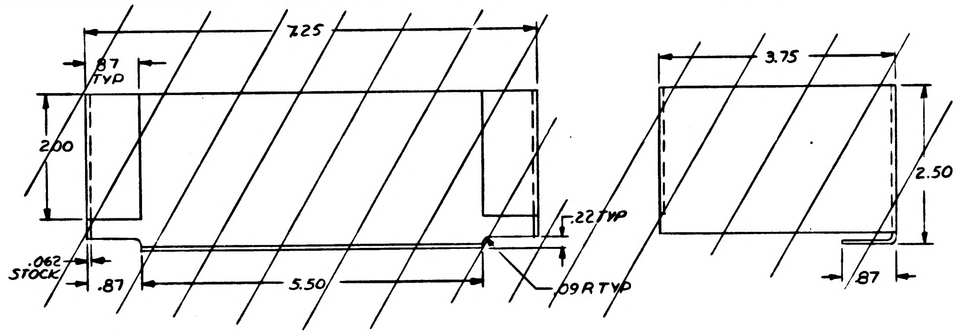
DASH NO.	DIM A	DIM B
-10	7.96	3.98
-12	9.71	4.85


.150
.156 DIA
4 HOLES
1.233
1.253 DIA
1.198
1.208
.599
.604
.599
.604
1.198
1.208
DETAIL A
SCALE 1-1
16.59 ±.06
A ±.06
B ±.06
5.00 ±.06
2.50 ±.06
SEE DETAIL B
SEE DETAIL A
.25 R TYP
.808
.818
.404
.409
.150
.156 DIA
4 HOLES
.680
.700 DIA
.808
.818
.404
.409
DETAIL B
SCALE 1-1
.091 STOCK

NOTES:

1. MATL: 5052-H32 ALUM PER QQ-A-318c TEMPER H32
2. REMOVE BURRS AND SHARP EDGES.

PANEL, REAR
SCALE 1/2


7.25
.87
TYP
2.00
.22 TYP
.062
STOCK
.87
5.50
.09 R TYP
3.75
2.50
.87

~~NOTES:~~

~~1. MATL: 5052-H32 ALUM PER QQ-A-318c TEMPER H32~~
~~2. REMOVE BURRS AND SHARP EDGES~~
~~3. ALL INSIDE BEND RADII .06~~

~~BOX MAINTENANCE~~
~~1014323-9~~

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014141	
1014192	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL: SEE NOTES
HEAT TREATMENT
FINAL FINISH: SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN [illegible] DATE 23 MAY 63
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible] 6/6/63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 7/2/63
MIT APPROVAL [illegible] 7/2/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, ASSEMBLY
(RF SHIELD)

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014323
SCALE 1-1
WT
SHEET 2 OF

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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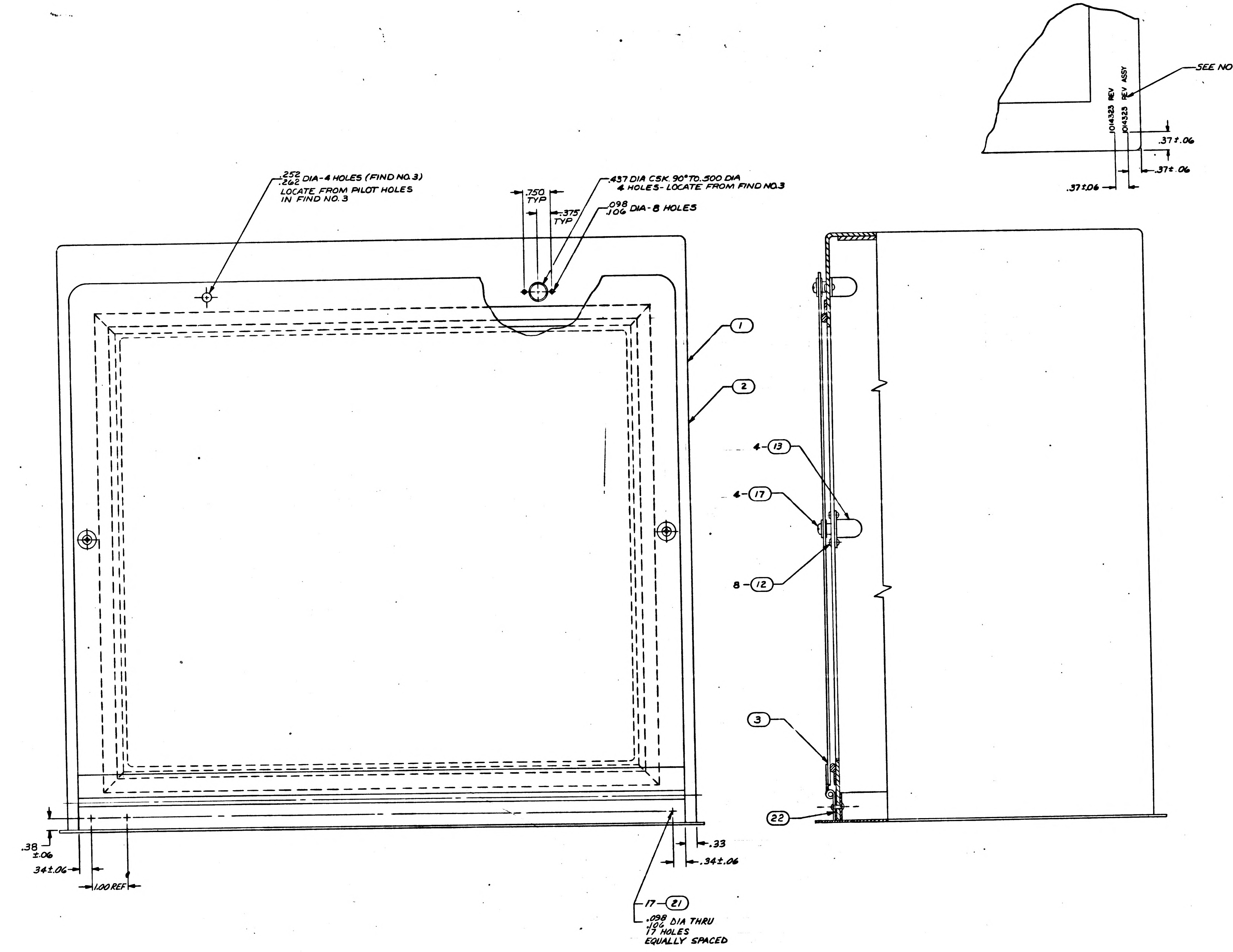
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASE PER TDRR 01857	[illegible]	
A	CLASS II CHANGE PER RD-R5453 DR R. Sargent CHK APPD	10-19-63	
B	CHANGE PER TDR R05801 DR CHK APPD	10 FEB 64	


SEE NOTE 7
1014323 REV
1014323 REV ASSY
.37±.06
.37±.06
.37±.06
.252 / .262 DIA-4 HOLES (FIND NO. 3)
LOCATE FROM PILOT HOLES
IN FIND NO. 3
.750 TYP
.375 TYP
.437 DIA CSK. 90° TO .500 DIA
4 HOLES- LOCATE FROM FIND NO. 3
.098 / .106 DIA-8 HOLES
1
2
4-13
4-17
8-12
3
22
.38 ±.06
.34±.06
1.00 REF
.33
.34±.06
17-21
.098 / .106 DIA THRU
17 HOLES
EQUALLY SPACED

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR 01857 7/2/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014141	
1014142	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 .005 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTES

HEAT TREATMENT

FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

DRAWN DATE 21MAY63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 7/2/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, ASSEMBLY
(RF SHIELD)

CODE IDENT NO	SIZE	NASA DRAWING NO
—	J	1014323

SCALE 1-1 WT SHEET 3 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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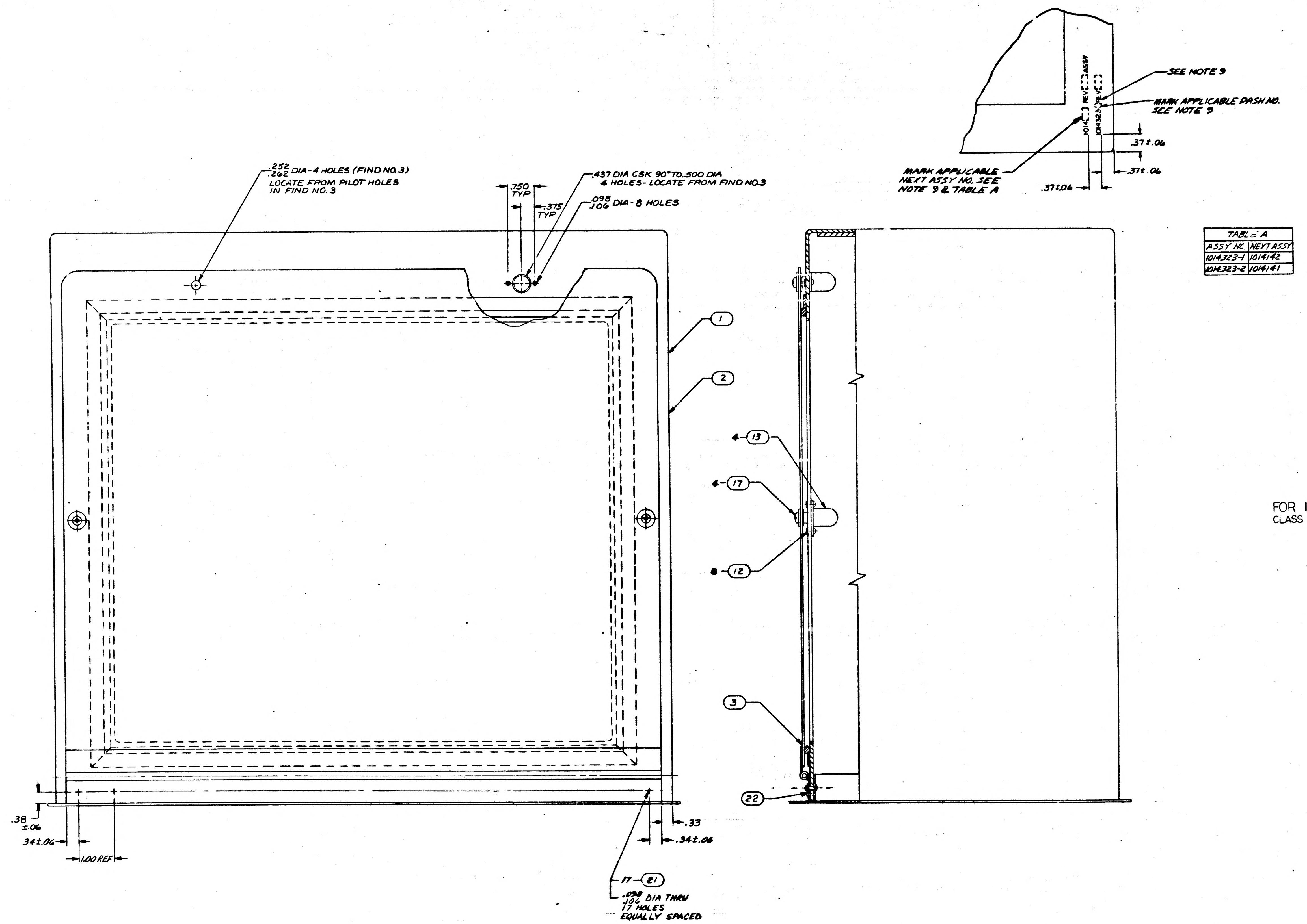
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASE PER TDRR 01857	7/1/63	
A	CLASS II CHANGE PER RD-R5453 DR R. Sargent CHK APPD	63	
B	CHANGE PER TDR R05801 DR CHK APPD	10 FEB 64	
C	CLASS II CHANGE PER RD R5786A DR Ken Budd CHK APPD	19 MAR 64	



SEE NOTE 9
MARK APPLICABLE DASH NO. SEE NOTE 9
1014[ ] REV[ ] ASSY
1014323-[ ] REV[ ]
.37±.06
.37±.06
MARK APPLICABLE NEXT ASSY NO. SEE NOTE 9 & TABLE A
.37±.06
.252 .262 DIA-4 HOLES (FIND NO. 3) LOCATE FROM PILOT HOLES IN FIND NO. 3
.437 DIA CSK 90° TO .500 DIA 4 HOLES- LOCATE FROM FIND NO. 3
.750 TYP
.375 TYP
.098 .106 DIA-8 HOLES
1
2
4-13
4-17
8-12
3
22
.38 ±.06
.34±.06
1.00 REF
.33
.34±.06
17-21
.098 .106 DIA THRU 17 HOLES EQUALLY SPACED

TABLE A	
ASSY NO.	NEXT ASSY
1014323-1	1014142
1014323-2	1014141

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR 01857 7/1/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014141	
1014142	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 .005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN R. C. Sinsko DATE 2 MAY
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 7/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, ASSEMBLY
(RF SHIELD)

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014323
SCALE 1-1
WT
SHEET 3 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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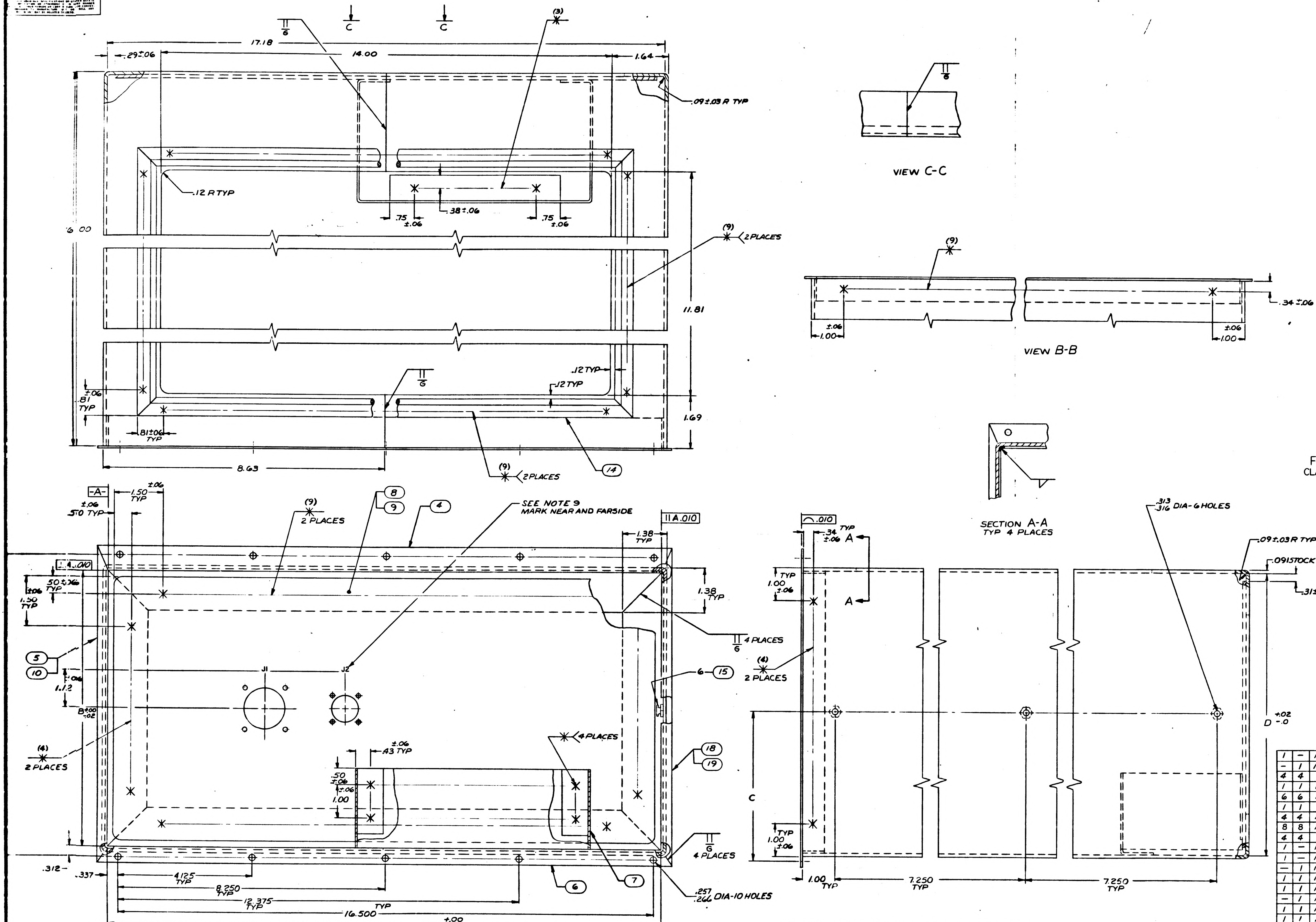
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASE PER TDRR 01857	7/2/63	



17.18
14.00
.29±.06
1.64
.09±.03 R TYP
(3)
.12 R TYP
.75 ±.06
.38±.06
.75 ±.06
16.00
11.81
1.69
(9) 2 PLACES
.12 TYP
.81 ±.06 TYP
.81±.06 TYP
8.63
(9) 2 PLACES
14
VIEW C-C
(9)
.34±.06
±.06 1.00
±.06 1.00
VIEW B-B
SECTION A-A TYP 4 PLACES
A
1.50 ±.06 TYP
±.06 .50 TYP
(9) 2 PLACES
8
9
4
SEE NOTE 9 MARK NEAR AND FARSIDE
.010
A .010
1.38 TYP
.50±.06 TYP
1.50 ±.06 TYP
1.38 TYP
4 PLACES
5
10
1.12 ±.06
B +.00 -.02
J1
J2
6 — 15
(4) 2 PLACES
±.06 .43 TYP
.50 ±.06
1.00 ±.06
4 PLACES
18
19
4 PLACES
.312
.337
4.125 TYP
8.250 TYP
12.375 TYP
16.500 TYP
17.06 +.00 -.02
6
7
.257 .266 DIA-10 HOLES
B
B
.010
.34 ±.06 TYP
A
1.00 ±.06 TYP
A
(4) 2 PLACES
C
1.00 ±.06 TYP
1.00 TYP
7.250 TYP
7.250 TYP
.313 .316 DIA-6 HOLES
.09±.03 R TYP
.091 STOCK
.31±.06
D +.02 -.0

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR 01857 7/2/63

REV STATUS OF PARTS	
PART NO	REV SYM
1014323-3	—
1014323-4	—
1014323-5	—
1014323-6	—
1014323-7	—
1014323-8	—
1014323-9	—
1014323-10	—
1014323-11	—
1014323-12	—
1014323-13	—
1014323-14	—

1	—	1014323-12	ANGLE, RIGHT	19
—	1	1014323-11	ANGLE, RIGHT	18
4	4		STUD ASSEMBLY	17
1	1	MS35825-2A	HINGE	16
6	6	1006896-10	NUT, SELF LOCKING	15
1	1		GASKET	14
4	4	1006874	RECEPTACLE, SEALED	13
8	8	MS20470A3-5	RIVET UNIV HD	12
4	4		WASHER	11
1	—	1014323-11	ANGLE, LEFT	10
1	—	1014323-12	PANEL REAR	9
—	1	1014323-10	PANEL, REAR	8
1	1	1014323-9	BOX, MAINTENANCE	7
1	1	1014323-8	ANGLE, BOTTOM	6
—	1	1014323-7	ANGLE, LEFT	5
1	1	1014323-6	ANGLE, TOP	4
1	1	1014323-5	DOOR	3
—	1	1014323-4	COVER, TAPE READER	2
1	—	1014323-3	COVER, TAPE PUNCH	1
QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
-2	-1	LIST OF MATERIALS		

DASH NO.	DIM A	DIM B	DIM C	DIM D
-4	9.280	8.46	4.670	8.59
-2	11.030	10.21	5.545	10.34

—	—	—
SH 1	SH 2	SH 3
REV STATUS OF SHEETS		

NOTES.

1. MATL 5052-H32 ALUM PER QQ-A-318c TEMP H32
2. REMOVE BURRS AND SHARP EDGES
3. FUSION WELD PER MIL-W-8604 (ARE)
4. SPOT WELD PER MIL-W-6858A CLASS B
5. REMOVE HINGE PIN OF FIND NO.16 BEFORE CHROMATE
6. ELECTRICALLY CONDUCTIVE CHROMATE PER MIL-C-5541
7. AFTER CHROMATE INSTALL HINGE PIN AND CRIMP END LOOPS OF FIND NO.16 ONE HALF CLOSED
8. HINGE SHALL NOT BIND
9. MARK .12 HIGH WHITE PER ND1002019
10. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014141	
1014142	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ±.015 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE 22 MAY 63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 7/2/63
MIT APPROVAL 7/3/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, ASSEMBLY
(RF SHIELD)

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014323
SCALE 1-1
WT
SHEET 1 OF 3

INCHES
PHOTOGRAPHIC SCALE ONLY

F-1 1014323

1014323

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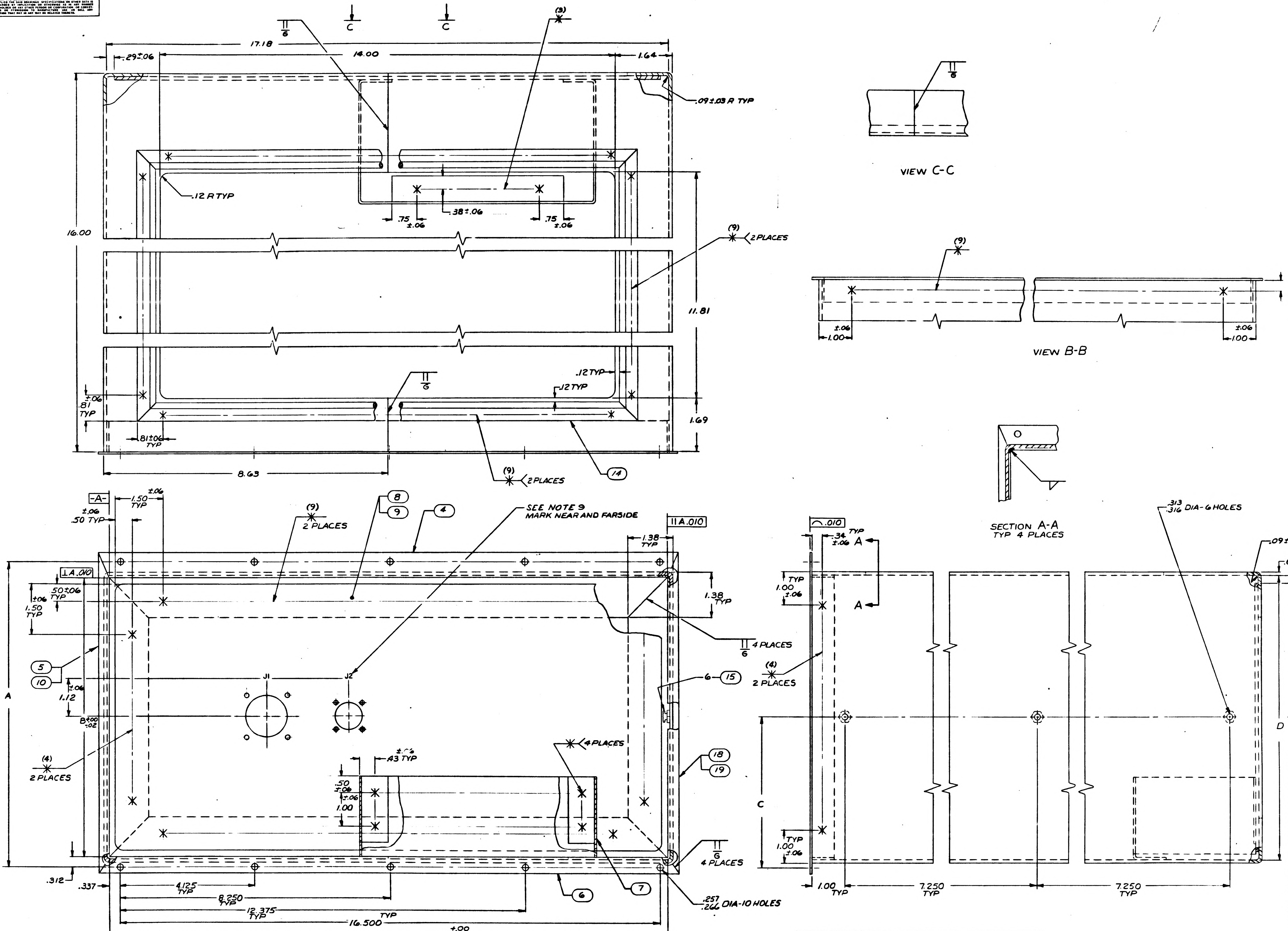
REVISIONS		
SYM	DESCRIPTION	DATE
—	CLASS B RELEASE PER TDRR 0'857	



17.18
14.00
1.64
.29±.06
(3)
C
C
.09±.03 R TYP
.12 R TYP
.75 ±.06
.38±.06
.75 ±.06
16.00
11.81
(9) 2 PLACES
.12 TYP
.12 TYP
.81 ±.06 TYP
.81±.06 TYP
1.69
8.63
(9) 2 PLACES
14
VIEW C-C
VIEW B-B
(9)
.34±.06
1.00 ±.06
1.00 ±.06
SECTION A-A
TYP 4 PLACES
.313 .316 DIA-6 HOLES
-A-
1.50 TYP
±.06
.50 TYP
⊥A.010
.50±.06 TYP
1.50 TYP
(9) 2 PLACES
8
9
4
SEE NOTE 9
MARK NEAR AND FARSIDE
∥A.010
1.38 TYP
1.38 TYP
4 PLACES
5
10
1.12
B +.00 -.02
A
J1
J2
6 15
(4) 2 PLACES
4 PLACES
.43 TYP
.50 ±.06
1.00
18
19
4 PLACES
7
6
.312
.337
4.125 TYP
8.250 TYP
12.375 TYP
16.500 TYP
17.06 +.00 -.02
.257 .266 DIA-10 HOLES
B
B
⌒.010
.34 ±.06 TYP
A
A
1.00 ±.06 TYP
(4) 2 PLACES
C
1.00 TYP
7.250 TYP
7.250 TYP
.09±.03R TYP
.091STOCK
.31±.06
D +.02 -.0

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR 01857 7/2/63

REV STATUS OF PARTS	
PART NO	REV SYM
1014323-3	—
1014323-4	—
1014323-5	—
1014323-6	—
1014323-7	—
1014323-8	—
1014323-9	—
1014323-10	—
1014323-11	—
1014323-12	—
1014323-13	—
1014323-14	—

NOTES:

1. MATL: 5052-H32 ALUM PER QQ-A-318c TEMP H32
2. REMOVE BURRS AND SHARP EDGES
3. FUSION WELD PER MIL-W-8604 (ARE)
4. SPOT WELD PER MIL-W-6858A CLASS B
5. REMOVE HINGE PIN OF FIND NO.16 BEFORE CHROMATE
6. ELECTRICALLY CONDUCTIVE CHROMATE PER MIL-C-5541
7. AFTER CHROMATE INSTALL HINGE PIN AND CRIMP END LOOPS OF FIND NO.16 ONE HALF CLOSED
8. HINGE SHALL NOT BIND
9. MARK .12 HIGH WHITE PER ND1002019
10. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY

DASH NO.	DIM A	DIM B	DIM C	DIM D
-4	9.280	8.46	4.670	8.59
-2	11.030	10.21	5.545	10.34

-	-	-
SH 1	SH 2	SH 3
REV STATUS OF SHEETS		

QTY REQD -2	QTY REQD -1	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
1	—	1014323-12	ANGLE, RIGHT
—	1	1014323-11	ANGLE, RIGHT
4	4		STUD ASSEMBLY
1	1	MS35825-2A	HINGE
6	6	1006896-10	NUT, SELF LOCKING
1	1		GASKET
4	4	1006874	RECEPTACLE, SEALED
8	8	MS20470A3-5	RIVET UNIV HD
4	4		WASHER
1	—	1014323-11	ANGLE, LEFT
1	—	1014323-12	PANEL REAR
—	1	1014323-10	PANEL, REAR
1	1	1014323-9	BOX, MAINTENANCE
1	1	1014323-8	ANGLE, BOTTOM
—	1	1014323-7	ANGLE, LEFT
1	1	1014323-6	ANGLE, TOP
1	1	1014323-5	DOOR
—	1	1014323-4	COVER, TAPE READER
1	—	1014323-3	COVER, TAPE PUNCH

LIST OF MATERIALS

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

NEXT ASSY	USED ON
1014141	
1014142	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ±.015 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

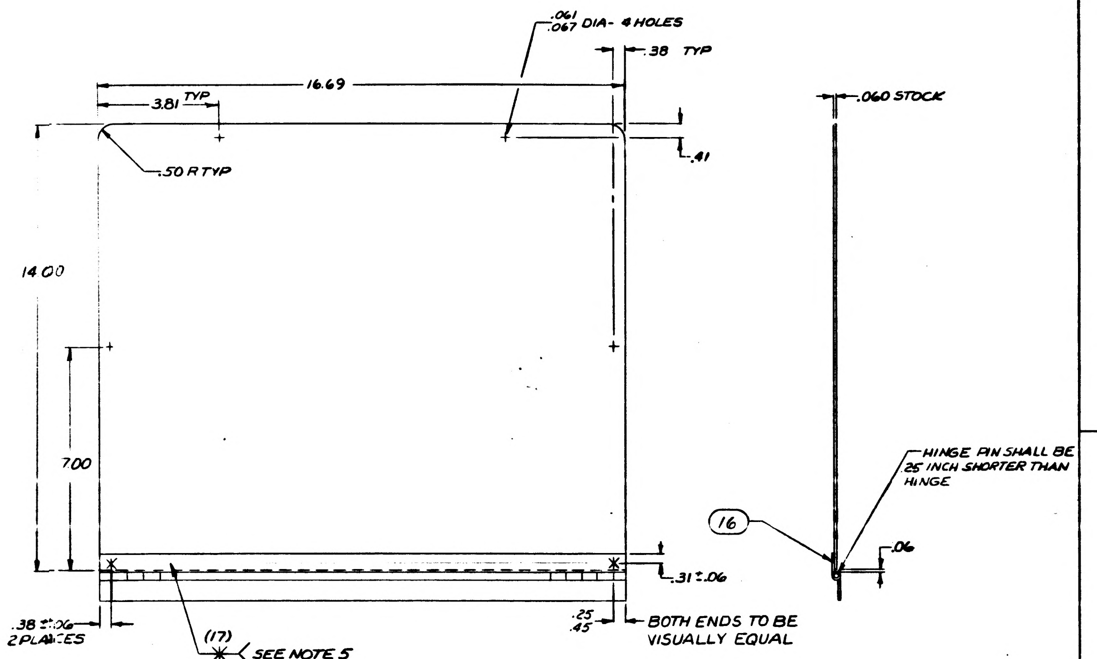
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE 22MAY63
CHECKED R Brockus
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 7/2/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, ASSEMBLY
(RF SHIELD)

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014323
SCALE 1-1
WT

1014323


.061
.067 DIA- 4 HOLES
.38 TYP
16.69
3.81 TYP
.50 R TYP
.41
14.00
7.00
.060 STOCK
HINGE PIN SHALL BE .25 INCH SHORTER THAN HINGE
16
.06
.31 ±.06
.38 ±.06
2 PLACES
(17)
SEE NOTE 5
.25
.45
BOTH ENDS TO BE VISUALLY EQUAL

TES:

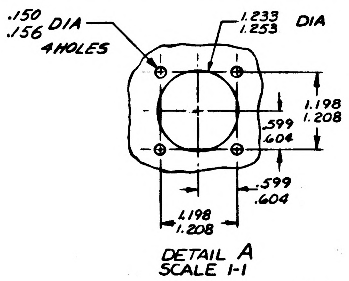
1. MATL: 5052-H32 ALUM PER QQ-A-318c
TEMPER H32
2 REMOVE BURRS AND SHARP EDGES.
3 WELD PER MIL-W-6858A
4 REMOVE HINGE PIN BEFORE ANODIZING
5 ANODIZE FIND NO 16 PER MIL-A-8625 TYPE II
6 CRIMP END LOOPS OF FIND NO 16 ONE HALF CLOSED
7 HINGE SHALL NOT BIND

DOOR

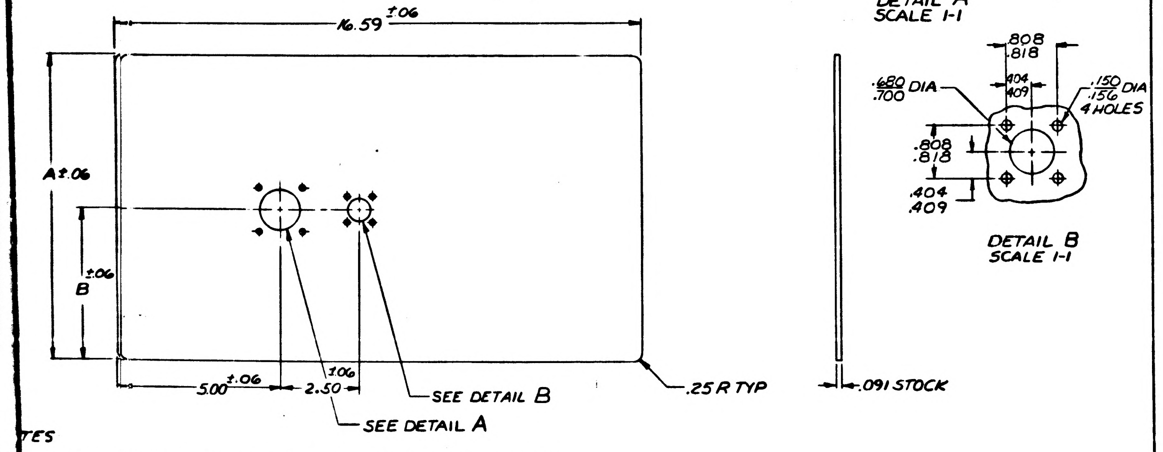
1014323-5

SCALE 1/2

DASH NO.	DIM A	DIM B
-10	7.96	3.98
-12	9.71	4.85


.150
.156 DIA
4 HOLES
1.233
1.253 DIA
1.198
1.208
.599
.604
.599
.604
1.198
1.208

DETAIL A
SCALE 1-1


16.59 ±.06
A ±.06
B ±.06
5.00 ±.06
2.50 ±.06
SEE DETAIL B
SEE DETAIL A
.25 R TYP
.091 STOCK
.808
.818
.680
.700 DIA
.404
.409
.150
.156 DIA
4 HOLES
.808
.818
.404
.409

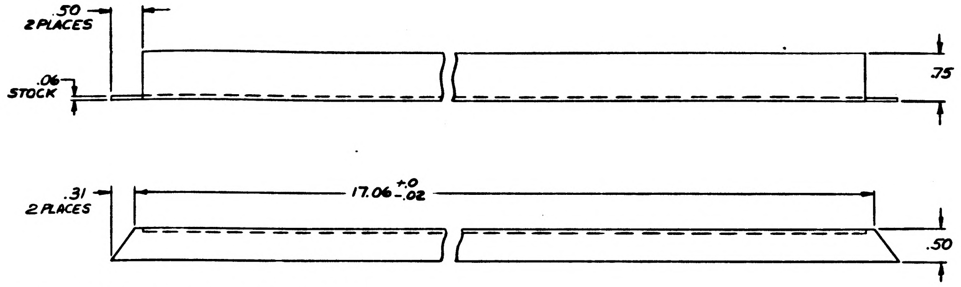
DETAIL B
SCALE 1-1

TES

1 MATL: 5052-H32 ALUM PER QQ-A-318c TEMPER H32
2. REMOVE BURRS AND SHARP EDGES.

PANEL, REAR

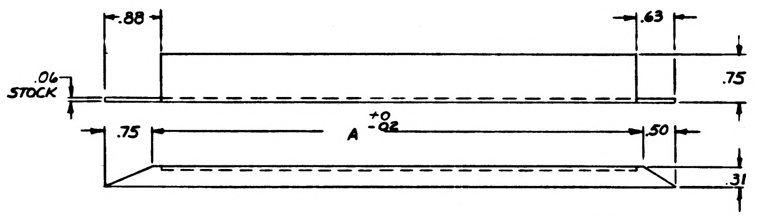
SCALE 1/2


.50
2 PLACES
.06
STOCK
.75
.31
2 PLACES
17.06 +0 -.02
.50

NOTES

1. MATL: 6063-T5 ALUM PER QQ-A-274 TEMPER T5
2. REMOVE BURRS AND SHARP EDGES.

ANGLE, BOTTOM
1014323-8

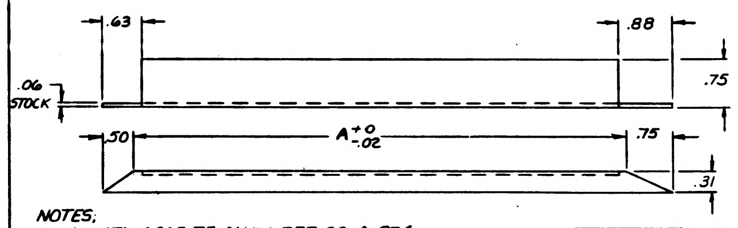

.88
.63
.06
STOCK
.75
.75
A +0 -.02
.50
.31

NOTES:

1. MATL: 6063-T5 ALUM PER QQ-A-274
TEMPER T5
2. REMOVE BURRS AND SHARP EDGES.

ANGLE, LEFT

DASH NO	DIM A
-7	8.46
-11	10.21

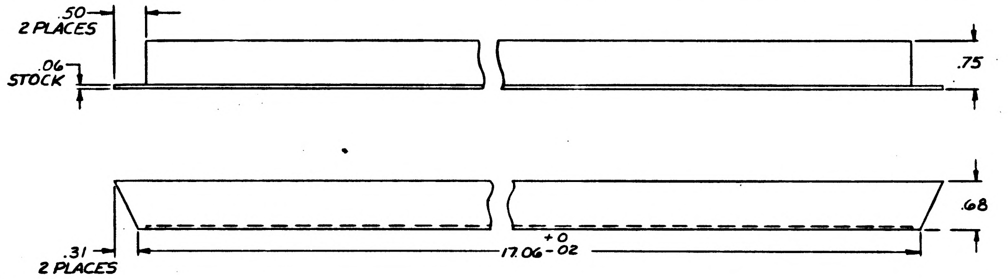

.63
.88
.06
STOCK
.75
.50
A +0 -.02
.75
.31

NOTES:

1. MATL: 6063-T5 ALUM PER QQ-A-274
TEMPER T5
2. REMOVE BURRS AND SHARP EDGES

ANGLE, RIGHT

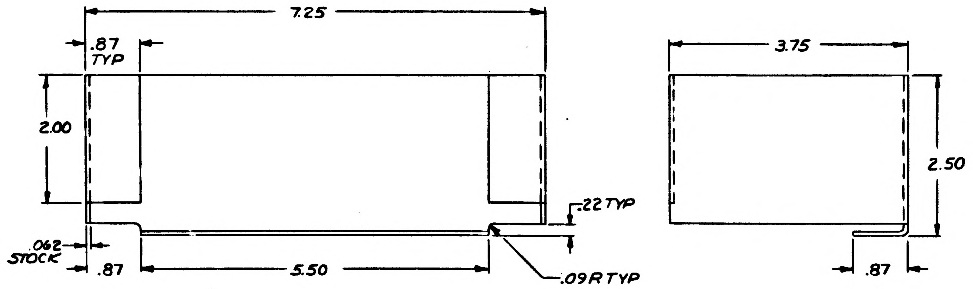
DASH NO	DIM A
-13	8.46
-14	10.21


.50
2 PLACES
.06
STOCK
.75
.68
.31
2 PLACES
17.06 +0 -.02

NOTES:

1. MATL: 6063-T5 ALUM PER QQ-A-274
TEMPER T5
2. REMOVE BURRS AND SHARP EDGES.

ANGLE, TOP
1014323-6


7.25
.87
TYP
2.00
.062
STOCK
.87
5.50
.22 TYP
.09 R TYP
3.75
2.50
.87

NOTES:

1. MATL: 5052-H32 ALUM PER QQ-A-318c
TEMPER H32
2 REMOVE BURRS AND SHARP EDGES.
3 ALL INSIDE BEND RADII .06

BOX, MAINTENANCE
1014323-9

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASE PER TDRR 0'857	[illegible]	[illegible]

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR 01857 7/2/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014141	
1014192	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
SEE NOTES
HEAT TREATMENT
FINAL FINISH
SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE 23 MAY 63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 7/2/63
MIT APPROVAL 7/2/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, ASSEMBLY
(RF SHIELD)

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014323
SCALE 1-1
WT
SHEET 2 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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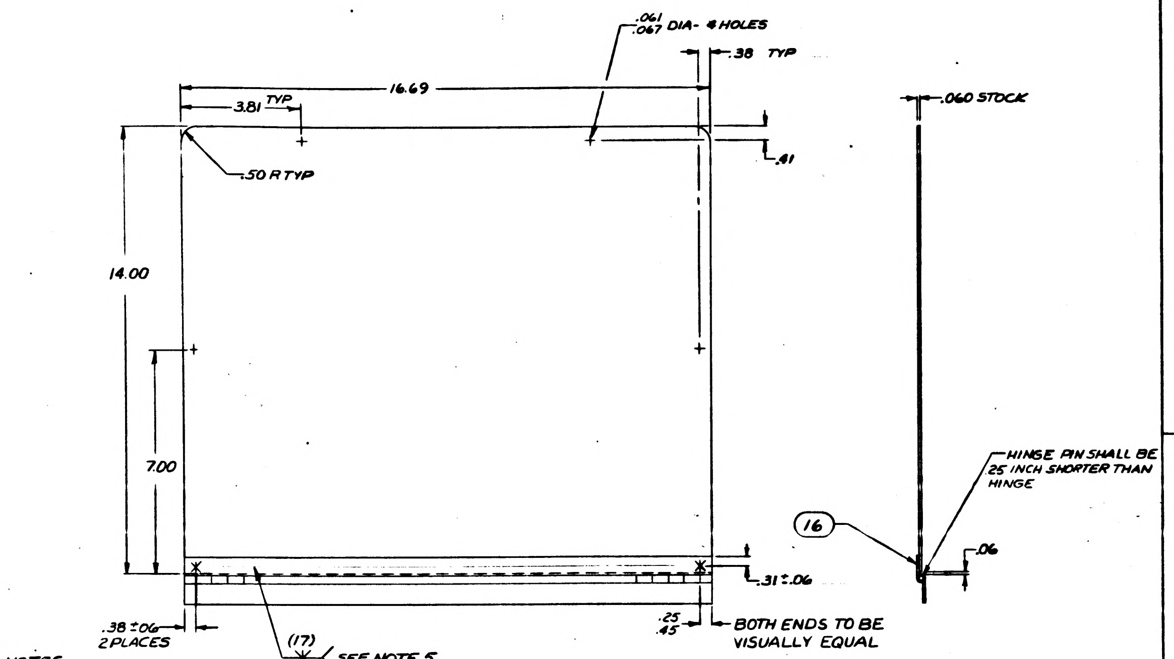
REVISIONS		
SYM	DESCRIPTION	DATE
—	CLASS B RELEASE PER TDRR 0185?	7-2-?

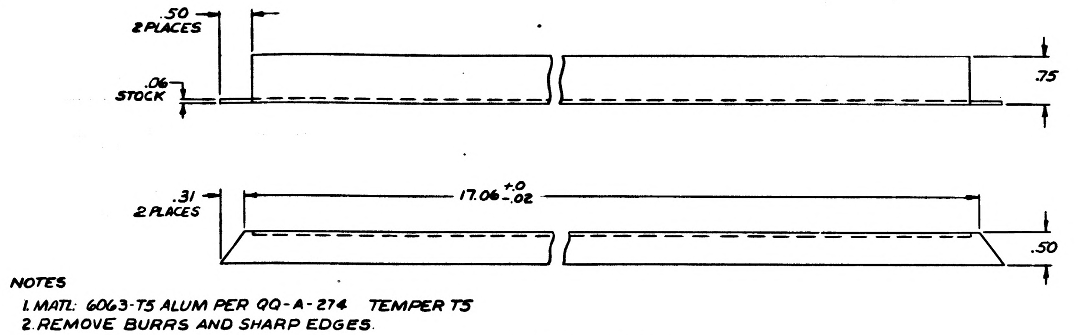
1014323


.061 .067 DIA- 4 HOLES
.38 TYP
16.69
3.81 TYP
.060 STOCK
.50 R TYP
.41
14.00
7.00
HINGE PIN SHALL BE .25 INCH SHORTER THAN HINGE
16
.06
.31 ± .06
.38 ± .06 2 PLACES
(17)
SEE NOTE 5
.25 .45
BOTH ENDS TO BE VISUALLY EQUAL

NOTES:

1. MATL: 5052-H32 ALUM PER QQ-A-318c TEMPER H32
2. REMOVE BURRS AND SHARP EDGES.
3. WELD PER MIL-W-6858A
4. REMOVE HINGE PIN BEFORE ANODIZING
5. ANODIZE FIND NO 16 PER MIL-A-8625 TYPE II
6. CRIMP END LOOPS OF FIND NO 16 ONE HALF CLOSED
7. HINGE SHALL NOT BIND

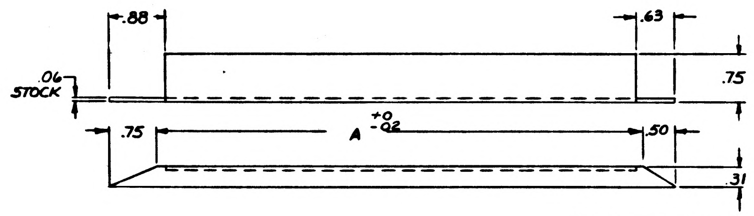
DOOR
1014323-5
SCALE 1/2


.50 2 PLACES
.06 STOCK
.75
.31 2 PLACES
17.06 +0 -.02
.50

NOTES

1. MATL: 6063-T5 ALUM PER QQ-A-274 TEMPER T5
2. REMOVE BURRS AND SHARP EDGES.

ANGLE, BOTTOM
1014323-8

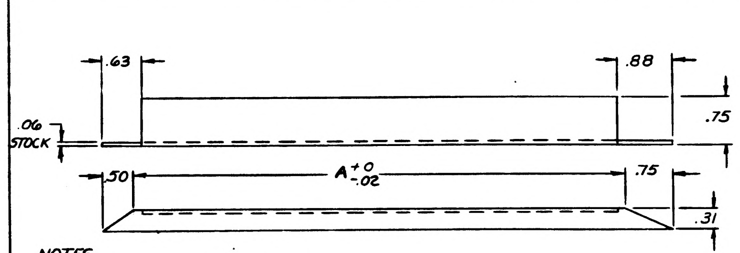

.88
.63
.06 STOCK
.75
.75
A +0 -.02
.50
.31

NOTES:

1. MATL: 6063-T5 ALUM PER QQ-A-274 TEMPER T5
2. REMOVE BURRS AND SHARP EDGES.

DASH NO	DIM A
-7	8.46
-11	10.21

ANGLE, LEFT

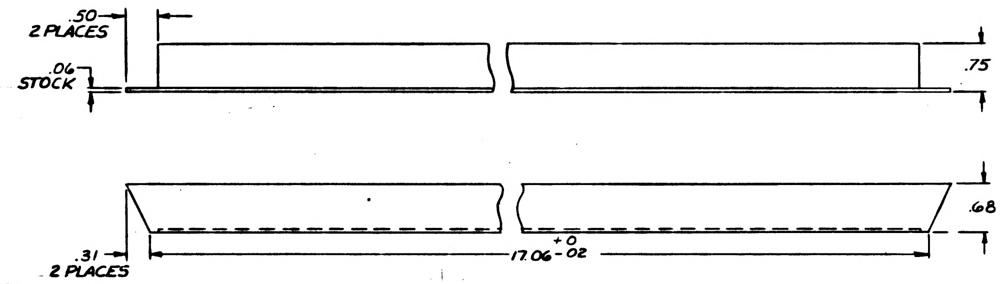

.63
.88
.06 STOCK
.75
.50
A +0 -.02
.75
.31

NOTES;

1. MATL: 6063-T5 ALUM PER QQ-A-274 TEMPER T5
2. REMOVE BURRS AND SHARP EDGES

DASH NO	DIM A
-13	8.46
-14	10.21

ANGLE, RIGHT


.50 2 PLACES
.06 STOCK
.75
.68
.31 2 PLACES
17.06 +0 -.02

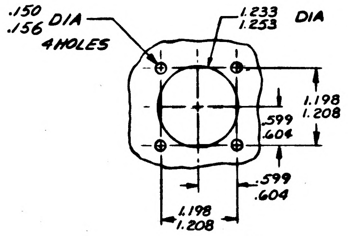
NOTES:

1. MATL: 6063-T5 ALUM PER QQ-A-274 TEMPER T5
2. REMOVE BURRS AND SHARP EDGES.

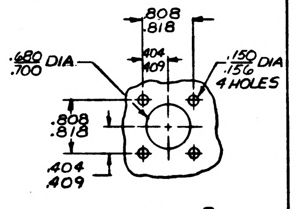
ANGLE, TOP
1014323-6

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR 01857 7/2/6?

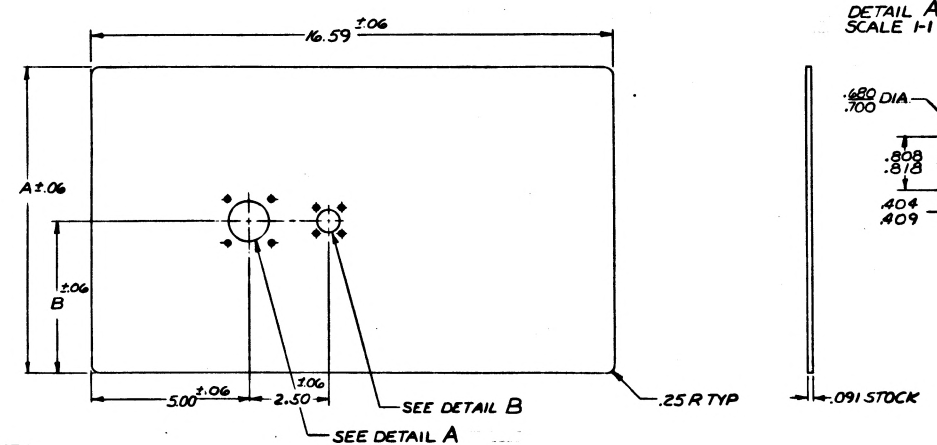
DASH NO.	DIM A	DIM B
-10	7.96	3.98
-12	9.71	4.85


.150 .156 DIA 4 HOLES
1.233 1.253 DIA
1.198 1.208
.599 .606
.599 .604
1.198 1.208

DETAIL A
SCALE 1-1


.808 .818
.680 .700 DIA
.404 .409
.150 .156 DIA 4 HOLES
.808 .818
.404 .409

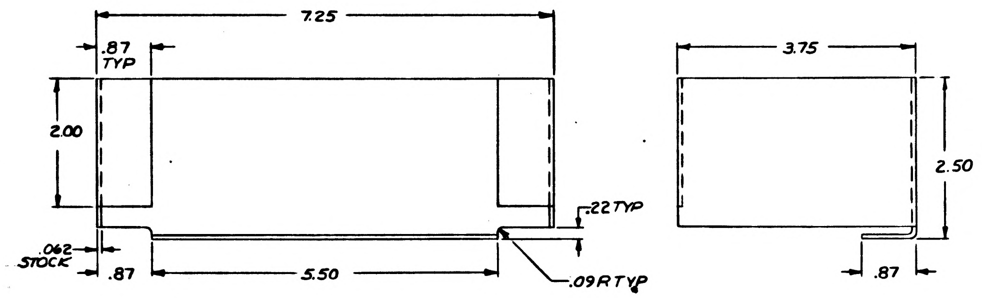
DETAIL B
SCALE 1-1


16.59 ±.06
A ±.06
B ±.06
5.00 ±.06
2.50 ±.06
SEE DETAIL B
SEE DETAIL A
.25 R TYP
.091 STOCK

NOTES:

1. MATL: 5052-H32 ALUM PER QQ-A-318c TEMPER H32
2. REMOVE BURRS AND SHARP EDGES.

PANEL, REAR
SCALE 1/2


7.25
.87 TYP
2.00
.062 STOCK
.87
5.50
.22 TYP
.09 R TYP
3.75
2.50
.87

NOTES:

1. MATL: 5052-H32 ALUM PER QQ-A-318c TEMPER H32
2. REMOVE BURRS AND SHARP EDGES.
3. ALL INSIDE BEND RADII .06

BOX, MAINTENANCE
1014323-9

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
	LIST OF MATERIALS	

NEXT ASSY	USED ON
1014141	
1014192	
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE 3MAY6?
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 7/2/6?
MIT APPROVAL 7/2/6?

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, ASSEMBLY
(RF SHIELD)

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014323
SCALE 1-1
WT

INCHES
PHOTOGRAPHIC SCALE ONLY

E1

1014323

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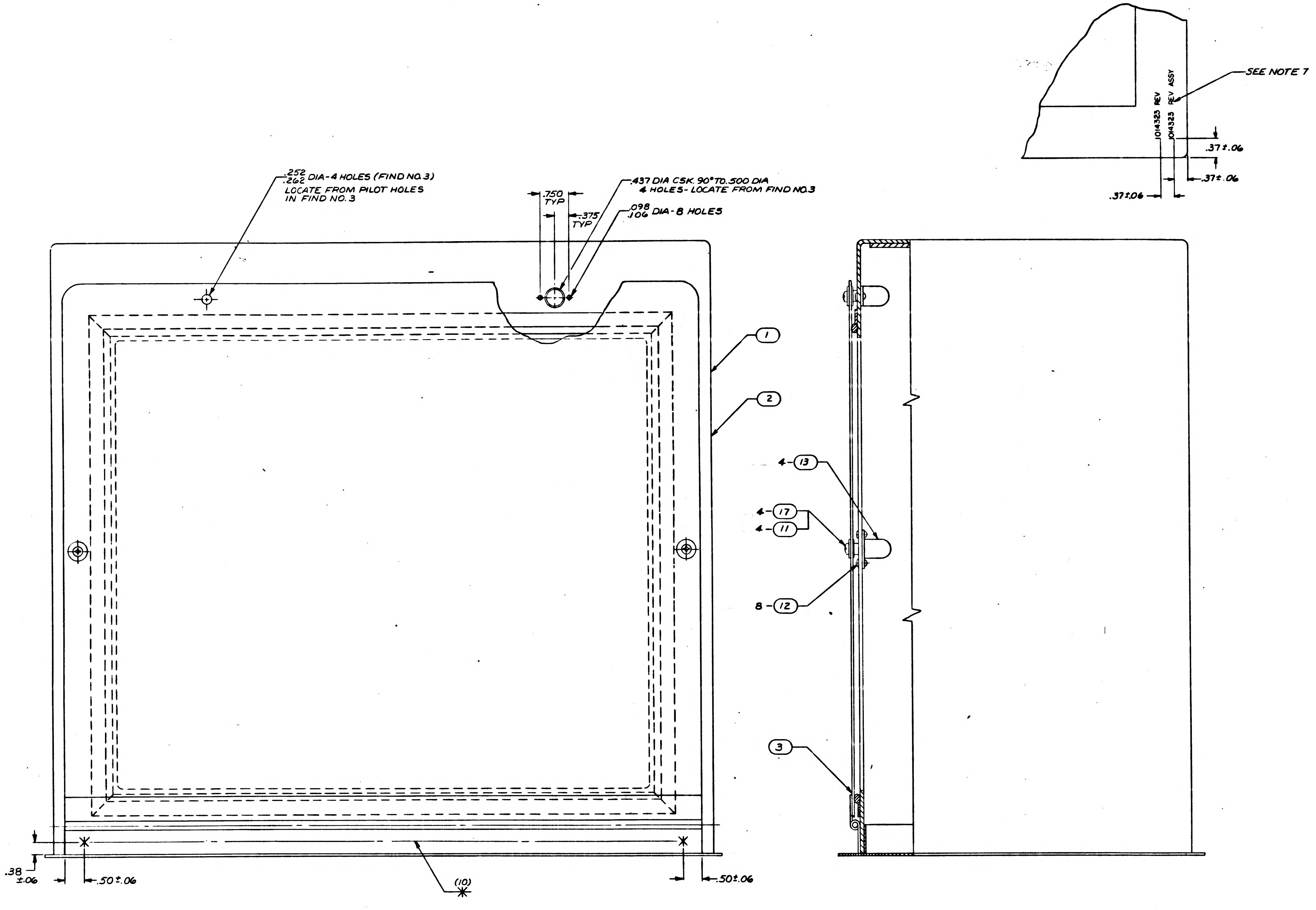
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASE PER TDRR 01857	7/3/63	



SEE NOTE 7
1014323 REV
1014323 REV ASSY
.37±.06
.37±.06
.37±.06
.252
.262 DIA-4 HOLES (FIND NO.3)
LOCATE FROM PILOT HOLES
IN FIND NO.3
.750
TYP
.375
TYP
.437 DIA CSK. 90° TO .500 DIA
4 HOLES- LOCATE FROM FIND NO.3
.098
.106 DIA-8 HOLES
1
2
4-13
4-17
4-11
8-12
3
.38
±.06
.50±.06
(10)
.50±.06

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR 01857 7/2/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014141	
1014142	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 .005 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN R.C. Dinster DATE 21 MAY 63
CHECKED R. Brooks
APPROVAL C. Spalding
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 7/2/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, ASSEMBLY
(RF SHIELD)

CODE IDENT NO. ——— SIZE J NASA DRAWING NO 1014323
SCALE 1-1 WT SHEET 3 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

1014323

E2 1014323

1014323

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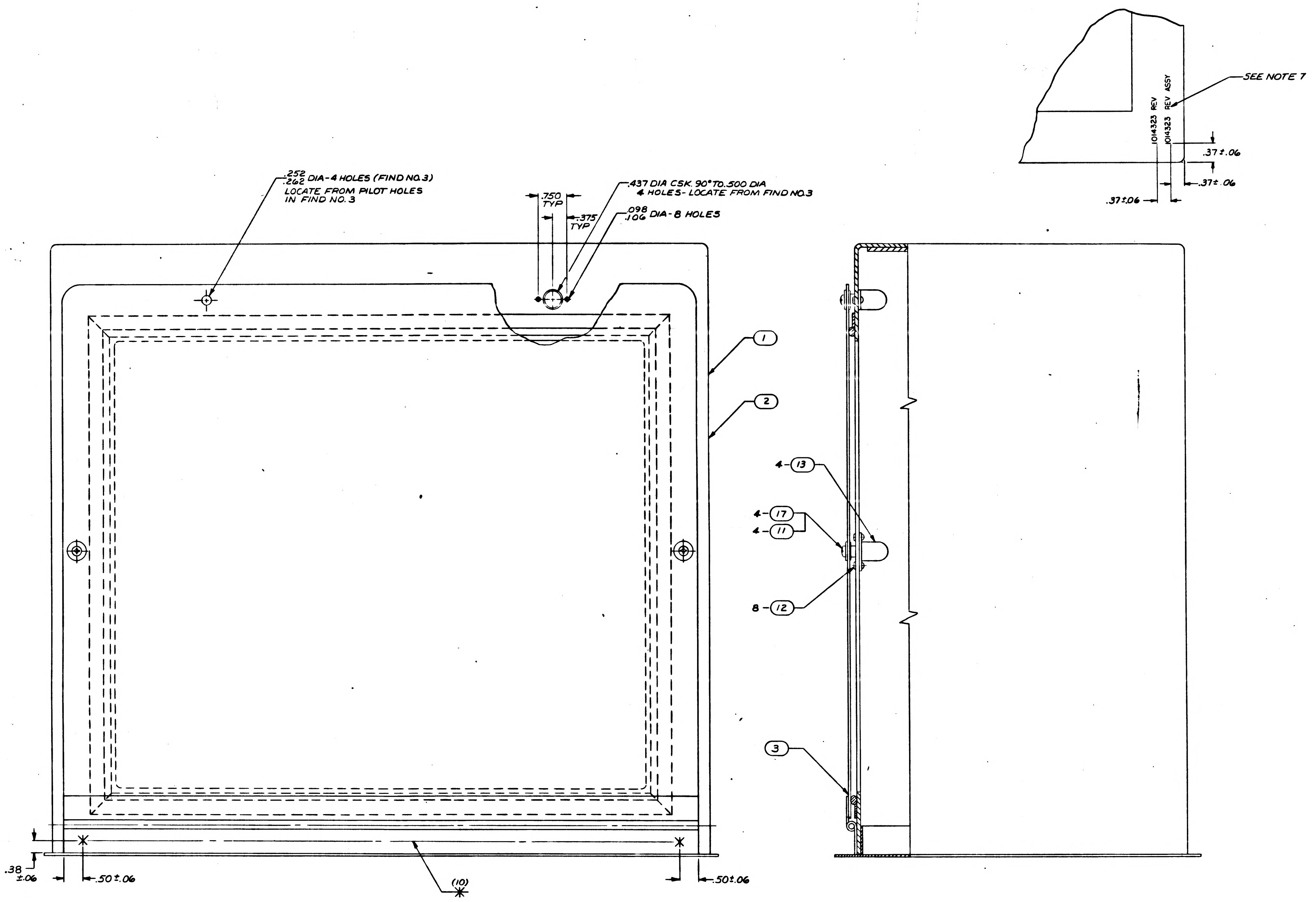
REVISIONS		
SYM	DESCRIPTION	DATE
–	CLASS B RELEASE PER TDRR 01857	[illegible]


SEE NOTE 7
1014323 REV
1014323 REV ASSY
.37±.06
.37±.06
.37±.06
.252
.262 DIA-4 HOLES (FIND NO.3)
LOCATE FROM PILOT HOLES
IN FIND NO. 3
.750
TYP
.375
TYP
.437 DIA CSK. 90° TO .500 DIA
4 HOLES- LOCATE FROM FIND NO.3
.098
.106 DIA-8 HOLES
1
2
4-13
4-17
4-11
8-12
3
.38
±.06
.50±.06
.50±.06
(10)

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR 01857 7/2/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION
LIST OF MATERIALS		

NEXT ASSY	USED ON
1014141	
1014142	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 .005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 7/2/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER ASSEMBLY
(RF SHIELD)

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014323
SCALE 1-1
WT
SHEET

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

E1 1014323

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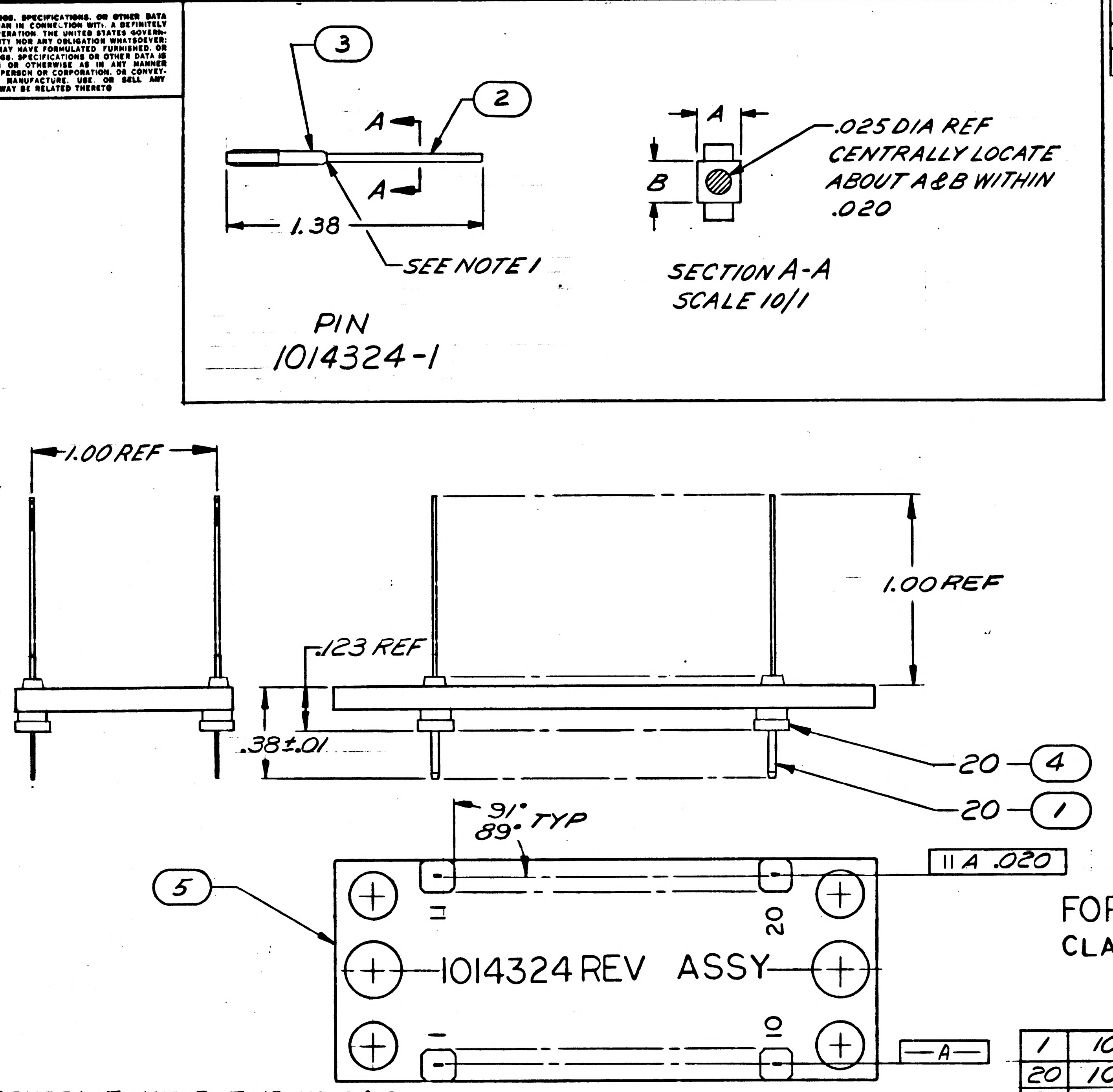

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02386 DATE 8/7/63

NOTES

1. (1) PERCUSSIVE WELD FIND NO. 2 & 3 PER ND 1002005
2. REMOVE BURRS AND SHARP EDGES
3. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY

REV STATUS OF PARTS	
PART NO.	REV SYM
-1	—

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014325	CONNECTOR, PLATE	5
20	1010383	INSULATOR, WRAPOST-MALE	4
20	1006996-6	WRAPOST, MALE	3
AR	1006757-10	WIRE, ELECTRICAL	2
20	1014324-1	PIN	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014226	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN Ed Williard DATE 27 MAY 63
CHECKED D. Perrone 11 JUN 63
APPROVAL C Snerling 7/24/63
APPROVAL 7/30/63
APPROVAL 31 Jly 63
NASA APPROVAL 8/7/63
MIT APPROVAL 8/6/63
MIT APPROVAL George J Nelson 8/7/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR, 20 PIN

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014324
SCALE 2/1
WT
SHEET 1 OF 1

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014324

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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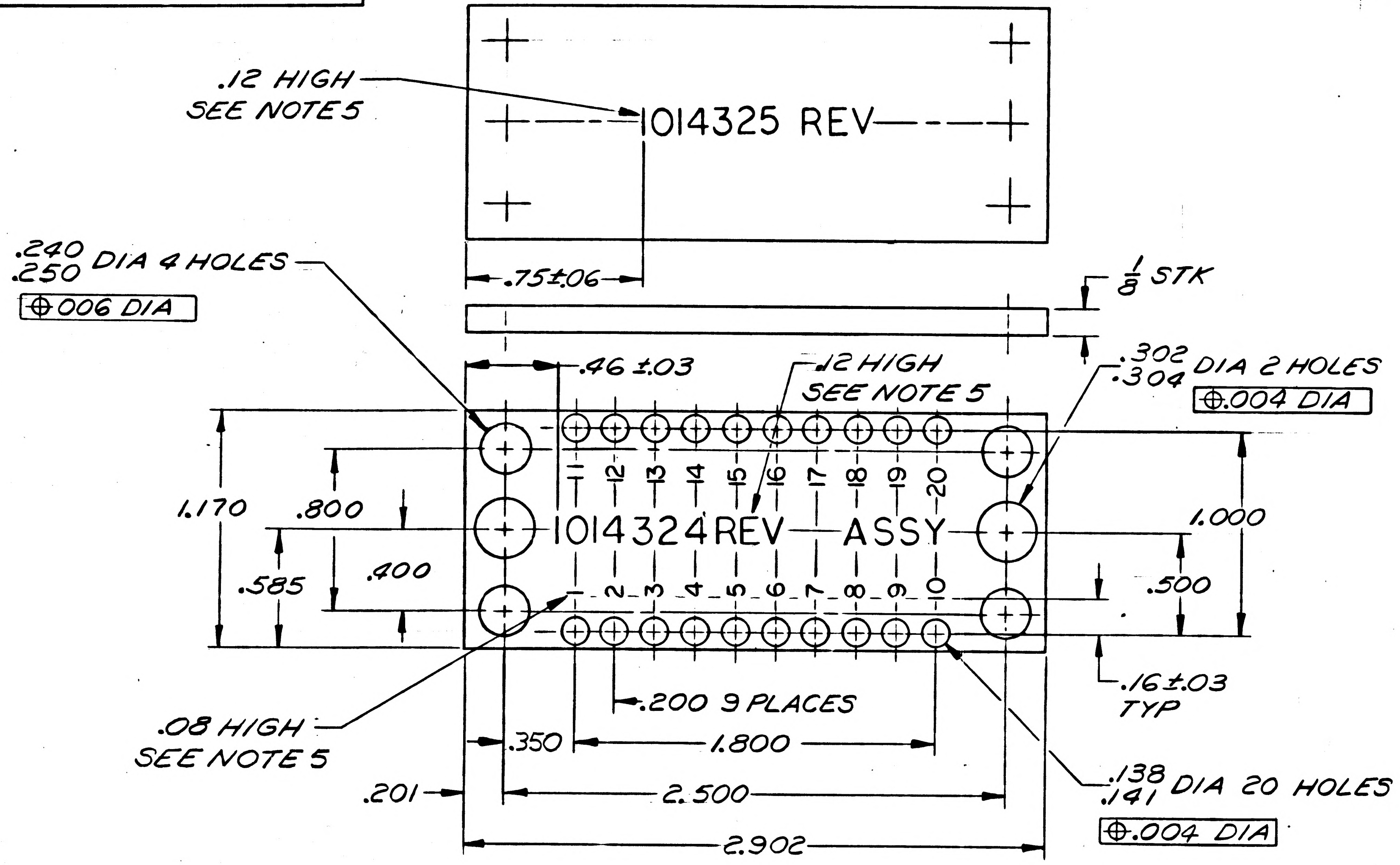

.12 HIGH
SEE NOTE 5
1014325 REV
.75±.06
1/8 STK
.240
.250 DIA 4 HOLES
⊕ .006 DIA
.46 ±.03
.12 HIGH
SEE NOTE 5
.302
.304 DIA 2 HOLES
⊕ .004 DIA
11 12 13 14 15 16 17 18 19 20
1014324 REV ASSY
1 2 3 4 5 6 7 8 9 10
1.170
.800
.585
.400
1.000
.500
.16±.03
TYP
.200 9 PLACES
.08 HIGH
SEE NOTE 5
.350
1.800
.201
2.500
2.902
.138
.141 DIA 20 HOLES
⊕ .004 DIA

NOTES
1. MATL 5052 AL PER QQ-A-318, TEMPER H32
2. REMOVE ALL BURRS AND SHARP EDGES
3. DIM. LOCATING TRUE POSITION ARE BASIC
4. BLACK ANODIZE PER MIL-A-8625, TYPE I
5. MARK WHITE PER ND1002019

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02386 DATE 8/7/63

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014324	1014226

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 .02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN Ed Williams DATE 24 MAY 63
CHECKED D. Perrone 11 JUN 63
APPROVAL C Spurling 7/24/63
APPROVAL [illegible] 7/26/63
APPROVAL [illegible] 31 Jul 63
NASA APPROVAL [illegible] 8/7/63
MIT APPROVAL L Jediman 8/6/63
MIT APPROVAL George J Nelson 8/7/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR PLATE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014325
SCALE 2/1
WT
SHEET 1 OF 1

1014325

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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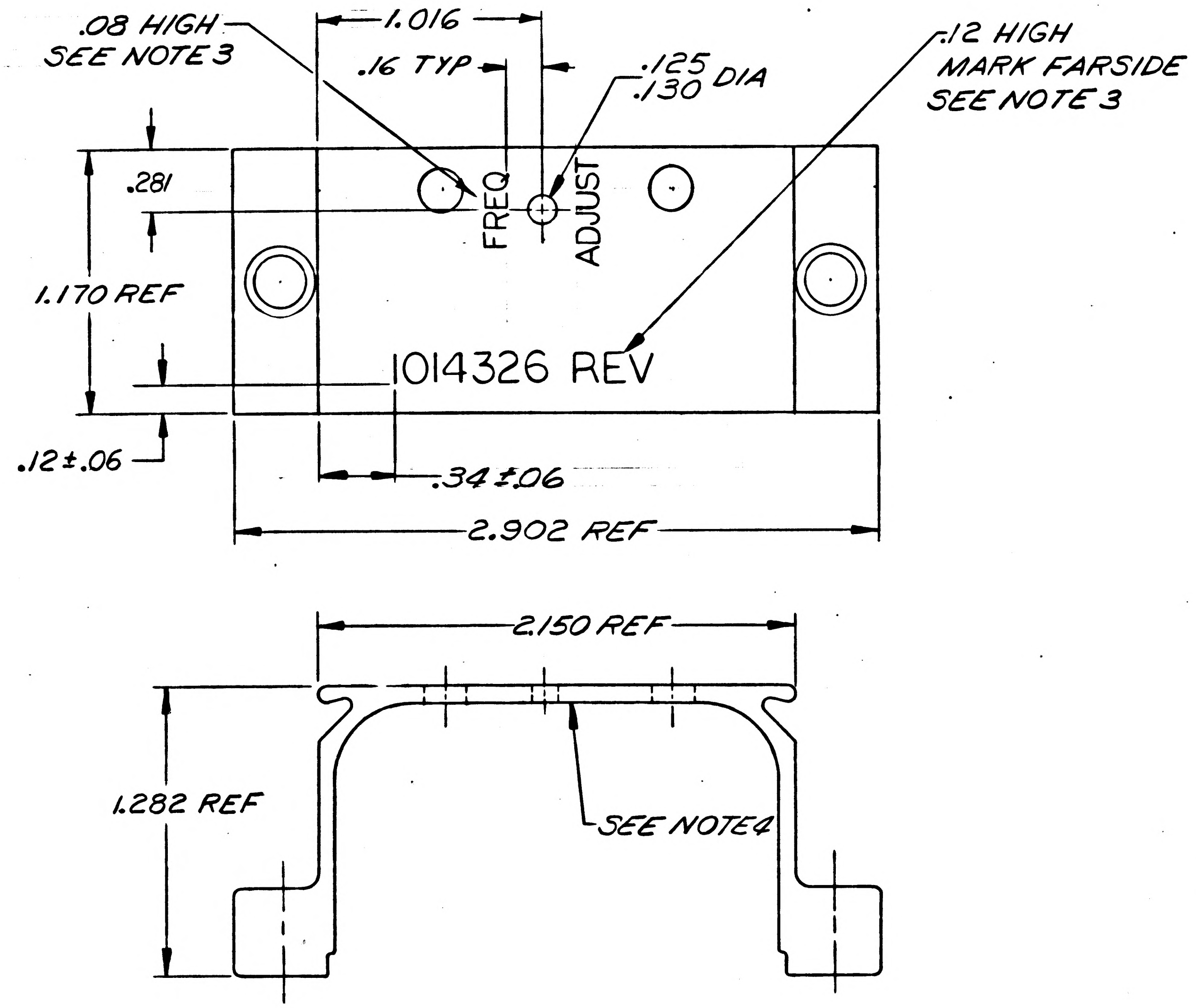
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO.		



FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02386 DATE 8/7/63

NOTES
1. MATL MAKE FROM FIND NO. 1 REOPERATE AS SHOWN
2. REMOVE BURRS AND SHARP EDGES
3. MARK WHITE PER ND1002019
4. REMOVE EXISTING PART NO.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014000-2	FRAME, MODULE	1

LIST OF MATERIALS

MASTER

NEXT ASSY	USED ON
1014226	1014167

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN Ed Williams DATE 23MAY63
CHECKED A. Perrone 11 JUN 63
APPROVAL C Sperling JH 6/28/63
APPROVAL JJB 7/30/63
APPROVAL 30 Jul 63
NASA APPROVAL 8/7/63
MIT APPROVAL L Gediman 8/6/63
MIT APPROVAL George J Nelson 8/7/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRAME, MODULE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014326
SCALE 2/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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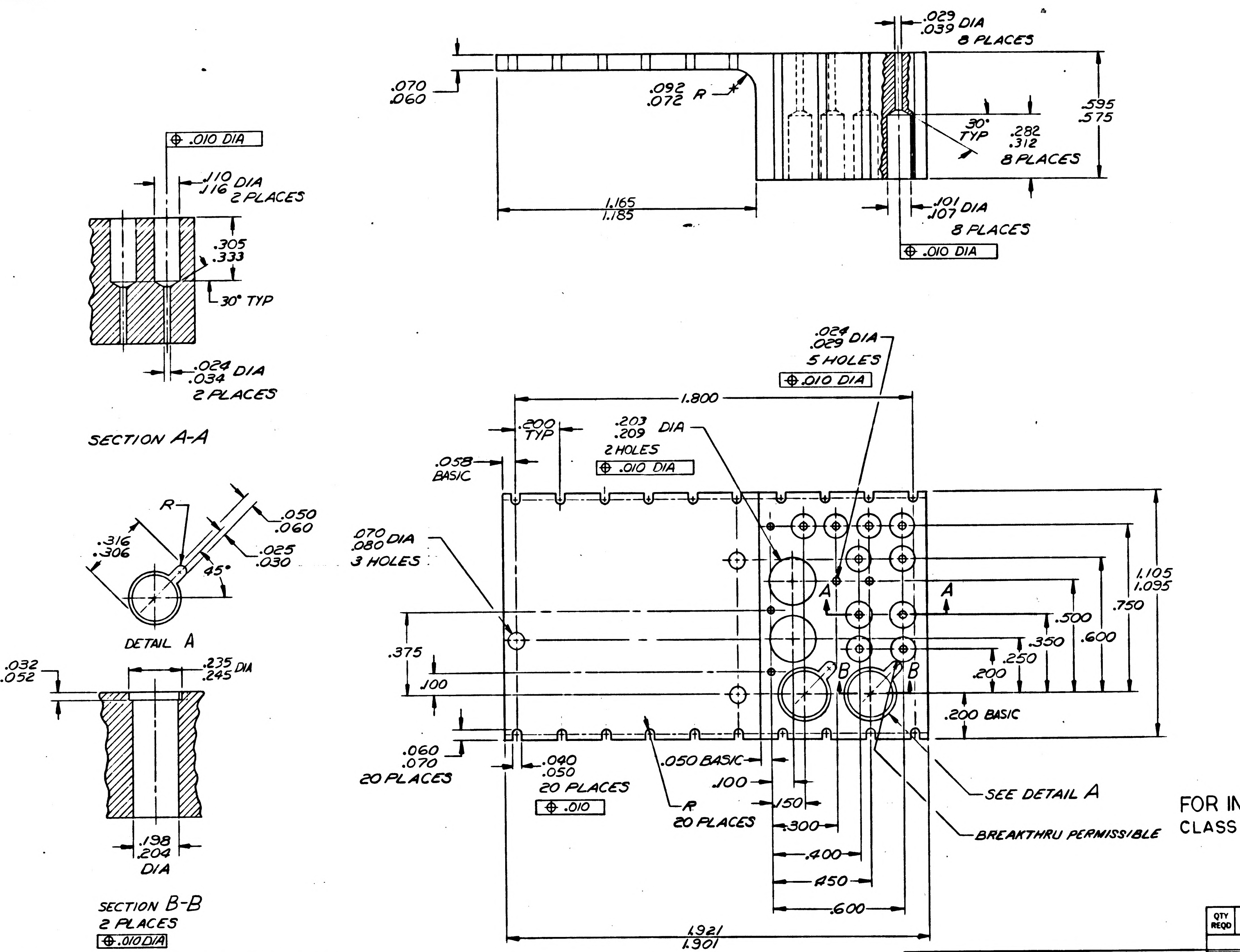

.029 DIA
.039 DIA
8 PLACES
.070
.060
.092
.072 R
.595
.575
30° TYP
.282
.312
8 PLACES
1.165
1.185
.101 DIA
.107
8 PLACES
⊕ .010 DIA
⊕ .010 DIA
.110 DIA
.116
2 PLACES
.305
.333
30° TYP
.024 DIA
.034
2 PLACES
SECTION A-A
.024 DIA
.029
5 HOLES
⊕ .010 DIA
1.800
.200 TYP
.203 DIA
.209
2 HOLES
⊕ .010 DIA
.058 BASIC
R
.050
.060
.316
.306
.025
.030
45°
DETAIL A
.070 DIA
.080
3 HOLES
1.105
1.095
.750
.600
.500
.350
.250
.200
.375
.100
A
A
B
B
.200 BASIC
.060
.070
20 PLACES
.040
.050
20 PLACES
⊕ .010
.050 BASIC
.100
R
20 PLACES
.150
.300
.400
.450
.600
1.921
1.901
SEE DETAIL A
BREAKTHRU PERMISSIBLE
.032
.052
.235 DIA
.245
.198
.204
DIA
SECTION B-B
2 PLACES
⊕ .010 DIA

NOTES
1. MAT L CLEAR NYLON PER MIL-P-20693 TYPE IV
2. DIMENSIONS LOCATING TRUE POSITION ARE BASIC

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02386 DATE 8/7/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014226	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ± 5°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN Ed Williams DATE 28 MAY 63
CHECKED D. Perrone 11 JUN 63
APPROVAL C Sawling 6/28/63
APPROVAL 7/30/63
APPROVAL 30 Jul 63
NASA APPROVAL 8/7/63
MIT APPROVAL Gelman 8/6/63
MIT APPROVAL George J. Dulson 8/7/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CLOCK MODULE
INJECTION MOLDING

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014327
SCALE 4/1
WT
SHEET 1 OF 1

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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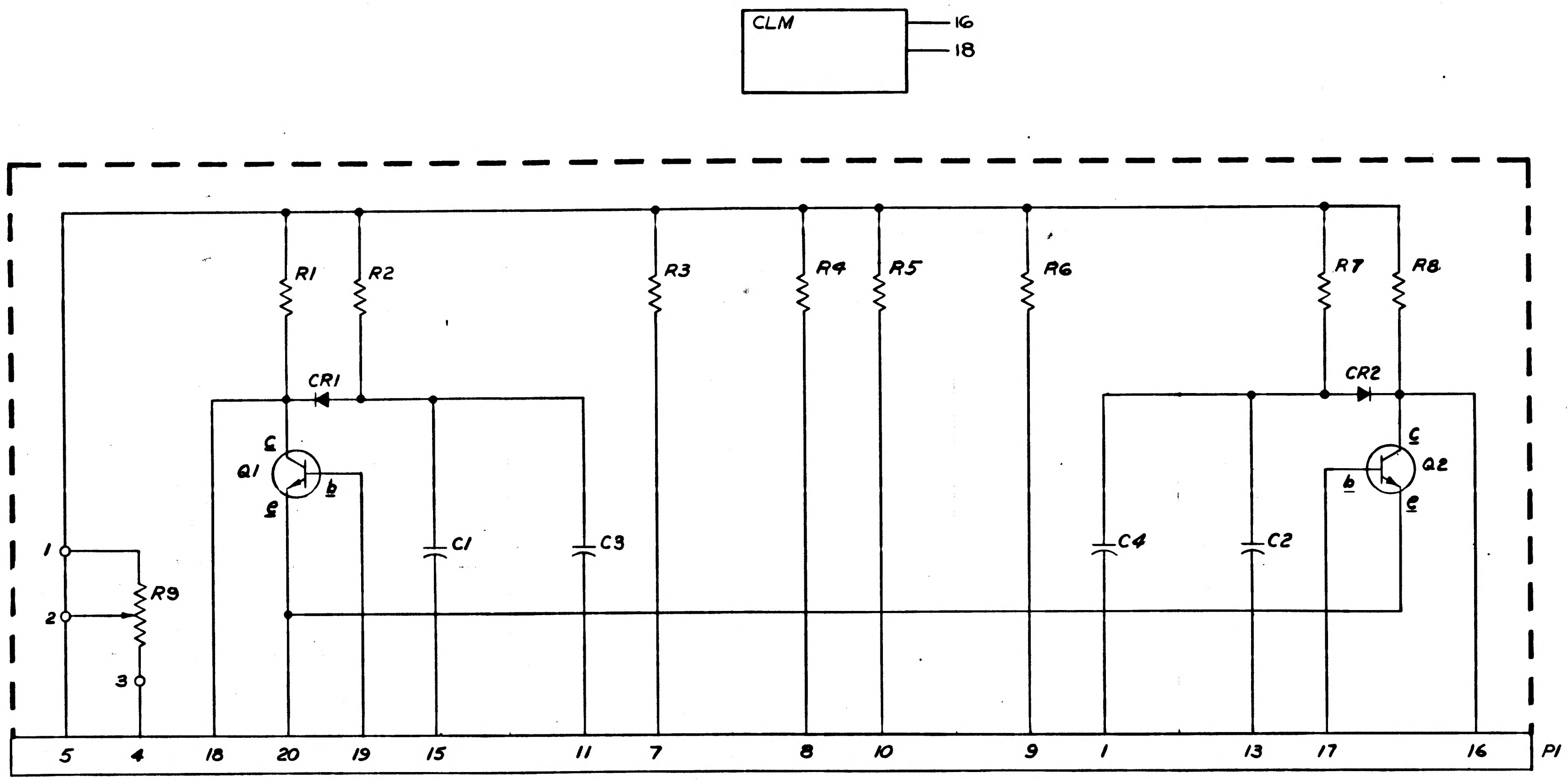
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		



FREQ	PINS		B+ 10VDC PIN
60CPS	17,8,11	19,10,1	4
125 KC MIN	17,7,15	19,13,9	5

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO 02386 DATE 7 Aug 63

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
C1	1006867	CAPACITOR	1500UUF	±5%	
C2	1006867		1500UUF	±5%	
C3	1006866		1.0UF	±10%	
C4	1006866	CAPACITOR	1.0UF	±10%	
CR1	1006751	DIODE			
CR2	1006751	DIODE			
P1	1014324	CONN			
Q1	1006752	TRANSISTOR			
Q2	1006752	TRANSISTOR			
R1	1006750-39	RESISTOR	2K	±2%	1/4W
R2	1006750-56		10K	±2%	1/4W
R3	1006750-63		20K	±2%	1/4W
R4	1006750-78		82K	±2%	1/4W
R5	1006750-78		82K	±2%	1/4W
R6	1006750-63		20K	±2%	1/4W
R7	1006750-56		10K	±2%	1/4W
R8	1006750-39	RESISTOR	2K	±2%	1/4W
R9	1006864	TRIM POT	1K	±20%	1/2W

NOTES
1. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX EACH REFERENCE DESIGNATION WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH

REF DRAWING
MECHANICAL ASSEMBLY 1014226

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN W.T. Mills DATE 4 MAY 63
CHECKED R. Pirrone 11 JUN 63
APPROVAL C Sperling
APPROVAL
APPROVAL
NASA APPROVAL 8/7/63
MIT APPROVAL George J 8/7/63
MIT APPROVAL 6 Aug 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CLOCK MODULE
SCHEMATIC DIAGRAM

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014328
SCALE NONE WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014328

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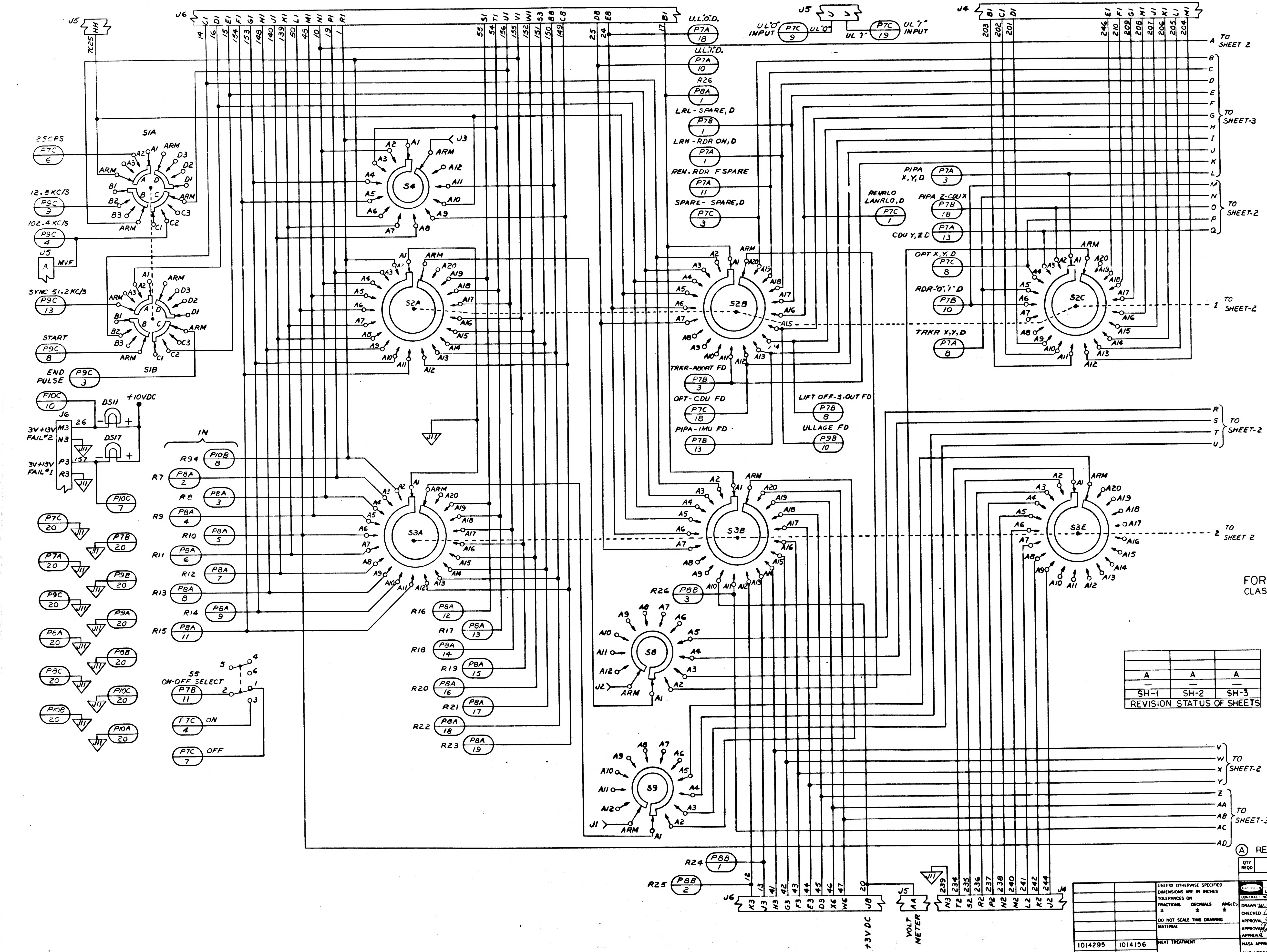
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	REPLACED WITH CHANGE BY REV B PER TDRR 05242 NWM		



J6
14 C1
16 D1
15 E1
154 F1
153 G1
148 H1
140 J1
139 K1
50 L1
48 M1
10 N1
19 P1
1 R1
55 S1
54 T1
156 U1
155 V1
152 W1
151 B3
150 B8
149 C8
25 D8
24 E8
17 B1
J5 HH
7C25
U.L."O".D.
P7A 18
U.L."I".D.
P7A 10
R26
P8A 1
LRL - SPARE, D
P7B 1
LRH - RDR ON, D
P7A 1
REN. RDR F SPARE
P7A 11
SPARE - SPARE, D
P7C 3
J5
UL"O" INPUT
P7C 9
UL"O"
UL"I"
P7C 19
UL"I" INPUT
J4
203 B1
202 C1
201 D1
246 E1
210 F1
209 G1
208 H1
207 J1
206 K1
205 L1
204 M1
TO SHEET 2
TO SHEET-3
TO SHEET-2
A B C D E F G H I J K L M N O P Q
S1A
25 CPS
P7C 6
12.8 KC/S
P9C 9
102.4 KC/S
P9C 4
J5 A MVF
SYNC 51.2 KC/S
P9C 13
START
P9C 8
END PULSE
P9C 3
S1B
ARM
S4
J3
S2A
S2B
S2C
PIPA X,Y,D
P7A 3
PIPA Z-CDU X
P7B 18
P7A 13
CDU Y, Z D
REN-RLO LANRLO, D
P7C 1
OPT X,Y,D
P7C 8
RDR-"O","I"-D
P7B 10
TRKR X,Y,D
P7A 8
TRKR-ABORT FD
P7B 3
OPT-CDU FD
P7C 18
PIPA-IMU FD
P7B 13
LIFT OFF-S.OUT FD
P7B 8
ULLAGE FD
P9B 10
1 TO SHEET-2
R S T U TO SHEET-2
P10C 10
+10VDC
DS11
DS17
J6
26
3V+13V FAIL #2
M3
N3
3V+13V FAIL #1
P3
157
R3
P10C 7
J11
IN
R94 P10B 8
R7 P8A 2
R8 P8A 3
R9 P8A 4
R10 P8A 5
R11 P8A 6
R12 P8A 7
R13 P8A 8
R14 P8A 9
R15 P8A 11
S3A
S3B
S3E
2 TO SHEET 2
R16 P8A 12
R17 P8A 13
R18 P8A 14
R19 P8A 15
R20 P8A 16
R21 P8A 17
R22 P8A 18
R23 P8A 19
R26 P8B 3
S8
J2
S9
J1
P7C 20
P7B 20
P7A 20
P9B 20
P9C 20
P9A 20
P8A 20
P8B 20
P8C 20
P10C 20
P10B 20
P10A 20
S5 ON-OFF SELECT
P7B 11
P7C 4 ON
P7C 7 OFF
V W X Y TO SHEET-2
Z AA AB AC AD TO SHEET-3
R24 P8B 1
R25 P8B 2
J6
12 K3
13 J3
41 H3
42 G3
43 F3
44 E3
45 D3
46 X6
47 W6
20 U8
+3 VDC
J5 AA
VOLT METER
239 N3
234 T2
235 S2
236 R2
237 P2
238 N2
240 M2
241 L2
242 K2
244 J2
J4

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE 7 Aug 63

A	A	A
—	—	—
SH-1	SH-2	SH-3

REVISION STATUS OF SHEETS

Ⓐ REPLACED WITH CHANGE BY REV B

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014295	1014156
NEXT ASSY	USED ON
APPLICATION	

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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9 498
DRAWN W. J. Mills DATE 4/31/63
CHECKED
APPROVAL C Spirlin
APPROVAL 7/29/63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SYSTEM INTERFACE

SCHEMATIC

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014329
SCALE NONE
WT
SHEET 1 OF 3

1014329

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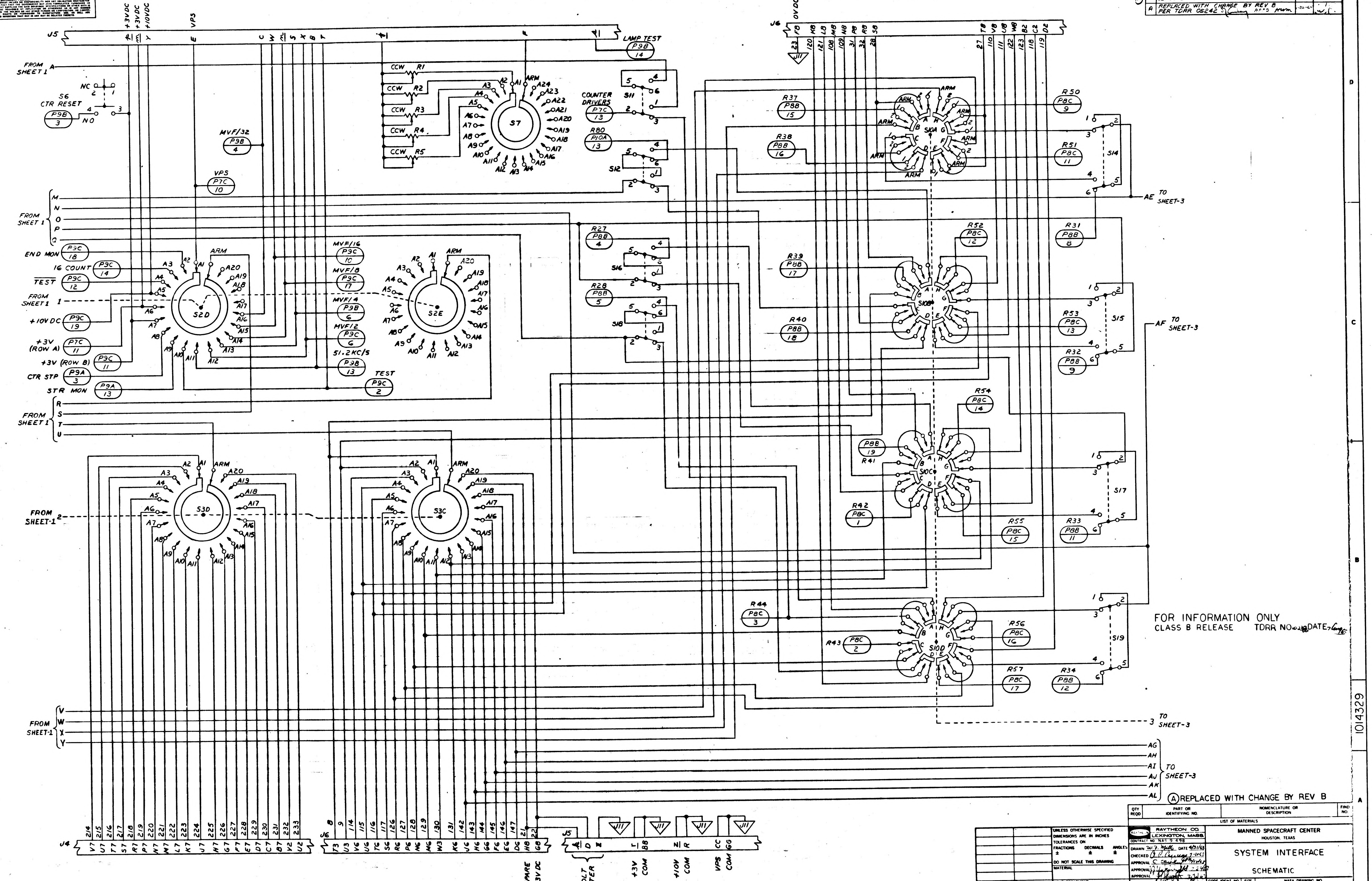
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	REPLACED WITH CHANGE BY REV B PER TDRR 05242 APP'D	-20-64	


J5
+3VDC
+3VDC
+10VDC
VPS
LAMP TEST
P9B 14
FROM SHEET 1 A
NC
S6 CTR RESET
P9B 3
NO
S7
CCW R1
CCW R2
CCW R3
CCW R4
CCW R5
ARM
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 A21 A22 A23 A24
S11
COUNTER DRIVERS P7C 13
R80 P10A 13
S12
MVF/32 P9B 4
VPS P7C 10
FROM SHEET 1 M N O P Q
END MON P9C 18
16 COUNT P9C 14
TEST P9C 12
FROM SHEET 1 1
+10V DC P9C 19
+3V (ROW A) P7C 11
+3V (ROW B) P9C 11
CTR STP P9A 3
STR MON P9A 13
S2D
S2E
MVF/16 P9C 10
MVF/8 P9C 17
MVF/4 P9B 6
MVF/2 P9C 6
51.2KC/S P9B 13
TEST P9C 2
R27 P8B 4
R28 P8B 5
S16
S18
FROM SHEET 1 R S T U
FROM SHEET-1 2
S3D
S3C
J6
0VDC
S10A
S10B
S10C
S10D
R37 P8B 15
R38 P8B 16
R50 P8C 9
R51 P8C 11
S14
AE TO SHEET-3
R52 P8C 12
R31 P8B 8
R39 P8B 17
R40 P8B 18
R53 P8C 13
S15
AF TO SHEET-3
R32 P8B 9
R54 P8C 14
P8B 19 R41
S17
R42 P8C 1
R55 P8C 15
R33 P8B 11
R44 P8C 3
R43 P8C 2
R56 P8C 16
S19
R57 P8C 17
R34 P8B 12
3 TO SHEET-3
FROM SHEET-1 V W X Y
AG AH AI AJ AK AL TO SHEET-3
J4
J6
J5
SPARE
+13V DC
VOLT METER
+3V COM
+10V COM
VPS COM

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CLASS B RELEASE TDRR NO. DATE

Ⓐ REPLACED WITH CHANGE BY REV B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014295	1014156
NEXT ASSY	USED ON

APPLICATION

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9 498
DRAWN W.7. Mills DATE 4/31/63
CHECKED 7-10-63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SYSTEM INTERFACE

SCHEMATIC

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014329
SCALE NONE
WT
SHEET 2 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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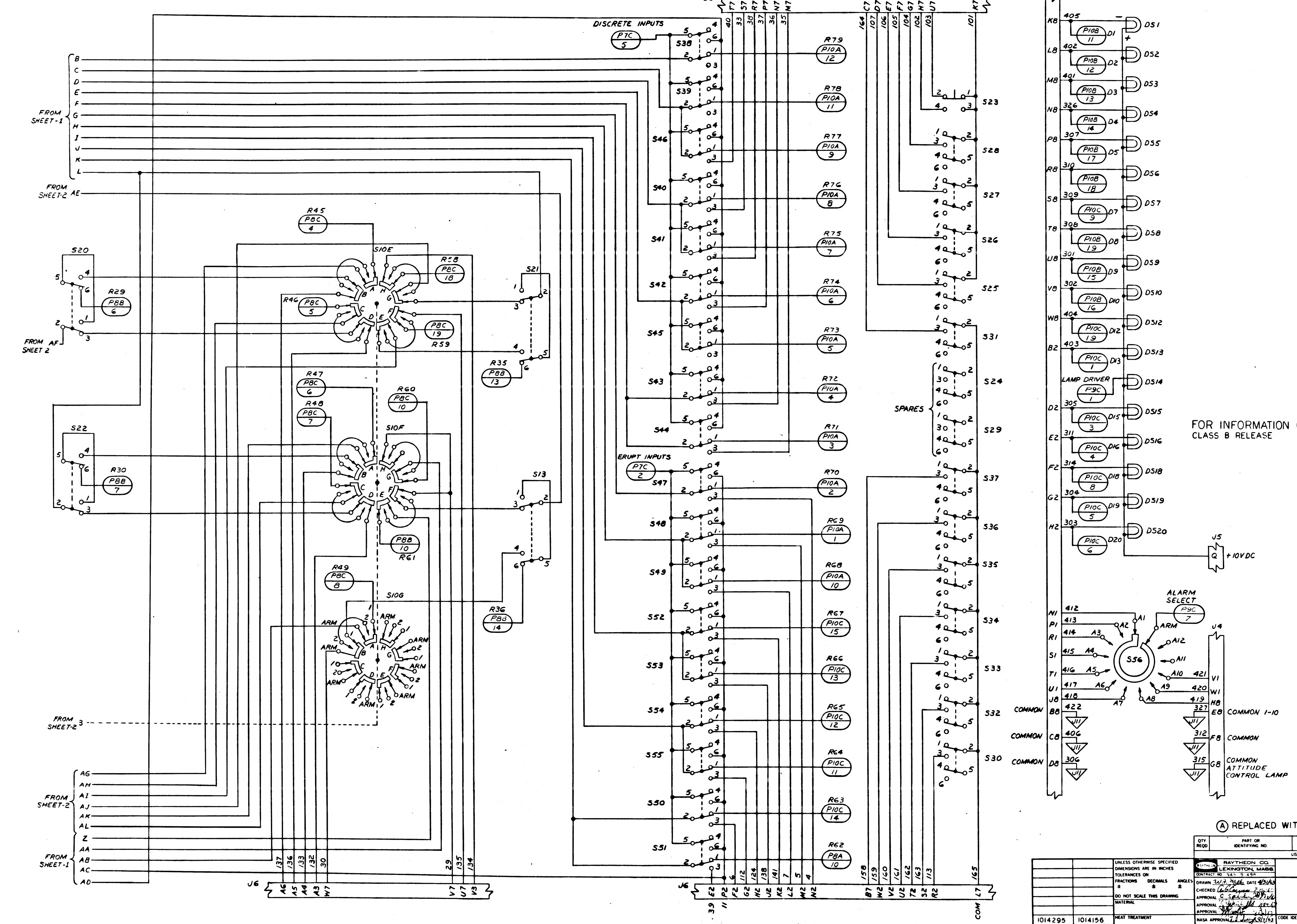
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	REPLACED WITH CHANGE BY REV B PER TDRR 05242		



5
4
3
2
1
D
C
B
A
J6
J4
J5
DISCRETE INPUTS
ERUPT INPUTS
FROM SHEET-1
FROM SHEET-2
FROM SHEET-2 AE
FROM AF SHEET 2
FROM SHEET-2 3
B
C
D
E
F
G
H
I
J
K
L
AG
AH
AI
AJ
AK
AL
Z
AA
AB
AC
AD
S38
S39
S46
S40
S41
S42
S45
S43
S44
S47
S48
S49
S52
S53
S54
S55
S50
S51
S20
S21
S22
S13
S10E
S10F
S10G
S23
S28
S27
S26
S25
S31
S24
S29
S37
S36
S35
S34
S33
S32
S30
SPARES
R79 P10A 12
R78 P10A 11
R77 P10A 9
R76 P10A 8
R75 P10A 7
R74 P10A 6
R73 P10A 5
R72 P10A 4
R71 P10A 3
R70 P10A 2
R69 P10A 1
R68 P10A 10
R67 P10C 15
R66 P10C 13
R65 P10C 12
R64 P10C 11
R63 P10C 14
R62 P8A 10
P7C 5
P7C 2
R45 P8C 4
R58 P8C 18
R46 P8C 5
R59 P8C 19
R47 P8C 6
R48 P8C 7
R60 P8C 10
R61 P8B 10
R49 P8C 8
R29 P8B 6
R30 P8B 7
R35 P8B 13
R36 P8B 14
ARM
COM
DS1
DS2
DS3
DS4
DS5
DS6
DS7
DS8
DS9
DS10
DS12
DS13
DS14
DS15
DS16
DS18
DS19
DS20
LAMP DRIVER P9C 1
+10VDC
ALARM SELECT P9C 7
S56
COMMON
COMMON 1-10
COMMON ATTITUDE CONTROL LAMP
J11

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 0232 DATE 1Aug63

Ⓐ REPLACED WITH CHANGE BY REV B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014295	1014156
NEXT ASSY	USED ON

APPLICATION

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9 498
DRAWN W.F. Mills DATE 4/31/63
CHECKED 7-10-63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 8/7/63
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

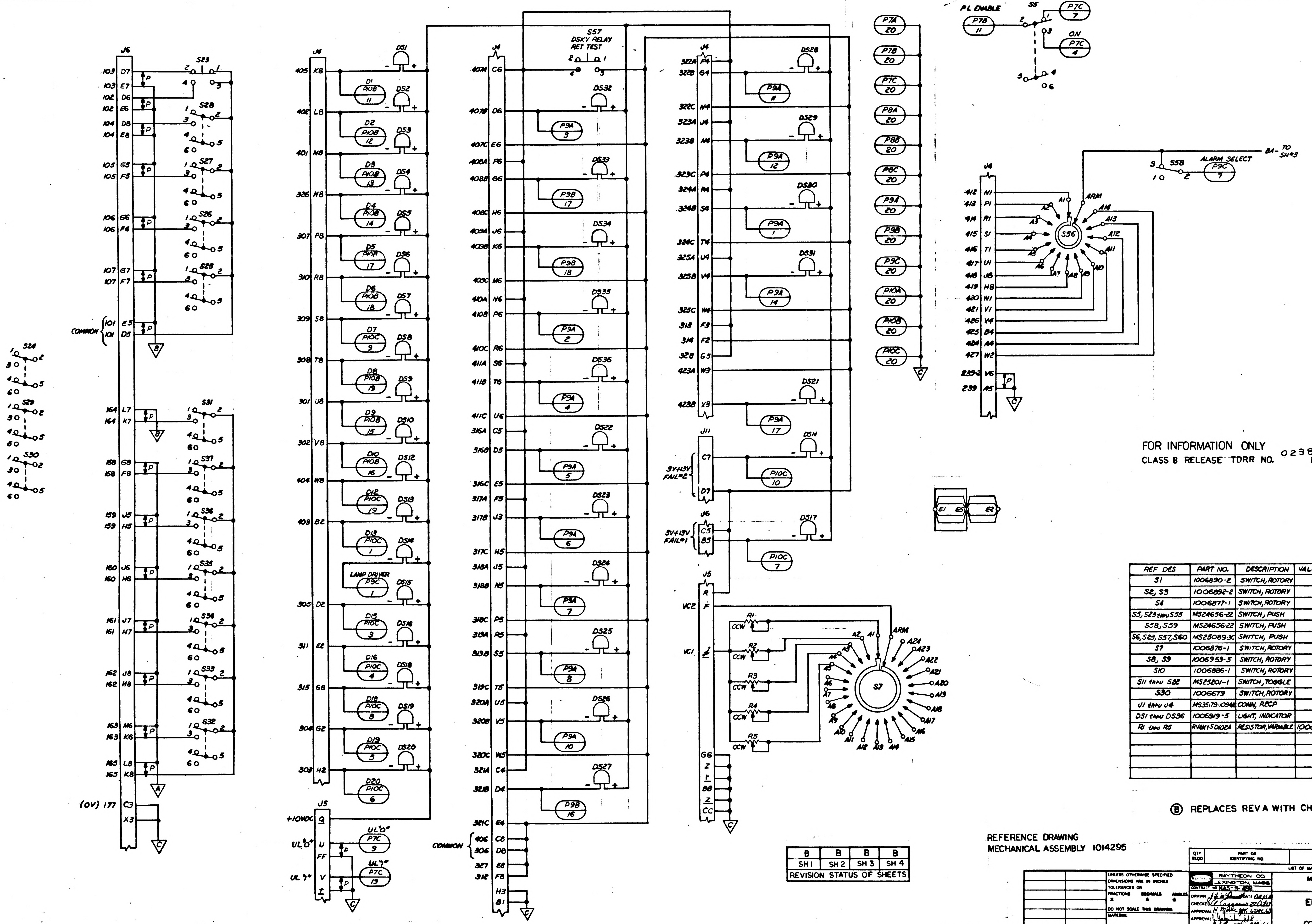
SYSTEM INTERFACE

SCHEMATIC

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014329
SCALE NONE
WT
SHEET 3 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER TDBR 05242		


J6
J4
J5
J11
S23
S24
S26
S27
S28
S29
S30
S31
S32
S33
S34
S35
S36
S37
COMMON
(OV) 177
+10VDC
UL"0"
UL"1"
P7C 9
P7C 13
LAMP DRIVER
S57
DSKY RELAY
RET TEST
COMMON
PL ENABLE
P7B 11
S5
OFF
P7C 7
ON
P7C 4
S58
ALARM SELECT
P9C 7
BA- TO SH#3
S56
ARM
3V+13V FAIL#2
3V+13V FAIL#1
P10C 10
P10C 7
VC2
VC1
CCW
R1
R2
R3
R4
R5
S7
E1
E2

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02386 DATE 7 AUG 63

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
S1	1006890-2	SWITCH, ROTORY			
S2, S3	1006892-2	SWITCH, ROTORY			
S4	1006877-1	SWITCH, ROTORY			
S5, S23 thru S55	MS24656-22	SWITCH, PUSH			
S58, S59	MS24656-22	SWITCH, PUSH			
S6, S23, S57, S60	MS25089-3C	SWITCH, PUSH			
S7	1006876-1	SWITCH, ROTORY			
S8, S9	1006953-5	SWITCH, ROTORY			
S10	1006886-1	SWITCH, ROTORY			
S11 thru S22	MS25201-1	SWITCH, TOGGLE			
S30	1006679	SWITCH, ROTORY			
U1 thru U4	MS35179-1094A	CONN, RECP			
DS1 thru DS36	1006919-5	LIGHT, INDICATOR			
R1 thru R5	RVANYSD102A	RESISTOR, VARIABLE	1000Ω	±10%	2W

Ⓑ REPLACES REV A WITH CHANGE

REFERENCE DRAWING
MECHANICAL ASSEMBLY 1014295

B	B	B	B
SH 1	SH 2	SH 3	SH 4

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

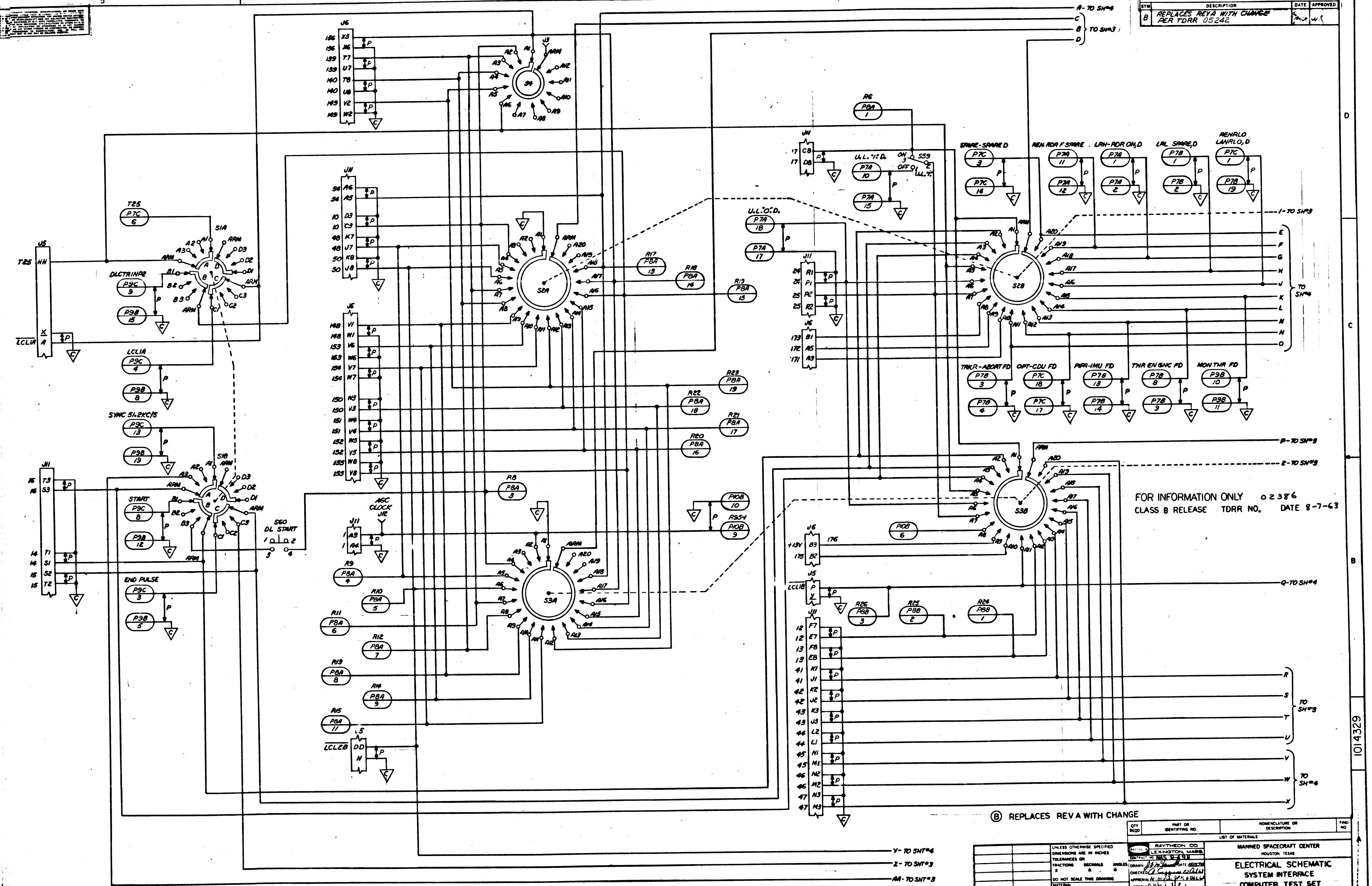
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-4[illegible]
DRAWN [illegible] DATE Oct 15 [illegible]
CHECKED A Capparo 22 Oct [illegible]
APPROVAL H. Mille 6 DEC 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL W[illegible] 20 Jan 64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ELECTRICAL SCHEMATIC
SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO —— SIZE J NASA DRAWING NO 1014329
SCALE NONE WT SHEET 1 OF 4

SYM	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER TDRR 05242		



A - TO SH#4
C
B - TO SH#3
D
J6
J4
J5
J11
S1A
S1B
S2A
S2B
S3A
S3B
S4
S59
S60 DL START
T25
DLCTRINP2
LCL1A
SYNC 51.2KC/S
START
END PULSE
LCL2B
LCL1B
ASC CLOCK J12
U.L."I".D.
U.L."O".D.
ON
OFF
SPARE-SPARE D
REN. RDR F SPARE
LRH-RDR ON, D
LRL SPARE, D
RENRLO LANRLO, D
TRKR-ABORT FD
OPT-CDU FD
PIPA-IMU FD
THR ENGNC FD
MON THR FD
1 - TO SH#3
P - TO SH#3
2 - TO SH#3
Q - TO SH#4
E
F
G
H
J
K
L
M
N
O
TO SH#4
R
S
T
U
TO SH#3
V
W
X
TO SH#4
Y - TO SHT#4
Z - TO SHT#3
AA - TO SHT#3
+13V
ARM

FOR INFORMATION ONLY 02386
CLASS B RELEASE TDRR NO. DATE 8-7-63

Ⓑ REPLACES REV A WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

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FRACTIONS ± DECIMALS ± . ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

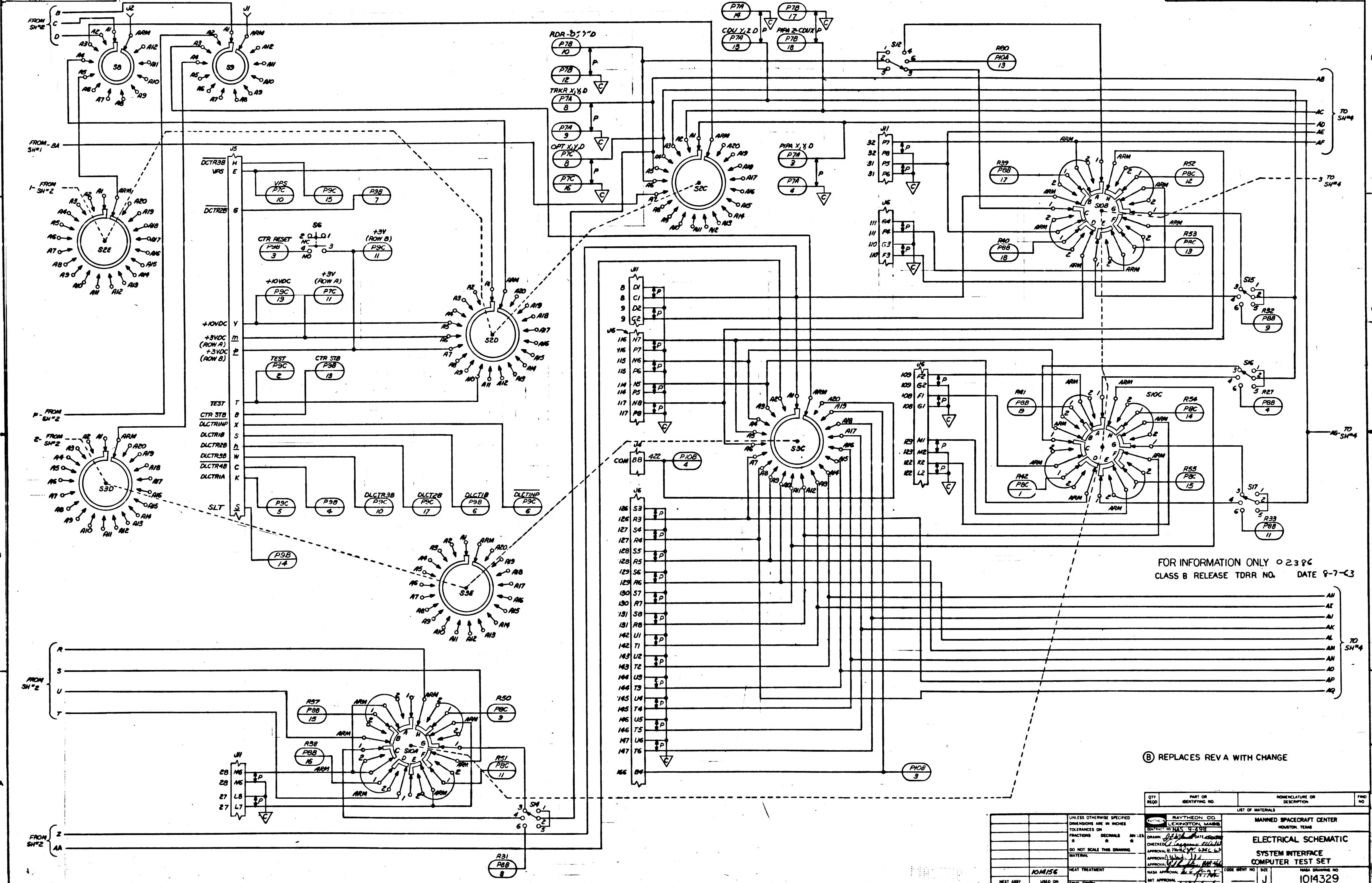
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN J F McKenna DATE 4 OCT 63
CHECKED A Cuggino 22 Oct 63
APPROVAL H. M... JPK 6 DEC 63
APPROVAL
APPROVAL
NASA APPROVAL 1/21/64
MIT APPROVAL
MIT APPROVAL 20 Jan 64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ELECTRICAL SCHEMATIC
SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO —— SIZE J NASA DRAWING NO 1014329
SCALE NONE WT SHEET 2 OF 4

SYM	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER TDRR 05242		


FROM SH#2
J2
J1
ARM
S8
S9
FROM-8A SH#1
FROM SH#2
S2E
S2D
S2C
S3D
S3E
S3C
S10A
S10B
S10C
S6
S12
S14
S15
S16
S17
J5
J6
J11
J4
DCTR3B
VPS
DCTR2B
CTR RESET
+3V (ROW B)
+10VDC
+3V (ROW A)
TEST
CTR STB
DLCTRINP
DLCTR1B
DLCTR2B
DLCTR3B
DLCTR4B
DLCTR1A
SLT
RDR-X,Y,D
TRKR X,Y,D
OPT X,Y,D
CDU Y,Z D
PIPA Z-CDUX
PIPA X,Y,D
COM
R80
R39
R40
R52
R53
R41
R42
R54
R55
R32
R27
R33
R57
R58
R50
R51
R31
TO SH#4
FROM SH#2

FOR INFORMATION ONLY 02386
CLASS B RELEASE TDRR NO. DATE 8-7-63

Ⓑ REPLACES REV A WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
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DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

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LEXINGTON, MASS
CONTRACT NO NAS 9-498
DRAWN
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

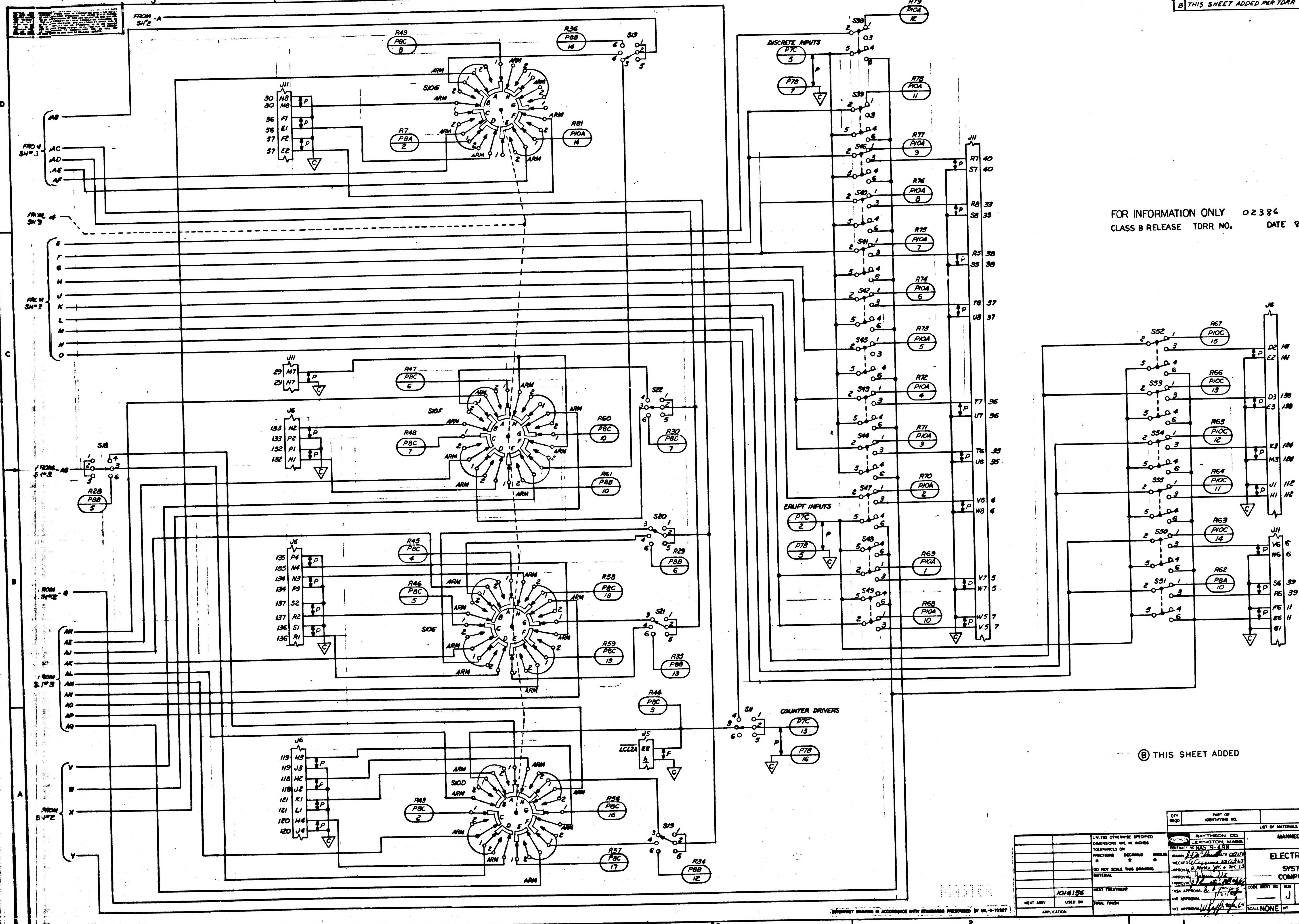
ELECTRICAL SCHEMATIC

SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO — SIZE J NASA DRAWING NO 1014329
SCALE NONE WT SHEET 3 OF 4

1014329

SYM	DESCRIPTION	DATE	APPROVED
B	THIS SHEET ADDED PER TDRR 05242		



FROM -A SH 2
FROM SH 3
FROM SH 2
FROM SH 3
R49 P8C 8
R36 P8B 14
S13
S10B
J11
R7 P8A 2
R81 P10A 14
DISCRETE INPUTS
P7C 5
P7B 7
S38
S39
S40
S41
S42
S43
S44
S45
S46
S47
S48
S49
R79 P10A 12
R78 P10A 11
R77 P10A 9
R76 P10A 8
R75 P10A 7
R74 P10A 6
R73 P10A 5
R72 P10A 4
R71 P10A 3
R70 P10A 2
R69 P10A 1
R68 P10A 10
ERUPT INPUTS
P7C 2
P7B 5
S10F
R47 P8C 6
R48 P8C 7
R60 P8C 10
R61 P8B 10
S22
R30 P8C 7
S18
R28 P8B 5
S10E
R45 P8C 4
R46 P8C 5
R58 P8C 18
R59 P8C 13
S20
R29 P8B 6
S21
R35 P8B 13
S10D
R43 P8C 2
R56 P8C 16
R57 P8C 17
S19
R34 P8B 12
R44 P8C 9
S11
COUNTER DRIVERS
P7C 13
P7B 16
J5
LCL2A
J6
S52
S53
S54
S55
S50
S51
R67 P10C 15
R66 P10C 13
R65 P10C 12
R64 P10C 11
R63 P10C 14
R62 P8A 10
ARM

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CLASS B RELEASE TDRR NO. DATE 8-7-63

Ⓑ THIS SHEET ADDED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
	1014156

APPLICATION

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN J. F. McDonald DATE Oct 1963
CHECKED [illegible] 22 Oct 63
APPROVAL H. Myra Jan 6 Dec 63
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible] 1/21/64
MIT APPROVAL
MIT APPROVAL [illegible] 64

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ELECTRICAL SCHEMATIC
SYSTEM INTERFACE COMPUTER TEST SET

CODE IDENT NO —— SIZE J NASA DRAWING NO 1014329
SCALE NONE WT SHEET 4 OF 4

MASTER

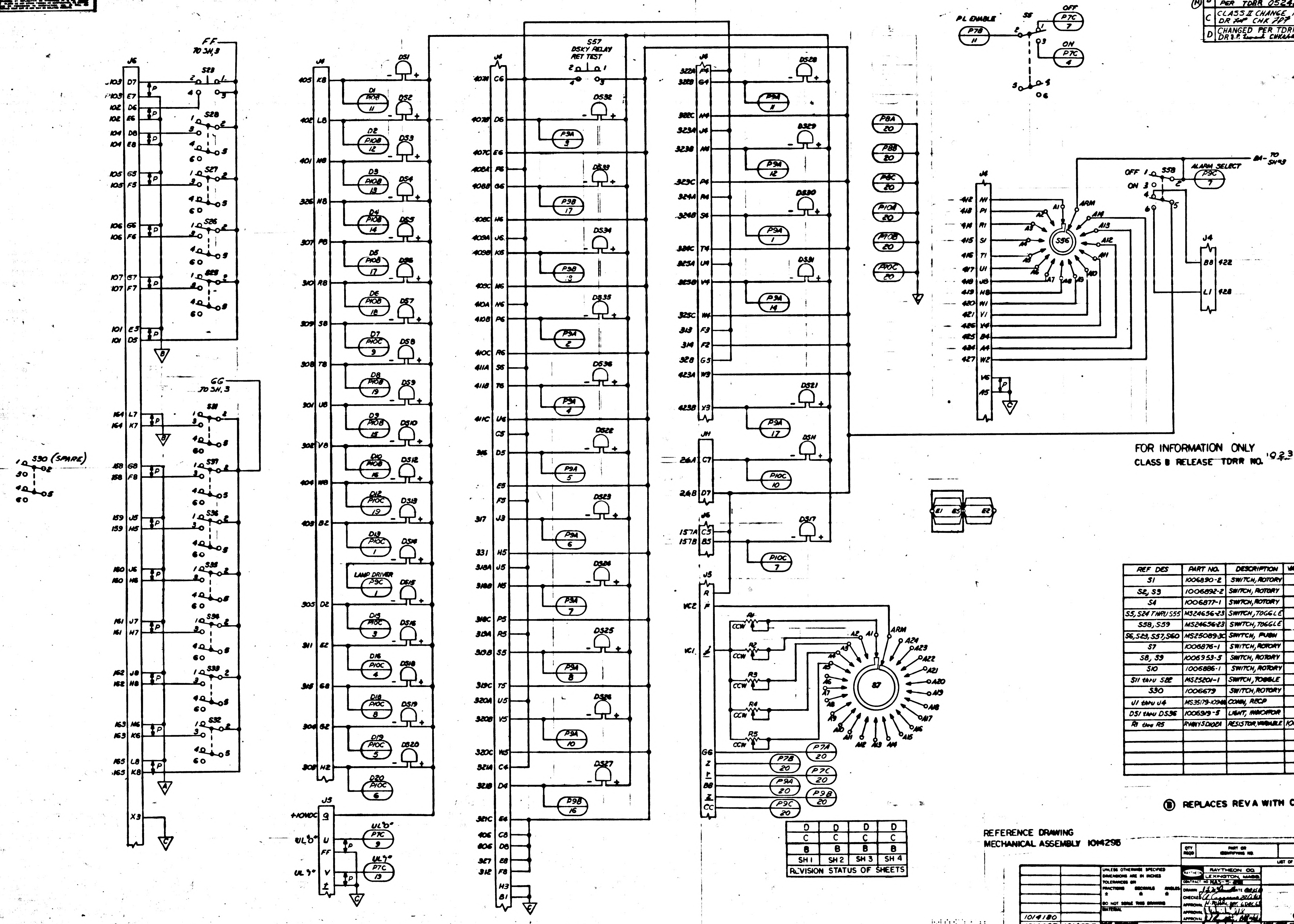
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014329

1014329

C32A101

SYM	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER TDRR 05242		
C	CLASS II CHANGE PER RD R5792 DR [illegible] CHK [illegible] APPD [illegible]		
D	CHANGED PER TDRR 07349 DR [illegible] CHK [illegible] APPD [illegible]	[illegible] 64	



FOR INFORMATION ONLY
CLASS II RELEASE TDRR NO. 02386 DATE 7 AUG 68

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
S1	1006890-2	SWITCH, ROTORY			
S2, S3	1006892-2	SWITCH, ROTORY			
S4	1006877-1	SWITCH, ROTORY			
S5, S24 THRU S55	MS24656-23	SWITCH, TOGGLE			
S58, S59	MS24656-23	SWITCH, TOGGLE			
S6, S23, S57, S60	MS25089-3C	SWITCH, PUSH			
S7	1006876-1	SWITCH, ROTORY			
S8, S9	1006953-5	SWITCH, ROTORY			
S10	1006886-1	SWITCH, ROTORY			
S11 thru S22	MS25201-1	SWITCH, TOGGLE			
S30	1006679	SWITCH, ROTORY			
J1 thru J4	MS35179-109[illegible]	CONN, RECP			
DS1 thru DS36	1006919-5	LIGHT, INDICATOR			
R1 thru R5	RV4NYSD102A	RESISTOR, VARIABLE	1000Ω	±10%	2W

Ⓑ REPLACES REV A WITH CHANGE

D	D	D	D
C	C	C	C
B	B	B	B
SH 1	SH 2	SH 3	SH 4

REVISION STATUS OF SHEETS

REFERENCE DRAWING
MECHANICAL ASSEMBLY 1014295

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014180	
1014237	1014295

APPLICATION

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MATERIAL
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CONTRACT NO NAS-9-[illegible]
DRAWN [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL
MIT APPROVAL [illegible]

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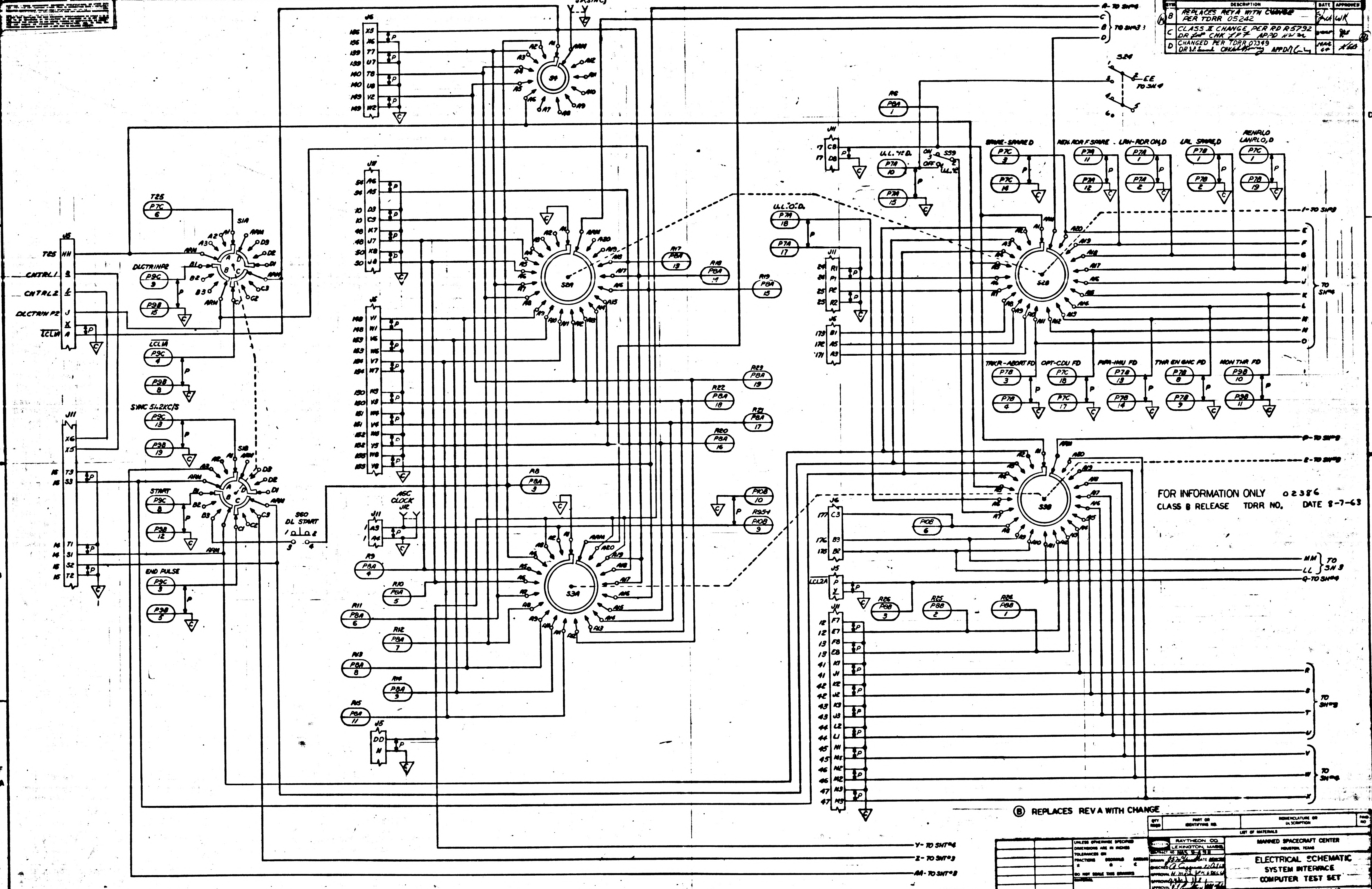
HOUSTON, TEXAS

ELECTRICAL SCHEMATIC
SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014329
SCALE NONE
WT
SHEET 2 OF 4

SYM	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER TDRR 05242		WK
C	CLASS II CHANGE PER RD R5792 DR CHK APPD		
D	CHANGED PER TDRR 07349 DR CHK APPD	MAR 64	



J9 (SYNC)
A - TO SHT 4
C
B } TO SHT 3
D
J6
S4
ARM
S2A
S2B
S3A
S3B
S1A
S1B
J8
J11
J5
J4
J12
T25
CNTRL1
CNTRL2
DLCTRINP2
LCL1A
DLCTRINP2
SYNC SL2XC/S
START
END PULSE
S60 DL START
ASC CLOCK
P7C
P8A
P9C
P9B
P10B
P7A
P7B
P8B
S24
EE TO SH 4
S39
U.L. "0" ON
OFF
U.L. "0" D
BRKE-SPARE D
REN RDR F SPARE - LRN-RDR ON, D
LRL SPARED
RENDLO LRNRLO, D
TRKR-ABORT FD
OPT-CDU FD
PIPA-IMU FD
THR EN GNC FD
MON THR FD
1 - TO SHT 8
E
F
G
H
J
K
L
M
N
O
TO SH 9
P - TO SHT 8
E - TO SHT 8
MM
LL } TO SH 9
Q - TO SHT 8
LCL2A
R
S
T
U
TO SHT 9
V
W
X
TO SHT 8
Y - TO SHT 4
Z - TO SHT 3
AA - TO SHT 3
P

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CLASS B RELEASE TDRR NO. DATE 8-7-63

Ⓑ REPLACES REV A WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
	1014135

APPLICATION

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DIMENSIONS ARE IN INCHES
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MATERIAL
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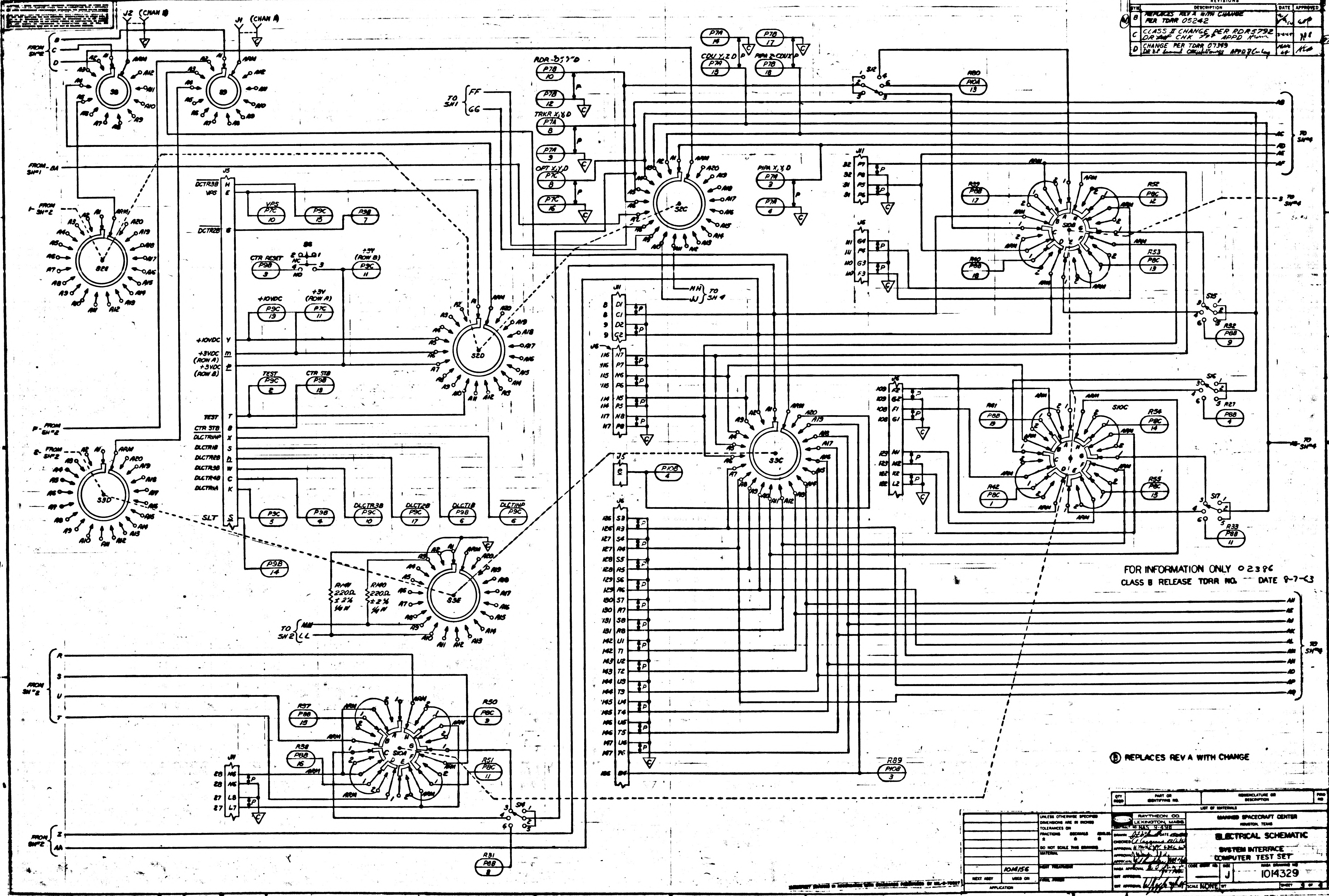
ELECTRICAL SCHEMATIC
SYSTEM INTERFACE
COMPUTER TEST SET

SIZE J
NASA DRAWING NO. 1014329
SCALE NONE
SHEET 2 OF 4

SYM	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER TDRR 05242	[illegible]	[illegible]
C	CLASS II CHANGE PER RDR5792 DR [illegible] CHK [illegible] APPD [illegible]	[illegible]	[illegible]
D	CHANGE PER TDRR 07349 DR [illegible] CHK [illegible] APPD [illegible]	MAR 64	[illegible]


J2 (CHAN B)
J1 (CHAN A)
FROM SH#2
FROM SH#1
TO SH1
FF
GG
S3
S3D
S3E
S3C
S2C
S2D
S2E
S10A
S10B
S10C
S12
S14
S15
S16
S17
J5
J6
J11
DCTR3B
VPS
DCTR2B
+10VDC
+3VDC (ROW A)
+3VDC (ROW B)
TEST
CTR STB
DLCTRINP
DLCTR1B
DLCTR2B
DLCTR3B
DLCTR4B
DLCTR4A
SLT
CTR RESET
+10VDC
+3V (ROW A)
+3V (ROW B)
R141 220Ω ±2% 1/4W
R140 220Ω ±2% 1/4W
TO SH 2
MM
LL
NN TO SH 4
JJ
TO SH#4
RDR-X,Y,Z D
TRKR X,Y,D
OPT X,Y,D
CDU X,Z,D
PIPA Z-CDU X
PIPA X,Y D
R29
R30
R31
R32
R33
R27
R39
R40
R41
R42
R50
R51
R52
R53
R54
R55
R57
R58
R80
R89
ARM
AB
AC
AD
AE
AF
AH
AJ
AK
AL
AM
AN
AO
AP
AQ
R
S
U
T
Z
AA

FOR INFORMATION ONLY 02386
CLASS II RELEASE TDRR NO. — DATE 8-7-63

Ⓑ REPLACES REV A WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
	1014156

APPLICATION

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MATERIAL
HEAT TREATMENT
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CONTRACT NO NAS 9-498
DRAWN [illegible] DATE
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL
APPROVAL
NASA APPROVAL
GMT APPROVAL
GMT APPROVAL

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HOUSTON, TEXAS

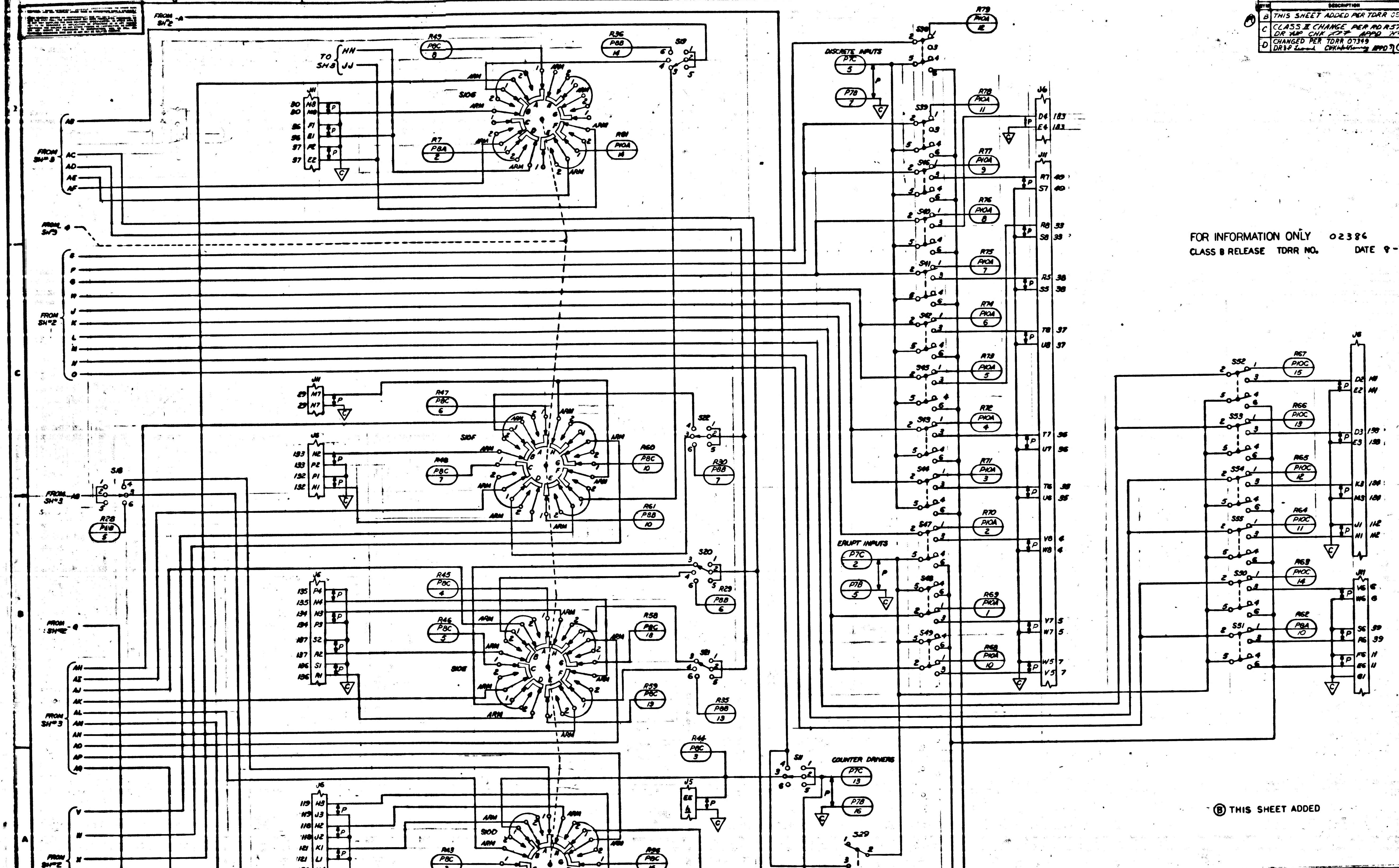
ELECTRICAL SCHEMATIC

SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014329
SCALE NONE WT SHEET 3 OF 4

SYM	DESCRIPTION	DATE	APPROVED
B	THIS SHEET ADDED PER TDRR 05242		
C	CLASS II CHANGE PER RD R5792 DR YAP CHK APPD NWM		
D	CHANGED PER TDRR 07349 DR J.P Leonard CHK APPD	64	

FOR INFORMATION ONLY 02386
CLASS B RELEASE TDRR NO. DATE 9-7-63



FROM SH 2
TO SH 8
HH
JJ
FROM SH 3
AB
AC
AD
AE
AF
FROM SH 3
FROM SH 2
E
F
G
H
J
K
L
M
N
O
FROM SH 3
FROM SH 2
AH
AI
AJ
AK
AL
AM
AN
AO
AP
AQ
FROM SH 2
V
W
X
Y
S10E
S10F
S10E
S10D
ARM
J11
J6
J5
J4
P
C
S18
S19
S20
S21
S22
S38
S39
S40
S41
S42
S43
S44
S45
S46
S47
S48
S49
S29
S30
S51
S52
S53
S54
S55
S11
DISCRETE INPUTS
ERUPT INPUTS
COUNTER DRIVERS
R79
P10A
R78
R77
R76
R75
R74
R73
R72
R71
R70
R69
R68
R67
P10C
R66
R65
R64
R63
R62
R49
P8C
R36
P8B
R7
P8A
R81
P10A
R47
R48
R60
R61
R30
R28
P10B
R45
R46
R58
R29
R59
R35
R44
R43
R56
R57
R34
P7C
P7B
EE
TO SH 2

Ⓑ THIS SHEET ADDED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

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TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
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MATERIAL
HEAT TREATMENT
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RAYTHEON CO.
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CONTRACT NO NAS 9-498
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APPROVAL
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ELECTRICAL SCHEMATIC
SYSTEM INTERFACE
COMPUTER TEST SET

CODE IDENT NO. SIZE J NASA DRAWING NO. 1014329
SCALE NONE WT SHEET 4 OF 4

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SYM	DESCRIPTION	DATE	APPROVED
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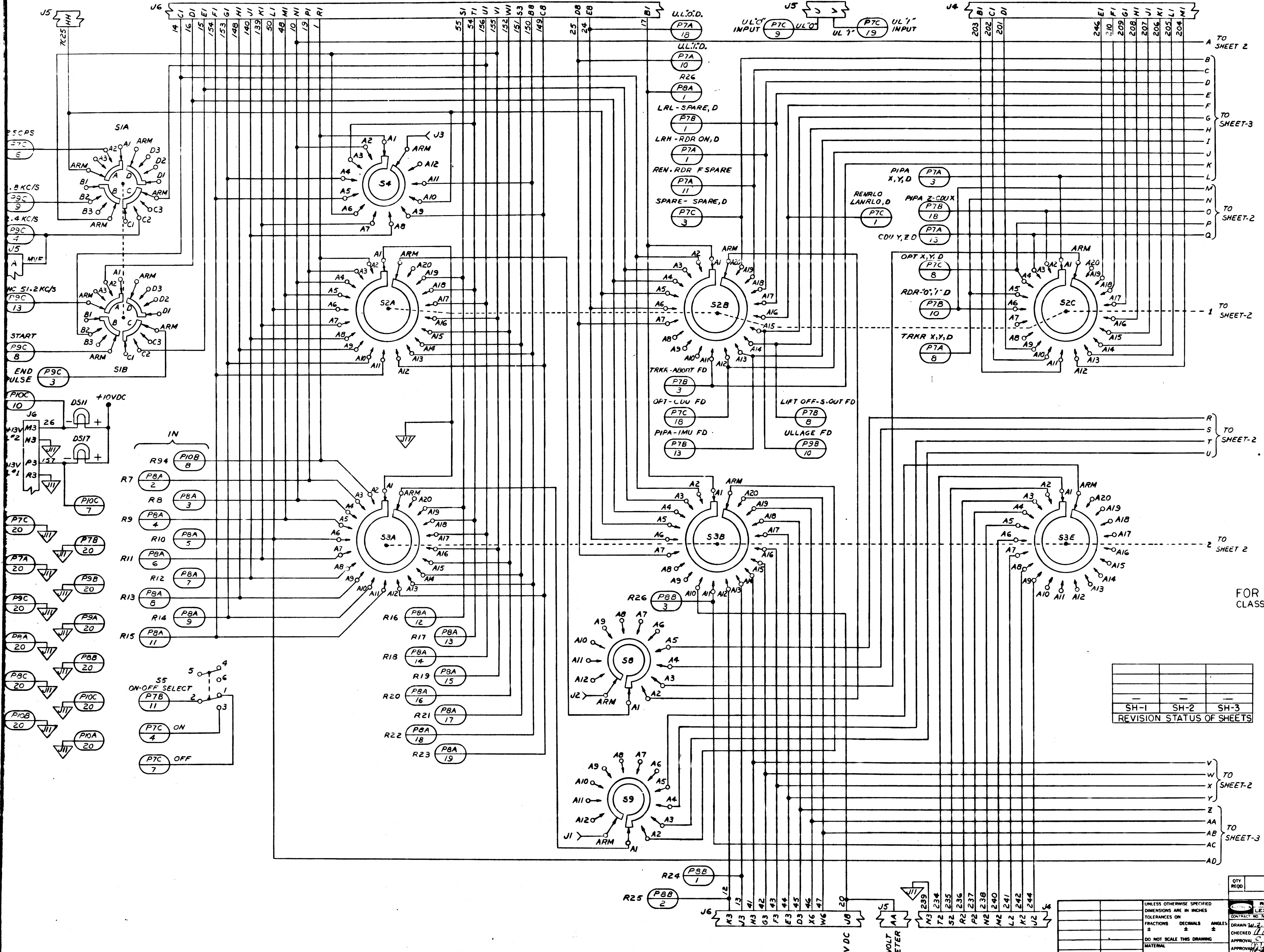
J5
HH
7C25
J6
C1 D1 E1 F1 G1 H1 J1 K1 L1 M1 N1 P1 R1
14 16 15 154 153 148 140 139 50 48 19 1
S1 T1 U1 V1 W1 S3 B8 C8
55 54 156 155 132 151 150 149
D8 E8 B1
25 24 17
U.L."O"D. P7A 18
U.L."I"D. P7A 10
R26 P8A 1
LRL-SPARE, D P7B 1
LRH-RDR ON, D P7A 1
REN. RDR FSPARE P7A 11
SPARE- SPARE, D P7C 3
J5 J V
UL"O" INPUT P7C 9
UL"O"
UL"I"
P7C 19
UL"I" INPUT
J4
B1 C1 D1
203 202 201
E1 F1 G1 H1 J1 K1 L1 M1
246 210 209 208 207 206 205 204
A TO SHEET 2
B C D E F G H I J K L TO SHEET-3
M N O P Q TO SHEET-2
S1A
ARM
A1 A2 A3 D3 D2 D1 B1 B2 B3 C1 C2 C3
A D B C
25CPS P7C 6
.8 KC/S P9C 9
2.4 KC/S P9C 4
J5 A MVF
NC 51.2KC/S P9C 13
START P9C 8
END PULSE P9C 3
S1B
S4
J3
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 ARM
S2A
S2B
S2C
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 ARM
PIPA X,Y,D P7A 3
PIPA Z-CDUX P7B 18
CDU Y,Z D P7A 13
RENRLO LANRLO,D P7C 1
OPT X,Y,D P7C 8
RDR-"O","I"-D P7B 10
TRKR X,Y,D P7A 8
1 TO SHEET-2
TRKR-ABORT FD P7B 3
OPT-CDU FD P7C 18
PIPA-IMU FD P7B 13
LIFT OFF-S.OUT FD P7B 8
ULLAGE FD P9B 10
R S T U TO SHEET-2
P10C 10
J6
26
DS11
+10VDC
+13V #2 M3 N3
DS17
13V #1 P3 R3
J11
P10C 7
IN
R94 P10B 8
R7 P8A 2
R8 P8A 3
R9 P8A 4
R10 P8A 5
R11 P8A 6
R12 P8A 7
R13 P8A 8
R14 P8A 9
R15 P8A 11
P7C 20
P7B 20
P7A 20
P9B 20
P9C 20
P9A 20
P8A 20
P8B 20
P8C 20
P10C 20
P10B 20
P10A 20
S5 ON-OFF SELECT
P7B 11
5 4 6 2 1 3
P7C 4 ON
P7C 7 OFF
S3A
S3B
S3E
2 TO SHEET 2
R16 P8A 12
R17 P8A 13
R18 P8A 14
R19 P8A 15
R20 P8A 16
R21 P8A 17
R22 P8A 18
R23 P8A 19
R26 P8B 3
S8
J2
S9
J1
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 ARM
V W X Y TO SHEET-2
Z AA AB AC AD TO SHEET-3
R24 P8B 1
R25 P8B 2
J6
K3 J3 H3 G3 F3 E3 D3 X6 W6 J8
12 13 41 42 43 44 45 46 47 20
+3VDC
J5 AA
VOLT METER
J11
J4
N3 T2 S2 R2 P2 N2 M2 L2 K2 J2
239 234 235 236 237 238 240 241 242 244

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02386 DATE 7 Aug 63

—	—	—
SH-1	SH-2	SH-3
REVISION STATUS OF SHEETS		

1014329

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014295	1014156
NEXT ASSY	USED ON
APPLICATION	

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CONTRACT NO. NAS 9 498
DRAWN W. J. Mills DATE 4/31/63
CHECKED A. G. Carson
APPROVAL C. Sevelin
APPROVAL 7/29/63
APPROVAL 21 63
NASA APPROVAL 8/2/63
MIT APPROVAL George J. Nielsen
MIT APPROVAL Aug 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SYSTEM INTERFACE

SCHEMATIC

CODE IDENT NO ——— SIZE J NASA DRAWING NO 1014329
SCALE NONE WT SHEET 1 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
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E-2

1014329

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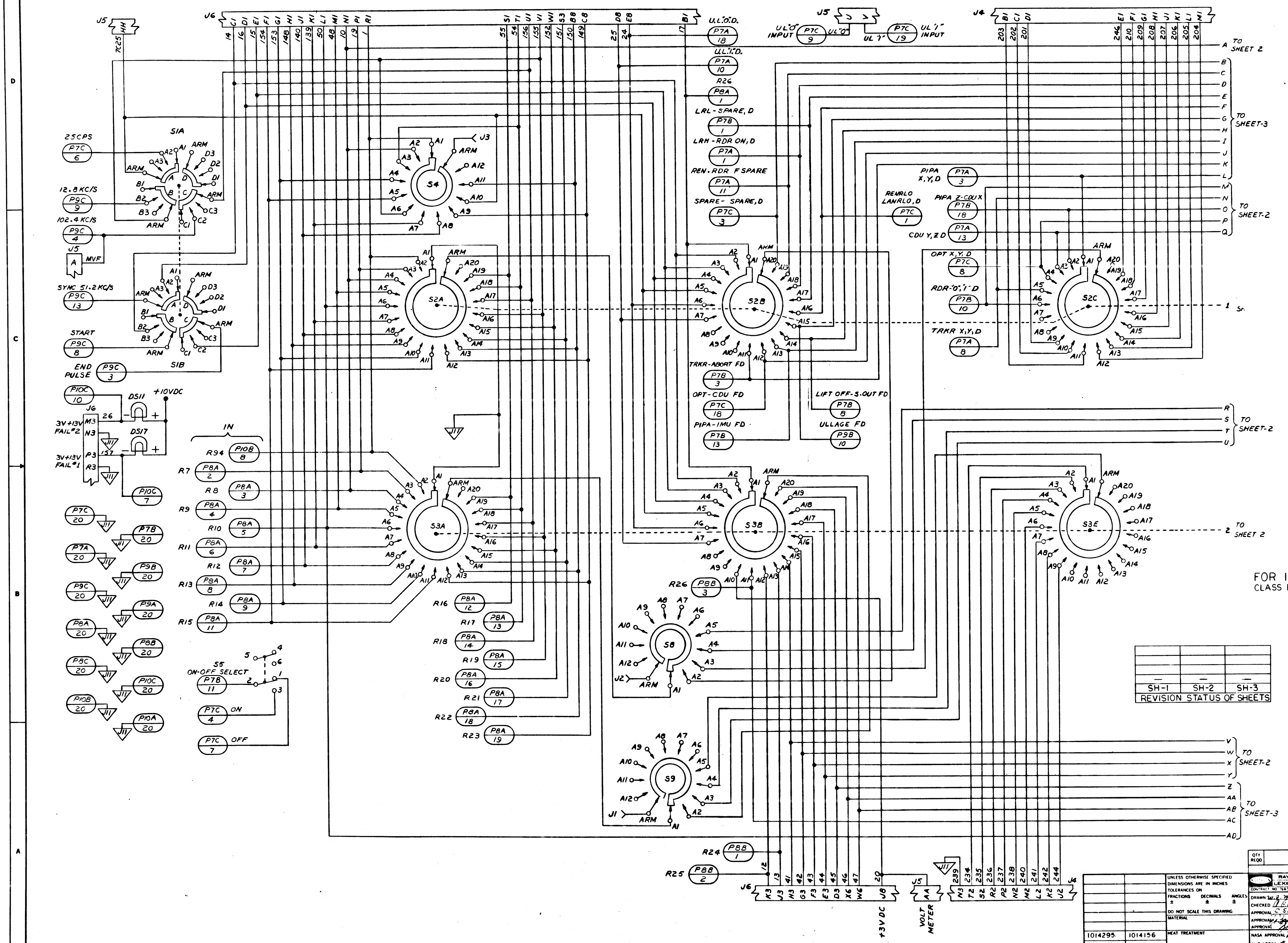
SYM	DESCRIPTION
—	CLASS B RELEASED PER TDRR


J5
HH
7C25
J6
C1 D1 E1 F1 G1 H1 J1 K1 L1 M1 N1 P1 R1
14 16 15 154 153 148 140 139 50 48 10 19 1
S1 T1 V1 W1 S3 B8 C8
55 54 156 155 152 151 150 149
D8 E8
25 24
B1
17
U.L.'O'.D.
P7A 18
U.L.'I'.D.
P7A 10
R26
P8A 1
LRL-SPARE, D
P7B 1
LRH-RDR ON, D
P7A 1
REN. RDR F SPARE
P7A 11
SPARE-SPARE, D
P7C 3
J5
UL'O' INPUT
P7C 9
UL'1' INPUT
P7C 19
J4
B1 C1 D1 E1 F1 G1 H1 J1 K1 L1 N1
203 202 201 246 210 209 208 207 206 205 204
A TO SHEET 2
B C D E F G H I J K L TO SHEET-3
M N O P Q TO SHEET-2
25CPS
P7C 6
12.8KC/S
P9C 9
102.4KC/S
P9C 4
J5 A MVF
SYNC 51.2KC/S
P9C 13
START
P9C 8
END PULSE
P9C 3
S1A
S1B
ARM A1 A2 A3 B1 B2 B3 C1 C2 C3 D1 D2 D3
S4
J3
S2A
S2B
S2C
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 ARM
PIPA X,Y,D
P7A 3
PIPA Z-CDU X
P7B 18
P7A 13
CDU Y,Z D
RENRLO LANRLO, D
P7C 1
OPT X,Y,D
P7C 8
RDR-'0','1'-D
P7B 10
TRKR X,Y,D
P7A 8
TRKR-ABORT FD
P7B 3
OPT-CDU FD
P7C 18
PIPA-IMU FD
P7B 13
LIFT OFF-S.OUT FD
P7B 8
ULLAGE FD
P9B 10
1 SH
P10C 10
DS11
+10VDC
J6
3V+13V FAIL #2
3V+13V FAIL #1
M3 N3 P3 R3
26
157
DS17
J11
P10C 7
P7C 20
P7B 20
P7A 20
P9B 20
P9C 20
P9A 20
P8A 20
P8B 20
P8C 20
P10C 20
P10B 20
P10A 20
IN
R94 P10B 8
R7 P8A 2
R8 P8A 3
R9 P8A 4
R10 P8A 5
R11 P8A 6
R12 P8A 7
R13 P8A 8
R14 P8A 9
R15 P8A 11
S3A
S3B
S3E
R TO SHEET-2
S T U
2 TO SHEET 2
R16 P8A 12
R17 P8A 13
R18 P8A 14
R19 P8A 15
R20 P8A 16
R21 P8A 17
R22 P8A 18
R23 P8A 19
R26 P8B 3
S5 ON-OFF SELECT
P7B 11
P7C 4 ON
P7C 7 OFF
1 2 3 4 5 6
S8
J2
S9
J1
V W X Y TO SHEET-2
Z AA AB AC AD TO SHEET-3
R24 P8B 1
R25 P8B 2
12 13 41 42 43 44 45 46 47
J6
K3 J3 H3 G3 F3 E3 D3 X6 W6 J8
20
+3V DC
J5
AA
VOLT METER
239 234 235 52 236 237 238 240 241 242 244
J4
N3 T2 S2 R2 P2 N2 M2 L2 K2 J2

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO.

—	—	—
SH-1	SH-2	SH-3

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION

LIST OF MATERIALS

1014295	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9 496
DRAWN W.Z. Mills DATE 4/31/63
CHECKED
APPROVAL C Sterling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CE
HOUSTON, TEXAS

SYSTEM INTERF
SCHEMATIC

CODE IDENT NO
SIZE J
NASA DRAW
1014
SCALE NONE
WT

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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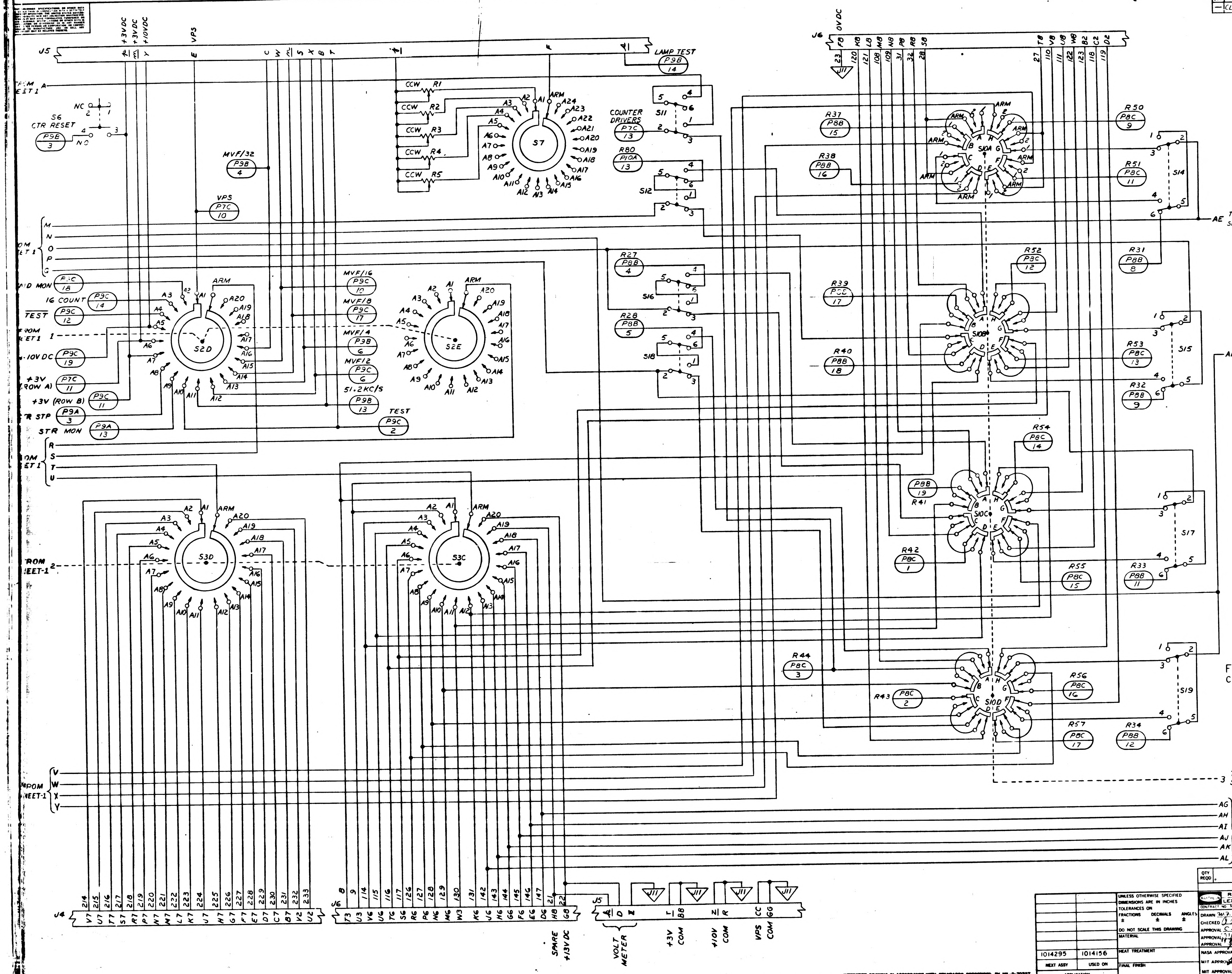
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		


J5
+3VDC
+3VDC
+10VDC
VP5
LAMP TEST
P9B 14
FROM SHEET 1
S6 CTR RESET
NC
NO
P9E 3
CCW R1
CCW R2
CCW R3
CCW R4
CCW R5
S7
ARM
COUNTER DRIVERS
P7C 13
S11
R80 P10A 13
S12
MVF/32 P9B 4
VP5 P7C 10
J6
0VDC
R37 P8B 15
R38 P8B 16
S10A
R50 P8C 9
R51 P8C 11
S14
AE TO SHEET-3
R27 P8B 4
S16
R28 P8B 5
S18
R39 P8C 17
R40 P8B 18
S10B
R52 P8C 12
R31 P8B 8
R53 P8C 13
S15
R32 P8B 9
AF TO SHEET-3
M
N
O
P
Q
AID MON P8C 18
16 COUNT P9C 14
TEST P9C 12
+10VDC P9C 19
+3V (ROW A) P7C 11
P9C 11
+3V (ROW B) P9A 3
STR STP
STR MON P9A 13
S2D
MVF/16 P9C 10
MVF/8 P9C 17
MVF/4 P3B 6
MVF/2 P9C 6
51.2KC/S P9B 13
TEST P9C 2
S2E
R
S
T
U
S3D
S3C
FROM SHEET-1
P8B 19 R41
S10C
R54 P8C 14
R42 P8C 1
R55 P8C 15
R33 P8B 11
S17
R44 P8C 3
R43 P8C 2
S10D
R56 P8C 16
R57 P8C 17
R34 P8B 12
S19
3 TO SHEET-3
V
W
X
Y
AG
AH
AI
AJ
AK
AL
TO SHEET-3
J4
J6
SPARE
+13VDC
VOLT METER
+3V COM
+10V COM
VPS COM
J11

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014295	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9 498
DRAWN W. F. Mills DATE 4/31/63
CHECKED
APPROVAL
APPROVAL 7/29/63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SYSTEM INTERFACE
SCHEMATIC

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014329
SCALE NONE
WT
SHEET 2 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014329

INCHES
PHOTOGRAPHIC SCALE ONLY

F-2

1014329

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REVISIONS	
SYM	DESCRIPTION
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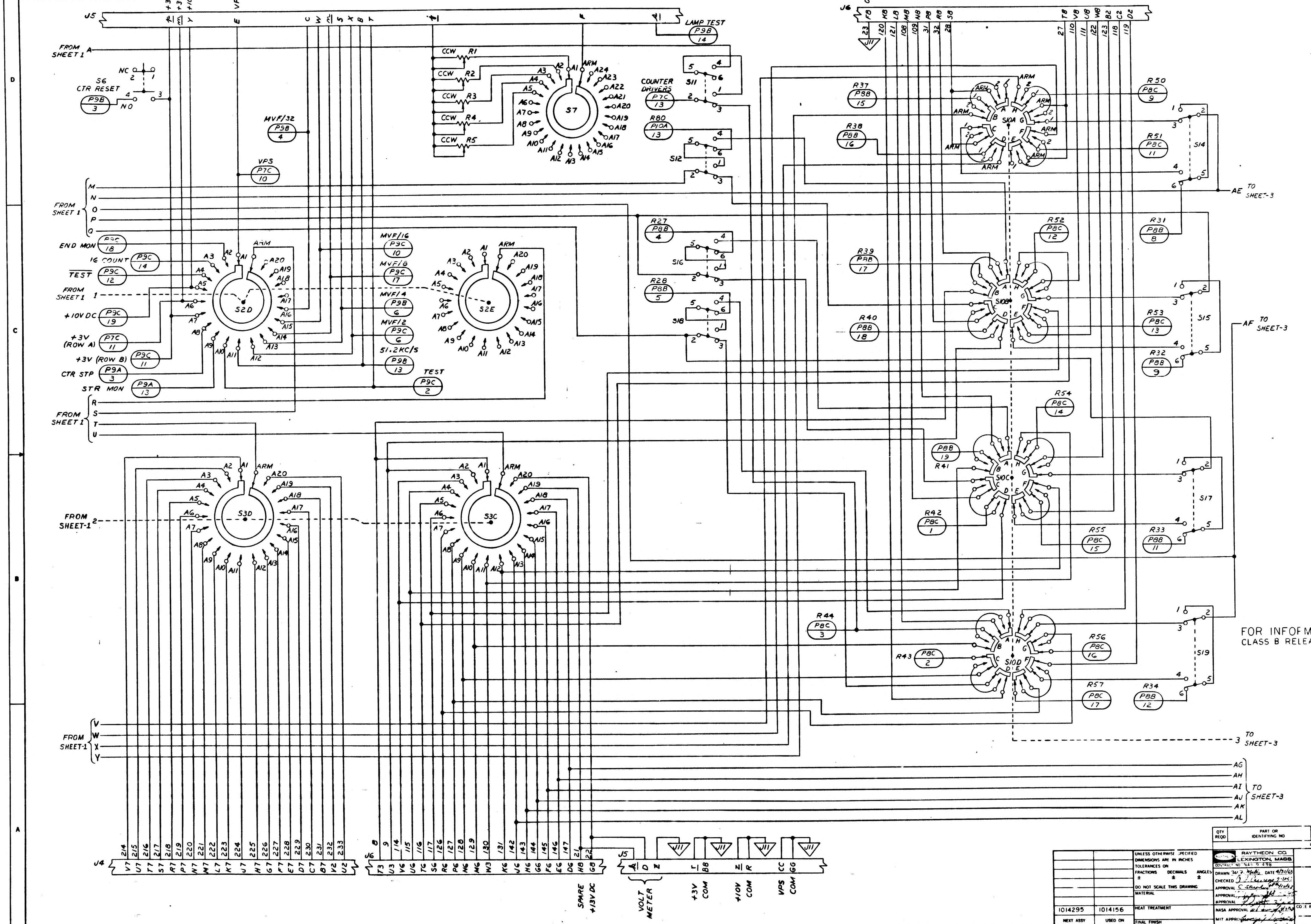
J5
+3VDC
+3VDC
+10VDC
VPS
LAMP TEST
P9B 14
FROM SHEET 1
A
NC
S6
CTR RESET
P9B 3
NO
CCW R1
CCW R2
CCW R3
CCW R4
CCW R5
S7
ARM
A1
A2
A3
A4
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A6
A7
A8
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A11
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A14
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A17
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A19
A20
A21
A22
A23
A24
S11
COUNTER DRIVERS
P7C 13
R80
P10A 13
S12
MVF/32
P9B 4
VPS
P7C 10
FROM SHEET 1
M
N
O
P
Q
END MON
P9C 18
16 COUNT
P9C 14
TEST
P9C 12
FROM SHEET 1
1
+10V DC
P9C 19
+3V (ROW A)
P7C 11
+3V (ROW B)
P9C 11
CTR STP
P9A 3
STR MON
P9A 13
S2D
S2E
MVF/16
P9C 10
MVF/8
P9C 17
MVF/4
P9B 6
MVF/2
P9C 6
51.2KC/S
P9B 13
TEST
P9C 2
R27
P8B 4
S16
R28
P8B 5
S18
FROM SHEET 1
R
S
T
U
FROM SHEET-1
2
S3D
S3C
FROM SHEET-1
V
W
X
Y
J6
0VDC
J11
R37
P8B 15
R38
P8B 16
S10A
R50
P8C 9
R51
P8C 11
S14
AE
TO SHEET-3
R52
P8C 12
R31
P8B 8
R39
P8B 17
S10B
R40
P8B 18
S15
AF
TO SHEET-3
R53
P8C 13
R32
P8B 9
R54
P8C 14
R41
P8B 19
S10C
S17
R42
P8C 1
R55
P8C 15
R33
P8B 11
R44
P8C 3
S10D
R56
P8C 16
S19
R43
P8C 2
R57
P8C 17
R34
P8B 12
3
TO SHEET-3
AG
AH
AI
AJ
AK
AL
TO SHEET-3
J4
J6
J5
SPARE
+13VDC
VOLT METER
+3V COM
+10V COM
VPS COM

FOR INFORMATION ONLY
CLASS B RELEASE TDRR

QTY REQD	PART OR IDENTIFYING NO	NOMENCLA DESCRI
LIST OF MATERIALS		

1014295	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9 498
DRAWN W. J. Mills DATE 4/31/63
CHECKED
APPROVAL C. Snyder
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACE
HOUSTON
SYSTEM
SCHEMA

CODE IDENT NO —
SIZE J
SCALE NONE
WT

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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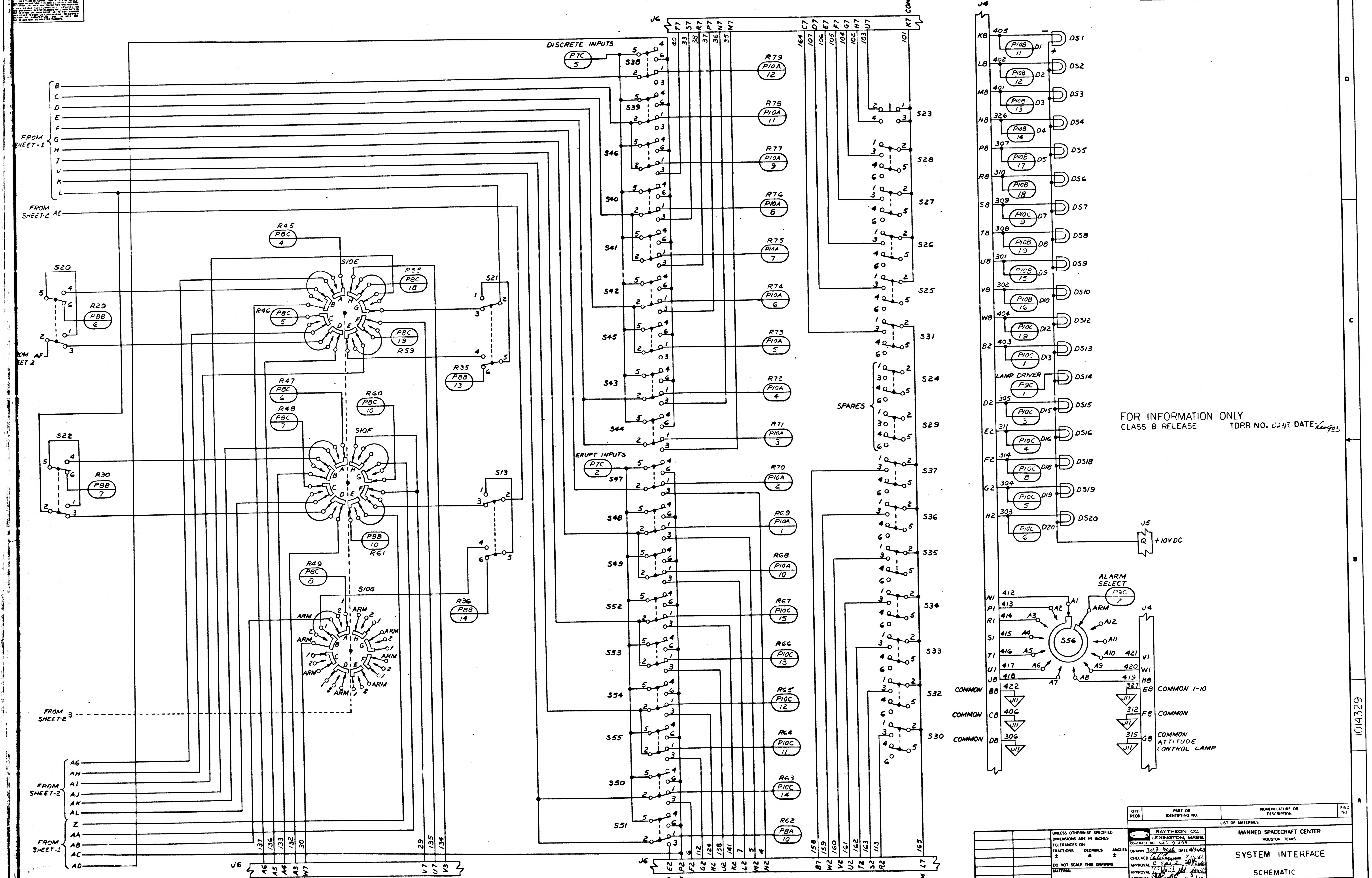

DISCRETE INPUTS
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FROM SHEET-2
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FROM SHEET-2 3
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AE
AG
AH
AI
AJ
AK
AL
Z
AA
AB
AC
AD
J4
J5
J6
P7C 5
P7C 2
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S10F
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S52
S53
S54
S55
S56
SPARES
R29 P8B 6
R30 P8B 7
R35 P8B 13
R36 P8B 14
R45 P8C 4
R46 P8C 5
R47 P8C 6
R48 P8C 7
R49 P8C 8
P58 P8C 18
R59 P8C 19
R60 P8C 10
R61 P8B 10
R62 P8A 10
R63 P10C 14
R64 P10C 11
R65 P10C 12
R66 P10C 13
R67 P10C 15
R68 P10A 10
R69 P10A 1
R70 P10A 2
R71 P10A 3
R72 P10A 4
R73 P10A 5
R74 P10A 6
R75 P10A 7
R76 P10A 8
R77 P10A 9
R78 P10A 11
R79 P10A 12
ARM
DS1
DS2
DS3
DS4
DS5
DS6
DS7
DS8
DS9
DS10
DS12
DS13
DS14
DS15
DS16
DS18
DS19
DS20
LAMP DRIVER P9C 1
+10VDC
ALARM SELECT P9C 7
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
COMMON
COMMON 1-10
COMMON ATTITUDE CONTROL LAMP
J11
K7 COM
COM L7

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02312 DATE

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014295	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9 498
DRAWN W.F. Mills DATE 4/31/63
CHECKED A.G. Cayman 7-16-63
APPROVAL C Sabin 7/2/63
APPROVAL 4/29/63
APPROVAL 7/3/63
NASA APPROVAL 8/7/63
MIT APPROVAL George J. 5/7/63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SYSTEM INTERFACE
SCHEMATIC

CODE IDENT NO. ——— SIZE J NASA DRAWING NO 1014329
SCALE NONE WT SHEET 3 OF 3

1014329

INCHES
PHOTOGRAPHIC SCALE ONLY

F-2

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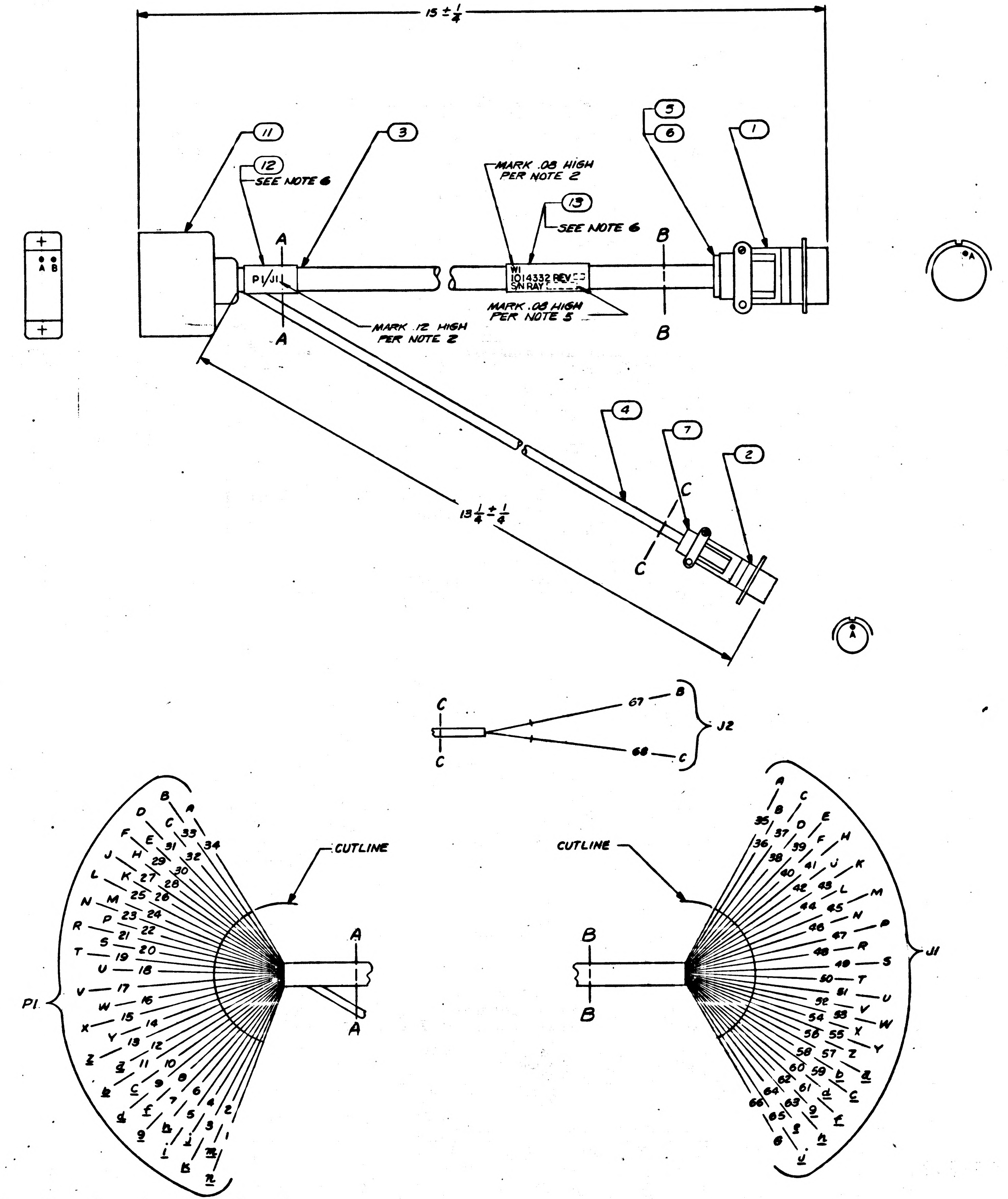
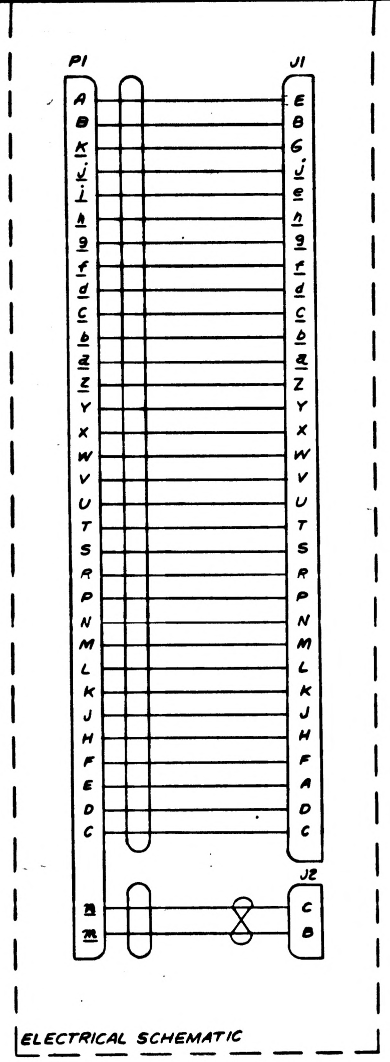
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD R5441 DR CHK Marinaro APPD	10-10-63	
B	CHANGED PER TDRR 05243 DR CHK T. Duval APPD		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	30	BLACK	22	8	35	
	1	WHITE	20	10	68	
	2	BLUE			67	
	3	WHITE	22	9	66	
	4				65	
	5				64	
	6				63	
	7				62	
	8				61	
	9				60	
	10				59	
	11				58	
	12				57	
	13				56	
	14				55	
	15				54	
	16				53	
	17				52	
	18				51	
	19				50	
	20				49	
	21				48	
	22				47	
	23				46	
	24				45	
	25				44	
	26				43	
	27				42	
	28				41	
	29				40	
	31				38	
	32				37	
	33				36	
	34	WHITE	22	9	39	





FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02358 DATE 7 Aug 63

NOTES

1. FOR SYMBOLS, FABRICATION & REQD TEST SEE ND1002032
2. MARK PER ND1002019
3. MIL-I-631, TYPE F, FOAM U2 GRADE a CLASS I CATEGORY I, FIND NO. 3, AWG 1/2, FIND NO. 4 AWG #8, COLOR WHITE
~~4. CONNECTOR SUPPLIED WITH 1006980~~
5. SERIAL NO. PER ND 1002023
6. BOND FIND NO. 12 & 13 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
2	1014472-2	BAND MARKER, CABLE	13
1	1014472-2A	BAND MARKER, CABLE	12
1	1006680	CONNECTOR	11
AR	1014341-2	WIRE, ELECTRICAL #20 AWG	10
AR	MIL-W-16878/4E22WHT	WIRE, ELECTRICAL #22 AWG	9
AR	MIL-W-16878/4E22BLK	WIRE, ELECTRICAL #22 AWG	8
1	MS39056-2	BUSHING, CABLE ADAPTER	7
1	MS39056-6	BUSHING, CABLE ADAPTER	6
1	MS39056-5	BUSHING, CABLE ADAPTER	5
AR	SEE NOTE 3	SLEEVING	4
AR	SEE NOTE 3	SLEEVING	3
1	MS3128F-10-6P	CONNECTOR, RECEPTACLE	2
1	MS3128F-18-32P	CONNECTOR, RECEPTACLE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014142	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 6-21-63
CHECKED 7-20-63
APPROVAL Spalding 7/21/63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W1
TAPE PUNCH

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014332
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014332

PHOTOGRAPHIC SCALE ONLY

ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	30	BLACK	22	8	35	
	1	WHITE	22	9	68	
	2	↑	↑	↑	67	
	3				66	
	4				65	
	5				64	
	6				63	
	7				62	
	8				61	
	9				60	
	10				59	
	11				58	
	12				57	
	13				56	
	14				55	
	15				54	
	16				53	
	17				52	
	18				51	
	19				50	
	32				49	
	21				48	
	22				47	
	23				46	
	69				45	
	25				44	
	70				43	
	27				42	
	28				41	
	29				40	
	31				38	
	20				37	
	33	↓	↓	↓	36	
	34	WHITE	22	9	39	

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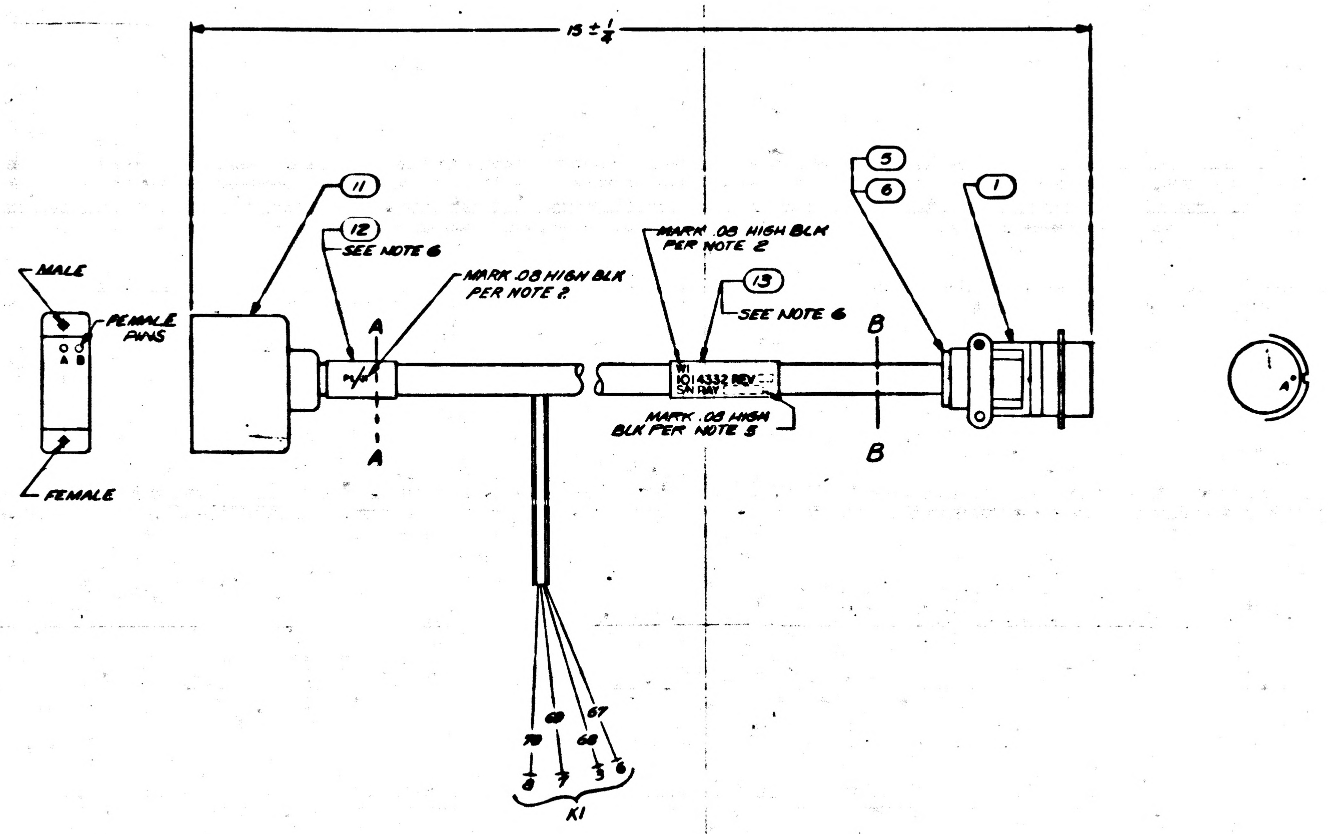
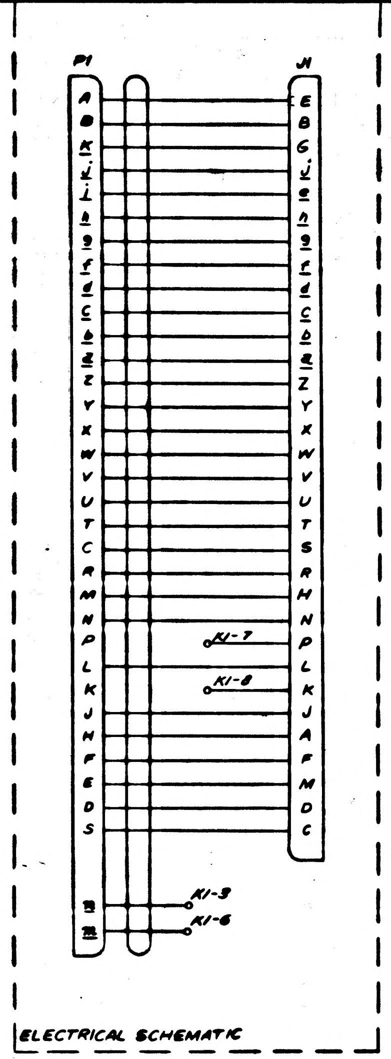
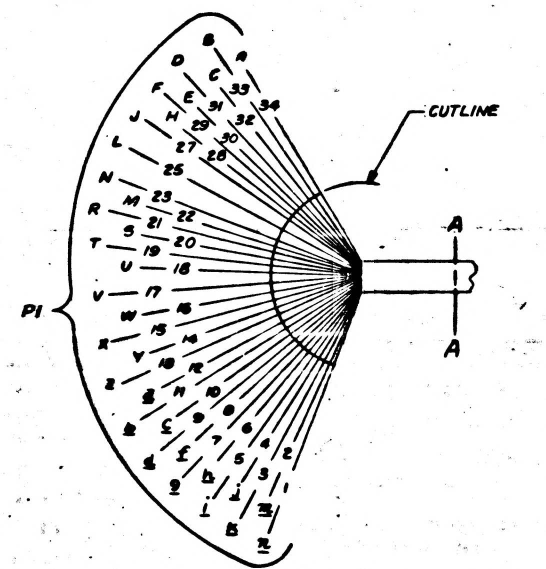
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD R5441 DR CHK Marinaro APPD		
B	CHANGED PER TDRR 05243 DR CHK APPD		
C	CL II CHANGE PER RD-R5705A DR CHK APPD	4 FEB 64	
D	CL II CHANGE PER RD R5788 DR P. Winfield CHK APPD	21 FEB 64	
E	CHANGE PER TDRR 08110 W. Damm CHK APPD	11 MAY 64	KEB

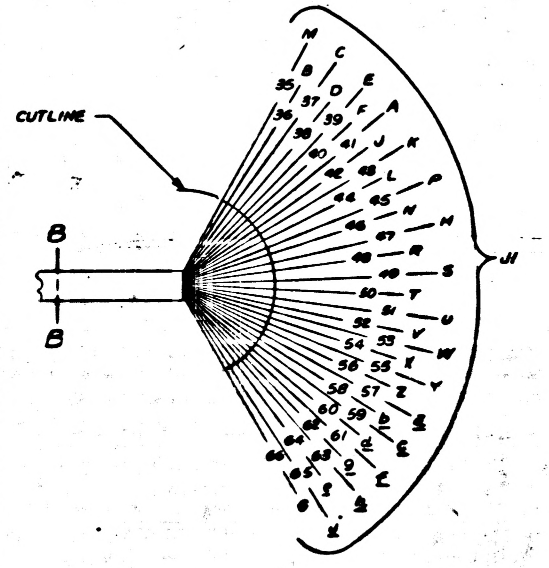




ELECTRICAL SCHEMATIC

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02356 DATE 7 Aug 63





NOTES
1. FOR SYMBOLS, FABRICATION & REQD TEST SEE ND1002032
2. MARK PER ND1002019
~~3. MIL-I-631, TYPE F, FORM U, GRADE, CLASS 2 CATEGORY 1, FIND NO. 3 AWG #18, FIND NO. 4 AWG #8, COLOR WHITE~~
~~4. CONNECTOR SUPPLIED WITH 1006806~~
5. SERIAL NO. PER ND 1002023
6. BOND USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
~~1~~	~~1014472-18A~~	~~BAND MARKER, CABLE~~	~~14~~
1	1014472-3	BAND MARKER, CABLE	13
1	1014472-3A	BAND MARKER, CABLE	12
1	1006680	CONNECTOR	11
~~AR~~	~~1014347-2~~	~~WIRE, ELECTRICAL #20 AWG~~	~~10~~
AR	MIL-W-16878/4E22WHT	WIRE, ELECTRICAL #22 AWG	9
AR	MIL-W-16878/4E22BLK	WIRE, ELECTRICAL #22 AWG	8
~~1~~	~~MS39056-2~~	~~BUSHING, CABLE ADAPTER~~	~~7~~
1	MS39056-6	BUSHING, CABLE ADAPTER	6
1	MS39056-5	BUSHING, CABLE ADAPTER	5
~~AR~~	~~SEE NOTE 3~~	~~SLEEVING~~	~~4~~
~~AR~~	~~SEE NOTE 3~~	~~SLEEVING~~	~~3~~
~~1~~	~~MS3128F-10-6P~~	~~CONNECTOR, RECEPTACLE~~	~~2~~
1	MS3128F-18-32P	CONNECTOR, RECEPTACLE	1

LIST OF MATERIALS

1014142	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

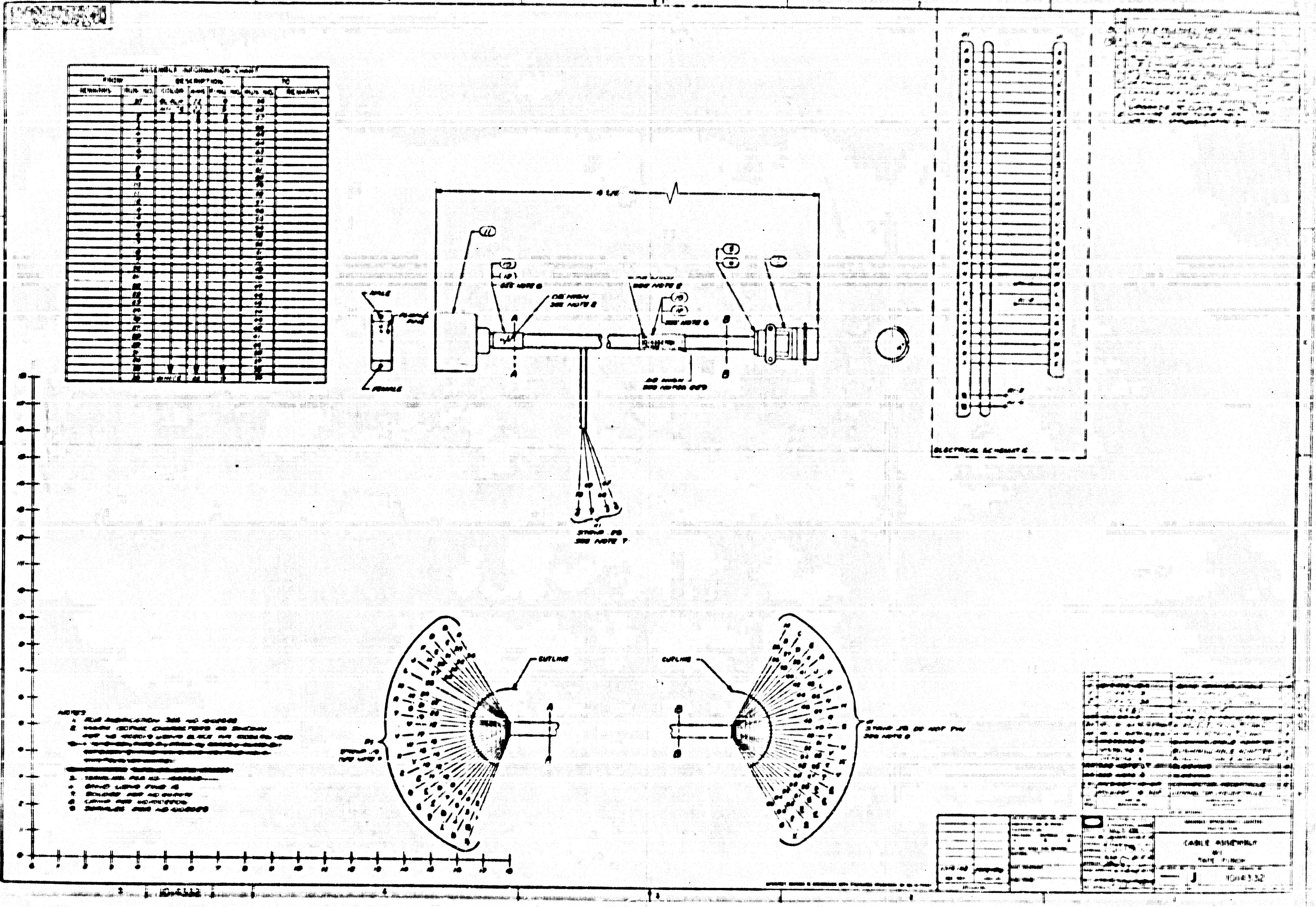
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN W. Carlson DATE 6-21-63
CHECKED 7-20-63
APPROVAL C. Spilling 7/21/63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W1
TAPE PUNCH

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014332
SCALE 1/1
WT
SHEET 1 OF 1

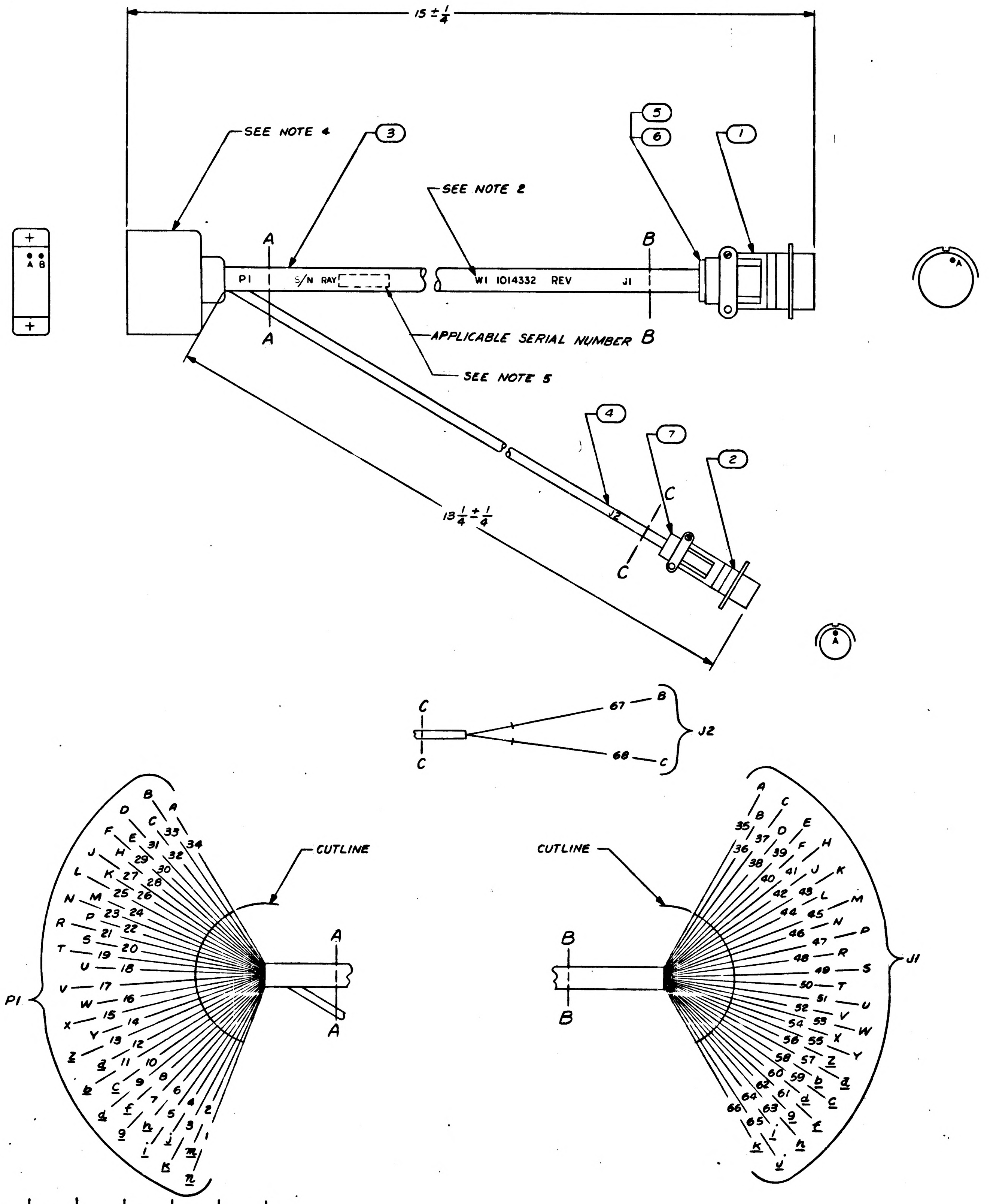
1014332

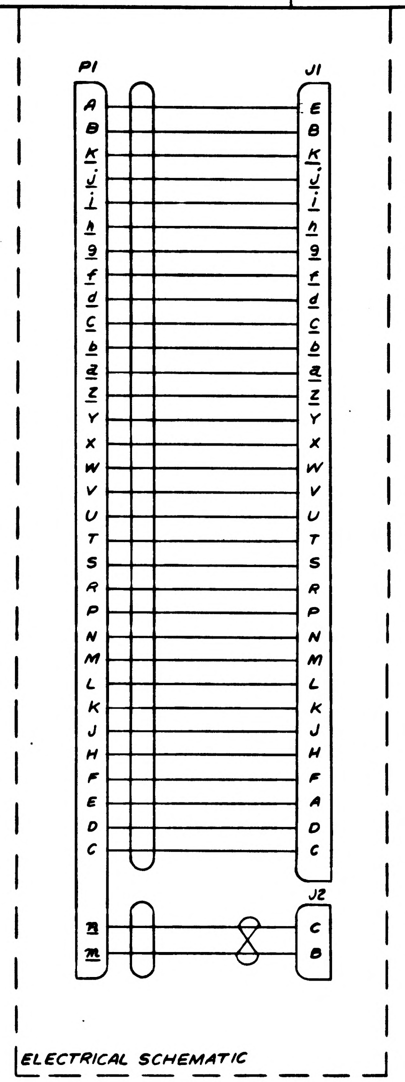

ASSEMBLY INFORMATION CHART
FROM
DESCRIPTION
TO
REMARKS
PIN NO.
COLOR
PIN NO.
REMARKS
MALE
FEMALE
SEE NOTE 2
SEE NOTE 6
A
B
STRIP .25
SEE NOTE 7
OUTLINE
ELECTRICAL SCHEMATIC
NOTES
CABLE ASSEMBLY
W1
J
10M43352

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	30	BLACK	22	8	35	
	1	WHITE	20	10	68	
	2	BLUE			67	
	3	WHITE	22	9	66	
	4	↑	↑	↑	65	
	5				64	
	6				63	
	7				62	
	8				61	
	9				60	
	10				59	
	11				58	
	12				57	
	13				56	
	14				55	
	15				54	
	16				53	
	17				52	
	18				51	
	19				50	
	20				49	
	21				48	
	22				47	
	23				46	
	24				45	
	25				44	
	26				43	
	27				42	
	28				41	
	29				40	
	31				38	
	32				37	
	33	↓	↓	↓	36	
	34	WHITE	22	9	39	





NOTES
1. FOR SYMBOLS, FABRICATION & REQD TEST SEE ND1002032
2. MARK .12 HIGH BLACK PER ND1002019
3. MIL-I-631, TYPE F, FOAM U_2 GRADE $_B$ CLASS I CATEGORY I, FIND NO. 3, AWG 1/2, FIND NO. 4 AWG #8, COLOR WHITE
4. CONNECTOR SUPPLIED WITH 1006924
5. SERIAL NO. PER ND 1002023

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02386 DATE 7 Aug 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	1014341-2	WIRE, ELECTRICAL #20 AWG	10
AR	MIL-W-16878/4E22WHT	WIRE, ELECTRICAL #22 AWG	9
AR	MIL-W-16878/4E22BLK	WIRE, ELECTRICAL #22 AWG	8
1	MS39056-2	BUSHING, CABLE ADAPTER	7
1	MS39056-6	BUSHING, CABLE ADAPTER	6
1	MS39056-5	BUSHING, CABLE ADAPTER	5
AR	SEE NOTE 3	SLEEVING	4
AR	SEE NOTE 3	SLEEVING	3
1	MS3128F-10-6P	CONNECTOR, RECEPTACLE	2
1	MS3128F-18-32P	CONNECTOR, RECEPTACLE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014142	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 6-21-63
CHECKED 7-20-63
APPROVAL C. Spalding 7/2/63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W1
TAPE PUNCH

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014332
SCALE 1/1
WT
SHEET 1 OF 1

1014332

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

F-2

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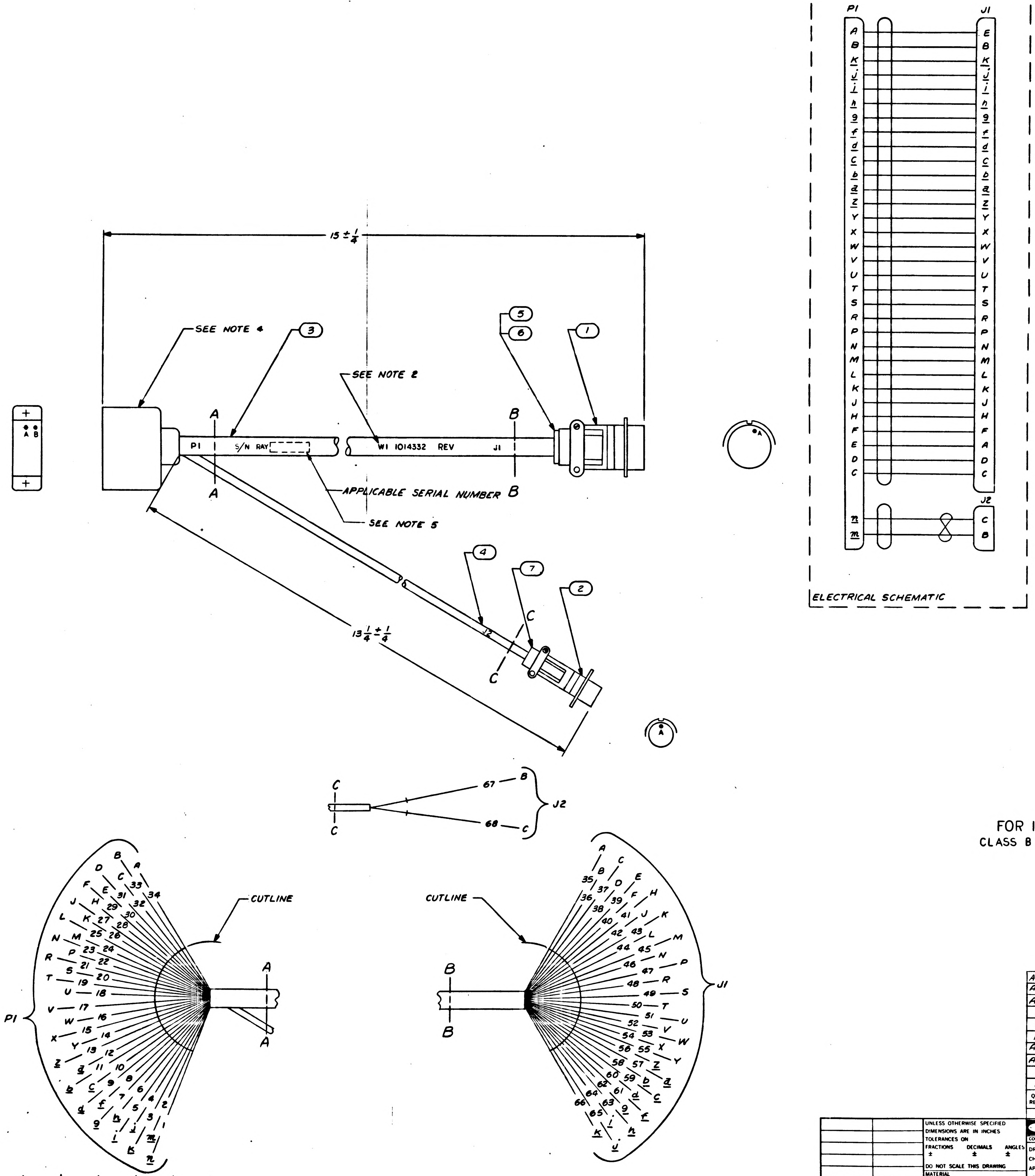
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS

REVISIONS	
SYM	DESCRIPTION
—	CLASS B RELEASED PER T

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	30	BLACK	22	8	35	
	1	WHITE	20	10	68	
	2	BLUE			67	
	3	WHITE	22	9	66	
	4	↑	↑	↑	65	
	5				64	
	6				63	
	7				62	
	8				61	
	9				60	
	10				59	
	11				58	
	12				57	
	13				56	
	14				55	
	15				54	
	16				53	
	17				52	
	18				51	
	19				50	
	20				49	
	21				48	
	22				47	
	23				46	
	24				45	
	25				44	
	26				43	
	27				42	
	28				41	
	29				40	
	31				38	
	32				37	
	33	↓	↓	↓	36	
	34	WHITE	22	9	39	



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DAT

NOTES
1. FOR SYMBOLS, FABRICATION & REQD TEST SEE ND1002032
2. MARK .12 HIGH BLACK PER ND1002019
3. MIL-I-631, TYPE F, FOAM U2 GRADE a CLASS I CATEGORY I, FIND NO. 3, AWG 1/2, FIND NO. 4 AWG #8, COLOR WHITE
4. CONNECTOR SUPPLIED WITH 1006924
5. SERIAL NO. PER ND 1002023

AR	1014341-2	WIRE, ELEC
AR	MIL-W-16878/4E22WHT	WIRE, ELEC
AR	MIL-W-16878/4E22 BLK	WIRE, ELEC
1	MS39056-2	BUSHING, C
1	MS39056-6	BUSHING, C
1	MS39056-5	BUSHING, C
AR	SEE NOTE 3	SLEEVING
AR	SEE NOTE 3	SLEEVING
1	MS3128F-10-6P	CONNECTOR,
1	MS3128F-18-32P	CONNECTOR,
QTY REQD	PART OR IDENTIFYING NO.	

LIST OF MATERIAL

1014142	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 6-21-63
CHECKED 6-20-63
APPROVAL C. Sperling 7/21/63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

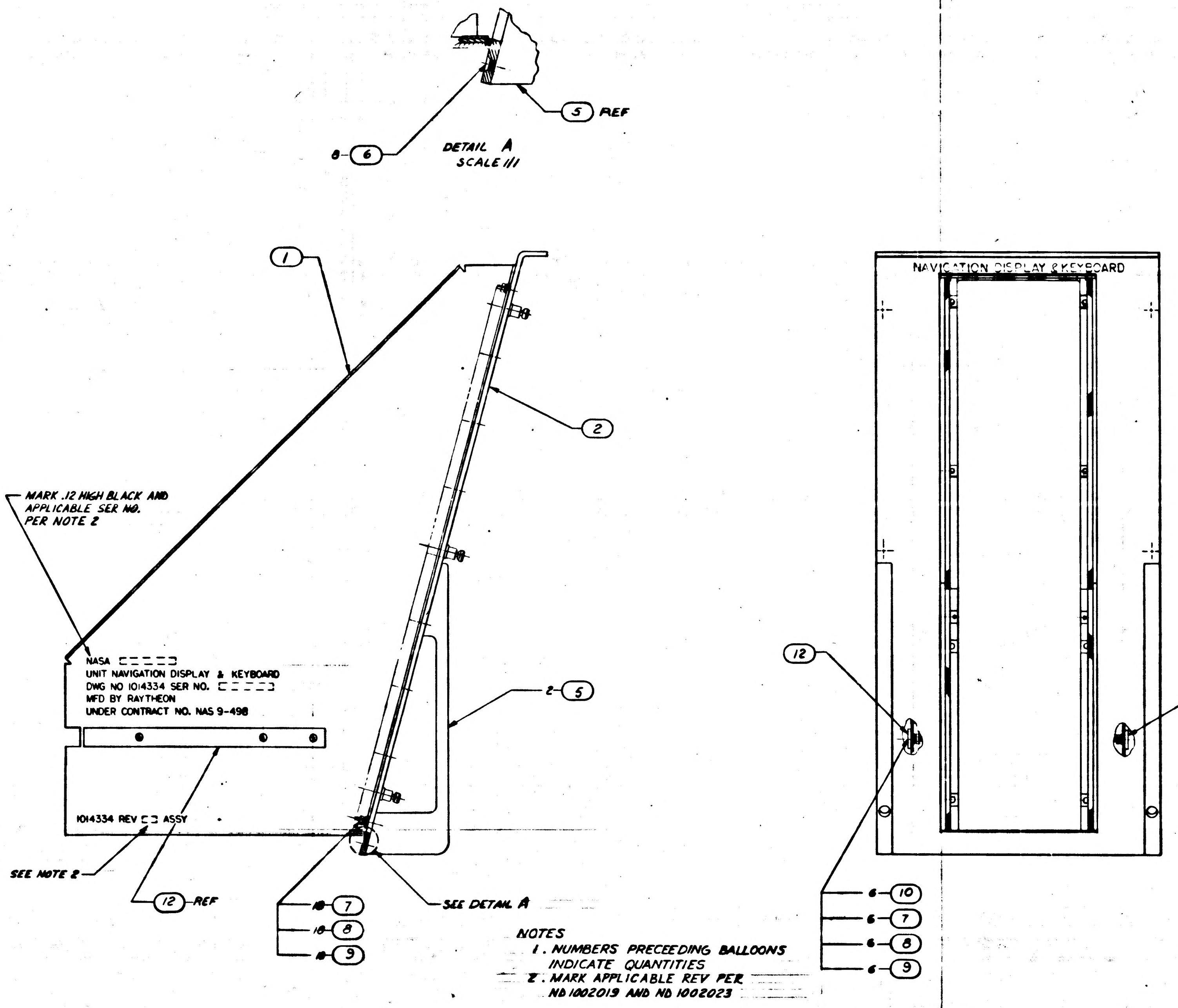
MANNED SP
CABLE
TAPE
CODE IDENT NO
J
SCALE 1/1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014332

INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 04137		
A	CHANGED PER TDRR 10445 OR [illegible] CAK [illegible] APPD	JUL 64	



5 REF
8-6
DETAIL A
SCALE 1/1
1
2
MARK .12 HIGH BLACK AND APPLICABLE SER NO. PER NOTE 2
NASA
UNIT NAVIGATION DISPLAY & KEYBOARD
DWG NO 1014334 SER NO.
MFD BY RAYTHEON
UNDER CONTRACT NO. NAS 9-498
2-5
1014334 REV ASSY
SEE NOTE 2
12 REF
SEE DETAIL A
18-7
18-8
18-9
NAVIGATION DISPLAY & KEYBOARD
12
11
6-10
6-7
6-8
6-9

NOTES
1. NUMBERS PRECEEDING BALLOONS INDICATE QUANTITIES
2. MARK APPLICABLE REV PER ND 1002019 AND ND 1002023

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04137 DATE 10/11/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1006665-2	SLIDE CHASSIS LH	12
1	1006665-1	SLIDE CHASSIS RH	11
6	MS35200-43	SCREW, MACH, FLAT HD	10
24	MS15795-307	WASHER, FLAT	9
24	MS 35337-80	WASHER, LOCK, SPLIT	8
24	MS 35649-84	NUT, PLAIN, HEX	7
8	MS35249-51	SCREW, MACH, FLAT HD	6
2	1014333	HANDLE	5
~~1~~	~~1020035~~	~~SHIELD ASSY, TOP~~	~~4~~
~~3~~	~~MS35234-31~~	~~SCREW, MACH, PAN HD~~	~~3~~
1	1014335	PANEL, FRONT	2
1	1014336	CHASSIS	1

LIST OF MATERIALS

1014465	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498

DRAWN A. Contarino DATE
CHECKED A. J. Mannaro 20 SEP 63
APPROVAL H. Meyer JFK 16 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 10/11/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

MOUNTING FIXTURE ASSY
NAVIGATION DISPLAY & KEYBOARD
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014334
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014334

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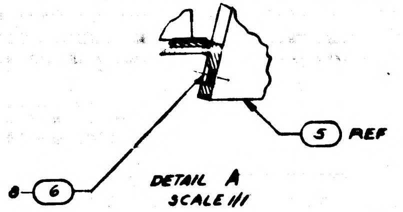
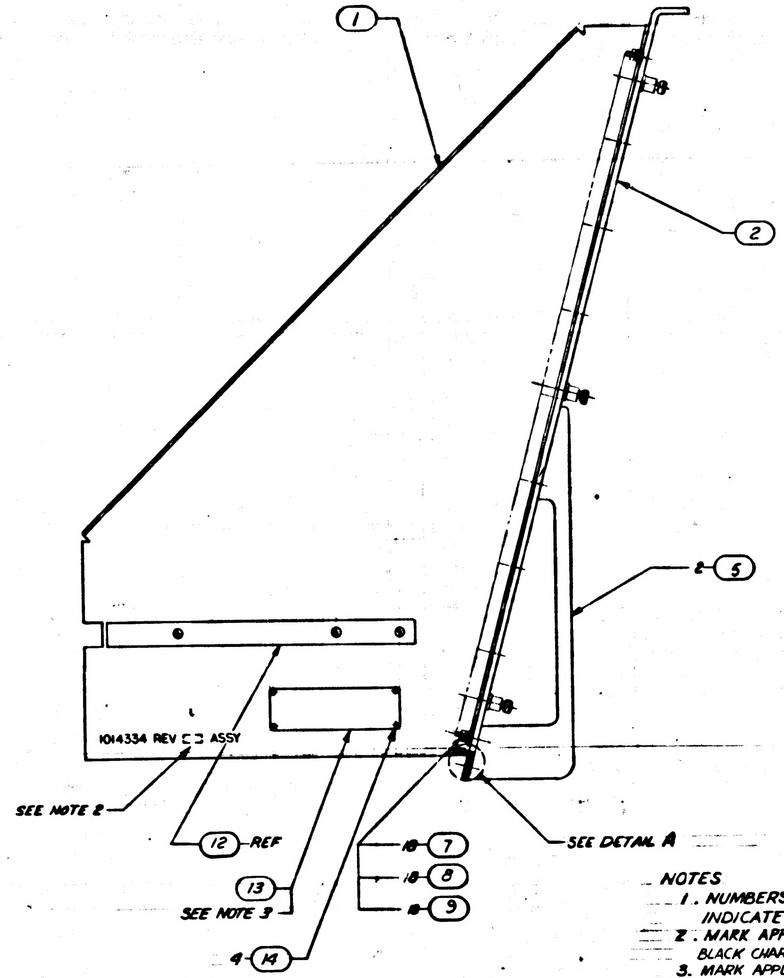
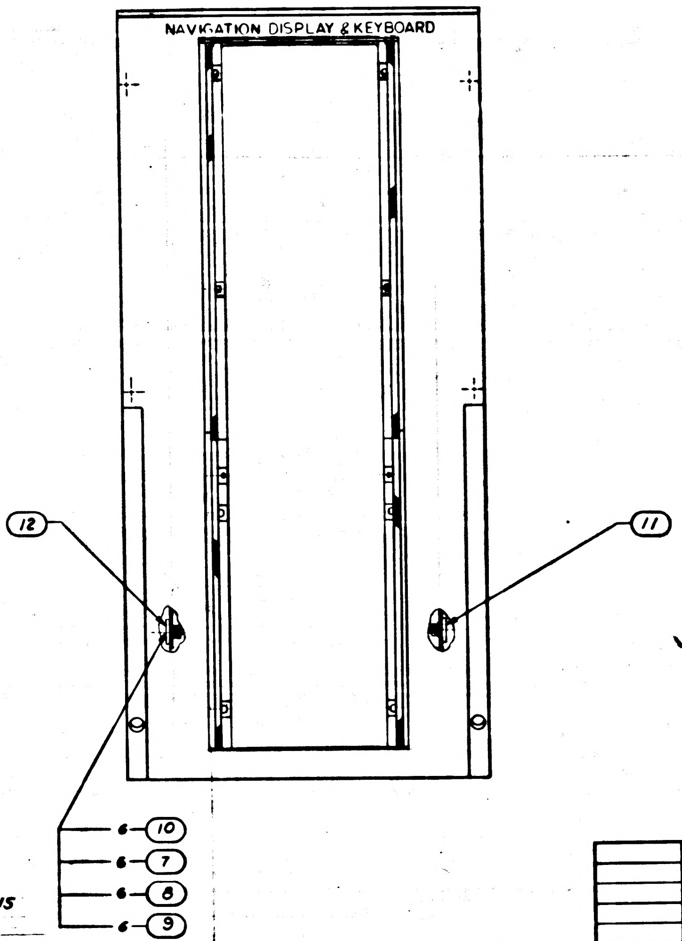
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
⑤ –	CL B RELEASED PER TDRR 04137	10/14/63	
A	CHANGED PER TDRR 10445 DR [illegible] CHK [illegible] APPD [illegible]	1 JUL 64	NCB
B	CHANGED PER TDRR 11456 DR [illegible] CHK Q.G.C. APPD [illegible]	13 Aug 64	NCB



DETAIL A
SCALE 1/1





FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04137 DATE 10/14/63

NOTES
1. NUMBERS PRECEEDING BALLOONS INDICATE QUANTITIES
2. MARK APPLICABLE REV .12 HIGH BLACK CHARACTERS PER ND1002019
3. MARK APPLICABLE INFORMATION .06 HIGH PER ND1002019 & ND1002023

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
4	MS20470B2-4	RIVET, SOLID, UNIV HD	14
1	1020086	PLATE, IDENTIFICATION	13
1	1006665-2	SLIDE CHASSIS LH	12
1	1006665-1	SLIDE CHASSIS RH	11
6	MS35200-43	SCREW, MACH, FLAT HD	10
24	MS15795-307	WASHER, FLAT	9
24	MS35337-80	WASHER, LOCK, SPLIT	8
24	MS35649-84	NUT, PLAIN, HEX	7
8	MS35249-51	SCREW, MACH, FLAT HD	6
2	1014333	HANDLE	5
~~1~~	~~1020038~~	~~SHIELD ASSY, TOP~~	~~4~~
~~3~~	~~MS35234-31~~	~~SCREW, MACH, PAN HD~~	~~3~~
1	1014335	PANEL, FRONT	2
1	1014336	CHASSIS	1

LIST OF MATERIALS

1014465	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN [illegible] DATE [illegible]
CHECKED A.J. Mannarino 20 Sep 63
APPROVAL H. Myers JFK 4 Oct 63
APPROVAL [illegible] 10/14/63
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 10/10/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

MOUNTING FIXTURE ASSY
NAVIGATION DISPLAY & KEYBOARD
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. ——
SIZE F
NASA DRAWING NO. 1014334
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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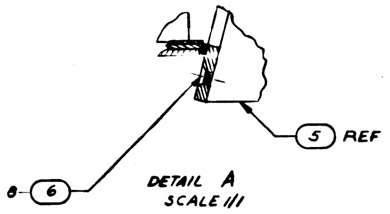
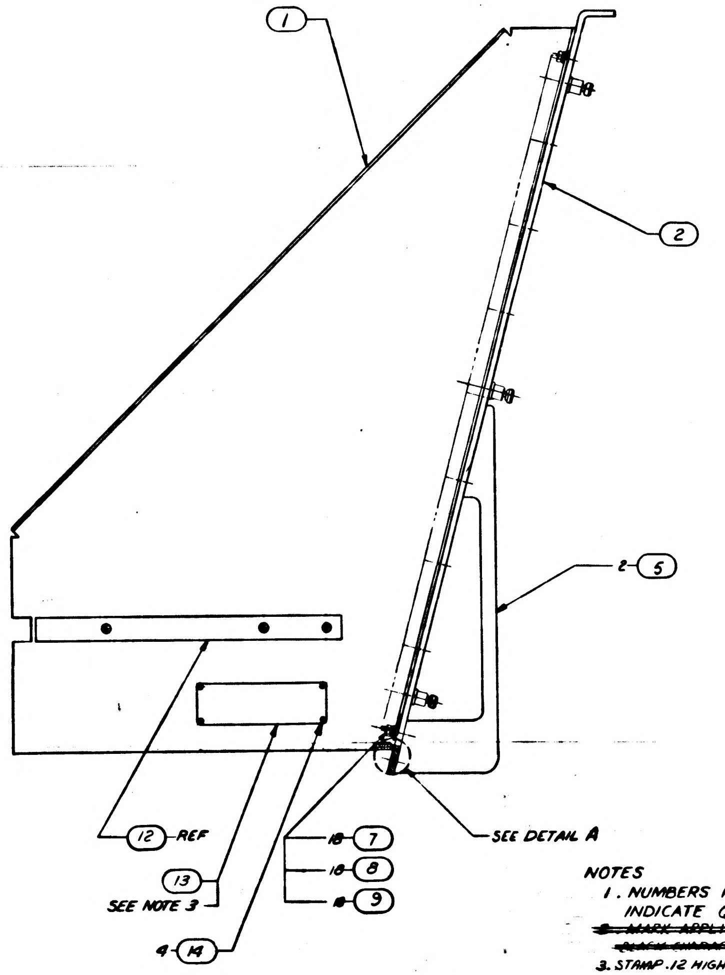
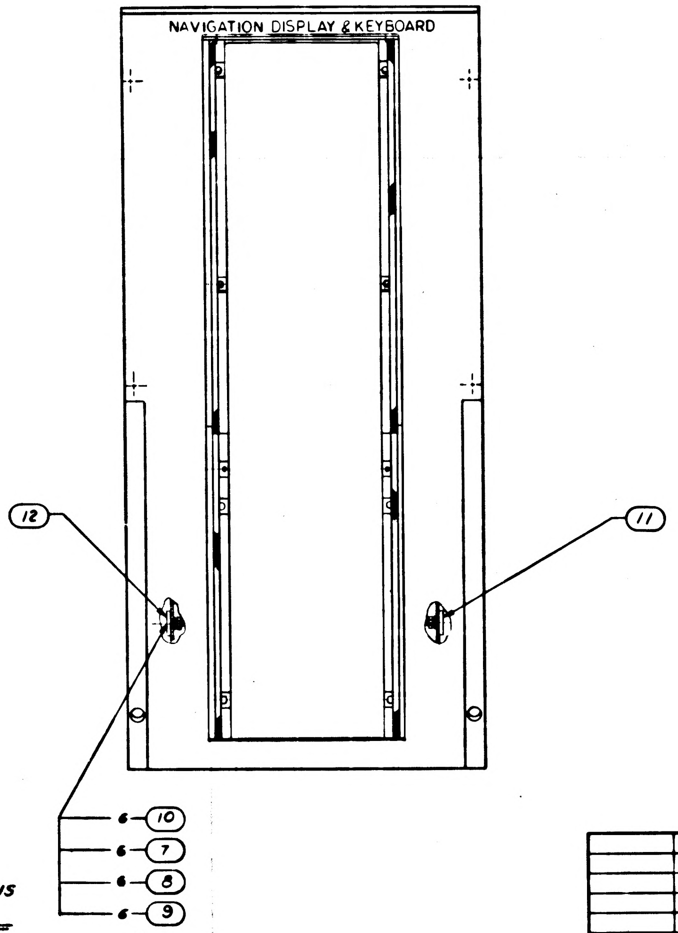
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 04137		
A	CHANGED PER TDRR 10445 DR CHK APPD	1 JUL 64	NCD
B	CHANGED PER TDRR 11456 DR F CHK Q.G.C. APPD	19 Aug 64	NCD
C	UPDATE TO CLASS A WITH CHANGE PER TDRR 17446 DR Q.J. Binon CHK C. APPD	2 APR 65	







NOTES
1. NUMBERS PRECEEDING BALLOONS INDICATE QUANTITIES
~~2. MARK APPLICABLE REV .12 HIGH BLACK CHARACTERS PER ND1002019~~
3. STAMP .12 HIGH GOTHIC CHARACTERS PER ND1002019 & ND1002023

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
4	MS20470B2-4	RIVET, SOLID, UNIV HD	14
1	1020086	PLATE, IDENTIFICATION	13
1	1006665-2	SLIDE CHASSIS LH	12
1	1006665-1	SLIDE CHASSIS RH	11
6	MS35200-43	SCREW, MACH, FLAT HD	10
24	MS15795-307	WASHER, FLAT	9
24	MS35337-80	WASHER, LOCK, SPLIT	8
24	MS35649-84	NUT, PLAIN, HEX	7
8	MS35249-51	SCREW, MACH, FLAT HD	6
2	1014333	HANDLE	5
~~1~~	~~1020035~~	~~SHIELD ASSY, TOP~~	~~4~~
~~3~~	~~MS35234-31~~	~~SCREW, MACH, PAN HD~~	~~3~~
1	1014335	PANEL, FRONT	2
1	1014336	CHASSIS	1

LIST OF MATERIALS

FINAL	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN A. Antazzo DATE 11 SEP 63
CHECKED A.J. Mammano 20 SEP 63
APPROVAL H. Meyer JMK 4 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

MOUNTING FIXTURE ASSY
NAVIGATION DISPLAY & KEYBOARD

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	F	1014334
SCALE 1/2	WT	SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014334

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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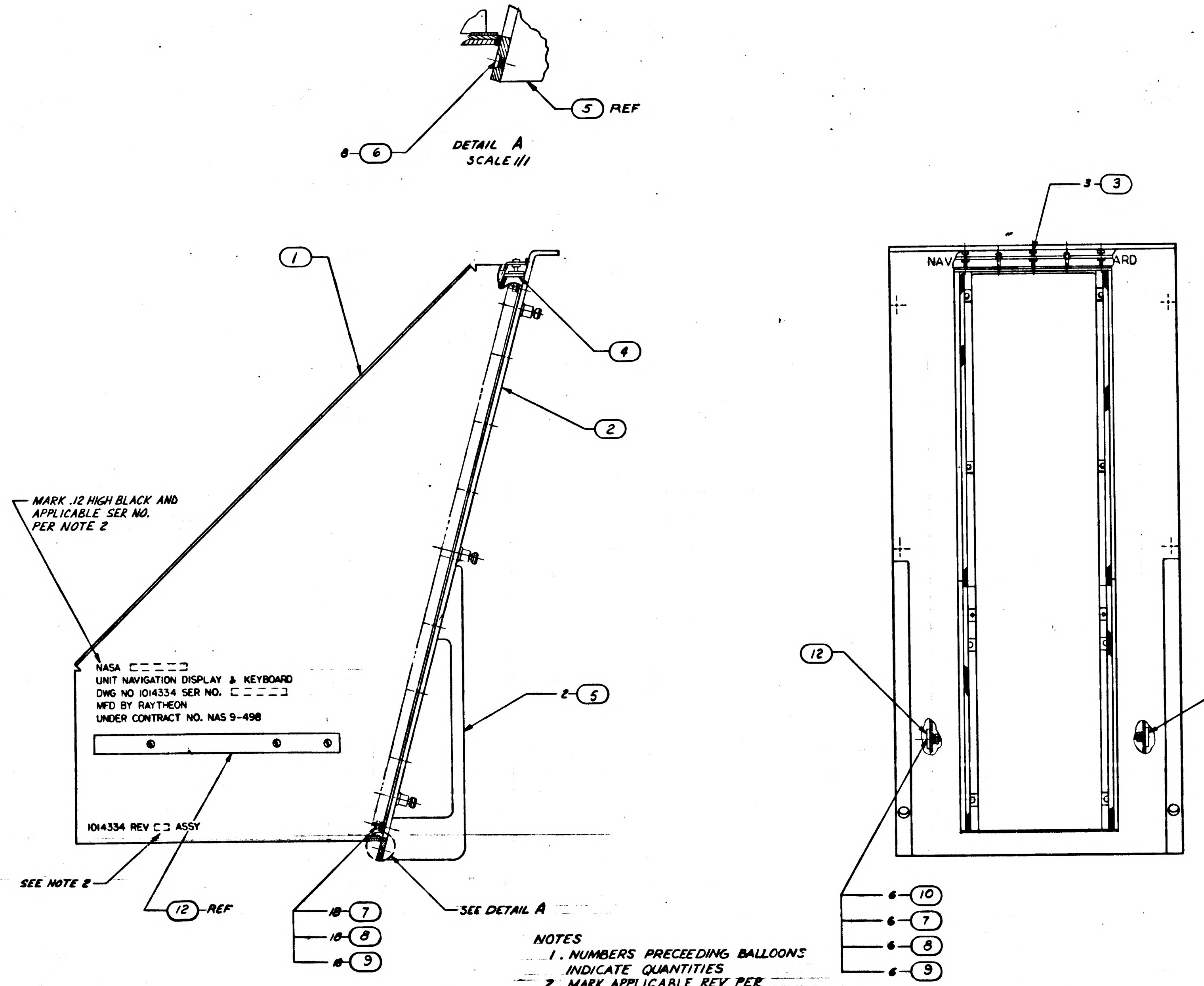
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 04137	10/24/63	WK


5 REF
8-6
DETAIL A
SCALE 1/1
1
4
2
2-5
MARK .12 HIGH BLACK AND
APPLICABLE SER NO.
PER NOTE 2
NASA ☐☐☐☐☐
UNIT NAVIGATION DISPLAY & KEYBOARD
DWG NO 1014334 SER NO. ☐☐☐☐☐
MFD BY RAYTHEON
UNDER CONTRACT NO. NAS 9-498
1014334 REV ☐ ASSY
SEE NOTE 2
12 REF
18-7
18-8
18-9
SEE DETAIL A
3-3
NAVIGATION DISPLAY & KEYBOARD
12
11
6-10
6-7
6-8
6-9

NOTES
1. NUMBERS PRECEEDING BALLOONS INDICATE QUANTITIES
2. MARK APPLICABLE REV PER ND 1002019 AND ND 1002023

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04137 DATE 10/24/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1006665-2	SLIDE CHASSIS LH	12
1	1006665-1	SLIDE CHASSIS RH	11
6	MS35200-43	SCREW, MACH, FLAT HD	10
24	MS15795-307	WASHER, FLAT	9
24	MS 35337-80	WASHER, LOCK, SPLIT	8
24	MS 35649-84	NUT, PLAIN, HEX	7
8	MS35249-51	SCREW, MACH, FLAT HD	6
2	1014333	HANDLE	5
1	1020055	SHIELD ASSY, TOP	4
3	MS35234-31	SCREW, MACH, PAN HD	3
1	1014335	PANEL, FRONT	2
1	1014336	CHASSIS	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE [illegible]
CHECKED 20 Sep 63
APPROVAL 4 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 10/23/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

MOUNTING FIXTURE ASSY
NAVIGATION DISPLAY & KEYBOARD
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. — SIZE F NASA DRAWING NO. 1014334
SCALE 1/2 WT SHEET 1 OF 1

1014334

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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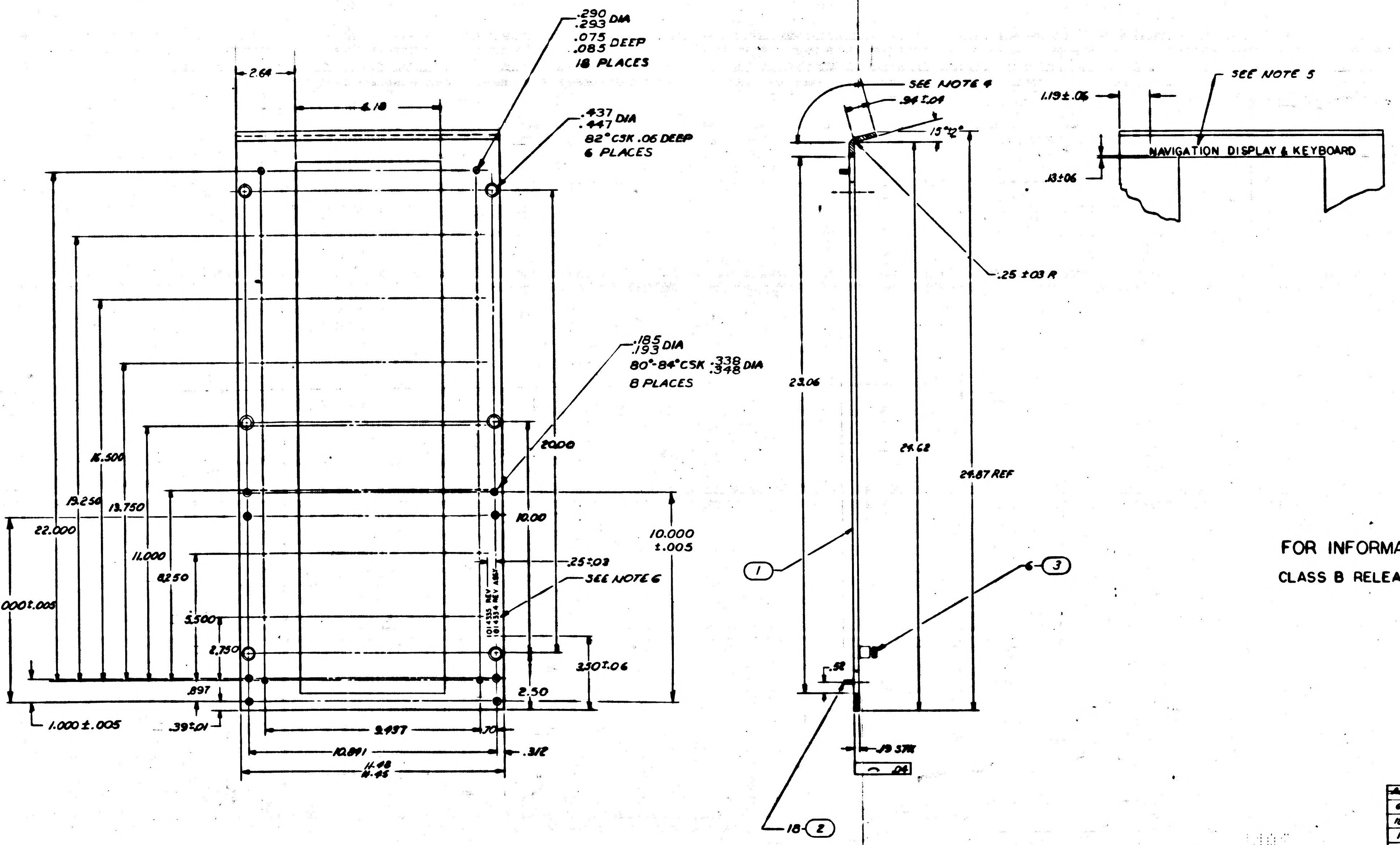
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 04137	10/10/63	
A	CHANGED PER TDRR 10445 DR Friedman CHK APPD	22 Jan 64	NSR


.290
.293 DIA
.075
.085 DEEP
18 PLACES
.437
.447 DIA
82° CSK .06 DEEP
6 PLACES
.185
.193 DIA
80°-84° CSK .338
.348 DIA
8 PLACES
2.64
6.18
22.000
19.250
16.500
13.750
11.000
8.250
5.500
2.750
20.000±.005
1.000±.005
.897
.39±.01
20.00
10.00
10.000
±.005
.25±.03
SEE NOTE 6
1014335 REV
1014334 REV ASSY
3.50±.06
2.50
8.937
.70
10.891
.312
11.48
11.45
SEE NOTE 4
.94±.04
15°±2°
.25±.03 R
23.06
24.62
24.87 REF
.52
.19 STK
⌒ .04
1
6-3
18-2
SEE NOTE 5
1.19±.06
.13±06
NAVIGATION DISPLAY & KEYBOARD

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 04137 DATE 10/10/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
~~AR~~	~~[illegible]~~	~~GASKET ASSY~~	~~4~~
6	1006942	FASTENER ASSY, CAPTIVE	3
18	1006951-007	STUD, SELF-CLINCHING	2
1	1014335-1	PANEL, FRONT	1

LIST OF MATERIALS

NOTES
①

1. MAT'L: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541, EXCEPT ELECT CONDUCTIVE
4. PAINT FRONT, EDGES, AND AREA INDICATED 1 COAT TT-E-529 CLASS B FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
5. SILK SCREEN FRONT OF PANEL .31 HIGH BLACK CHARACTERS PER ND 1002019
6. MARK REAR OF PANEL .12 HIGH BLACK CHARACTERS PER ND 1002019
7. ~~[illegible]~~
8. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES

1014334	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 ±.01 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED 4 OCT 63
APPROVAL 14 OCT 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRONT PANEL ASSY
NAVIGATION DISPLAY & KEYBOARD PNL

CODE IDENT NO | SIZE F | NASA DRAWING NO. 1014335
SCALE 1/2 | WT | SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014335

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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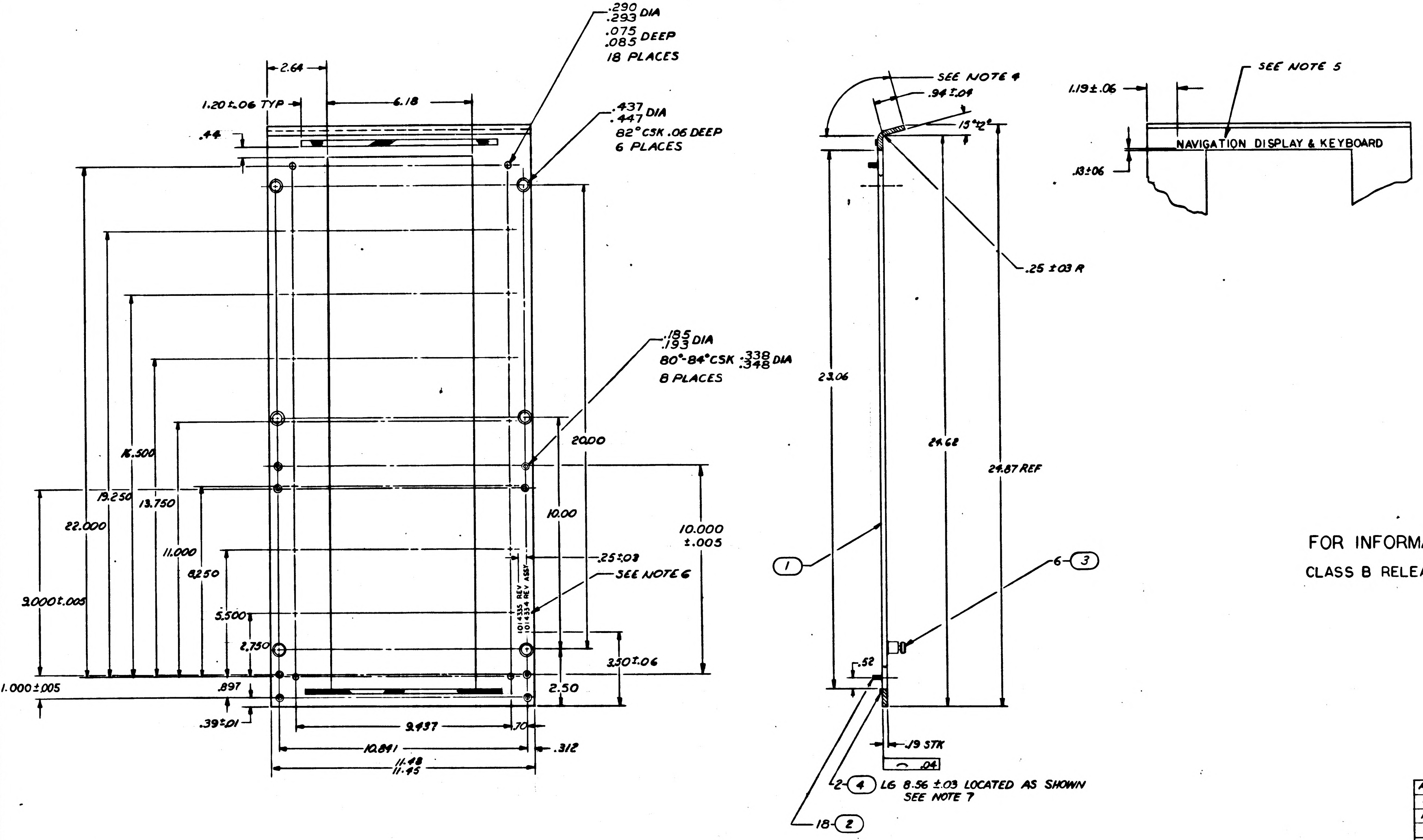
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 04137		


.290
.293 DIA
.075
.085 DEEP
18 PLACES
.437
.447 DIA
82° CSK .06 DEEP
6 PLACES
.185
.193 DIA
80°-84° CSK .338
.348 DIA
8 PLACES
2.64
6.18
1.20 ±.06 TYP
.44
22.000
19.250
16.500
13.750
11.000
8.250
5.500
2.750
9.000 ±.005
1.000 ±.005
.897
.39 ±.01
20.00
10.00
10.000
±.005
.25 ±.03
SEE NOTE 6
1014335 REV
1014334 REV ASSY
3.50 ±.06
2.50
9.437
.70
10.841
.312
11.48
11.45
SEE NOTE 4
.94 ±.04
15° ±2°
.25 ±.03 R
23.06
24.62
24.87 REF
1
6-3
.52
.19 STK
.04
2-4 LG 8.56 ±.03 LOCATED AS SHOWN
SEE NOTE 7
18-2
SEE NOTE 5
1.19 ±.06
.13 ±.06
NAVIGATION DISPLAY & KEYBOARD

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 04137 DATE 10/24/63

NOTES

①

1. MAT'L: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541, EXCEPT ELECT CONDUCTIVE
4. PAINT FRONT, EDGES, AND AREA INDICATED 1 COAT TT-E-529 CLASS B FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
5. SILK SCREEN FRONT OF PANEL .31 HIGH BLACK CHARACTERS PER ND 1002019
6. MARK REAR OF PANEL .12 HIGH BLACK CHARACTERS PER ND 1002019
7. SPOT BOND FIND NO. 4 TO FIND NO. 1 AT APPROX 1" INTERVALS PER ND1002004
8. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	1006651-3	GASKET RFI	4
6	1006942	FASTENER ASSY, CAPTIVE	3
18	1006951-007	STUD, SELF-CLINCHING	2
1	1014335-1	PANEL, FRONT	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014334	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE 22 JULY 63
CHECKED A.J. Mammone 4 OCT 63
APPROVAL JPK 14 OCT 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 24 Oct 63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

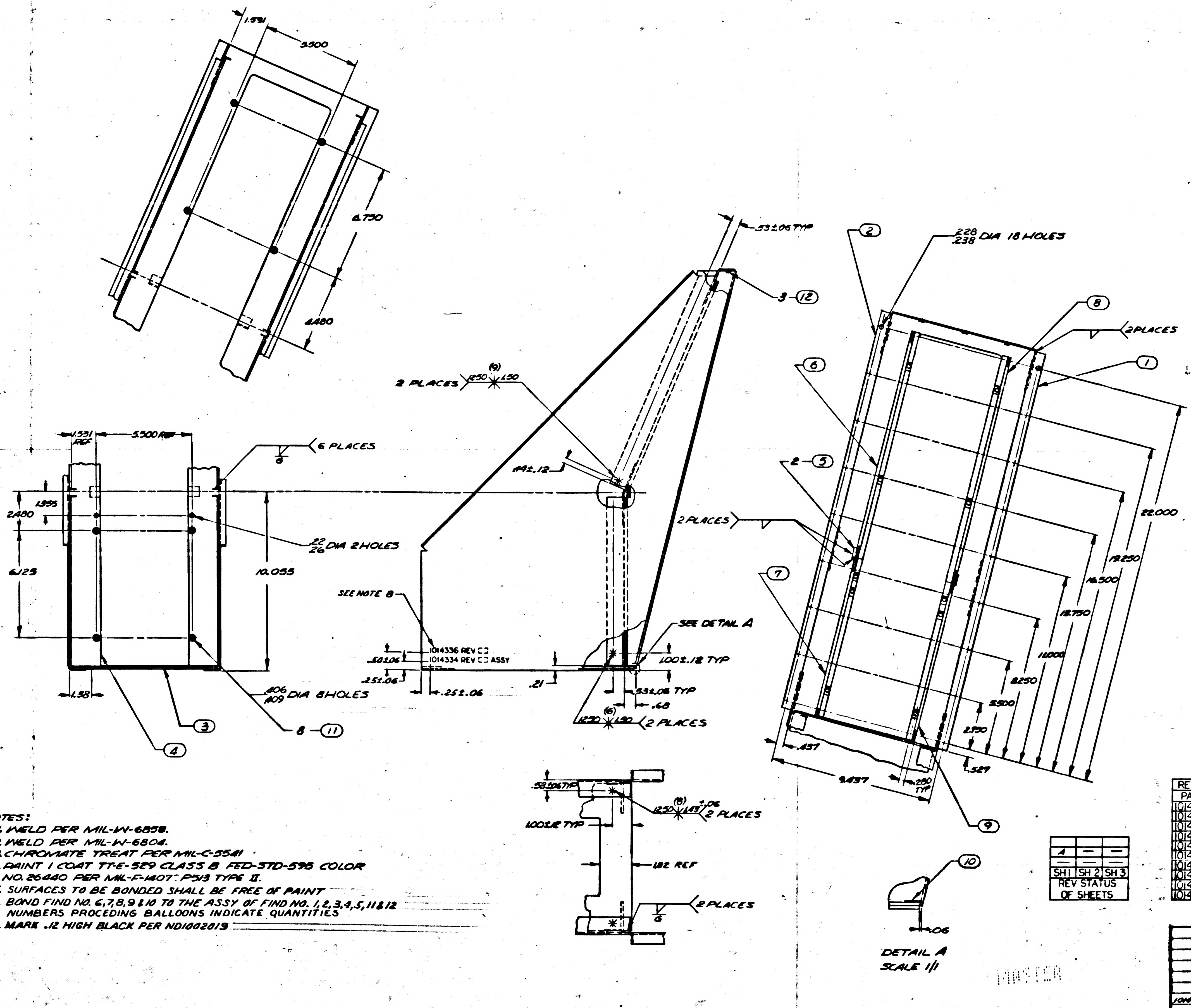
FRONT PANEL ASSY
NAVIGATION DISPLAY & KEYBOARD PNL

CODE IDENT NO. ——
SIZE F
NASA DRAWING NO. 1014335
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 04137	10/4/63	
A	CHANGED PER TDRR NO 06755 DR CHK JWJ APPD	10 MAR 64	



1.531
5.500
6.750
4.480
2 PLACES 1.250 (9) 1.50
1.531 REF
5.500 REF
6 PLACES
1.395
2.480
6.125
10.055
.22 .26 DIA 2 HOLES
.106 .109 DIA 8 HOLES
1.38
8 - (11)
(3)
(4)
#4±.12
SEE NOTE 8
1014336 REV
1014334 REV ASSY
.50±.06
.25±.06
.25±.06
.21
.53±.06 TYP
3 - (12)
SEE DETAIL A
1.00±.12 TYP
.53±.06 TYP
.68
1.250 (6) 1.50 2 PLACES
2 PLACES
(2)
.228 .238 DIA 18 HOLES
(8)
2 PLACES
(1)
(6)
2 - (5)
(7)
22.000
19.250
16.500
13.750
11.000
8.250
5.500
2.750
.437
9.437
.250 TYP
.527
(9)
.53±.06 TYP
1.00±.12 TYP
1.250 (8) 1.63 +.06 2 PLACES
.182 REF
2 PLACES
(10)
.06
DETAIL A
SCALE 1/1

NOTES:

1. WELD PER MIL-W-6858.
2. WELD PER MIL-W-6804.
3. CHROMATE TREAT PER MIL-C-5541
4. PAINT 1 COAT TT-E-529 CLASS B FED-STD-595 COLOR NO. 26440 PER MIL-F-1407 P513 TYPE II.
5. SURFACES TO BE BONDED SHALL BE FREE OF PAINT
6. BOND FIND NO. 6,7,8,9 & 10 TO THE ASSY OF FIND NO. 1,2,3,4,5,11 & 12
7. NUMBERS PROCEDING BALLOONS INDICATE QUANTITIES
8. MARK .12 HIGH BLACK PER ND1002019

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 04137 DATE 10/4/63

MASTER

A	—	—
—	—	—
SH 1	SH 2	SH 3
REV STATUS OF SHEETS		

REV STATUS OF PARTS

PART NO.	REV SYM
1014336-1	—
1014336-2	—
1014336-3	—
1014336-4	—
1014336-5	—
1014336-6	—
1014336-7	—
1014336-8	—
1014336-9	—
1014336-10	—

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
3	1006989-11	NUT, PLAIN, SELF-CLINCHING	12
8	1006999-12	NUT, PLAIN, FLOATING	11
1	1014336-10	GASKET, RUBBER	10
1	1014336-9	GASKET, RFI BOTTOM RH	9
1	1014336-8	GASKET, RFI TOP RH	8
1	1014336-7	GASKET, RFI BOTTOM LH	7
1	1014336-6	GASKET, RFI TOP LH	6
2	1014336-5	BLOCK	5
1	1014336-4	SUPPORT	4
1	1014336-3	PLATE BOTTOM	3
1	1014336-2	PLATE, LEFT SIDE	2
1	1014336-1	PLATE, RIGHT SIDE	1

LIST OF MATERIALS

1014334	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ±.015 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-1...
DRAWN DATE
CHECKED 2A SEP 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

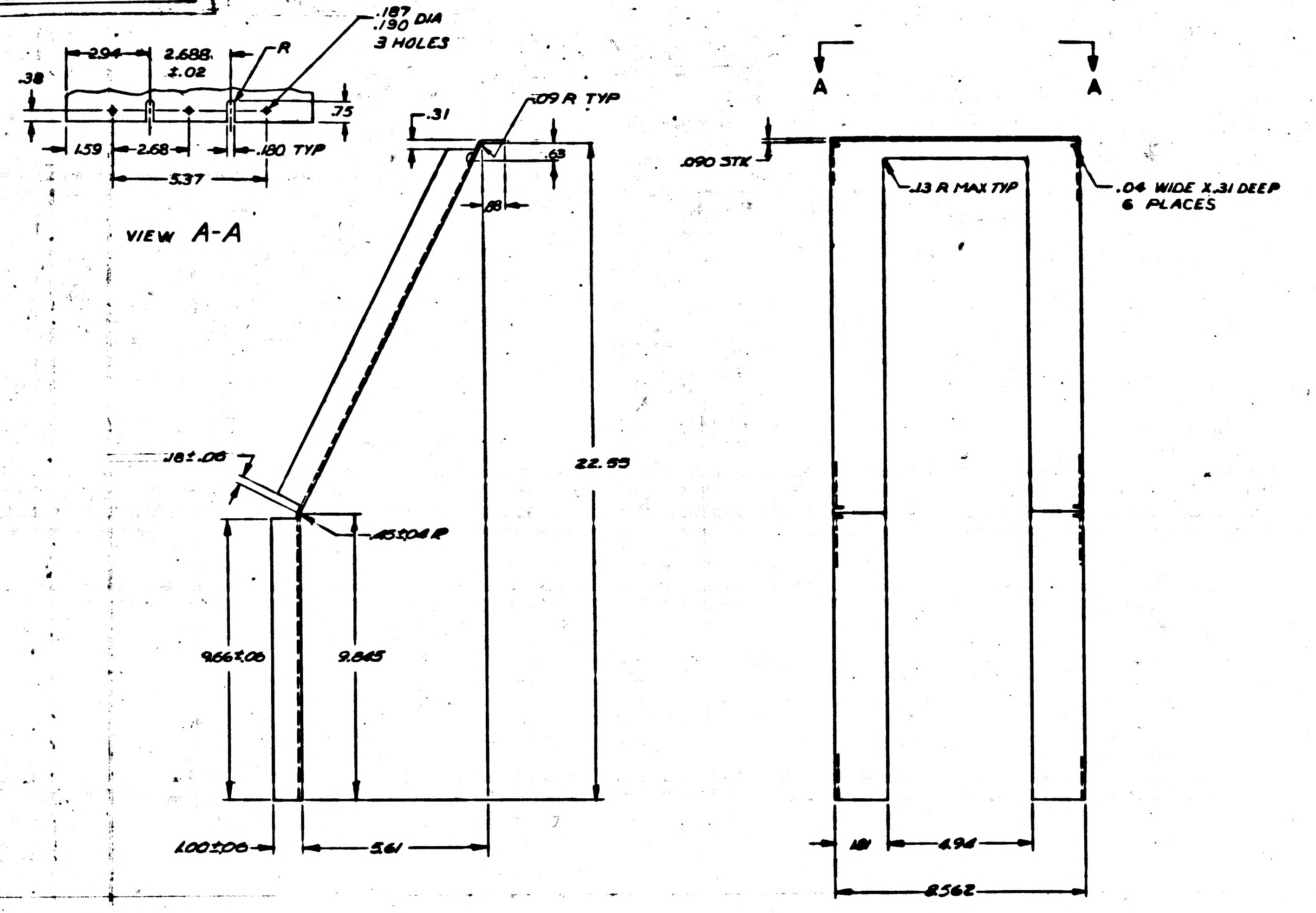
CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014336
SCALE 1/2
WT
SHEET 1 OF 2

1014336

1014336.

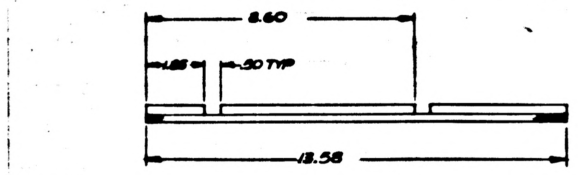
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		



A
A
.187
.190 DIA
3 HOLES
2.94
2.688
±.02
R
.38
.75
1.59
2.68
.180 TYP
5.37
VIEW A-A
.09 R TYP
.31
.63
.88
.090 STK
.13 R MAX TYP
.04 WIDE X .31 DEEP
6 PLACES
22.55
.18±.06
.15±.04 R
9.66±.06
9.845
1.00±.06
5.61
1.81
4.94
8.562

NOTES
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. SCALE: 1/2

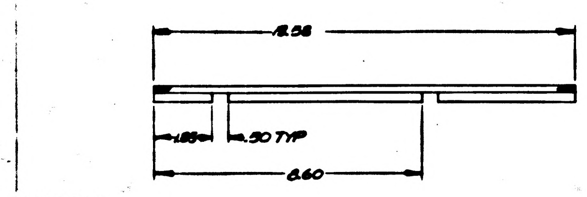
SUPPORT
1014336-4



8.60
.186
.50 TYP
18.58

NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

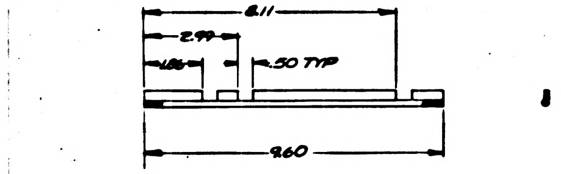
GASKET, RFI
TOP LH
1014336-6



18.58
.186
.50 TYP
8.60

NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

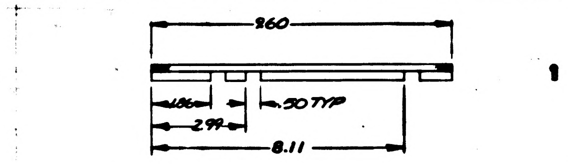
GASKET, RFI
TOP RH
1014336-8



8.11
2.99
.186
.50 TYP
9.60

NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

GASKET, RFI
BOTTOM LH
1014336-7

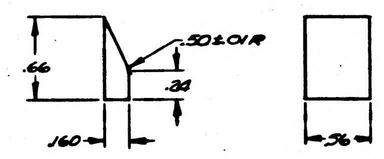


9.60
.186
2.99
.50 TYP
8.11

NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

GASKET, RFI
BOTTOM RH
1014336-9

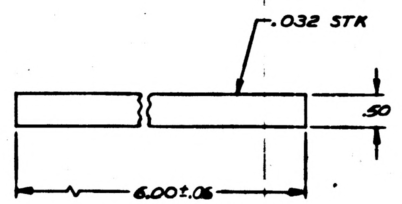
FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO [illegible] DATE [illegible]



.66
.50±.01 R
.34
.160
.56

NOTES:
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES.
3. SCALE: 2/1.

BLOCK
1014336-5



.032 STK
.50
6.00±.06

NOTES
1. MATL: RUBBER NEOPRENE SC415 PER MIL-R-3065
2. SCALE 1/1

GASKET
1014336-10

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ±.010 ANGLES ±
DO NOT SCALE THIS DRAWING

1014334	1014465
NEXT ASSY	USED ON
APPLICATION	

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-497
DRAWN
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

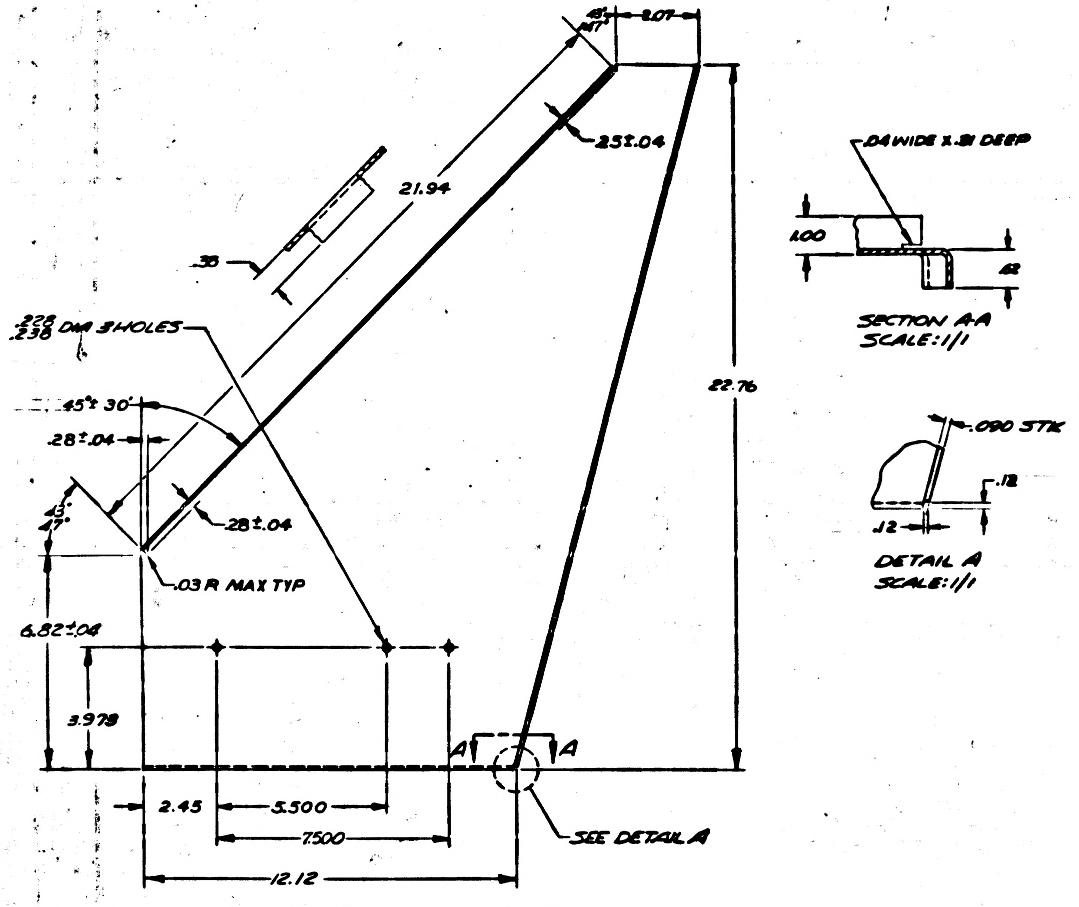
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

CODE IDENT NO. — SIZE J NASA E. NUMB NO. 1014336
SCALE NOTED
SHEET 2

1014336

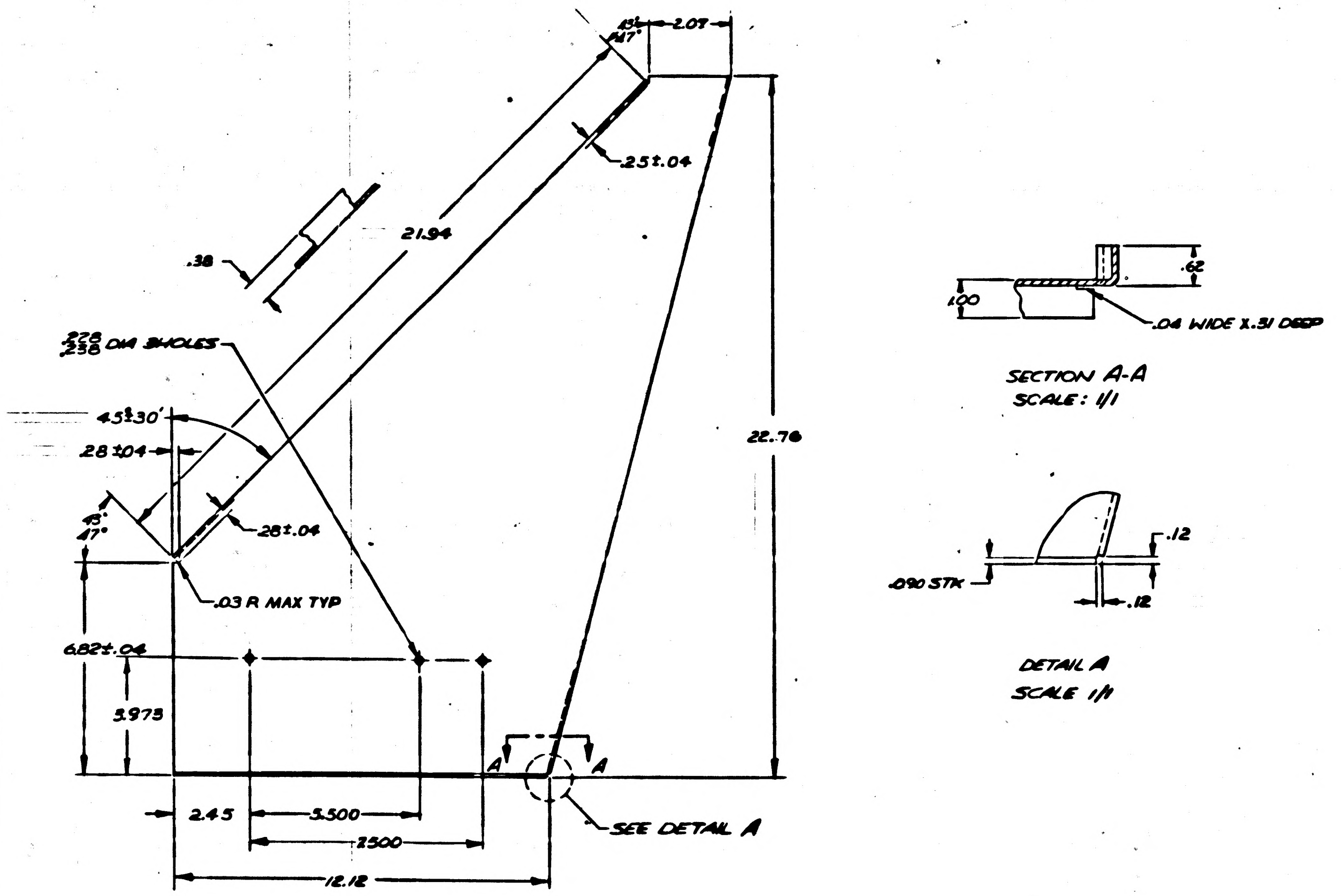
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CLASS B RELEASED PER TDRR 04137		



2.07
45° 47'
.25±.04
21.94
.38
.228 .238 DIA 3 HOLES
45°± 30'
.28±.04
45° 47'
.28±.04
.03 R MAX TYP
22.76
6.82±.04
3.978
A
A
2.45
3.500
7.500
12.12
SEE DETAIL A
.04 WIDE X .31 DEEP
1.00
.62
SECTION A-A
SCALE: 1/1
.090 STK
.12
.12
DETAIL A
SCALE: 1/1

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-318
2. ALL BEND RADII TO BE .09±.03
3. REMOVE BURRS & SHARP EDGES
4. SCALE: 1/2

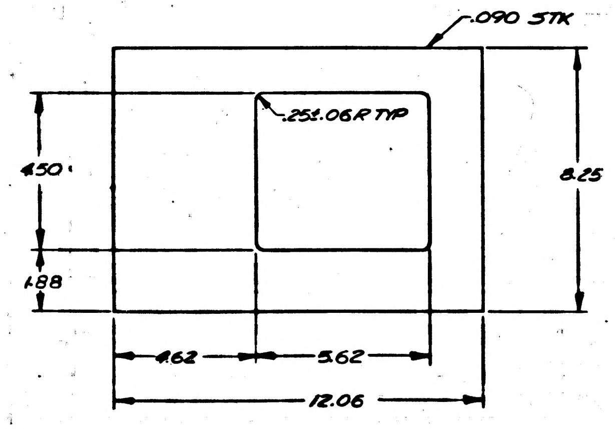
PLATE, RIGHT SIDE
1014336-1



2.07
45° 47'
.25±.04
21.94
.38
.228 .238 DIA 3 HOLES
45°±30'
.28±.04
45° 47'
.28±.04
.03 R MAX TYP
22.76
6.82±.04
3.978
A
A
2.45
3.500
7.500
12.12
SEE DETAIL A
.62
1.00
.04 WIDE X .31 DEEP
SECTION A-A
SCALE: 1/1
.12
.090 STK
.12
DETAIL A
SCALE 1/1

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-318
2. ALL BEND RADII TO BE .09±.03
3. REMOVE BURRS & SHARP EDGES
4. SCALE: 1/2

PLATE, LEFT SIDE
1014336-2



.090 STK
.25±.06 R TYP
4.50
8.25
1.88
4.62
5.62
12.06

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. SCALE: 1/2

PLATE, BOTTOM
1014336-3

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04137 DATE

1014336

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014334	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ±.010 ANGLES ±0°30'
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO. NAS 9-489
DRAWN DATE 23 SEP 63
CHECKED 23 SEP 63
APPROVAL
APPROVAL 10/14/63
NASA APPROVAL
NASA APPROVAL
MIT APPROVAL

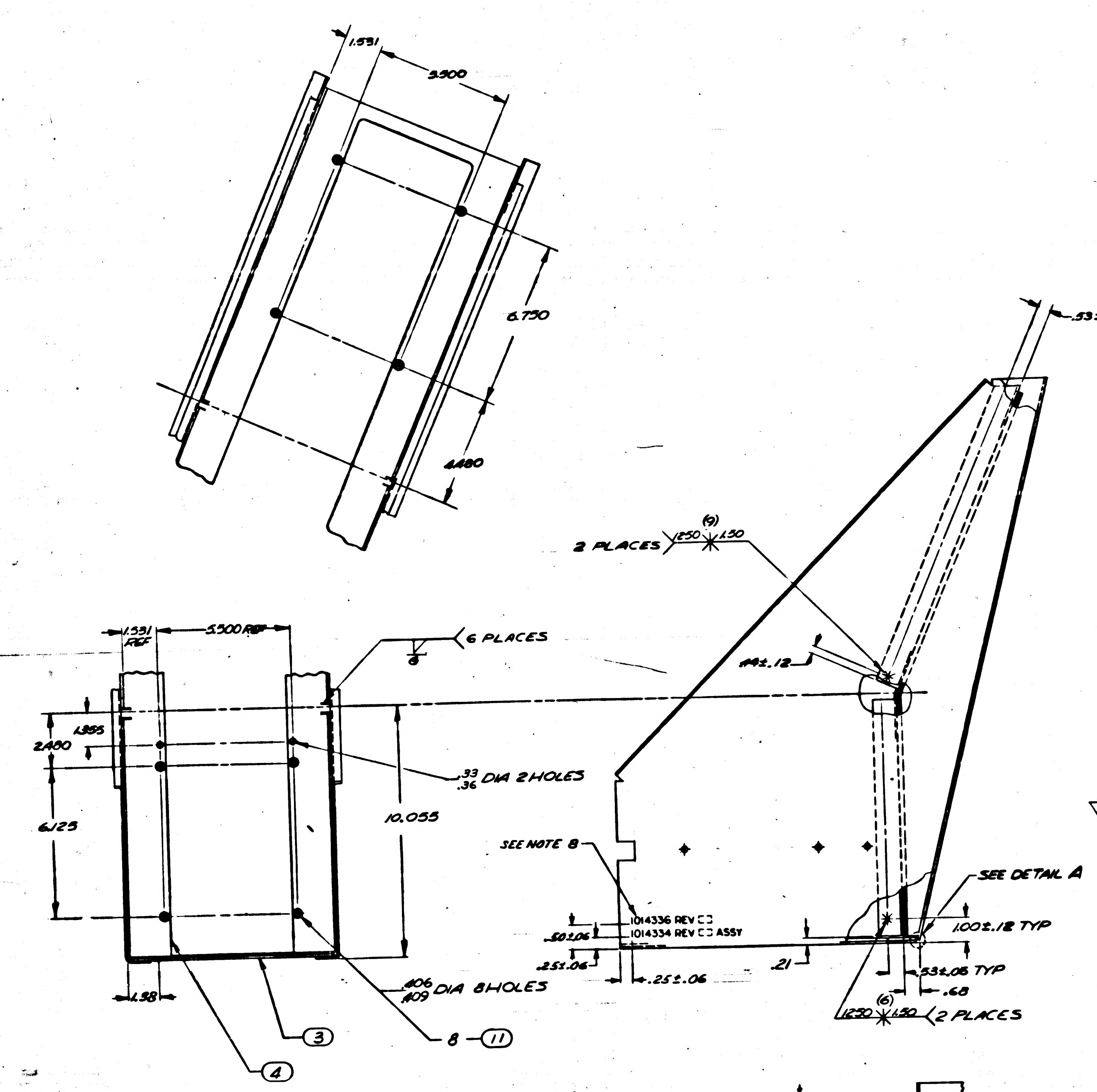
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

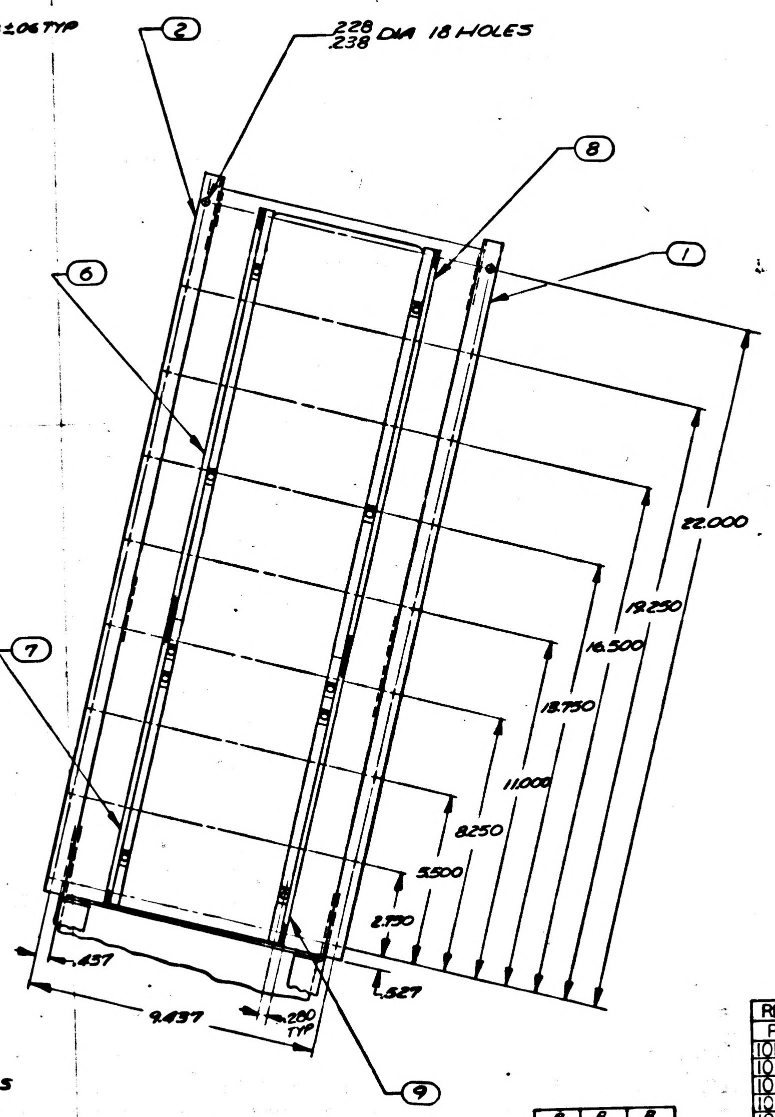
CODE IDENT NO. — SIZE J DRAWING NO. 1014336
SCALE NOTED SHEET 2

1014336

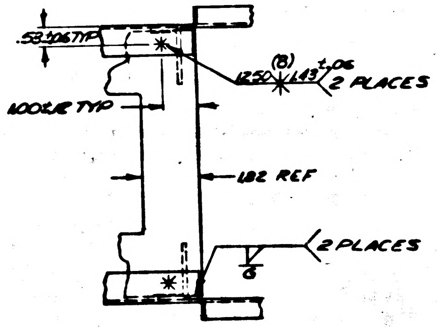
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 04157	[illegible]	[illegible]
A	CHANGED PER TDRR NO 06755 DR [illegible] CHK JWJJ APPD	10 MAR 64	[illegible]
B	CHANGED PER TDRR 1049. DR [illegible] CHK [illegible] APPD	22 JULY 64	KWB



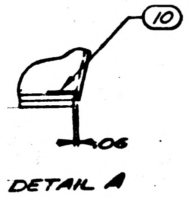
1.531
3.500
6.750
4.480
1.531 REF
5.500 REF
6 PLACES
1.355
2.480
6.125
10.055
.33 .36 DIA 2 HOLES
.106 .109 DIA 8 HOLES
1.38
3
4
8 — 11
2 PLACES .250 (9) 1.50
.53±.06 TYP
1.44±.12
SEE NOTE 8
1014336 REV
1014334 REV ASSY
.50±.06
.25±.06
.25±.06
.21
SEE DETAIL A
1.00±.12 TYP
.53±.06 TYP
.68
.250 (6) 1.50 2 PLACES



2
.228 .238 DIA 18 HOLES
8
1
6
7
22.000
19.250
16.500
13.750
11.000
8.250
5.500
2.750
.457
.527
9.437
.280 TYP
9



.53±.06 TYP
1.00±.12 TYP
.250 (8) 1.43 +.06 2 PLACES
.182 REF
2 PLACES



DETAIL A
SCALE 1/1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04157 DATE 14-4-63

NOTES:
1. WELD PER MIL-W-6858.
2. WELD PER MIL-W-6804.
3. CHROMATE TREAT PER MIL-C-5541
4. PAINT 1 COAT TT-E-529 CLASS B FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II.
5. SURFACES TO BE BONDED SHALL BE FREE OF PAINT
6. BOND FIND NO. 6,7,8,9 & 10 TO THE ASSY OF FIND NO. 1,2,3,4, & 11
7. NUMBERS PROCEDING BALLOONS INDICATE QUANTITIES
8. MARK .12 HIGH BLACK PER ND1002019

B	B	B
A	—	—
SH1	SH2	SH3

REV STATUS OF SHEETS

REV STATUS OF PARTS	
PART NO.	REV SYM
1014336-1	B
1014336-2	B
1014336-3	—
1014336-4	B
1014336-5	—
1014336-6	—
1014336-7	—
1014336-8	—
1014336-9	—
1014336-10	—

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
~~3~~	~~1006999-11~~	~~[illegible]~~	~~12~~
8	1006999-12	NUT, PLAIN, FLOATING	11
1	1014336-10	GASKET, RUBBER	10
1	1014336-9	GASKET, RFI BOTTOM RH	9
1	1014336-8	GASKET, RFI TOP RH	8
1	1014336-7	GASKET, RFI BOTTOM LH	7
1	1014336-6	GASKET, RFI TOP LH	6
~~2~~	~~1014336-5~~	~~BLOCK~~	~~5~~
1	1014336-4	SUPPORT	4
1	1014336-3	PLATE, BOTTOM	3
1	1014336-2	PLATE, LEFT SIDE	2
1	1014336-1	PLATE, RIGHT SIDE	1

LIST OF MATERIALS

1014334	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ±.016 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

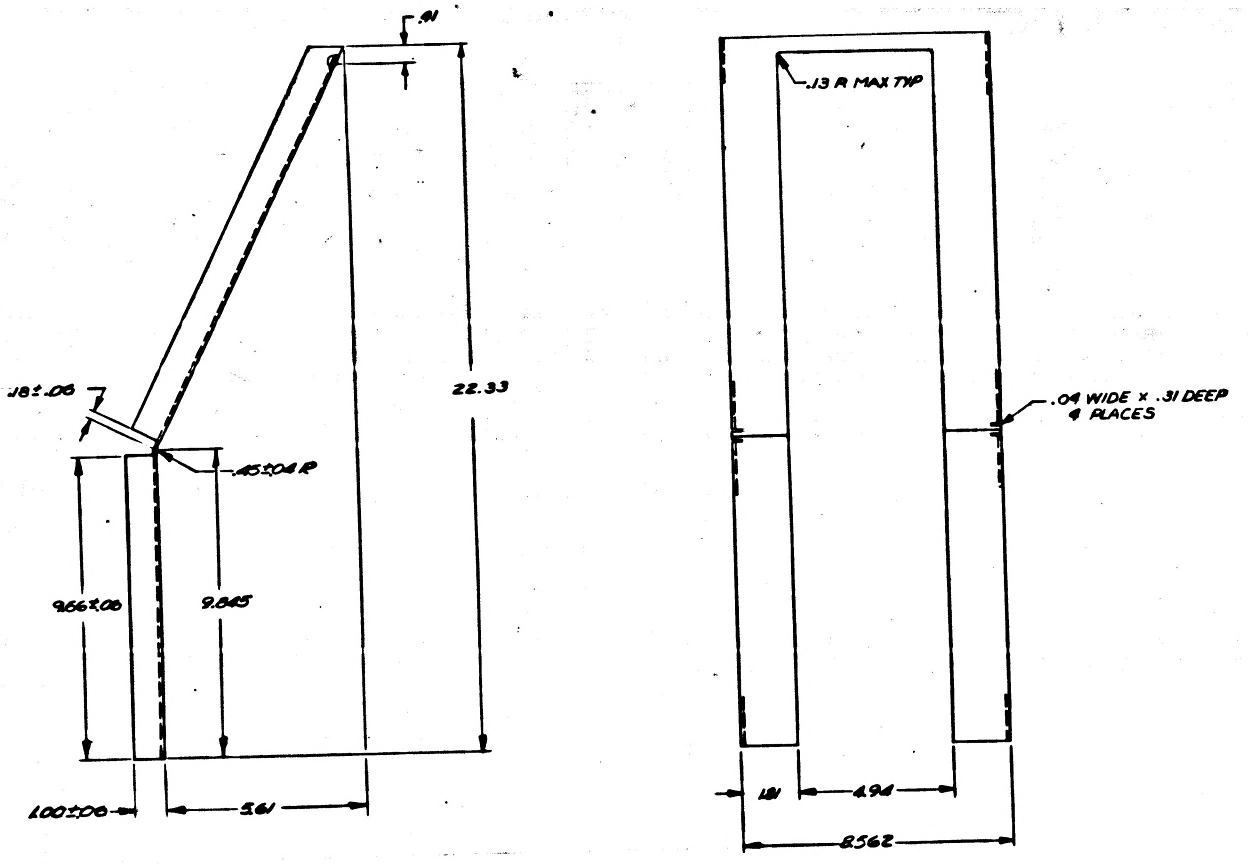
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-489
DRAWN [illegible] DATE [illegible]
CHECKED [illegible] 28 SEP 63
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

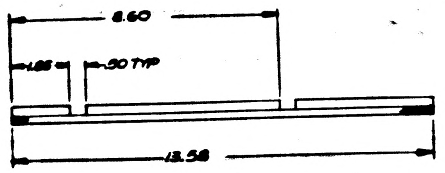
CODE IDENT NO. — SIZE J NASA DRAWING NO. 1014336
SCALE 1/2 WT SHEET 1 OF 3

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
B	CHANGED PER TDRR 10445 DR Fl CHK APPD	22 Jun 64	KLG


.41
22.33
.18±.06
.45±.04 R
9.66±.06
9.845
1.00±.06
5.61
.13 R MAX TYP
.04 WIDE x .31 DEEP 4 PLACES
1.81
4.94
8.562

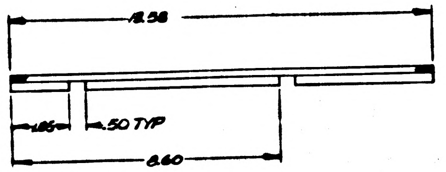
NOTES
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. SCALE: 1/2

SUPPORT
1014336-4


8.60
1.86
.50 TYP
13.58

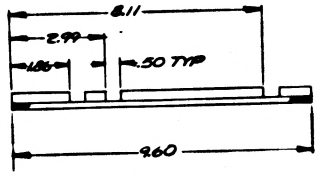
NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

GASKET, RFI
TOP LH
1014336-6


13.58
1.86
.50 TYP
8.60

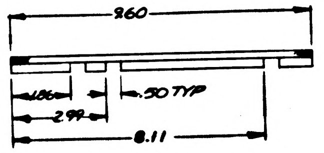
NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

GASKET, RFI
TOP RH
1014336-8


8.11
2.99
1.86
.50 TYP
9.60

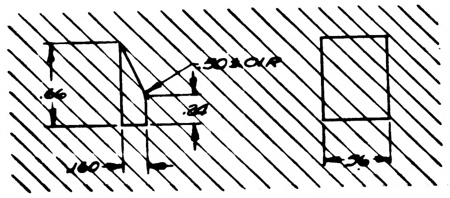
NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

GASKET, RFI
BOTTOM LH
1014336-7


9.60
1.86
.50 TYP
2.99
8.11

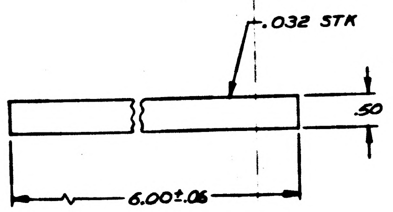
NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

GASKET, RFI
BOTTOM RH
1014336-9


.50±.01R
.66
.24
1.60
.36

NOTES:
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES.
3. SCALE: 2/1

BLOCK
1014336-5


.032 STK
.50
6.00±.06

NOTES
1. MATL: RUBBER NEOPRENE SC415 PER MIL-R-3065
2. SCALE 1/1

GASKET
1014336-10

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014334	1014465
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-497
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
QUALITY APPROVAL
NASA APPROVAL

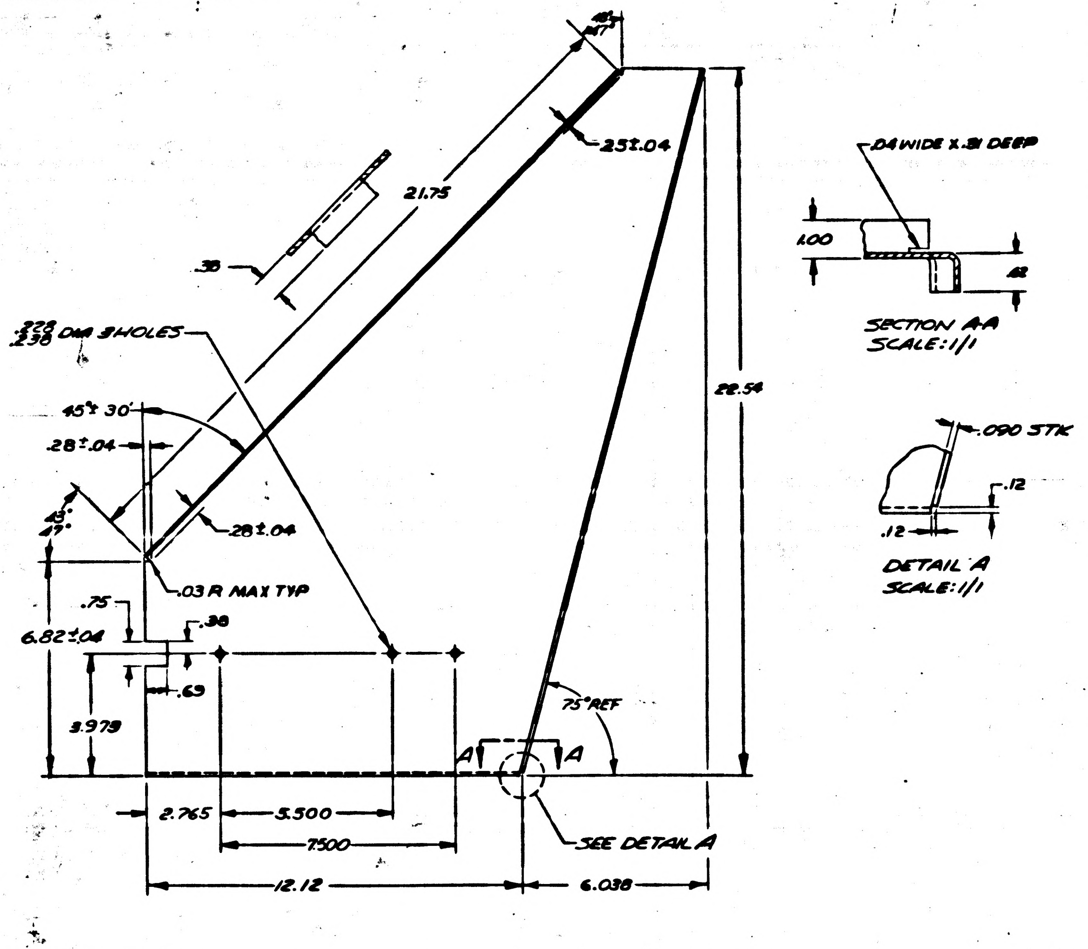
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

CODE IDENT NO. SIZE J NASA DRAWING NO. 1014336
SCALE NOTED WT SHEET 2 OF 3

1014336

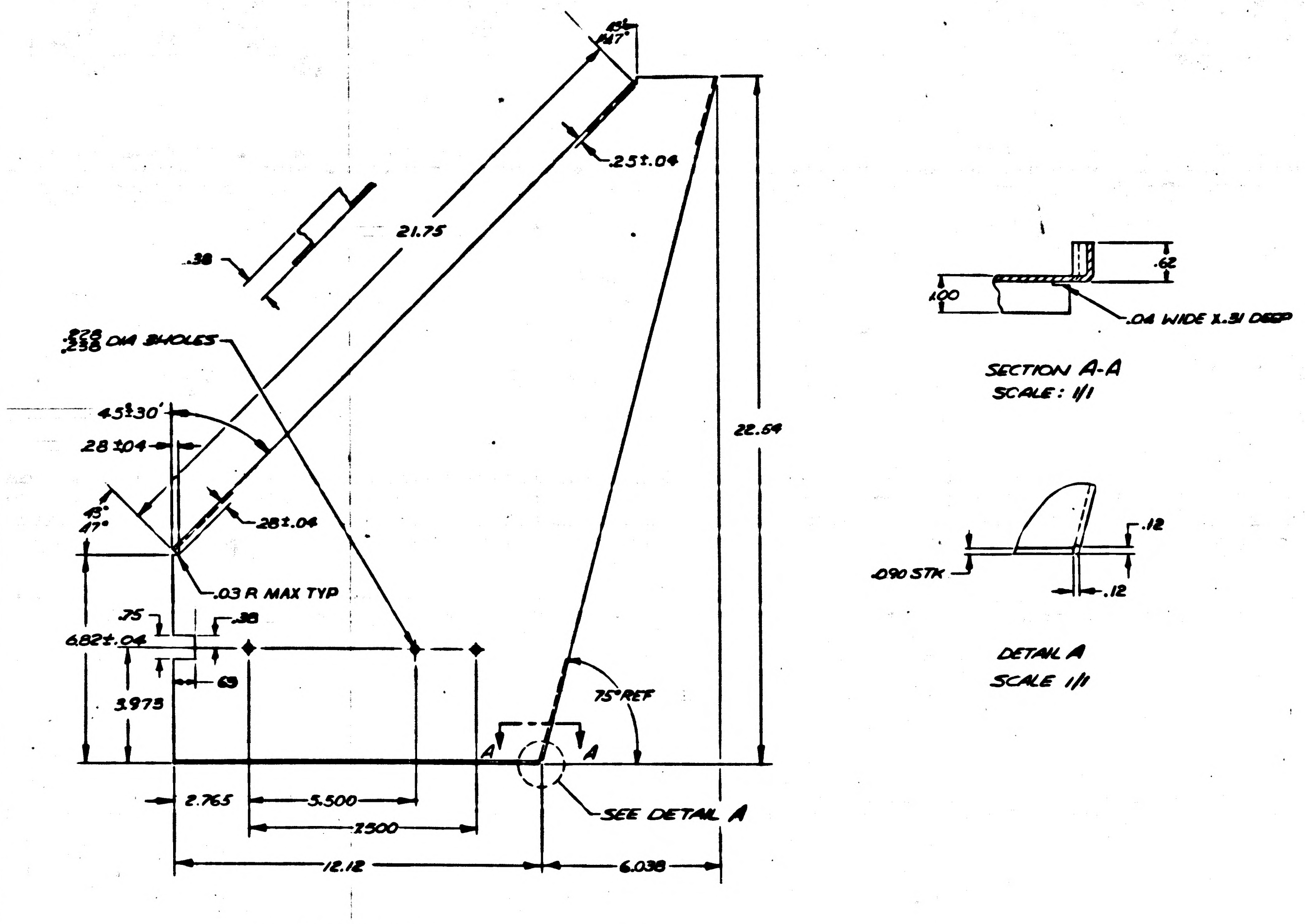
SYM	DESCRIPTION	DATE	APPROVED
	~~CLASS B RELEASED PER TDRR 09137~~		
B	CHANGED PER TDRR 10995 DR CHK APPD	22 July 64	



21.75
.25±.04
.38
.228 .238 DIA 3 HOLES
45°±30'
.28±.04
.28±.04
43° 47°
.03 R MAX TYP
.75
.38
6.82±.04
.63
3.979
75° REF
22.54
A
A
2.765
5.500
7.500
12.12
6.038
SEE DETAIL A
.04 WIDE X .31 DEEP
1.00
.62
SECTION A-A SCALE: 1/1
.090 STK
.12
.12
DETAIL A SCALE: 1/1

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-318
2. ALL BEND RADII TO BE .09±.03
3. REMOVE BURRS & SHARP EDGES.
4. SCALE: 1/2

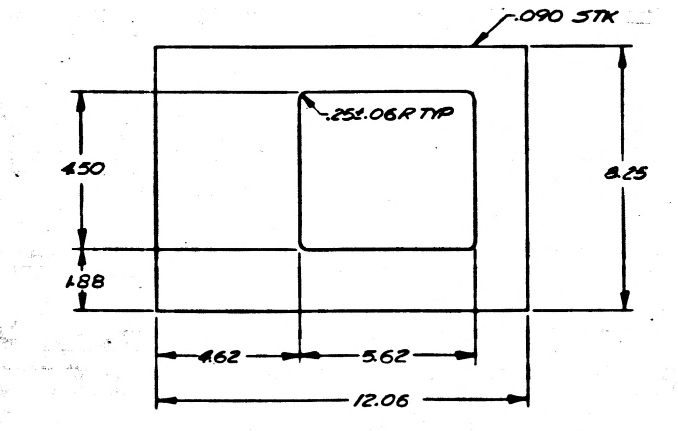
PLATE, RIGHT SIDE
1014336-1



21.75
.25±.04
.38
.228 .238 DIA 3 HOLES
45°±30'
.28±.04
.28±.04
43° 47°
.03 R MAX TYP
.75
.38
6.82±.04
.63
3.975
75° REF
22.54
A
A
2.765
5.500
7.500
12.12
6.038
SEE DETAIL A
.62
1.00
.04 WIDE X .31 DEEP
SECTION A-A SCALE: 1/1
.090 STK
.12
.12
DETAIL A SCALE 1/1

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-318
2. ALL BEND RADII TO BE .09±.03
3. REMOVE BURRS & SHARP EDGES.
4. SCALE: 1/2

PLATE, LEFT SIDE
1014336-2



.090 STK
.25±.06 R TYP
4.50
8.25
1.88
4.62
5.62
12.06

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. SCALE: 1/2

PLATE, BOTTOM
1014336-3

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 09137 DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014334	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ±.016 ANGLES ±0°30'
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-[illegible]
DRAWN DATE 15 SEP 63
CHECKED 20 SEP 63
APPROVAL 14 OCT 63
APPROVAL 10/14/63
NASA APPROVAL
GOVT APPROVAL
UNIT APPROVAL

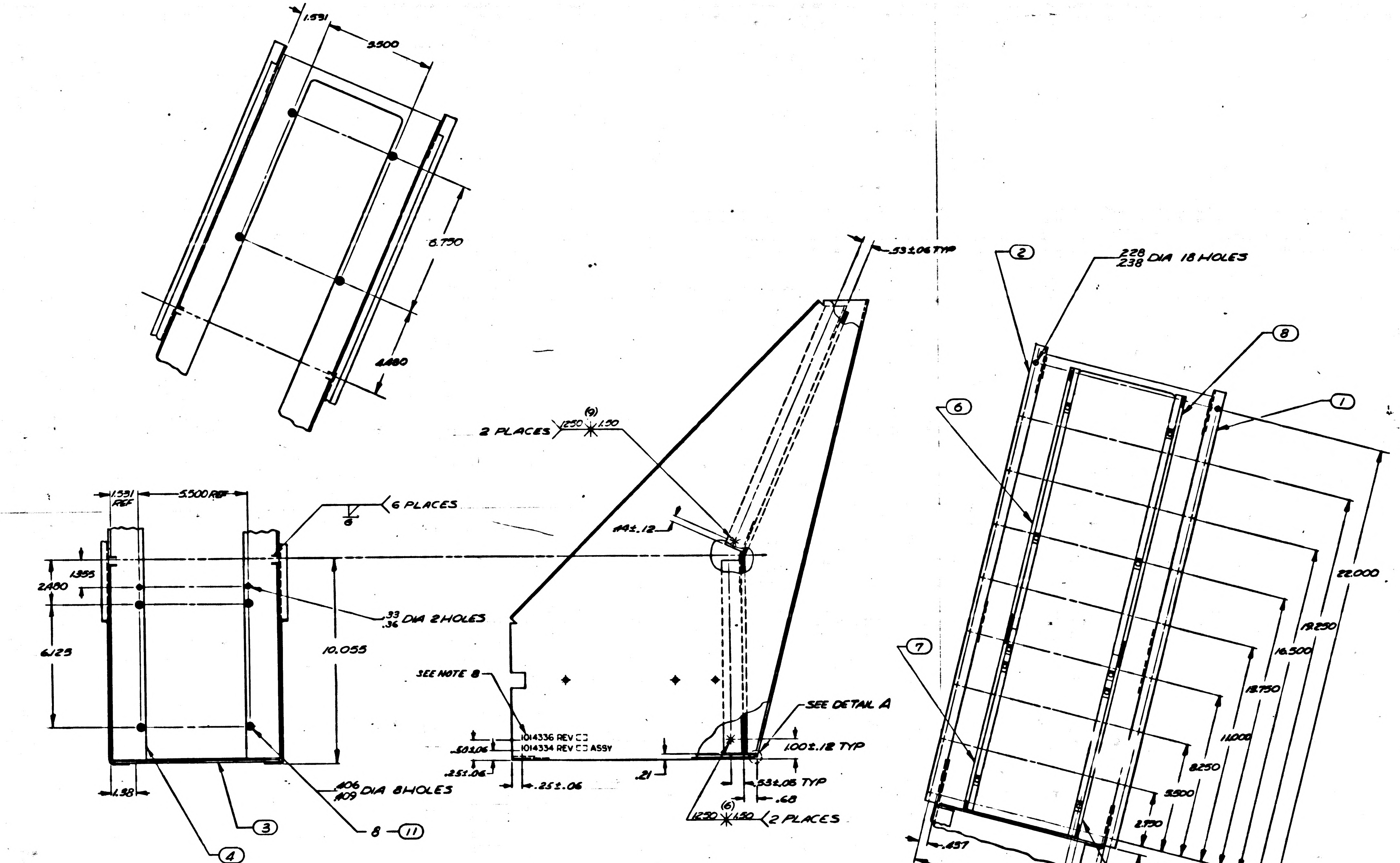
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

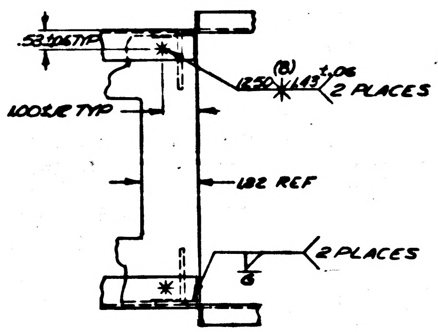
CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

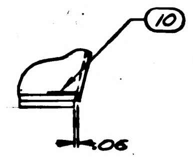
CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014336
SCALE NOTED
WT
SHEET 2 OF 2

1014336

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 04137	10-4-63	WK
A	CHANGED PER TDRR NO 06755 DR CHK JWJJ APPD	10 MAR 64	KGB
B	CHANGED PER TDRR 10495 DR Fischer CHK APPD	22 JULY 64	KGB
C	CHANGED PEP TDRR 11456 DR Fischer CHK QGC APPD	19 AUGUST 64	KGB


1.531
3.500
6.750
2.480
1.531 REF
5.500 REF
6 PLACES
1.355
2.480
6.125
10.055
.33
.36 DIA 2 HOLES
1.38
.406
.409 DIA 8 HOLES
3
4
8 — 11
.53±.06 TYP
2 PLACES
(9)
1250
1.50
.44±.12
SEE NOTE 8
1014336 REV
1014334 REV ASSY
.50±.06
.25±.06
.25±.06
.21
SEE DETAIL A
1.00±.12 TYP
.53±.05 TYP
.68
(6)
1250
1.50
2 PLACES
2
.228
.238 DIA 18 HOLES
8
1
6
7
22.000
19.250
16.500
13.750
11.000
8.250
5.500
2.750
.437
9.437
.280 TYP
.527
9


.53±.06 TYP
1.00±.12 TYP
(8)
1250
1.49
±.06
2 PLACES
1.82 REF
2 PLACES



DETAIL A
SCALE 1/1

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 04137 DATE 10-4-63

NOTES:

1. WELD PER MIL-W-6858.
2. WELD PER MIL-W-6804.
3. CHROMATE TREAT PER MIL-C-5541
4. PAINT 1 COAT TT-E-529 CLASS B FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II.
5. SURFACES TO BE BONDED SHALL BE FREE OF PAINT
6. BOND FIND NO. 6,7,8,9 & 10 TO THE ASSY OF FIND NO. 1,2,3,4, & 11
7. NUMBERS PROCEDING BALLOONS INDICATE QUANTITIES
8. MARK .12 HIGH BLACK PER ND1002019

REV STATUS OF PARTS	
PART NO.	REV SYM
1014336-1	C
1014336-2	C
1014336-3	C
1014336-4	B
1014336-5	—
1014336-6	—
1014336-7	—
1014336-8	—
1014336-9	—
1014336-10	—

C	B	C
B	B	B
A	—	—
—	—	—
SH 1	SH 2	SH 3
REV STATUS OF SHEETS		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
~~3~~	~~1006999-11~~	~~NUT, PLAIN, FLOATING~~	~~12~~
8	1006999-12	NUT, PLAIN, FLOATING	11
1	1014336-10	GASKET, RUBBER	10
1	1014336-9	GASKET, RFI BOTTOM RH	9
1	1014336-8	GASKET, RFI TOP RH	8
1	1014336-7	GASKET, RFI BOTTOM LH	7
1	1014336-6	GASKET, RFI TOP LH	6
~~2~~	~~1014336-5~~	~~BLOCK~~	~~5~~
1	1014336-4	SUPPORT	4
1	1014336-3	PLATE, BOTTOM	3
1	1014336-2	PLATE, RIGHT SIDE	2
1	1014336-1	PLATE, LEFT SIDE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014334	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ±.015 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-497
DRAWN DATE 25 Sep 63
CHECKED 28 SEP 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
ACT APPROVAL

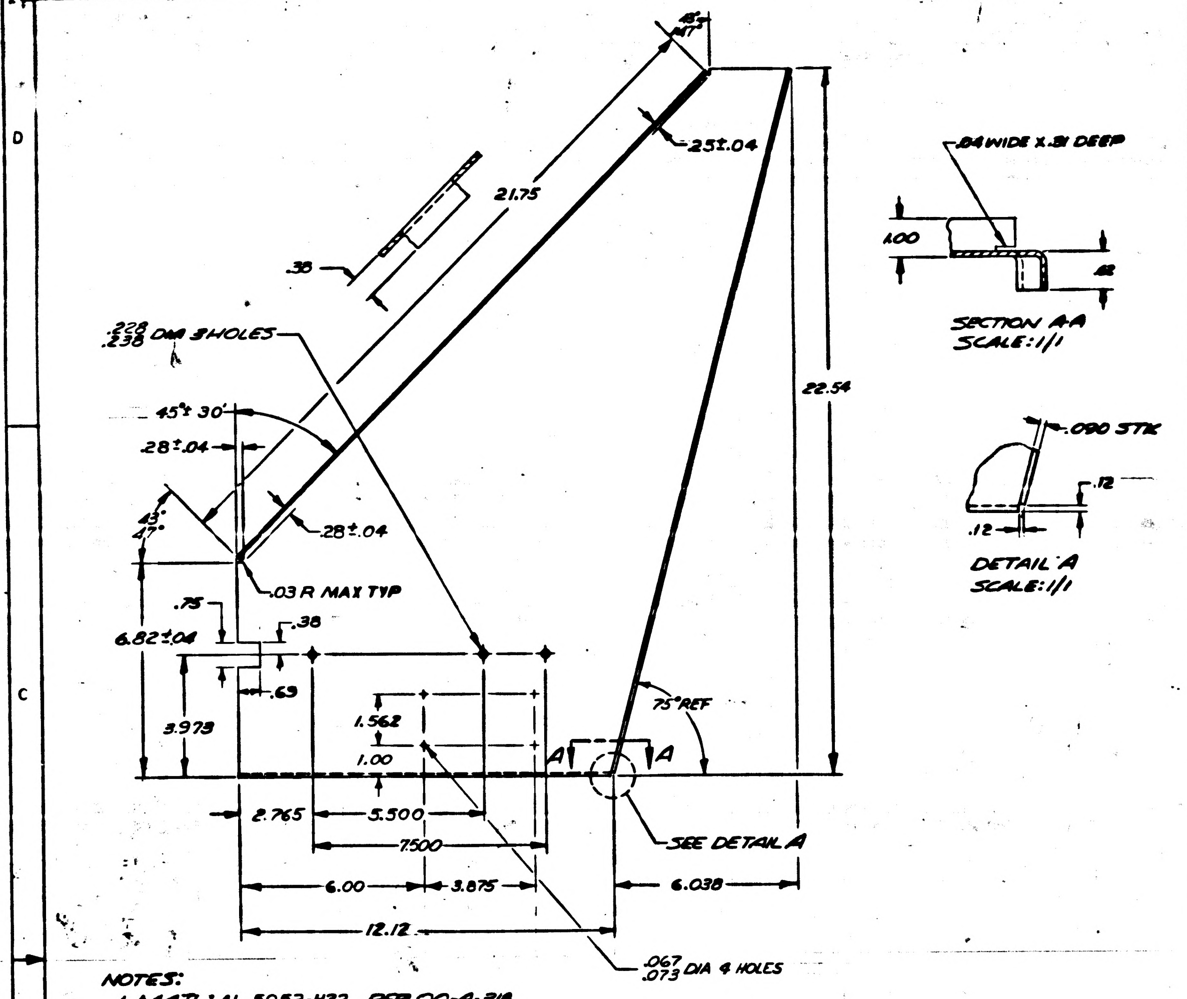
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014336
SCALE 1/2
WT
SHEET 1 OF

1014336

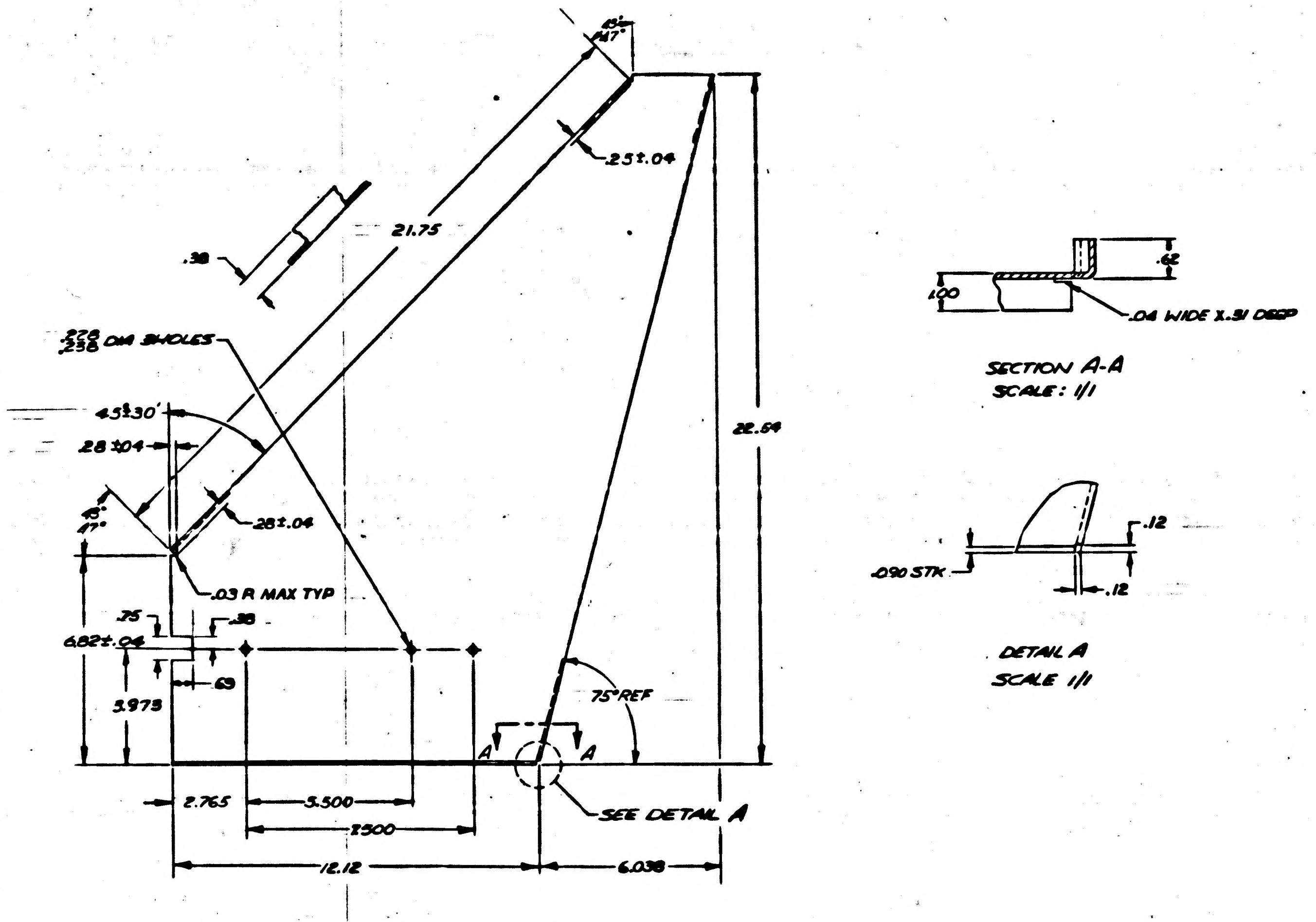
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
B	CHANGED PER TDRR 10495 DR CHK APPD	2 July 64	
C	CHANGED PER TDRR 11456 DR F. CHK G.G.C. APPD	Dec 64	KCB



45° 47°
.25±.04
21.75
.38
.228 .238 DIA 3 HOLES
45°±30'
.28±.04
.28±.04
45° 47°
.03 R MAX TYP
.75
.38
6.82±.04
.63
3.973
1.562
1.00
A
A
75°REF
22.54
2.765
5.500
7.500
6.00
3.875
12.12
6.038
SEE DETAIL A
.067 .073 DIA 4 HOLES
.04 WIDE X.31 DEEP
1.00
.62
SECTION A-A SCALE: 1/1
.090 STK
.12
.12
DETAIL A SCALE: 1/1

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-318
2. ALL BEND RADII TO BE .09±.03
3. REMOVE BURRS & SHARP EDGES.
4. SCALE: 1/2

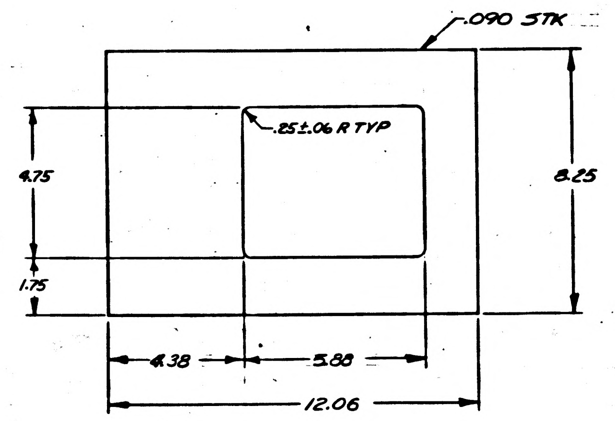
PLATE, LEFT SIDE
1014336-1



45° 47°
.25±.04
21.75
.38
.228 .238 DIA 3 HOLES
45±30'
.28±.04
.28±.04
45° 47°
.03 R MAX TYP
.75
.38
6.82±.04
.63
3.973
A
A
75°REF
22.54
2.765
5.500
7.500
12.12
6.038
SEE DETAIL A
.62
1.00
.04 WIDE X.31 DEEP
SECTION A-A SCALE: 1/1
.12
.090 STK
.12
DETAIL A SCALE 1/1

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-318
2. ALL BEND RADII TO BE .09±.03
3. REMOVE BURRS & SHARP EDGES.
4. SCALE: 1/2

PLATE, RIGHT SIDE
1014336-2



.090 STK
.25±.06 R TYP
4.75
1.75
8.25
4.38
5.88
12.06

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. SCALE: 1/2

PLATE, BOTTOM
1014336-3

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04137 DATE 10/1/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014334	1014465
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ±.016 ANGLES ±0°30'
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

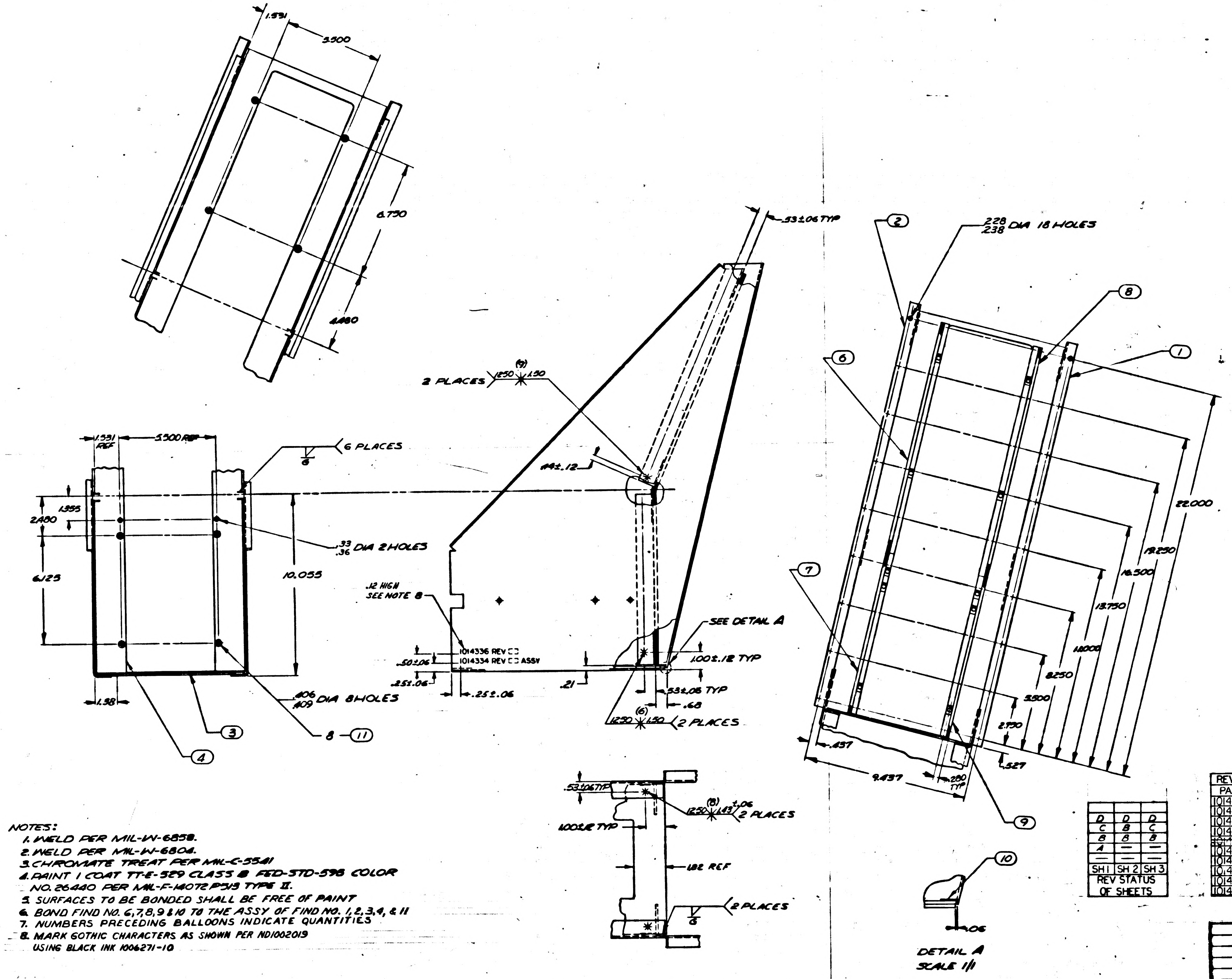
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-497
DRAWN DATE 4 SEP 63
CHECKED 28 SEP 63
APPROVAL 14 OCT 63
APPROVAL 10/14/63
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014336
SCALE NOTED WT SHEET 2 OF 2

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 04137		
A	CHANGED PER TDRR NO 06755 DR CHK JWJJ APPD	10 MAR 64	KGB
B	CHANGED PER TDRR 10495 DR Fitchen CHK APPD	22 JULY 64	KLB
C	CHANGED PEP TDRR 11456 DR Fitchen CHK AGC APPD	19 AUGUST 64	KLB
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 15616 DR J.P. Leonard CHK KAC APPD	4 FEB 65	



1.531
3.500
6.750
2.480
.53±.06 TYP
.228 / .238 DIA 18 HOLES
2
8
1
6
2 PLACES .1250 (9) .150
.44±.12
1.531 REF
3.500 REF
6 PLACES
1.355
2.490
6.125
10.055
.33 / .36 DIA 2 HOLES
.12 HIGH SEE NOTE 8
1014336 REV
1014334 REV ASSY
.50±.06
.25±.06
.25±.06
.21
SEE DETAIL A
1.00±.12 TYP
.53±.06 TYP
.68
.1250 (6) .150 2 PLACES
1.38
.406 / .409 DIA 8 HOLES
4
3
8 - 11
22.000
19.250
16.500
13.750
11.000
8.250
5.500
2.750
7
.437
9.437
.280 TYP
.527
9
10
.53±.06 TYP
1.00±.12 TYP
.1250 (8) .143 ±.06 2 PLACES
.182 REF
2 PLACES
.06
DETAIL A
SCALE 1/1

NOTES:

1. WELD PER MIL-W-6858.
2. WELD PER MIL-W-6804.
3. CHROMATE TREAT PER MIL-C-5541
4. PAINT 1 COAT TT-E-529 CLASS B FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II.
5. SURFACES TO BE BONDED SHALL BE FREE OF PAINT
6. BOND FIND NO. 6,7,8,9 & 10 TO THE ASSY OF FIND NO. 1,2,3,4, & 11
7. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES
8. MARK GOTHIC CHARACTERS AS SHOWN PER ND1002019 USING BLACK INK 1006271-10

D	D	D
C	B	C
B	B	B
A	—	—
—	—	—
SH 1	SH 2	SH 3
REV STATUS OF SHEETS		

REV STATUS OF PARTS	
PART NO.	REV SYM
1014336-1	D
1014336-2	D
1014336-3	D
1014336-4	D
~~1014336-5~~	~~—~~
1014336-6	—
1014336-7	D
1014336-8	—
1014336-9	D
1014336-10	D

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
~~3~~	~~1006999-11~~	~~NUT, [illegible]~~	~~12~~
8	1006999-12	NUT, PLAIN, FLOATING	11
1	1014336-10	GASKET, RUBBER	10
1	1014336-9	GASKET, RFI BOTTOM RH	9
1	1014336-8	GASKET, RFI TOP RH	8
1	1014336-7	GASKET, RFI BOTTOM LH	7
1	1014336-6	GASKET, RFI TOP LH	6
~~2~~	~~1014336-5~~	~~BLOCK~~	~~5~~
1	1014336-4	SUPPORT	4
1	1014336-3	PLATE, BOTTOM	3
1	1014336-2	PLATE, RIGHT SIDE	2
1	1014336-1	PLATE, LEFT SIDE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014334	
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ±.016 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-4B9
DRAWN DATE 12 Sep 63
CHECKED 28 SEP 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

CODE IDENT NO. — SIZE J NASA DRAWING NO. 1014336
SCALE 1/2 WT SHEET 1 OF 3

1014336

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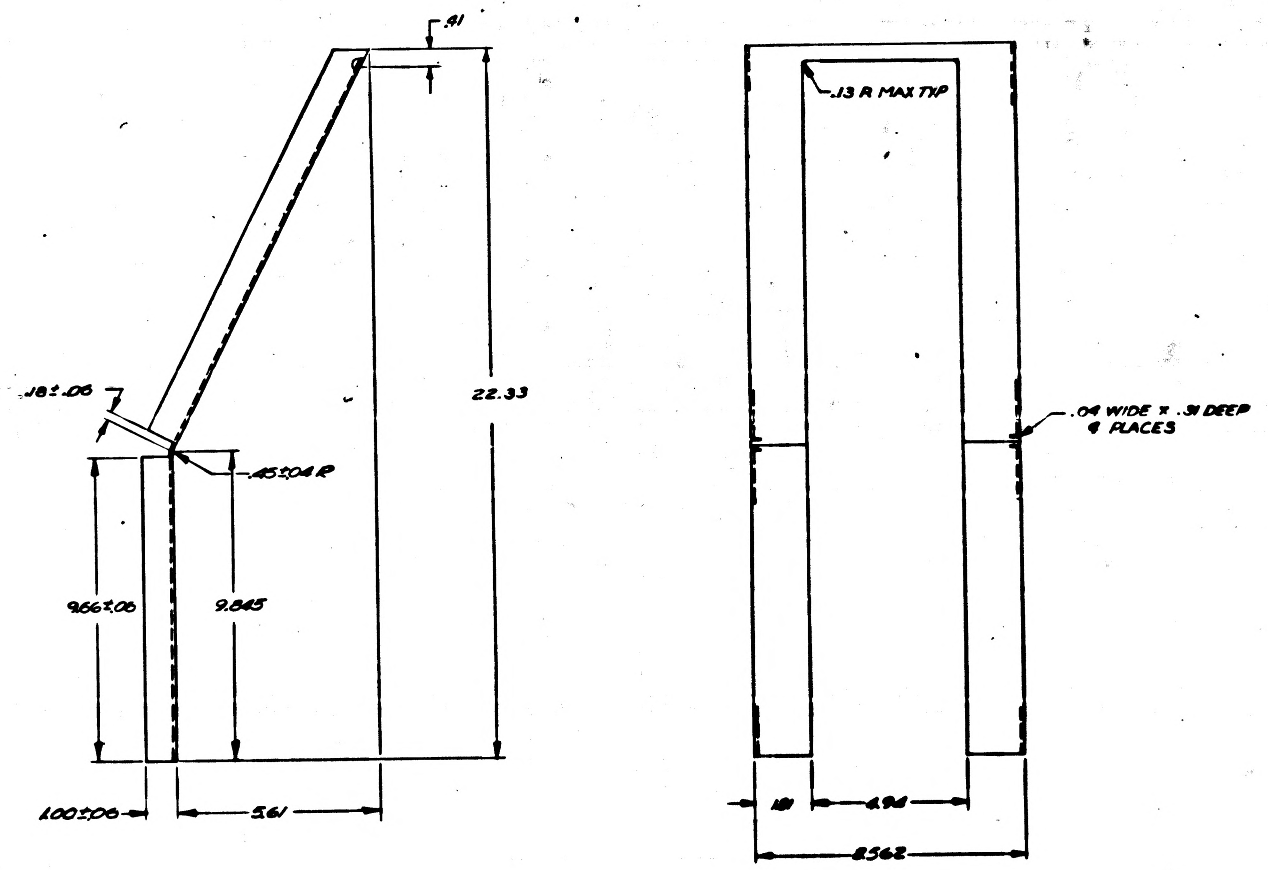
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

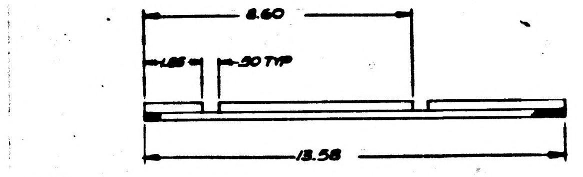
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
B	CHANGED PER TDRR 10445 DR Fisher CHK	22 Jun 64	
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 15616 DR J.P. Leonard CHK KAC APPD	4 Feb 65	



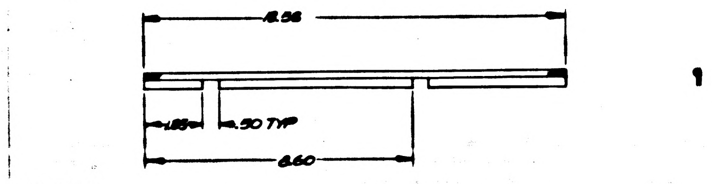
NOTES
1. MATL: AL 5052-H32 PER QQ-A-250/8
2. REMOVE BURRS & SHARP EDGES
3. SCALE: 1/2
4. TOLERANCE ±.03, ±.016

SUPPORT
1014336-4



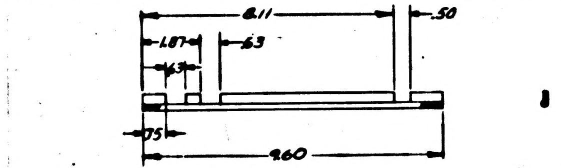
NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

GASKET, RFI
TOP LH
1014336-6



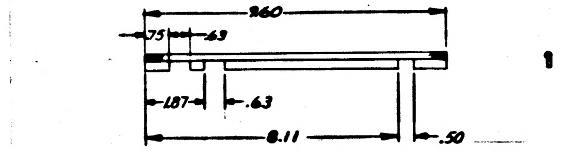
NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

GASKET, RFI
TOP RH
1014336-8



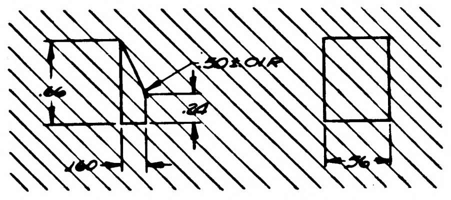
NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

GASKET, RFI
BOTTOM LH
1014336-7



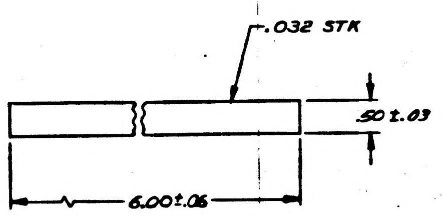
NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

GASKET, RFI
BOTTOM RH
1014336-9



~~NOTES:~~
~~1. MATL: AL 6061-T6 PER QQ-A-327~~
~~2. REMOVE BURRS & SHARP EDGES.~~
~~3. SCALE: 2/1~~

~~BLOCK~~
~~1014336-5~~



NOTES
1. MATL: RUBBER NEOPRENE SC415 PER MIL-R-3065
2. SCALE 1/1

GASKET
1014336-10

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

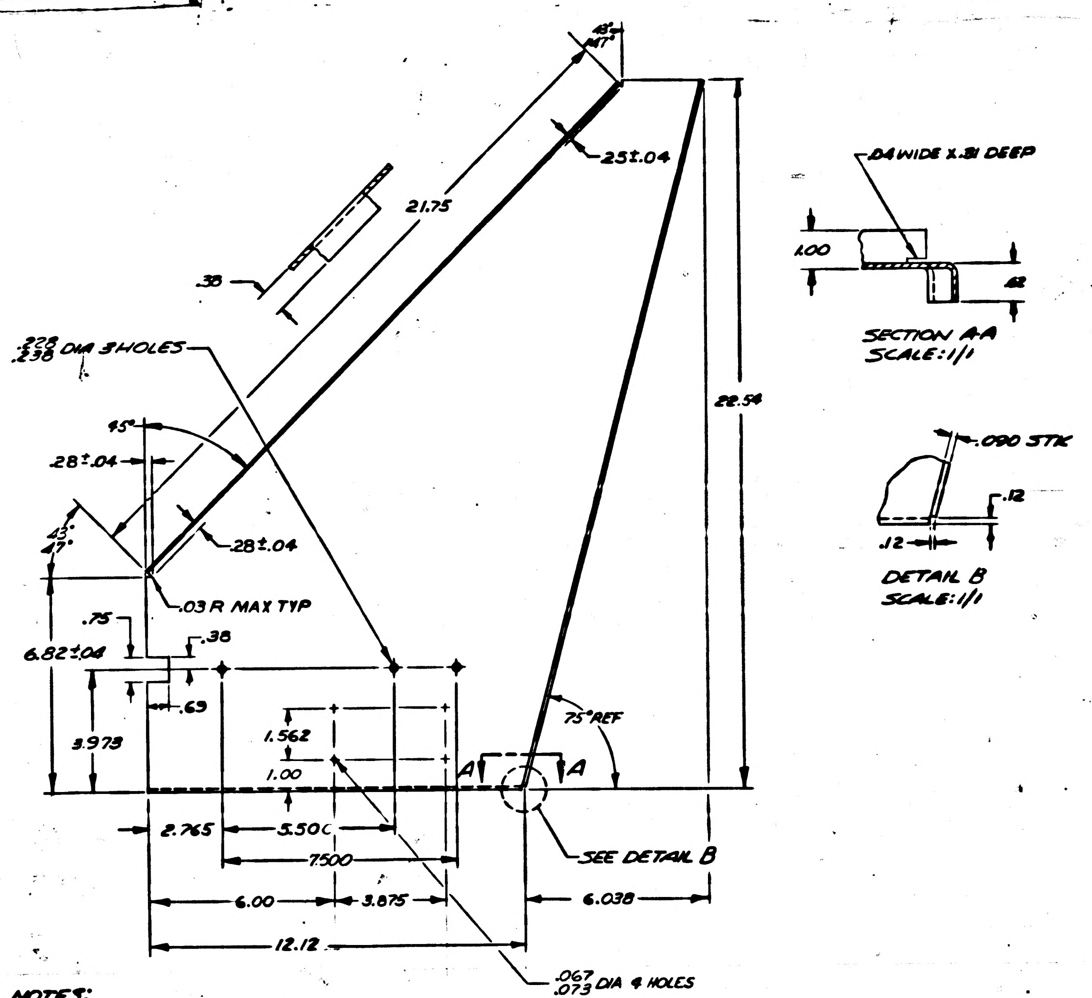
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED 28 SEP 62
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014336
SCALE NOTED
WT
SHEET 2 OF 3

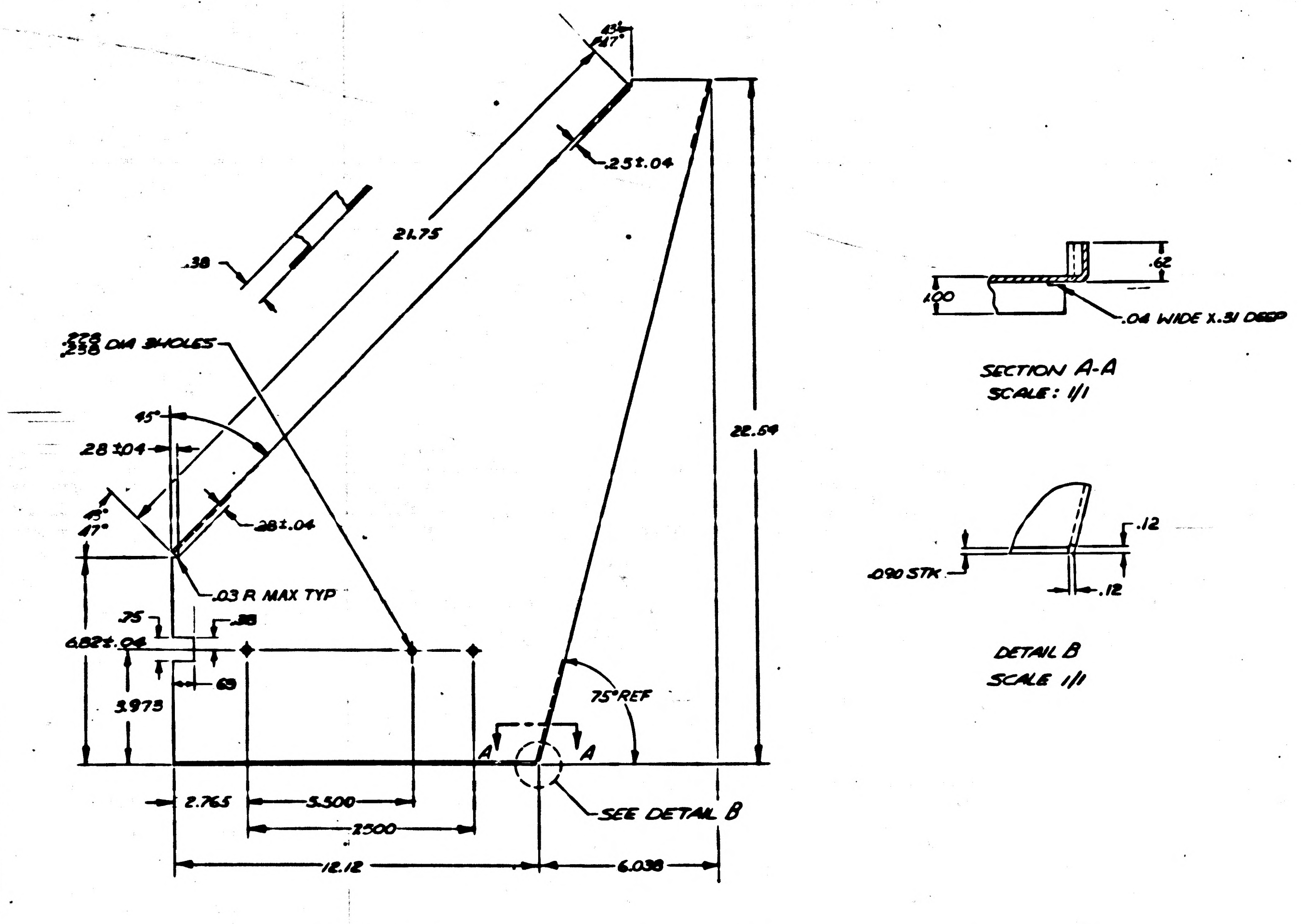
SYM	DESCRIPTION	DATE	APPROVED
-	~~CLASS B RELEASED PER TDRR~~		
B	CHANGED PER TDRR 10445 DR F. Nolan CHK APPD	22 Jul 64	
C	CHANGED PER TDRR 11456 DR F Nolan CHK Q.G.C. APPD	19 Aug 64	NCB
D	UPGRADE TO CLASS A WITH CHANGE PER TPRR 15616 DR J.P. Leonard CHK KLC APPD	9 FEB 65	NCB



43°
47°
.25±.04
21.75
.38
.228
.238 DIA 3 HOLES
45°
.28±.04
.28±.04
43°
47°
.03 R MAX TYP
.75
.38
6.82±.04
.69
3.975
1.562
1.00
A
A
75° REF
22.54
2.765
5.500
7.500
SEE DETAIL B
6.00
3.875
6.038
12.12
.067
.073 DIA 4 HOLES
.04 WIDE X .31 DEEP
1.00
.62
SECTION A-A
SCALE: 1/1
.090 STK
.12
.12
DETAIL B
SCALE: 1/1

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-250/8
2. ALL BEND RADII TO BE .09±.03
3. REMOVE BURRS & SHARP EDGES.
4. SCALE: 1/2
5. TOLERANCES: DECIMALS ±.03, ±.016, ANGLES ±0°30'

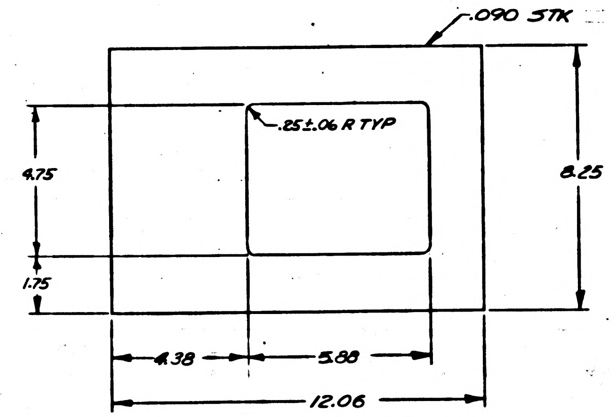
PLATE, LEFT SIDE
1014336-1



43°
47°
.25±.04
21.75
.38
.228
.238 DIA 3 HOLES
45°
.28±.04
.28±.04
43°
47°
.03 R MAX TYP
.75
.38
6.82±.04
.69
3.975
A
A
75° REF
22.54
2.765
5.500
7.500
SEE DETAIL B
12.12
6.038
1.00
.62
.04 WIDE X .31 DEEP
SECTION A-A
SCALE: 1/1
.090 STK
.12
.12
DETAIL B
SCALE 1/1

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-250/8
2. ALL BEND RADII TO BE .09±.03
3. REMOVE BURRS & SHARP EDGES.
4. SCALE: 1/2
5. TOLEANCES: DECIMALS ±.03, ±.016, ANGLES ±0°30'

PLATE, RIGHT SIDE
1014336-2



.090 STK
.25±.06 R TYP
4.75
1.75
8.25
4.38
5.88
12.06

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-250/8
2. REMOVE BURRS & SHARP EDGES
3. SCALE: 1/2
4. TOLERANCES: ±.03

PLATE, BOTTOM
1014336-3

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

NEXT ASSY	USED ON
APPLICATION	

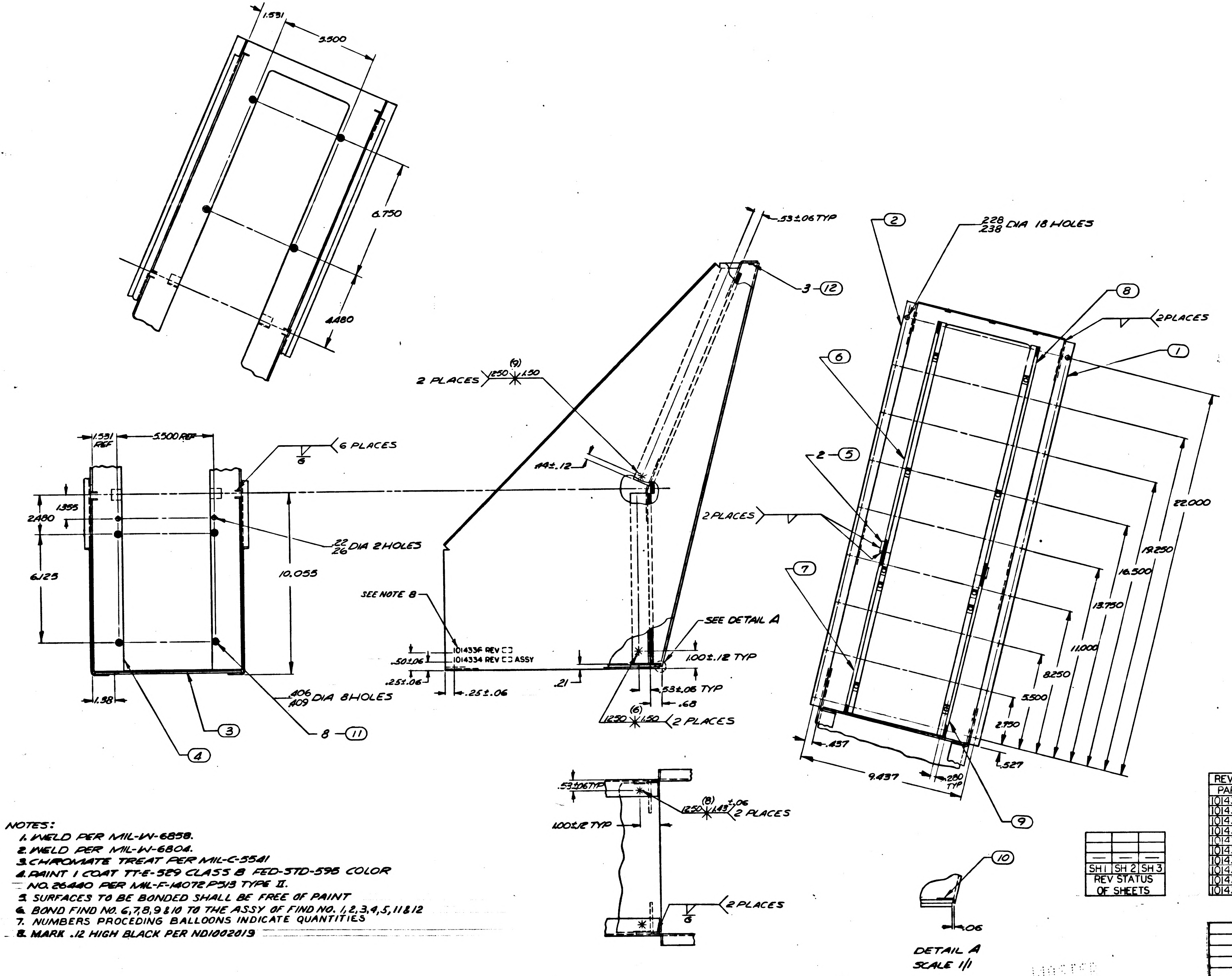
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-489
DRAWN DATE 4 SEP 63
CHECKED 28 SEP 63
APPROVAL 14 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014336
SCALE NOTED
WT
SHEET 2 OF 2

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 04137	10-4-63	



1.531
5.500
6.750
4.480
1.531 REF
5.500 REF
6 PLACES
1.355
2.480
6.125
10.055
.22/.26 DIA 2 HOLES
.406/.409 DIA 8 HOLES
1.38
8 —⑪
③
④
2 PLACES .250 (9) 1.50
.44±.12
.53±.06 TYP
3 —⑫
2 PLACES
SEE NOTE 8
1014336 REV
1014334 REV ASSY
.50±.06
.25±.06
.25±.06
.21
SEE DETAIL A
1.00±.12 TYP
.53±.06 TYP
.68
.250 (6) 1.50 2 PLACES
②
.228/.238 DIA 18 HOLES
⑧
2 PLACES
①
⑥
2 —⑤
⑦
22.000
19.250
16.500
13.750
11.000
8.250
5.500
2.750
.437
9.437
.280 TYP
.527
⑨
.53±.06 TYP
1.00±.12 TYP
.250 (8) 1.43 ±.06 2 PLACES
2 PLACES
⑩
.06
DETAIL A
SCALE 1/1

NOTES:
1. WELD PER MIL-W-6858.
2. WELD PER MIL-W-6804.
3. CHROMATE TREAT PER MIL-C-5541
4. PAINT 1 COAT TT-E-529 CLASS B FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II.
5. SURFACES TO BE BONDED SHALL BE FREE OF PAINT
6. BOND FIND NO. 6,7,8,9 & 10 TO THE ASSY OF FIND NO. 1,2,3,4,5,11 & 12
7. NUMBERS PROCEDING BALLOONS INDICATE QUANTITIES
8. MARK .12 HIGH BLACK PER ND1002019

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04137 DATE 10-4-63

REV STATUS OF PARTS	
PART NO.	REV SYM
1014336-1	—
1014336-2	—
1014336-3	—
1014336-4	—
1014336-5	—
1014336-6	—
1014336-7	—
1014336-8	—
1014336-9	—
1014336-10	—

SH 1	SH 2	SH 3
REV STATUS OF SHEETS		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
3	1006989-11	NUT, PLAIN, SELF-CLINCHING	12
8	1006999-12	NUT, PLAIN, FLOATING	11
1	1014336-10	GASKET, RUBBER	10
1	1014336-9	GASKET, RFI BOTTOM RH	9
1	1014336-8	GASKET, RFI TOP RH	8
1	1014336-7	GASKET, RFI BOTTOM LH	7
1	1014336-6	GASKET, RFI TOP LH	6
2	1014336-5	BLOCK	5
1	1014336-4	SUPPORT	4
1	1014336-3	PLATE, BOTTOM	3
1	1014336-2	PLATE, LEFT SIDE	2
1	1014336-1	PLATE, RIGHT SIDE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014334	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ±.016 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-489
DRAWN DATE 25 Sep 63
CHECKED 28 SEP 63
APPROVAL
APPROVAL
NASA APPROVAL 10/24/63
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

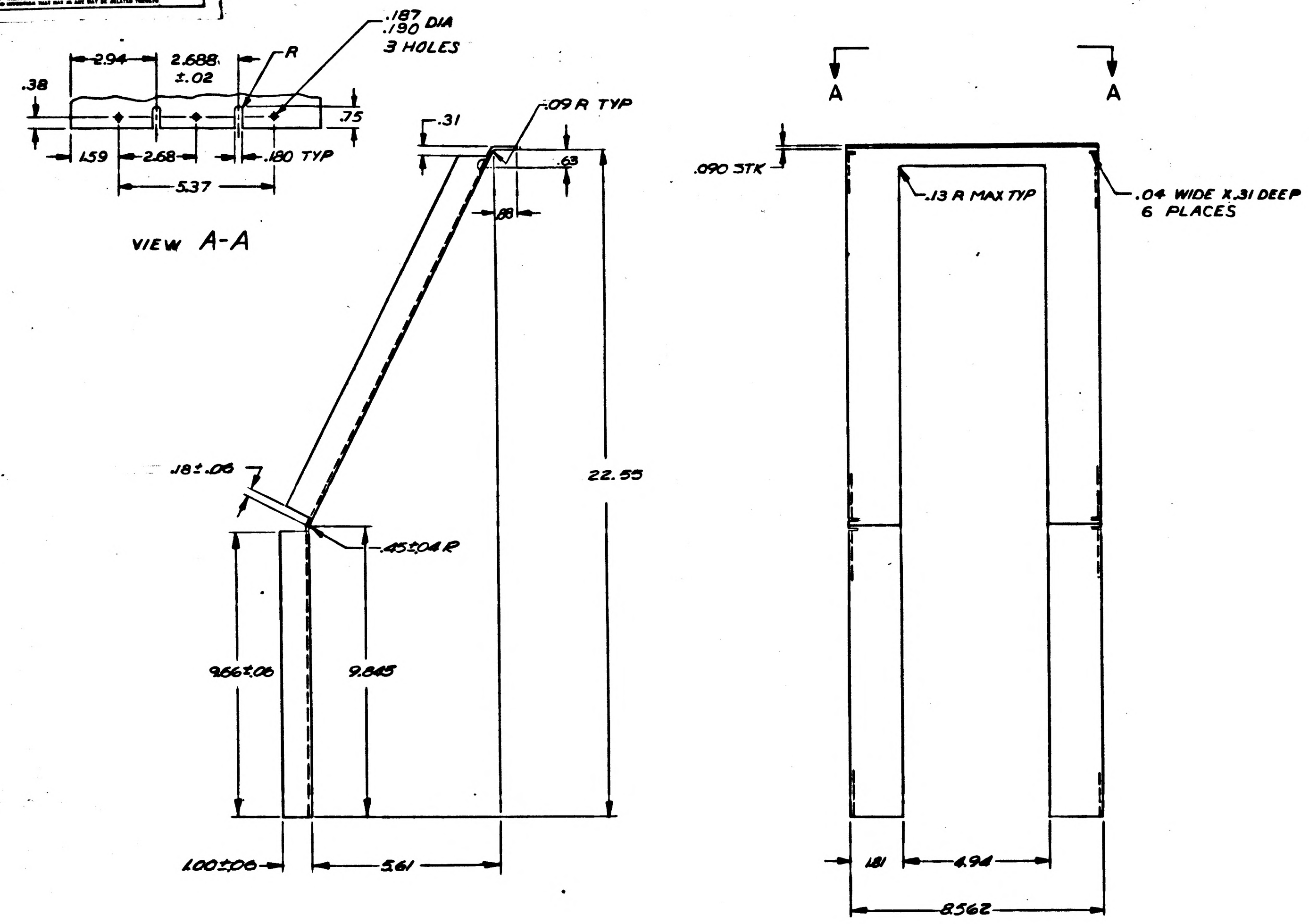
CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

CODE IDENT NO. — SIZE J NASA DRAWING NO. 1014336
SCALE 1/2 WT SHEET 1 OF 3

1014336

INCHES
PHOTOGRAPHIC SCALE ONLY

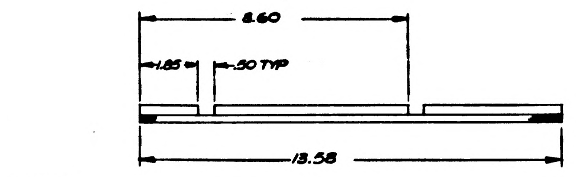
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		



.187 .190 DIA
3 HOLES
2.94
2.688 ±.02
R
.38
.75
1.59
2.68
.180 TYP
5.37
VIEW A-A
.31
.09 R TYP
.63
.88
22.55
.18±.06
.45±.04 R
9.66±.06
9.845
1.00±.06
5.61
A
A
.090 STK
.13 R MAX TYP
.04 WIDE X .31 DEEP
6 PLACES
.181
4.94
8.562

NOTES
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. SCALE: 1/2

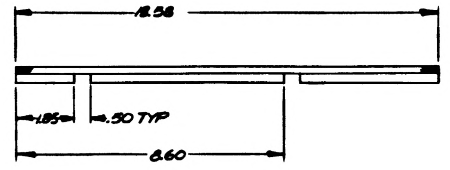
SUPPORT
1014336-4



8.60
1.85
.50 TYP
13.58

NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

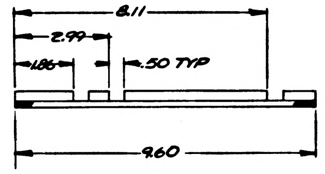
GASKET, RFI
TOP LH
1014336-6



13.58
1.85
.50 TYP
8.60

NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

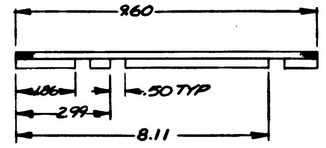
GASKET, RFI
TOP RH
1014336-8



8.11
2.99
1.86
.50 TYP
9.60

NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

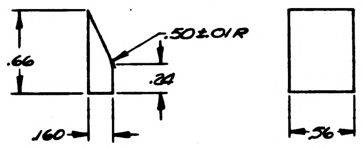
GASKET, RFI
BOTTOM LH
1014336-7



9.60
1.86
.50 TYP
2.99
8.11

NOTES:
1. MAKE FROM 1006651-1
2. TOL ±.06
3. SCALE: 1/2

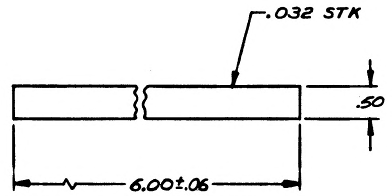
GASKET, RFI
BOTTOM RH
1014336-9



.66
.50±.01 R
.34
.160
.56

NOTES:
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES.
3. SCALE: 2/1.

BLOCK
1014336-5



.032 STK
.50
6.00±.06

NOTES
1. MATL: RUBBER NEOPRENE SC415 PER MIL-R-3065
2. SCALE 1/1

GASKET
1014336-10

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. [illegible] DATE [illegible]

1014336

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014334	1014465	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ±.03 ±.016 ANGLES ± DO NOT SCALE THIS DRAWING	RAYTHEON CO. LEXINGTON, MASS. CONTRACT NO. NAS 9-498
NEXT ASSY	USED ON	MATERIAL	DRAWN DATE
APPLICATION		HEAT TREATMENT	CHECKED 28 SEP 63
		FINAL FINISH	APPROVAL · APPROVAL · APPROVAL · NASA APPROVAL · MIT APPROVAL · MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

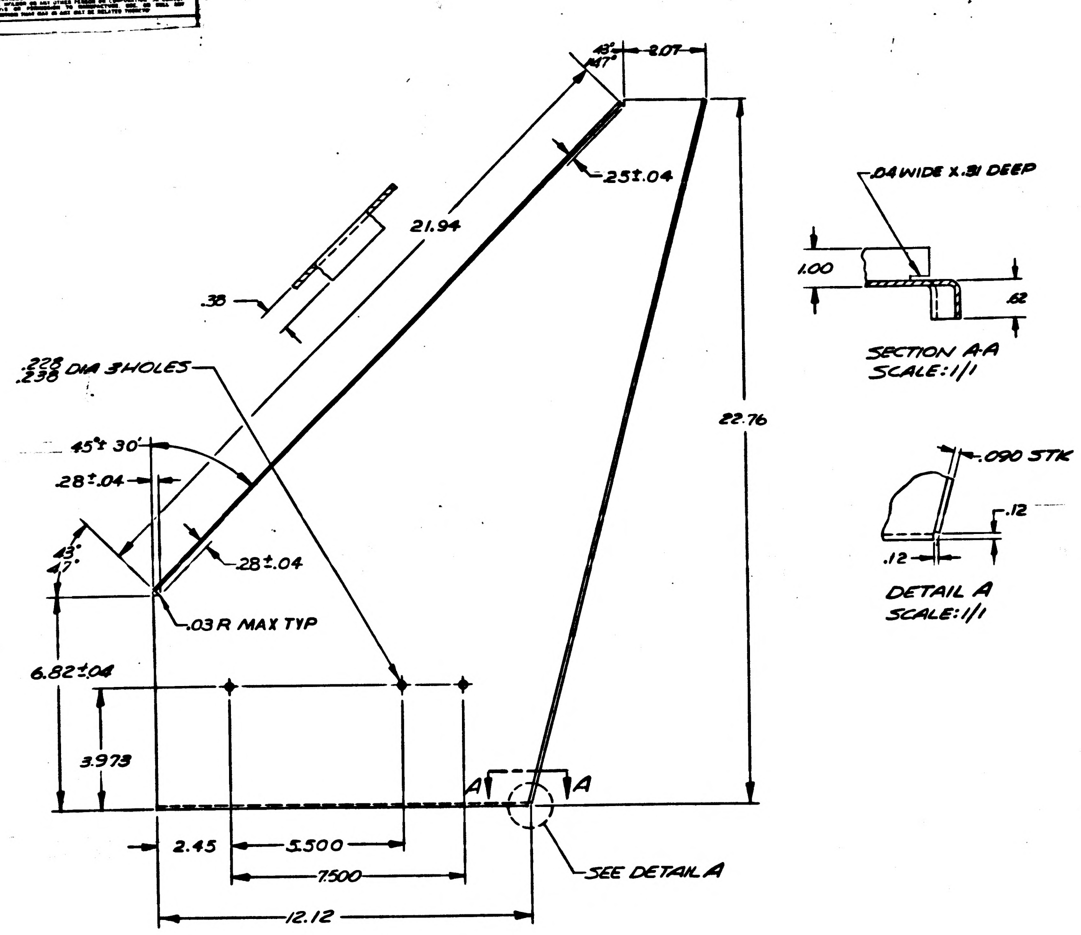
CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

CODE IDENT NO.	SIZE	NASA DRAWING NO
—	J	1014336
SCALE NOTED	WT	SHEET 2 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

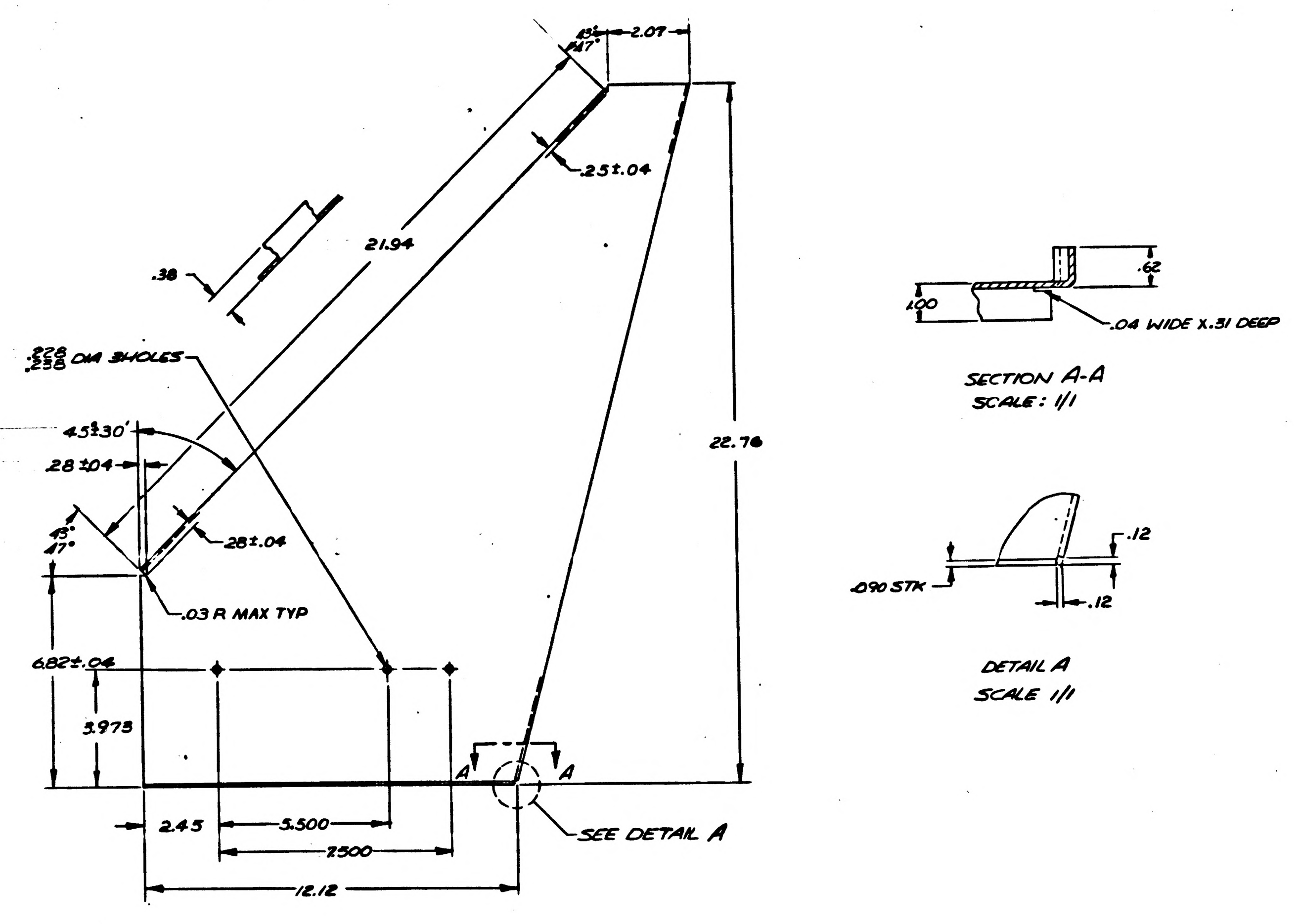
SYM	DESCRIPTION	DATE	APPROVED
	CLASS. B RELEASED PER TDRR		



45°
47°
2.07
.25±.04
21.94
.38
.228 .238 DIA 3 HOLES
45°±30'
.28±.04
.28±.04
.03 R MAX TYP
6.82±.04
3.975
22.76
A
A
2.45
5.500
7.500
12.12
SEE DETAIL A
.04 WIDE X.31 DEEP
1.00
.62
SECTION A-A
SCALE: 1/1
.090 STK
.12
.12
DETAIL A
SCALE: 1/1

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-318
2. ALL BEND RADII TO BE .09±.03
3. REMOVE BURRS & SHARP EDGES.
4. SCALE: 1/2

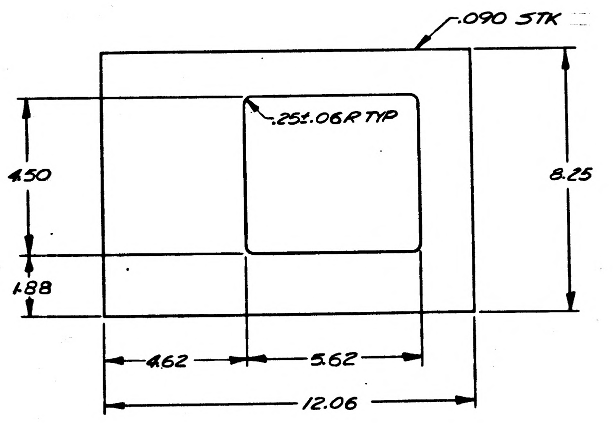
PLATE, RIGHT SIDE
1014336-1



45°
47°
2.07
.25±.04
21.94
.38
.228 .238 DIA 3 HOLES
45°±30'
.28±.04
.28±.04
.03 R MAX TYP
6.82±.04
3.975
22.76
A
A
2.45
5.500
7.500
12.12
SEE DETAIL A
.62
1.00
.04 WIDE X.31 DEEP
SECTION A-A
SCALE: 1/1
.12
.090 STK
.12
DETAIL A
SCALE 1/1

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-318
2. ALL BEND RADII TO BE .09±.03
3. REMOVE BURRS & SHARP EDGES.
4. SCALE: 1/2

PLATE, LEFT SIDE
1014336-2



.090 STK
.25±.06 R TYP
4.50
8.25
1.88
4.62
5.62
12.06

NOTES:
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. SCALE: 1/2

PLATE, BOTTOM
1014336-3

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 04137 DATE 10/4/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014334	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ±.016 ANGLES ±0°30'
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-489
DRAWN DATE 11 SEP 63
CHECKED 20 SEP 63
APPROVAL 14 OCT 63
APPROVAL 10/14/63
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS, MOUNTING FIXTURE
NAVIGATION DISPLAY & KEYBOARD

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014336
SCALE NOTED
WT
SHEET 3 OF 3

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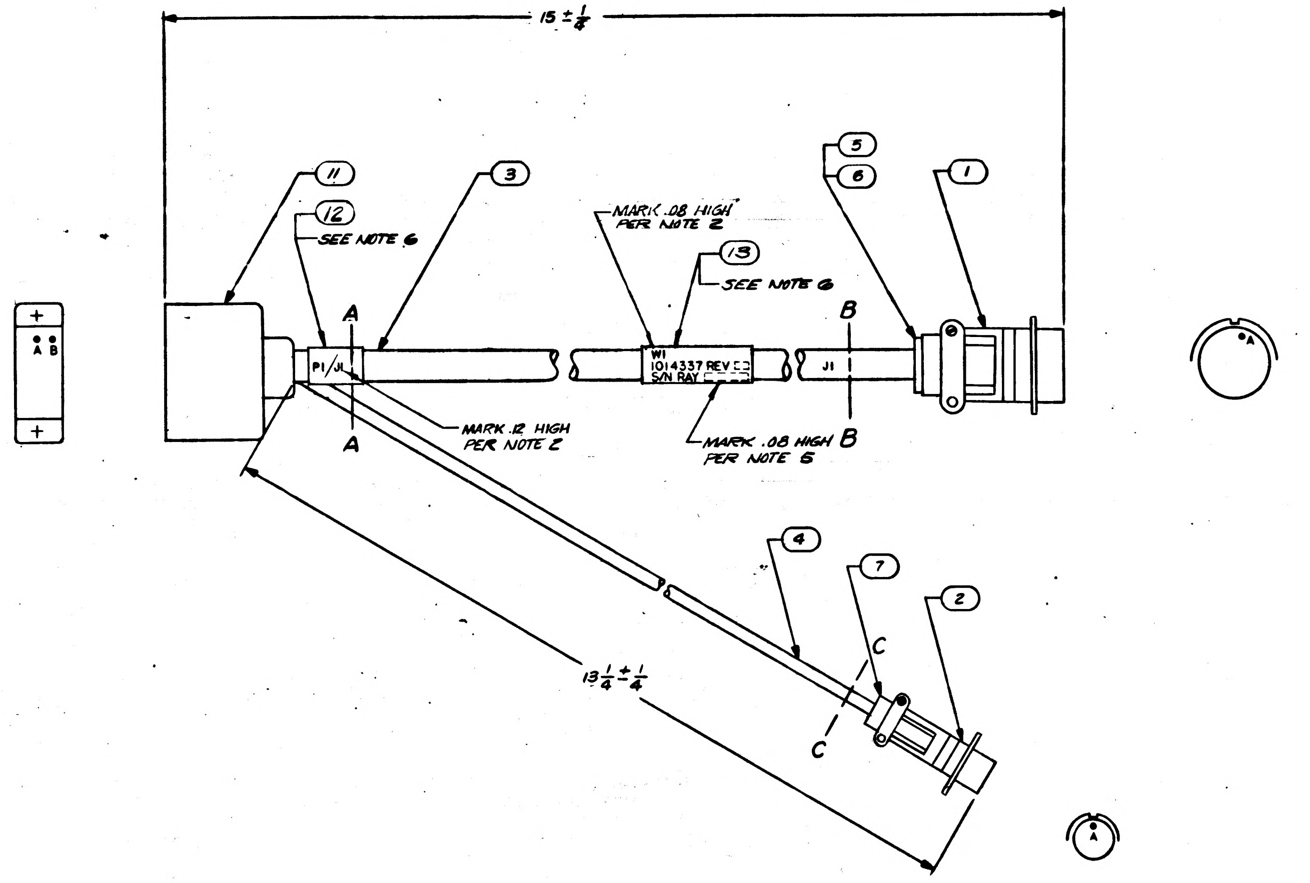
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

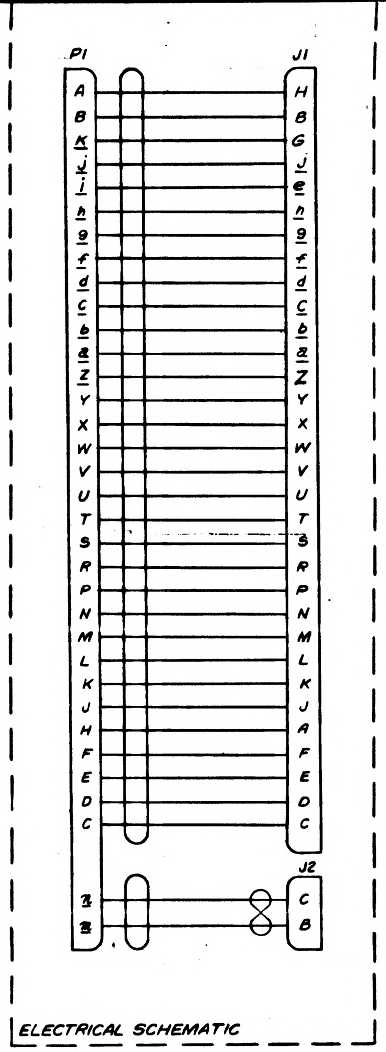
1014337

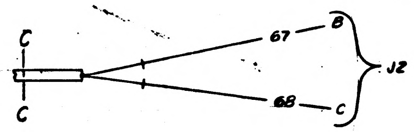
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R 5441 DR [illegible] CHK [illegible] APPD [illegible]	10-10-63	[illegible]
B	CHANGED PER TDRR 05243 DR [illegible] CHK T. [illegible] APPD		[illegible]

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO	REMARKS
	28	BLACK	22	8	35	
	1	WHITE	20	10	68	
	2	BLUE			67	
	3	WHITE	22	9	66	
	4	↑	↑	↑	65	
	5				64	
	6				63	
	7				62	
	8				61	
	9				60	
	10				59	
	11				58	
	12				57	
	13				56	
	14				55	
	15				54	
	16				53	
	17				52	
	18				51	
	19				50	
	20				49	
	21				48	
	22				47	
	23				46	
	24				45	
	25				44	
	26				43	
	27				42	
	29				40	
	30				39	
	31				38	
	32				37	
	33	↓	↓	↓	36	
	34	WHITE	22	9	41	



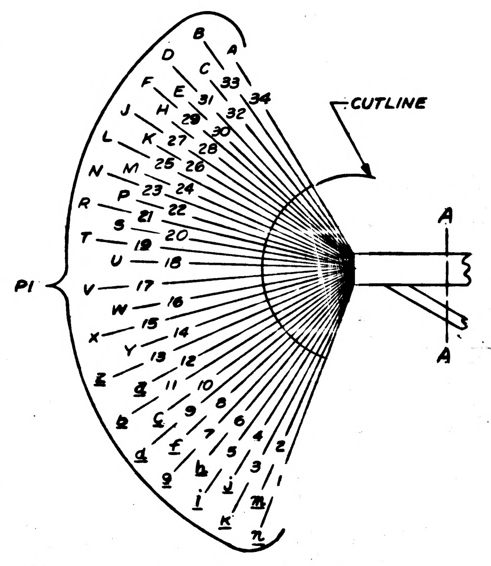


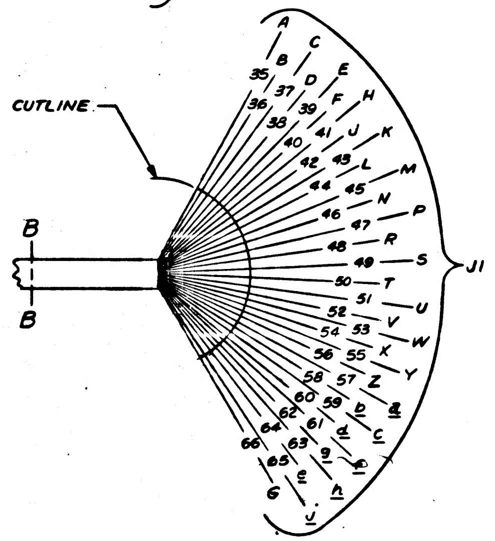


FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02386 DATE 7 Aug 63

NOTES

1. FOR SYMBOLS, FABRICATION & REQD TEST SEE ND1002032
2. MARK PER ND1002019
3. MIL-I-631, TYPE F, FOAM Ua GRADE a CLASS I CATEGORY I FIND NO. 3 AWG 1/2, FIND NO. 4 AWG #8 COLOR WHITE
~~4. CONNECTOR SUPPLIED WITH 1006924~~
5. SERIAL NUMBER PER ND 1002023
6. BOND FIND NO.S 12 & 13 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE





1	1014472-2	BAND MARKER, CABLE	13
1	1014472-2A	BAND MARKER, CABLE	12
1	1006680	CONNECTOR	11
AR	1014341-2	WIRE, ELECTRICAL #20 AWG	10
AR	MIL-W-16878/4 E22WHT	WIRE, ELECTRICAL #22 AWG	9
AR	MIL-W-16878/4 E22BLK	WIRE, ELECTRICAL #22 AWG	8
1	MS39056-2	BUSHING, CABLE ADAPTER	7
1	MS39056-6	BUSHING, CABLE ADAPTER	6
1	MS39056-5	BUSHING, CABLE ADAPTER	5
AR	SEE NOTE 3	SLEEVING	4
AR	SEE NOTE 3	SLEEVING	3
1	MS3128F-10-6P	CONNECTOR, RECEPTACLE	2
1	MS3128F-18-32P	CONNECTOR, RECEPTACLE	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014141	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] Carlson DATE 6-20-63
CHECKED A. [illegible] 7-20-63
APPROVAL C. [illegible] 7/21/63
APPROVAL [illegible] 7/30/63
APPROVAL [illegible] 20 Jul 63
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 6 Aug 1963

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W1
TAPE READER

CODE IDENT NO.	SIZE	NASA DRAWING NO
—	J	1014337
SCALE 1/1	WT	SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO	REMARKS
	28	BLACK	22	8	35	
	1	WHITE	22	9	68	
	2				67	
	3				66	
	4				65	
	5				64	
	6				63	
	7				62	
	8				61	
	9				60	
	10				59	
	11				58	
	70				57	
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	17				52	
	18				51	
	19				50	
	20				49	
	21				48	
	22				47	
	23				46	
	24				45	
	25				44	
	26				43	
	27				42	
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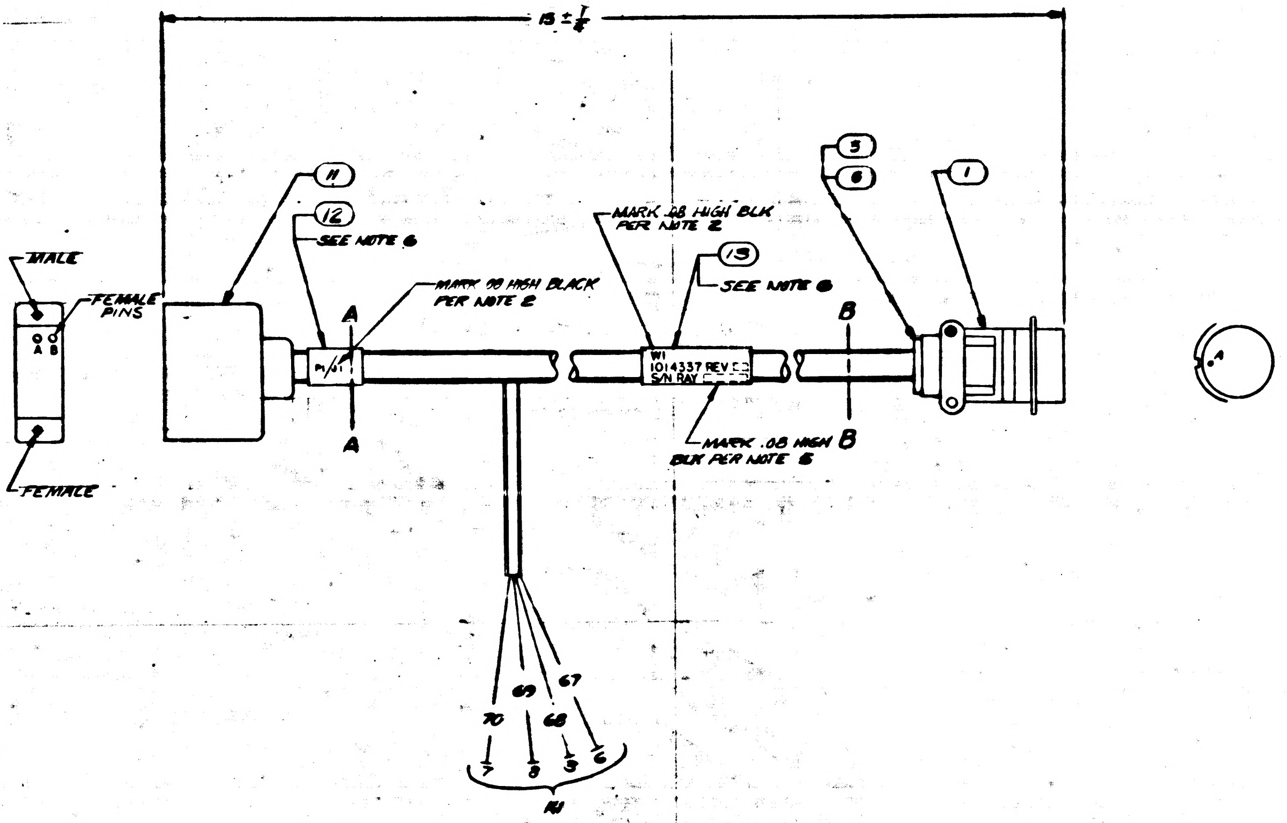
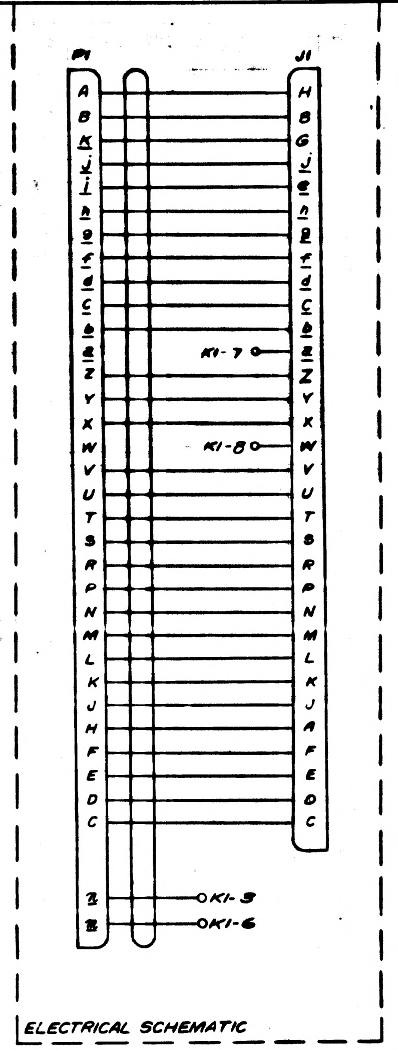
	30				39	
	31				38	
	32				37	
	33				36	
	34	WHITE	22	9	41	


15 ± 1/8
MALE
FEMALE PINS
A B
FEMALE
11
12
SEE NOTE 6
MARK .08 HIGH BLACK PER NOTE 2
A
A
P1/W1
MARK .08 HIGH BLK PER NOTE 2
13
SEE NOTE 6
W1 1014337 REV E S/N RAY
MARK .08 HIGH BLK PER NOTE 6
B
B
5
6
1
70
69
68
67
7
8
5
6
K1

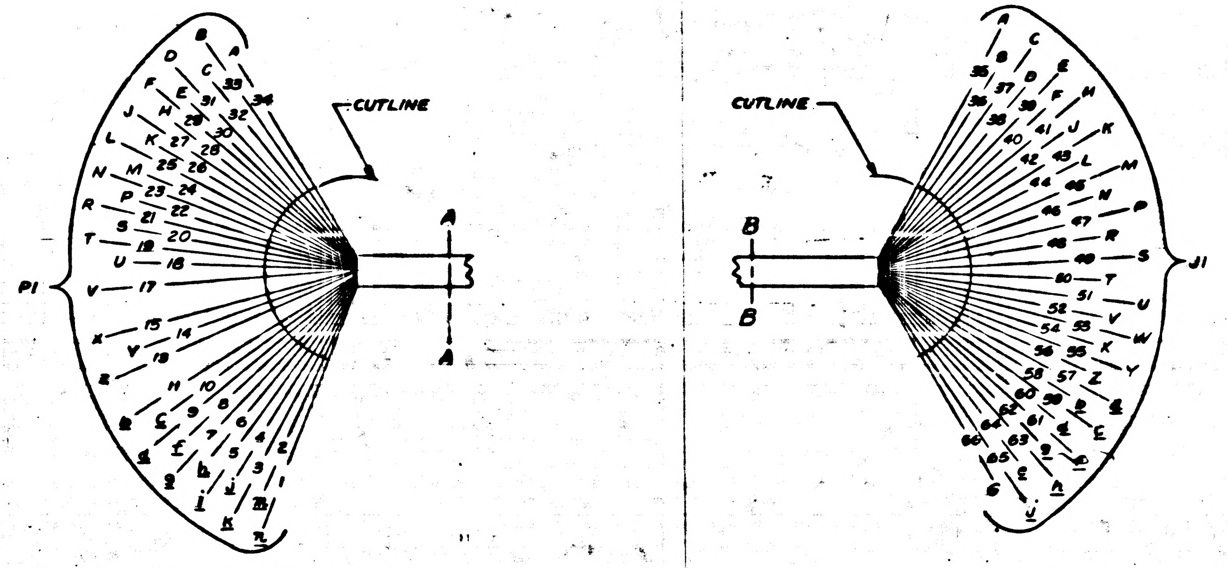

P1
J1
K1-7
K1-8
K1-3
K1-6
ELECTRICAL SCHEMATIC

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R5441 DR CHK APPD		
B	CHANGED PER TDRR 05243 DR CHK T. Duval APPD		
C	CL II CHANGE PER RD-R5705A DR. CHK APPD	4 FEB 64	
D	CL II CHANGE PER RD R5787 DR CHK APPD		
E	CHANGE PER TDRR 08136 W. Dann CHK APPD	11 MAY 64	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 2238 DATE 7 Aug 63

NOTES
1. FOR SYMBOLS, FABRICATION & REQD TEST SEE ND1002032
2. MARK PER ND1002U19
3. ~~MIL-I-631, TYPE F, FORM U, GRADE A CLASS 2 CATEGORY I FIND NO. 3 AWG 1/2, FIND NO. 4 AWG 3/8 COLOR WHITE~~
~~4. CONNECTOR SUPPLIED WITH 1006924~~
5 SERIAL NUMBER PER ND 1002023
6 BOND USING TETRAHYHROFURAN WITH 10% POLYVINYL CHLORIDE


CUTLINE
CUTLINE
P1
J1
A
A
B
B

~~1~~	~~1014472-13A~~	~~BAND MARKER, CABLE~~	~~14~~
1	1014472-3	BAND MARKER, CABLE	13
1	1014472-3A	BAND MARKER, CABLE	12
1	1006680	CONNECTOR	11
~~AR~~	~~1014341-2~~	~~WIRE, ELECTRICAL #20 AWG~~	~~10~~
AR	MIL-W-16878/4E22WHT	WIRE, ELECTRICAL #22 AWG	9
AR	MIL-W-16878/4E22BLK	WIRE, ELECTRICAL #22 AWG	8
~~1~~	~~MS39056-8~~	~~BUSHING, CABLE ADAPTER~~	~~7~~
1	MS39056-6	BUSHING, CABLE ADAPTER	6
1	MS39056-5	BUSHING, CABLE ADAPTER	5
~~AR~~	~~SEE NOTE 3~~	~~SLEEVING~~	~~4~~
~~AR~~	~~SEE NOTE 3~~	~~SLEEVING~~	~~3~~
~~1~~	~~MS3128F-18-32P~~	~~CONNECTOR, RECEPTACLE~~	~~2~~
1	MS3128F-18-32P	CONNECTOR, RECEPTACLE	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014141	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN Carlson DATE 6-20-63
CHECKED A. 2-20-63
APPROVAL C 9/12/63
APPROVAL 7/3/63
APPROVAL 1963
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 6 Aug 1963

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W1
TAPE READER

CODE IDENT NO. — SIZE J NASA DRAWING NO 1014337
SCALE 1/1 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014337

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R5441 DR J.R. CHK Marinaro APPD	10-10-63	J3
B	CHANGED PER TDRR 05243 DR Manning CHK APPD		
C	CL II CHANGE PER RD-R5705A DR. CHK APPD	4 FEB 64	J18
D	CL II CHANGE PER RD R576 DR Manning CHK APPD		
E	CHANGE PER TDRR 08136 W. Baron CHK APPD	11 MAY 64	
F	UPGRADED TO CLASS A WITH CHANGE PER TDRR 17450 DR A.J. Baron CHK APPD Marinaro	2 APR 65	

ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO	REMARKS
	28	BLACK	22	8	35	
	1	WHITE	22	9	68	
	2				67	
	3				66	
	4				65	
	5				64	
	6				63	
	7				62	
	8				61	
	9				60	
	10				59	
	11				58	
	70				57	
	13				56	
	14				55	
	15				54	
	69				53	
	17				52	
	18				51	
	19				50	
	20				49	
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	22				47	
	23				46	
	24				45	
	25				44	
	26				43	
	27				42	
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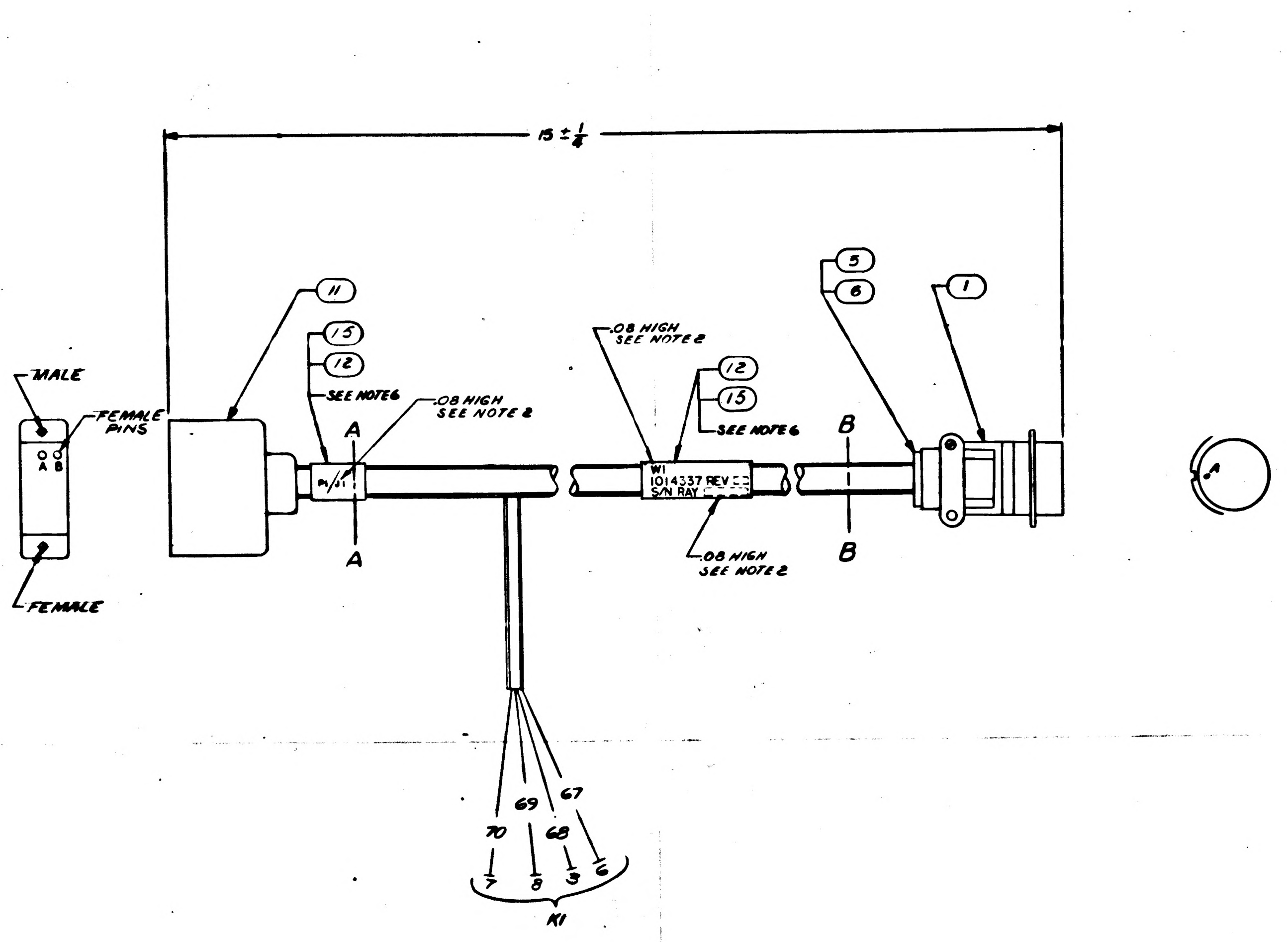
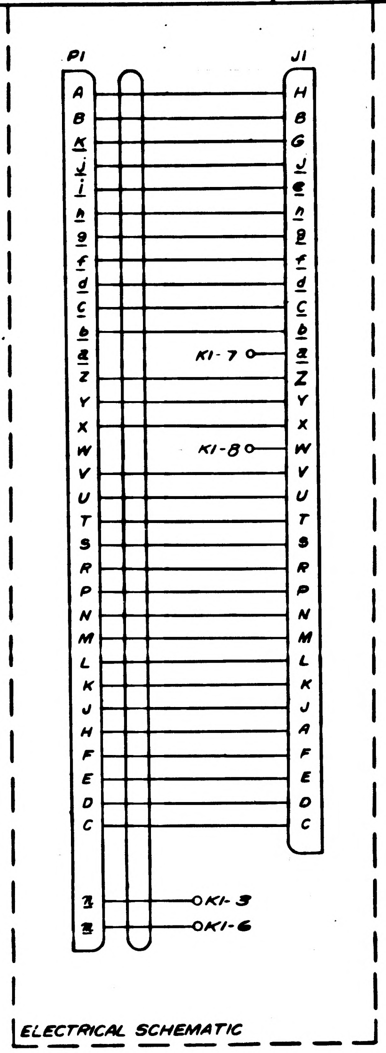
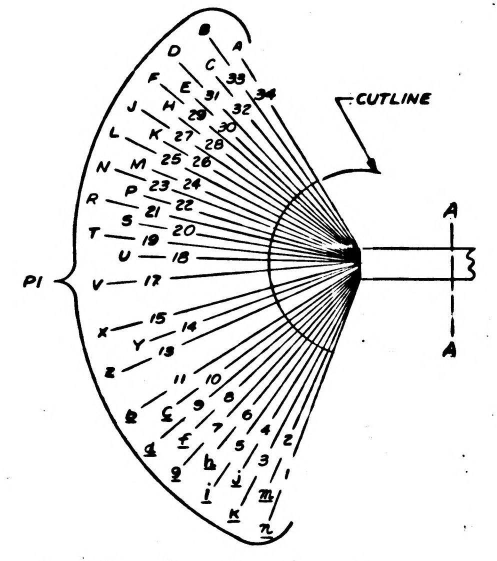
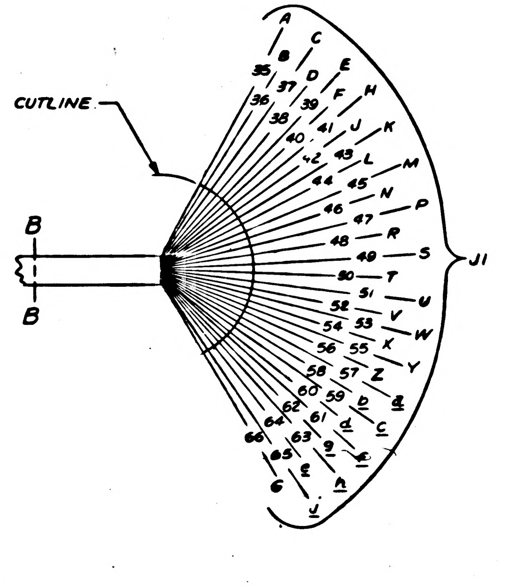
	32				37	
	33				36	
	34	WHITE	22	9	41	


15 ± 1/8
11
15
12
SEE NOTE 6
.08 HIGH SEE NOTE 2
A
A
MALE
FEMALE PINS
A B
FEMALE
P1/J1
W1 1014337 REV
S/N RAY
.08 HIGH SEE NOTE 2
12
15
SEE NOTE 6
.08 HIGH SEE NOTE 2
B
B
5
6
1
A
70
69
68
67
7
8
3
6
K1


P1
J1
A B K J I h g f d c b a Z Y X W V U T S R P N M L K J H F E D C n m
H B G J e h g f d c b a Z Y X W V U T S R P N M L K J A F E D C
K1-7
K1-8
K1-3
K1-6
ELECTRICAL SCHEMATIC


CUTLINE
P1
A
A
B A D C 33 34 F E 31 32 J H 29 30 L K 27 28 25 26 N M 23 24 R P 21 22 S 20 T 19 U 18 V 17 X 15 14 Y 13 Z 11 10 a c 9 8 d f 7 6 4 2 5 g h 3 j 1 i m k n


CUTLINE
B
B
J1
A C B 35 E D 37 36 F H 39 38 41 J K 40 42 43 L M 44 45 N 46 P 47 R 48 S 49 T 50 U 51 52 V 54 53 W X 56 55 Y 58 57 Z 60 59 b a 62 61 d c 64 63 66 g f 65 e h G j

NOTES
1. FOR FABRICATION SEE ND1002032
2. MARK GOTHIC CHARACTERS AS SHOWN PER ND1002019 & ND1002023 USING BLACK INK 1006256-001
3. ~~MIL-I-631, TYPE F, FORM U GRADE A CLASS 2 CATEGORY 2 FIND NO. 3 AWG 1/2, FIND NO. 4 AWG #6 COLOR WHITE~~
~~4. CONNECTOR SUPPLIED WITH 1006924~~
~~5. SERIAL NUMBER PER ND 1002023~~
6. BOND USING FIND 15 APPROX AS SHOWN
7. SOLDER PER ND1002071
8. CRIMP PER ND1002206

AR	1006253	ADHESIVE	15
~~1~~	~~1014472-19A~~	~~BAND MARKER, CABLE~~	~~14~~
~~1~~	~~1014472-3~~	~~BAND MARKER, CABLE~~	~~13~~
2	1014472-3A	BAND MARKER, CABLE	12
1	1006680	CONNECTOR	11
~~AR~~	~~1014341-2~~	~~WIRE, ELECTRICAL #20 AWG~~	~~10~~
AR	MIL-W-16878/4 E22WHT	WIRE, ELECTRICAL #22 AWG	9
AR	MIL-W-16878/4 E22BLK	WIRE, ELECTRICAL #22 AWG	8
~~1~~	~~MS39056-2~~	~~BUSHING, CABLE ADAPTER~~	~~7~~
1	MS39056-6	BUSHING, CABLE ADAPTER	6
1	MS39056-5	BUSHING, CABLE ADAPTER	5
~~AR~~	~~SEE NOTE 3~~	~~SLEEVING~~	~~4~~
~~AR~~	~~SEE NOTE 3~~	~~SLEEVING~~	~~3~~
~~1~~	~~MS3128F-18-8P~~	~~CONNECTOR, RECEPTACLE~~	~~2~~
1	MS3128F-18-32P	CONNECTOR, RECEPTACLE	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014141	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN Carlson DATE 6-20-63
CHECKED 2-20-63
APPROVAL C 7/12/63
APPROVAL 7/12/63
APPROVAL 7/12/63
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

CABLE ASSEMBLY
W1
TAPE READER

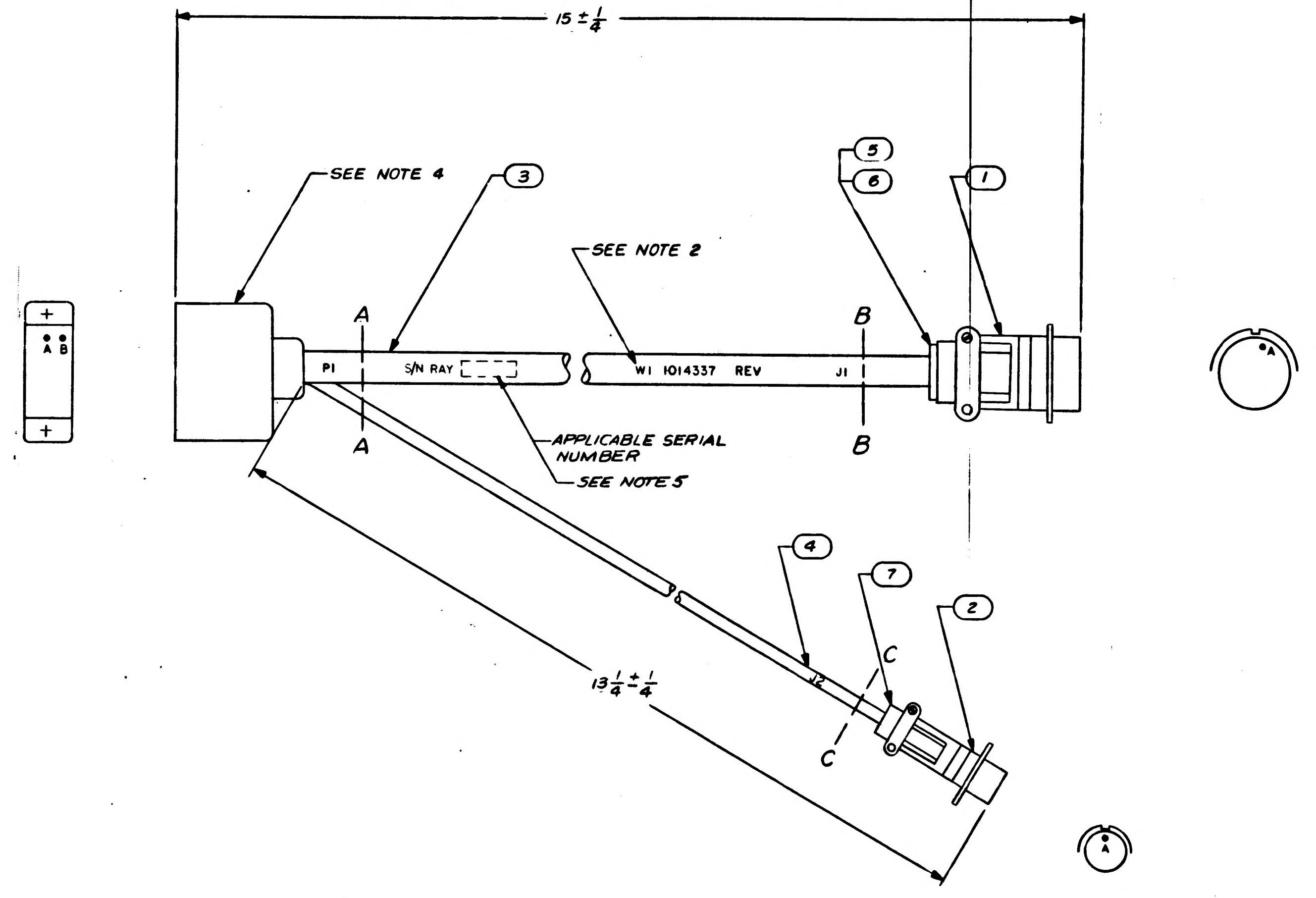
CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014337
SCALE 1/1
WT
SHEET 1 OF 1

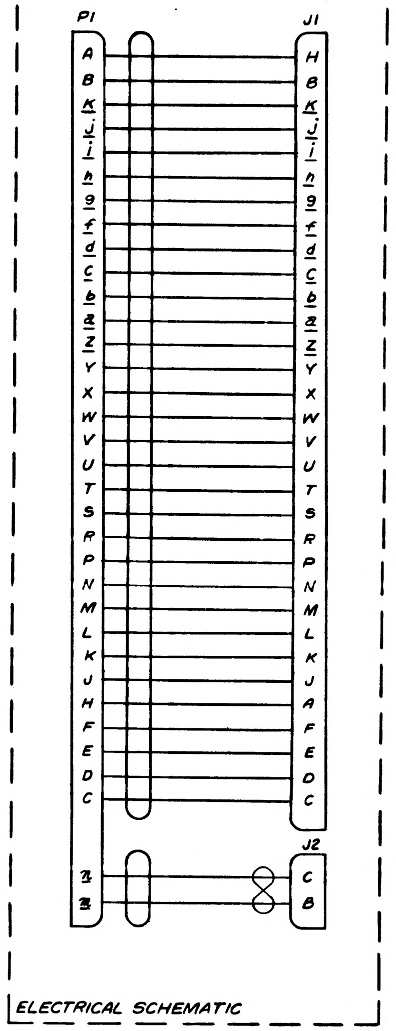
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

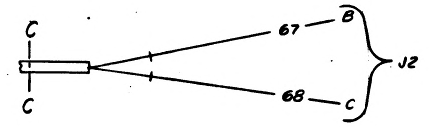
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		

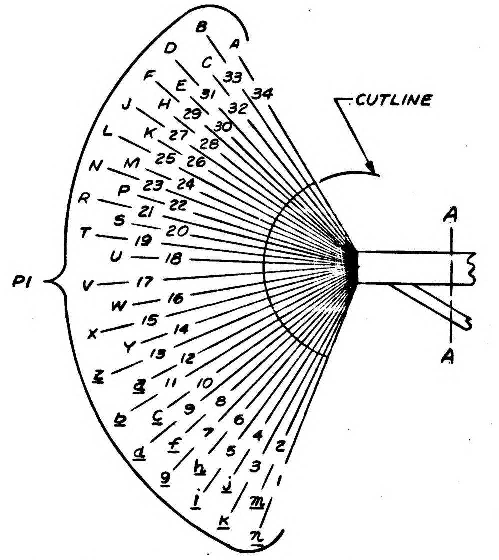
ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO	REMARKS
	28	BLACK	22	8	35	
	1	WHITE	20	10	68	
	2	BLUE			67	
	3	WHITE	22	9	66	
	4				65	
	5				64	
	6				63	
	7				62	
	8				61	
	9				60	
	10				59	
	11				58	
	12				57	
	13				56	
	14				55	
	15				54	
	16				53	
	17				52	
	18				51	
	19				50	
	20				49	
	21				48	
	22				47	
	23				46	
	24				45	
	25				44	
	26				43	
	27				42	
	29				40	
	30				39	
	31				38	
	32				37	
	33				36	
	34	WHITE	22	9	41	


15 ± 1/4
SEE NOTE 4
3
SEE NOTE 2
5
6
1
A
A
P1
S/N RAY
W1 1014337 REV
J1
B
B
APPLICABLE SERIAL NUMBER
SEE NOTE 5
+
A B
+
A
4
7
2
C
C
J2
13 1/4 ± 1/4
A


P1
J1
A B K j i h g f d c b a Z Y X W V U T S R P N M L K J H F E D C
H B K j i h g f d c b a Z Y X W V U T S R P N M L K J A F E D C
J2
z
z
C
B
ELECTRICAL SCHEMATIC


C
C
67 — B
68 — C
J2

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02386 DATE [illegible] 63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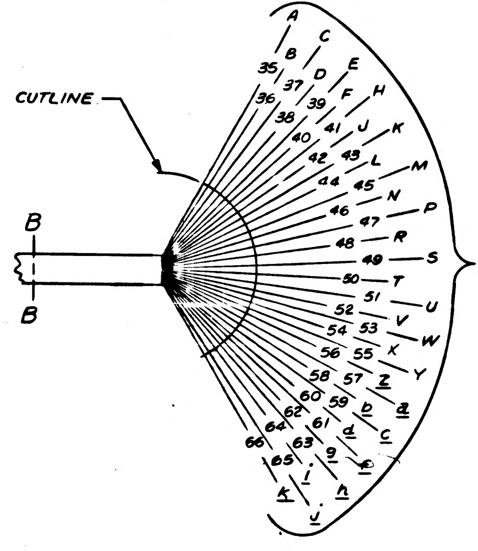
P1
A
A
B A D C 34 33 F E 31 32 J H 29 30 L K 27 28 N M 25 26 P 23 24 R S 21 22 T 20 19 U 18 V 17 W 16 X 15 Y 14 13 Z a 12 11 b c 10 9 d f 8 7 h j 6 5 i m 4 3 K n 2 1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B
B
J1
A C B E 35 D 37 H 36 39 F 38 41 J K 40 43 42 45 M 44 N 46 47 P 48 49 S 50 T 52 51 U 54 53 V 56 55 W 58 57 X Y 60 59 Z a 62 61 b 64 63 d c 66 65 g e k i h j

NOTES

1. FOR SYMBOLS, FABRICATION & REQD TEST SEE ND1002032
2. MARK .12 HIGH BLACK PER ND1002019
3. MIL-I-631, TYPE F, FOAM Ua GRADE a CLASS I CATEGORY I FIND NO. 3 AWG 1/2, FIND NO. 4 AWG #8 COLOR WHITE
4. CONNECTOR SUPPLIED WITH 1006924
5. SERIAL NUMBER PER ND 1002023

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	1014341-2	WIRE, ELECTRICAL #20 AWG	10
AR	MIL-W-16878/4E22WHT	WIRE, ELECTRICAL #22 AWG	9
AR	MIL-W-16878/4E22BLK	WIRE, ELECTRICAL #22 AWG	8
1	MS39056-2	BUSHING, CABLE ADAPTER	7
1	MS39056-6	BUSHING, CABLE ADAPTER	6
1	MS39056-5	BUSHING, CABLE ADAPTER	5
AR	SEE NOTE 3	SLEEVING	4
AR	SEE NOTE 3	SLEEVING	3
1	MS3128F-10-6P	CONNECTOR, RECEPTACLE	2
1	MS3128F-18-32P	CONNECTOR, RECEPTACLE	1

LIST OF MATERIALS

1014141	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN Carlson DATE 6-20-63
CHECKED A. [illegible] 2-20-63
APPROVAL C [illegible] 7/12/63
APPROVAL [illegible] 7/30/63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 6 Aug 1963

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W1
TAPE READER

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014337
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014337

INCHES
PHOTOGRAPHIC SCALE ONLY

E-12

1014337

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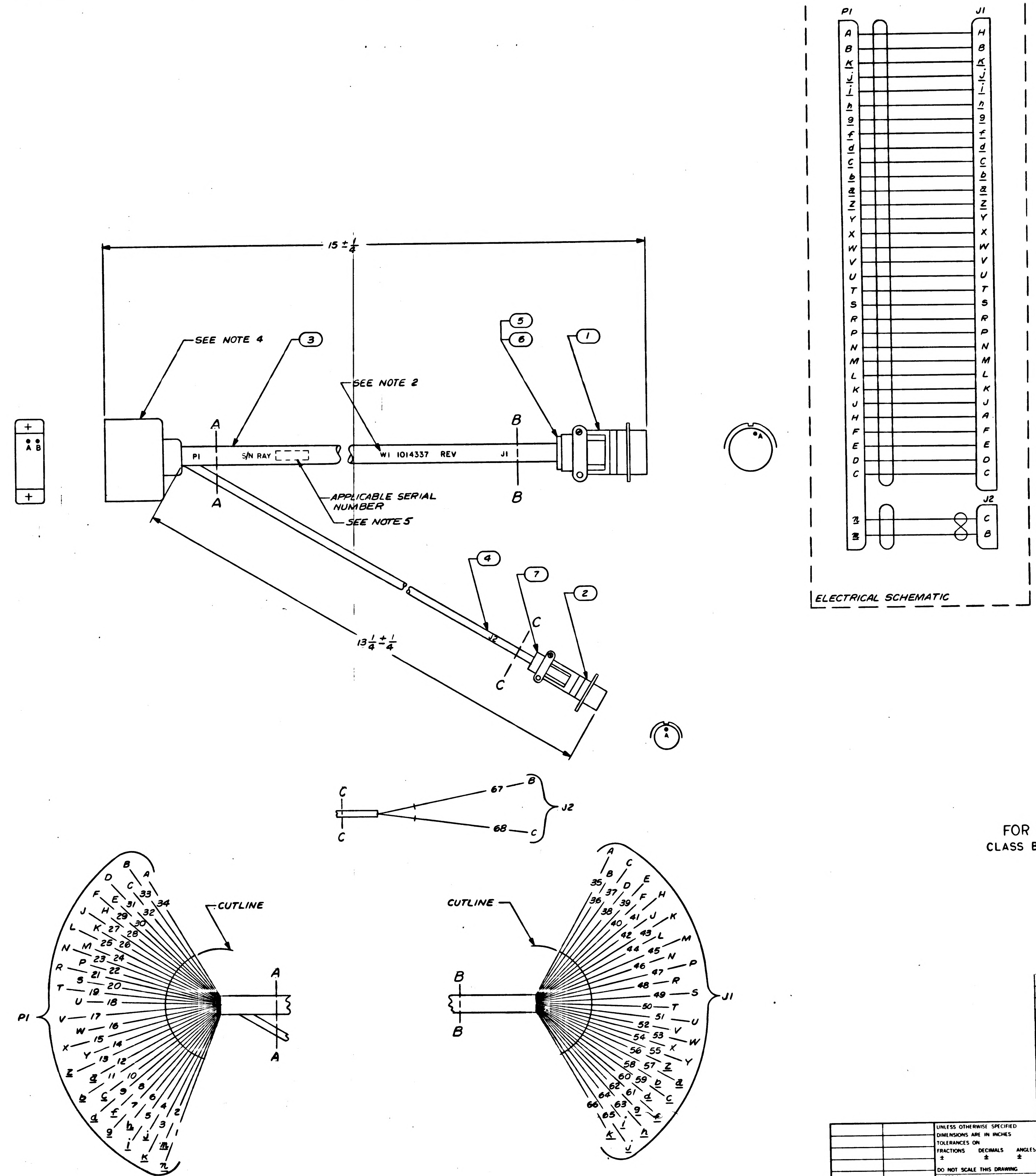
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES

REVISIONS	
SYM	DESCRIPTION
—	CLASS B RELEASED PER TO

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO	REMARKS
	28	BLACK	22	8	35	
	1	WHITE	20	10	68	
	2	BLUE			67	
	3	WHITE	22	9	66	
	4	↑	↑	↑	65	
	5				64	
	6				63	
	7				62	
	8				61	
	9				60	
	10				59	
	11				58	
	12				57	
	13				56	
	14				55	
	15				54	
	16				53	
	17				52	
	18				51	
	19				50	
	20				49	
	21				48	
	22				47	
	23				46	
	24				45	
	25				44	
	26				43	
	27				42	
	29				40	
	30				39	
	31				38	
	32				37	
	33	↓	↓	↓	36	
	34	WHITE	22	9	41	



NOTES
1. FOR SYMBOLS, FABRICATION & REQD TEST SEE ND1002032
2. MARK .12 HIGH BLACK PER ND1002019
3. MIL-I-631, TYPE F, FOAM Ua GRADE a CLASS I CATEGORY I FIND NO. 3 AWG 1/2, FIND NO. 4 AWG #8 COLOR WHITE
4. CONNECTOR SUPPLIED WITH 1006924
5 SERIAL NUMBER PER ND 1002023

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02386 DAT

AR	1014341-2	WIRE, ELECTR
AR	MIL-W-16878/4E 22WHT	WIRE, ELECT
AR	MIL-W-16878/4E 22BLK	WIRE, ELECT
1	MS39056-2	BUSHING, C
1	MS39056-6	BUSHING, C
1	MS39056-5	BUSHING, C
AR	SEE NOTE 3	SLEEVING
AR	SEE NOTE 3	SLEEVING
1	MS3128F-10-6P	CONNECTOR
1	MS3128F-18-32P	CONNECTOR
QTY REQD	PART OR IDENTIFYING NO	NOM D

LIST OF MATERIALS

1014141	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN Carlson DATE 6-20-63
CHECKED 2-20-63
APPROVAL C 2/12/63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SP

CABLE
TAPE

CODE IDENT NO —
SIZE J
SCALE 1/1
WT

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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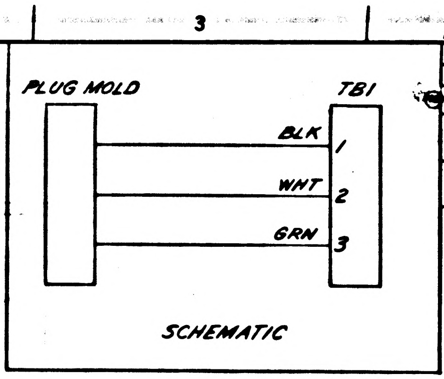
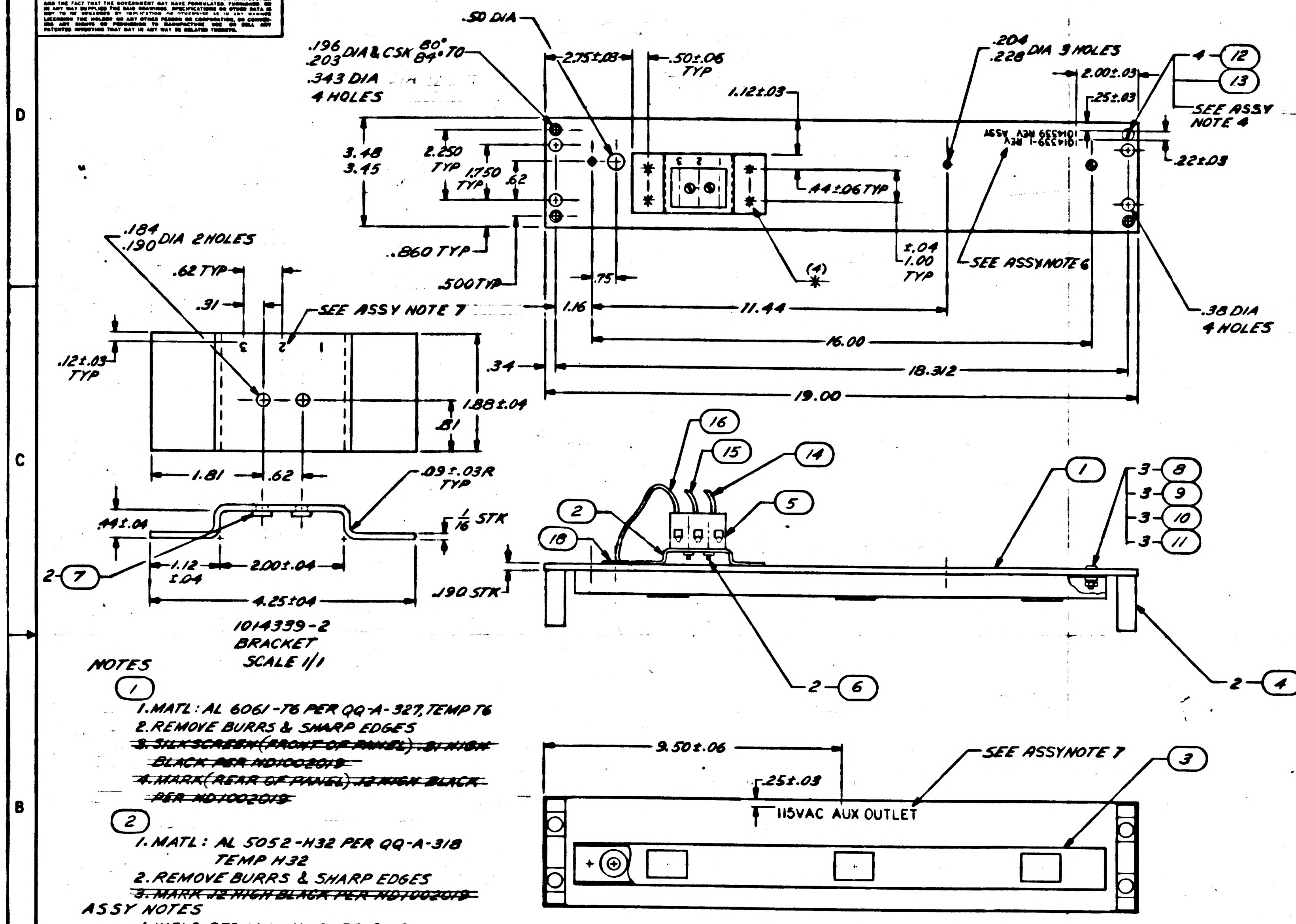
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 01857	7/2/63	
A	CLASS II CHANGE PER RD-R5955 DR R. CHK W. APPD	18 OCT 63	JJS
B	CHANGED PER TDRR 06992 DR. CHK APPD.	2 MAR 64	KEB


PLUG MOLD
TB1
BLK
WHT
GRN
1
2
3
SCHEMATIC


.50 DIA
.196 .203 DIA & CSK 80° 84° TO
.343 DIA 4 HOLES
2.75±.03
.50±.06 TYP
1.12±.03
.204 .228 DIA 3 HOLES
4
12
13
2.00±.03
.25±.03
SEE ASSY NOTE 4
.22±.03
1014339 REV ASSY
1014339-1 REV
3.48 3.45
2.250 TYP
1.750 TYP
.62
.44±.06 TYP
±.04 1.00 TYP
(4)
SEE ASSY NOTE 6
.38 DIA 4 HOLES
.860 TYP
.500 TYP
.75
1.16
11.44
16.00
.34
18.312
19.00
.184 .190 DIA 2 HOLES
.62 TYP
.31
SEE ASSY NOTE 7
.12±.03 TYP
1.88±.04
.81
1.81
.62
.09±.03R TYP
1/16 STK
.44±.04
2-7
1.12 ±.04
2.00±.04
4.25±.04
.190 STK
1014339-2
BRACKET
SCALE 1/1
16
15
14
5
2
18
1
3-8
3-9
3-10
3-11
2-6
2-4
9.50±.06
.25±.03
SEE ASSY NOTE 7
3
115VAC AUX OUTLET

NOTES

①

1. MATL: AL 6061-T6 PER QQ-A-327, TEMP T6
2. REMOVE BURRS & SHARP EDGES
~~3. SILKSCREEN (FRONT OF PANEL) .31 HIGH BLACK PER ND1002019~~
~~4. MARK (REAR OF PANEL) .12 HIGH BLACK PER ND1002019~~

②

1. MATL: AL 5052-H32 PER QQ-A-318 TEMP H32
2. REMOVE BURRS & SHARP EDGES
~~3. MARK .12 HIGH BLACK PER ND1002019~~

ASSY NOTES

1. WELD PER MIL-W-6858, CL C
2. ELECTRICALLY CONDUCTIVE CHROMATE PER MIL-C-5541
3. PAINT FRONT & EDGES 1 COAT TT-E-529, CL B, FED-STD-595, COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
4. ASSEMBLE FIND NO. 12 USING FIND NO. 13
5. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
6. MARK (REAR OF PANEL) .12 HIGH BLACK PER ND1002019
7. SILKSCREEN (FRONT OF PANEL) .12 HIGH BLACK PER ND1002019

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01857 DATE 7/2/63

1014339-2	—
1014339-1	—
PART NO.	REV SYM
REV STATUS OF PARTS	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	MS35489-40	GROMMET, RUBBER	18
~~3~~	~~1006956-1~~	~~WIRE, CONNECTOR~~	~~17~~
AR	MIL-W-16878/4 TYPE E, 12, GRN	WIRE, ELEC	16
AR	MIL-W-16878/4 TYPE E, 12, WHT	WIRE, ELEC	15
AR	MIL-W-16878/4 TYPE E, 12, BLK	WIRE, ELEC	14
AR	MIL-S-40083 CL 31	COMPOUND, SEALING	13
4	MS35249-53	SCREW, MACHINE FH	12
3	MS35649-84	NUT, PLAIN HEX	11
3	MS35338-80	WASHER, LOCK	10
3	MS15795-307	WASHER, FLAT	9
3	MS35233-45	SCREW, PAN HD	8
2	1006989-11	NUT, PLAIN, SELF-CLINCHING	7
2	MS35233-35	SCREW, PAN HD	6
1	1006859-2	TERMINAL BLOCK	5
2	1014215-1	HANDLE ASSY	4
1	1014340	MOLDING, WIRE	3
1	1014339-2	BRACKET	2
1	1014339-1	PANEL	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 3 JUN 63
CHECKED D. Perrone 14 JUN 63
APPROVAL
APPROVAL 6/21/63
APPROVAL
NASA APPROVAL 7/2/63
MIT APPROVAL 7/2/63
MIT APPROVAL 7/2/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AUXILIARY OUTLET ASSEMBLY
COMPUTER TEST SET

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014339
SCALE 1/2
WT
SHEET 1 OF 1

1014339

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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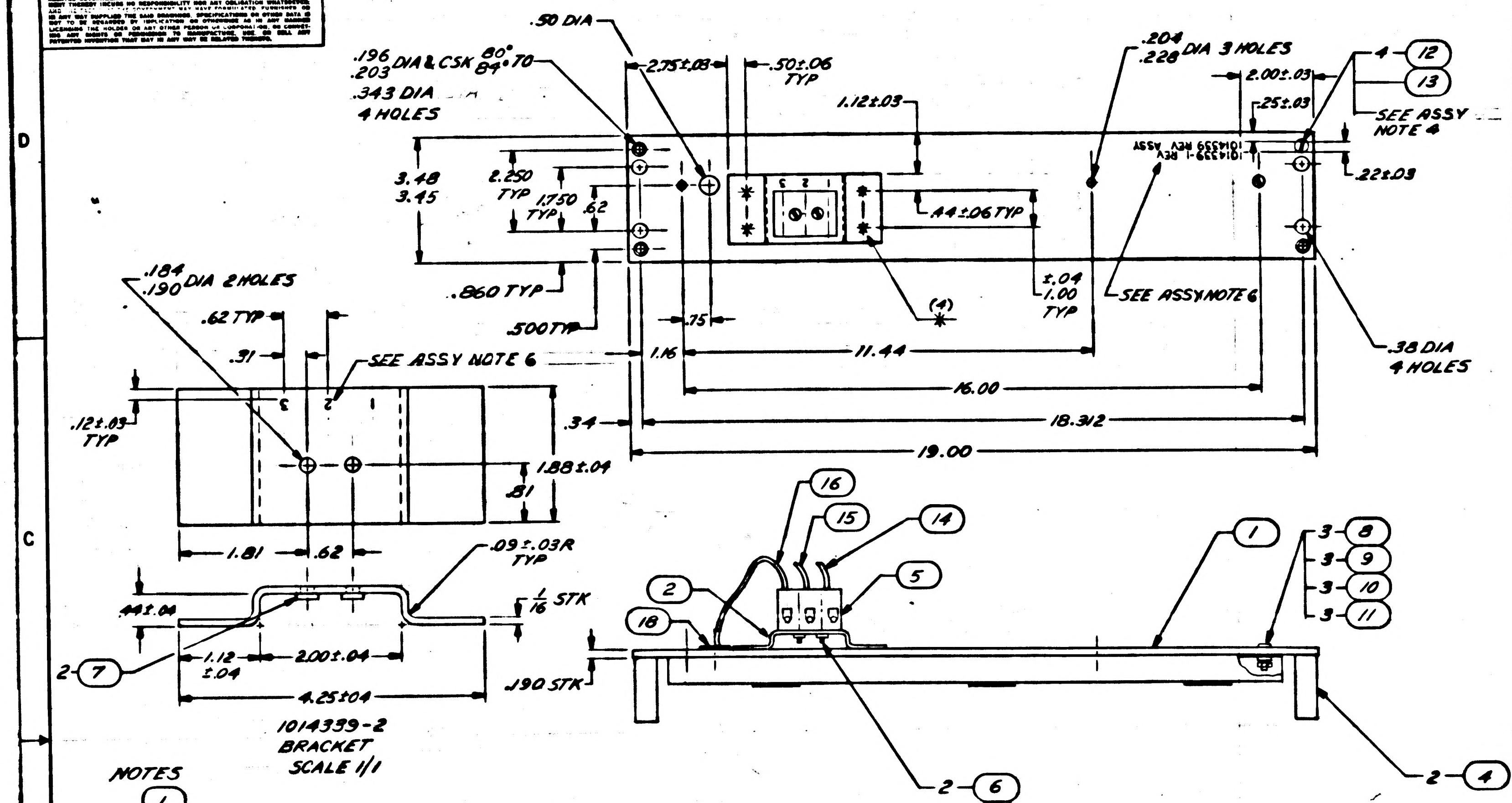
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 01857	7/2/63	
A	CLASS II CHANGE PER RD-R5455 DR R. [illegible] CHK W. J. [illegible] APPD [illegible]	18 OCT 63	JJS
B	CHANGED PER TDRR 06992 DR W. Dann CHK [illegible] APPD [illegible]	2 MAR 64	KEB
C	CHANGED PER TDRR 08023 DR J.P. Leonard CHK [illegible] APPD [illegible]	6 MAY 64	KEB


.50 DIA
.196 .203 DIA & CSK 80° 84° ±.70
.343 DIA 4 HOLES
2.75±.03
.50±.06 TYP
1.12±.03
.204 .228 DIA 3 HOLES
2.00±.03
.25±.03
4-⑫
⑬
SEE ASSY NOTE 4
.22±.03
3.48 3.45
2.250 TYP
1.750 TYP
.62
.44±.06 TYP
1014339 REV ASSY
1014339-1 REV
.860 TYP
.500 TYP
.75
(4)
±.04 1.00 TYP
SEE ASSY NOTE 6
.38 DIA 4 HOLES
1.16
11.44
16.00
.34
18.312
19.00
.184 .190 DIA 2 HOLES
.62 TYP
.31
SEE ASSY NOTE 6
3 2 1
.12±.03 TYP
1.88±.04
.81
1.81
.62
.09±.03R TYP
.44±.04
1/16 STK
2-⑦
1.12 ±.04
2.00±.04
4.25±.04
.190 STK
⑯
⑮
⑭
②
⑤
⑱
①
3-⑧
3-⑨
3-⑩
3-⑪
2-⑥
2-④

1014339-2
BRACKET
SCALE 1/1

NOTES

①

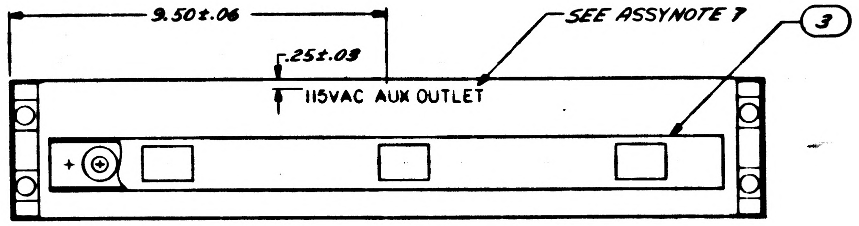
1. MATL: AL 6061-T6 PER QQ-A-327, TEMP T6
2. REMOVE BURRS & SHARP EDGES
~~3. SILKSCREEN (FRONT OF PANEL) .31 HIGH BLACK PER ND1002019~~
~~4. MARK (REAR OF PANEL) .12 HIGH BLACK PER ND1002019~~

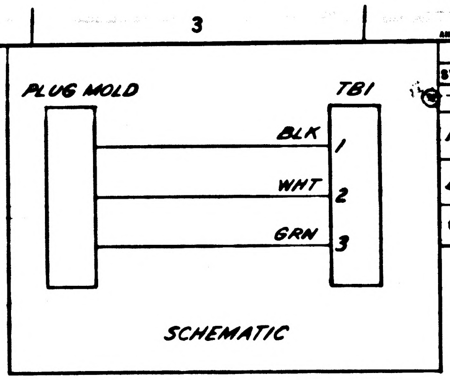
②

1. MATL: AL 5052-H32 PER QQ-A-318 TEMP H32
2. REMOVE BURRS & SHARP EDGES
~~3. MARK .12 HIGH BLACK PER ND1002019~~

ASSY NOTES

1. WELD PER MIL-W-6858, CL C
2. ELECTRICALLY CONDUCTIVE CHROMATE PER MIL-C-5541
3. PAINT FRONT & EDGES 1 COAT TT-E-529, CL B, FED-STD-595, COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
4. ASSEMBLE FIND NO. 12 USING FIND NO. 13
5. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
6. MARK (REAR OF PANEL) .12 HIGH BLACK PER ND1002019
7. SILKSCREEN (FRONT OF PANEL) .31 HIGH BLACK PER ND1002019


9.50±.06
.25±.03
115VAC AUX OUTLET
SEE ASSYNOTE 7
③


PLUG MOLD
TB1
BLK
WHT
GRN
1
2
3
SCHEMATIC

Aug 12

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01857 DATE 7/2/63

1014339-2	C	
1014339-1	C	
PART NO.	REV SYM	
REV STATUS OF PARTS		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	MS35489-40	GROMMET, RUBBER	18
~~3~~	~~1006956-1~~	~~WIRE, CONNECTOR~~	~~17~~
AR	MIL-W-16878/4 TYPE E, 12, GRN	WIRE, ELEC	16
AR	MIL-W-16878/4 TYPE E, 12, WHT	WIRE, ELEC	15
AR	MIL-W-16878/4 TYPE E, 12, BLK	WIRE, ELEC	14
AR	MIL-S-40083 CL 31	COMPOUND, SEALING	13
4	MS35249-53	SCREW, MACHINE FH	12
3	MS35649-84	NUT, PLAIN HEX	11
3	MS35338-80	WASHER, LOCK	10
3	MS15795-307	WASHER, FLAT	9
3	MS35233-45	SCREW, PAN HD	8
2	1006989-11	NUT, PLAIN, SELF-CLINCHING	7
2	MS35233-35	SCREW, PAN HD	6
1	1006859-2	TERMINAL BLOCK	5
2	1014215-1	HANDLE ASSY	4
1	1014340	MOLDING, WIRE	3
1	1014339-2	BRACKET	2
1	1014339-1	PANEL	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±.02 ±.005
ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 3 JUN 63
CHECKED R. Perrone 14 JUN 63
APPROVAL C. [illegible]
APPROVAL [illegible] 6/21/63
APPROVAL [illegible]
NASA APPROVAL [illegible] 7/2/63
MIT APPROVAL [illegible] 7/2/63
MIT APPROVAL [illegible] 7/2/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AUXILIARY OUTLET ASSEMBLY
COMPUTER TEST SET

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014339
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014339

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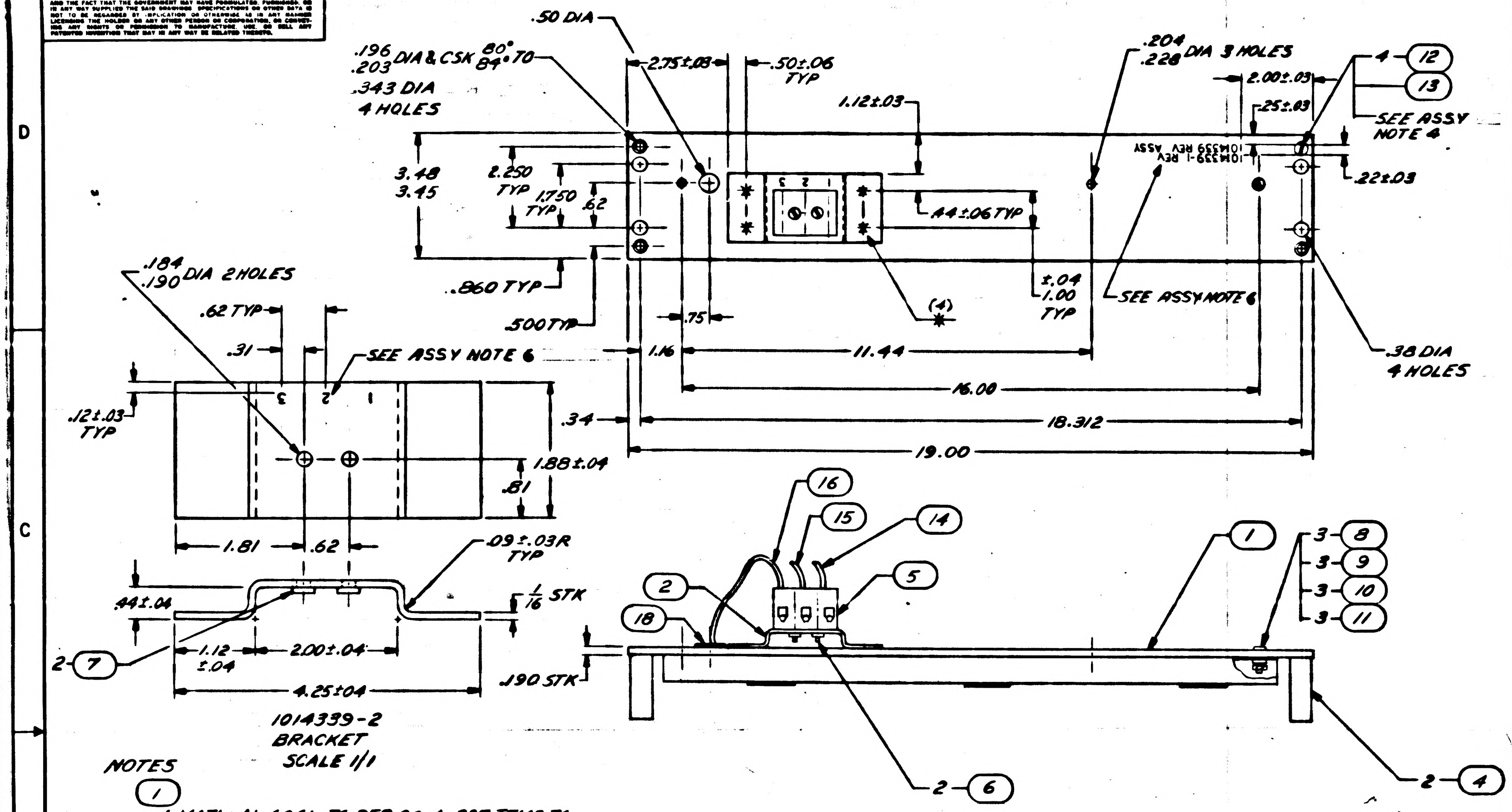


.50 DIA
.196 .203 DIA & CSK 80° 84° TO
.343 DIA
4 HOLES
2.75±.03
.50±.06 TYP
1.12±.03
.204 .228 DIA 3 HOLES
2.00±.03
.25±.03
4-12
13
SEE ASSY NOTE 4
.22±.03
1014339-1 REV
1014339 REV ASSY
3.48 3.45
2.250 TYP
1.750 TYP
.62
.44±.06 TYP
.860 TYP
500 TYP
.75
(4)
±.04 1.00 TYP
SEE ASSY NOTE 6
.38 DIA 4 HOLES
.184 .190 DIA 2 HOLES
.62 TYP
.31
SEE ASSY NOTE 6
3 2 1
.12±.03 TYP
.34
1.16
11.44
16.00
18.312
19.00
1.88±.04
.81
1.81
.62
.09±.03R TYP
1/16 STK
.44±.04
2-7
1.12 ±.04
2.00±.04
4.25±04
.190 STK
16
15
14
5
2
18
1
3-8
3-9
3-10
3-11
2-6
2-4

1014339-2
BRACKET
SCALE 1/1

NOTES

①

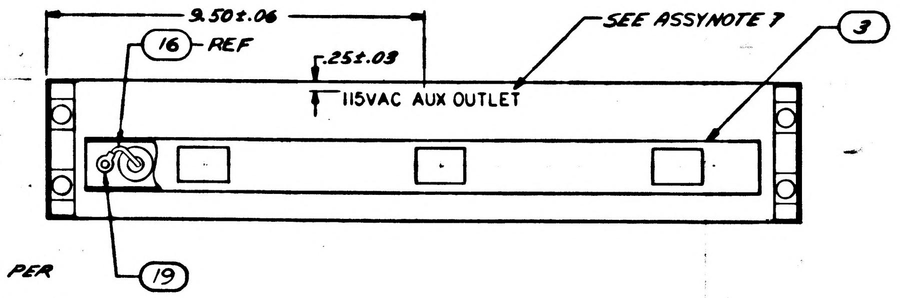
1. MATL: AL 6061-T6 PER QQ-A-327, TEMP T6
2. REMOVE BURRS & SHARP EDGES
~~3. SILKSCREEN (FRONT OF PANEL) .31 HIGH BLACK PER ND1002019~~
~~4. MARK (REAR OF PANEL) .12 HIGH BLACK PER ND1002019~~

②

1. MATL: AL 5052-H32 PER QQ-A-318 TEMP H32
2. REMOVE BURRS & SHARP EDGES
~~3. MARK .12 HIGH BLACK PER ND1002019~~

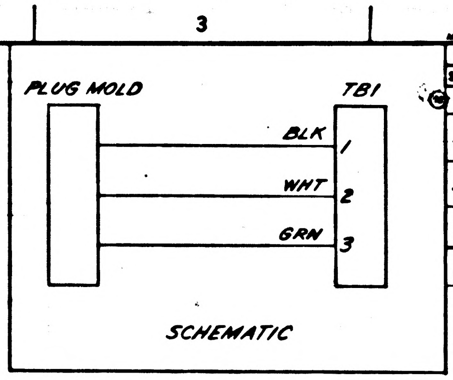
ASSY NOTES

1. WELD PER MIL-W-6858, CL C
2. ELECTRICALLY CONDUCTIVE CHROMATE PER MIL-C-5541
3. PAINT FRONT & EDGES 1 COAT TT-E-529, CL B, FED-STD-595, COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
4. ASSEMBLE FIND NO. 12 USING FIND NO. 13
5. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
6. MARK (REAR OF PANEL) .12 HIGH BLACK PER ND1002019
7. SILKSCREEN (FRONT OF PANEL) .31 HIGH BLACK PER ND1002019
8. WIRE PER ND 1002032



9.50±.06
16-REF
.25±.03
115VAC AUX OUTLET
SEE ASSY NOTE 7
3
19

1014339-2	C
1014339-1	C
PART NO.	REV SYM
REV STATUS OF PARTS	



PLUG MOLD
TB1
BLK
WHT
GRN
1
2
3

SCHEMATIC

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 01857	7/2/63	[illegible]
A	CLASS II CHANGE PER RD-R5955 DR R. [illegible] CHK W. J. [illegible] APPD [illegible]	18 OCT 63	JJS
B	CHANGED PER TDRR 06992 DR. W. Dunn CHK [illegible] APPD. [illegible]	2 MAR 64	KEB
C	CHANGED PER TDRR 08023 DR J.P. Leonard CHK [illegible] APPD [illegible] Marinaro	6 MAY 64	KEB
D	CHANGED PER TDRR 10599 DR. R. [illegible] CHK JCJ APPD [illegible]	23 JULY 64	KEB

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01857 DATE 7/2/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	MS 35430-10	LUG TERMINAL	19
1	MS35489-40	GROMMET, RUBBER	18
~~3~~	~~1006956-1~~	~~WIRE, CONNECTOR~~	~~17~~
AR	MIL-W-16878/4 TYPE E, 12, GRN	WIRE, ELEC	16
AR	MIL-W-16878/4 TYPE E, 12, WHT	WIRE, ELEC	15
AR	MIL-W-16878/4 TYPE E, 12, BLK	WIRE, ELEC	14
AR	MIL-S-40083 CL 31	COMPOUND, SEALING	13
4	MS35249-53	SCREW, MACHINE FH	12
3	MS35649-84	NUT, PLAIN HEX	11
3	MS35338-80	WASHER, LOCK	10
3	MS15795-307	WASHER, FLAT	9
3	MS35233-45	SCREW, PAN HD	8
2	1006989-11	NUT, PLAIN, SELF-CLINCHING	7
2	MS35233-35	SCREW, PAN HD	6
1	1006859-2	TERMINAL BLOCK	5
2	1014215-1	HANDLE ASSY	4
1	1014340	MOLDING, WIRE	3
1	1014339-2	BRACKET	2
1	1014339-1	PANEL	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 3 JUN 63
CHECKED [illegible] 14 JUN 63
APPROVAL C. [illegible]
APPROVAL [illegible] 6/21/63
APPROVAL [illegible]
NASA APPROVAL [illegible] 7/1/63
MIT APPROVAL [illegible] 7/2/63
MIT APPROVAL [illegible] 7/2/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AUXILIARY OUTLET ASSEMBLY
COMPUTER TEST SET

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014339
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014339

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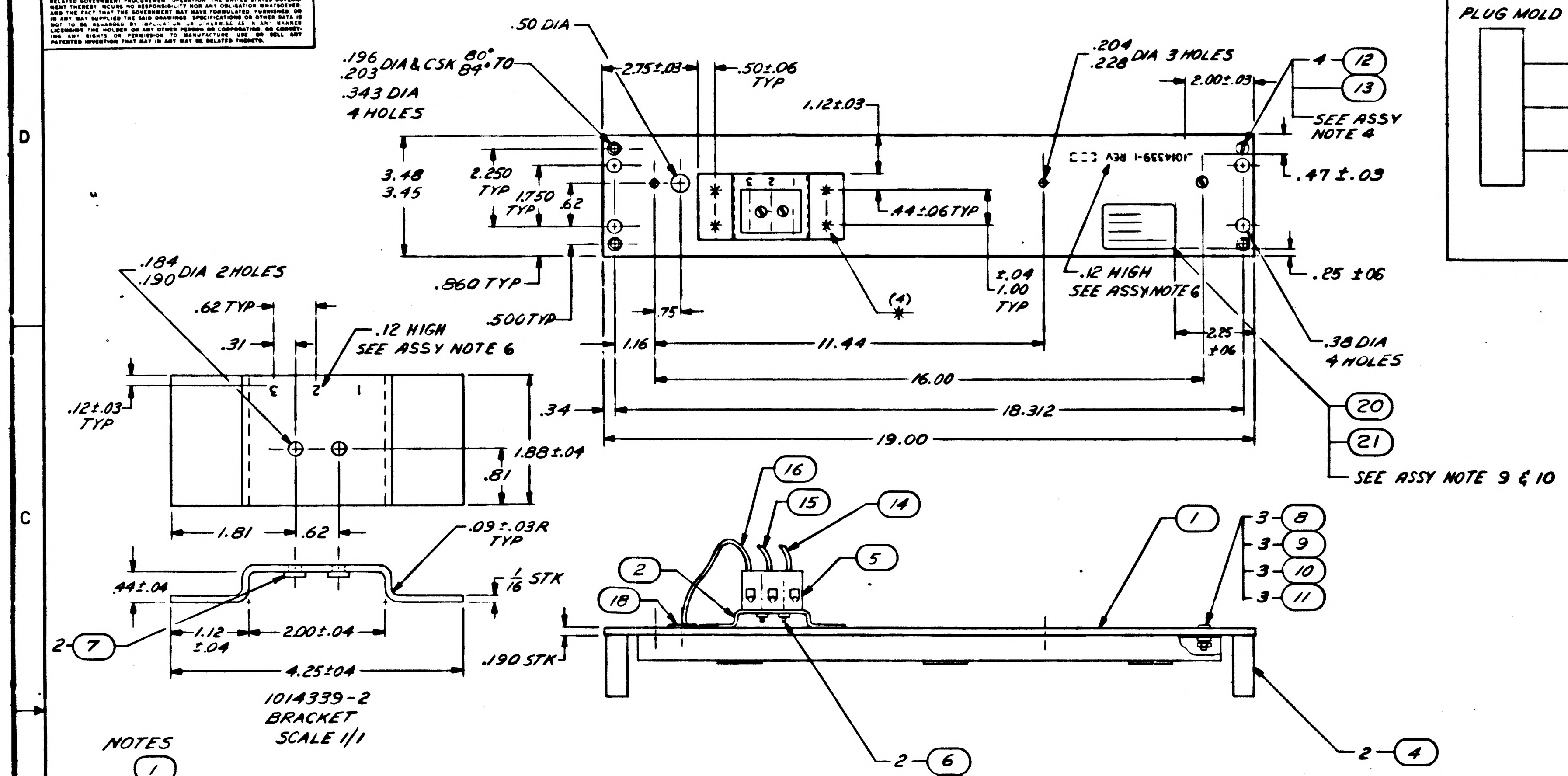
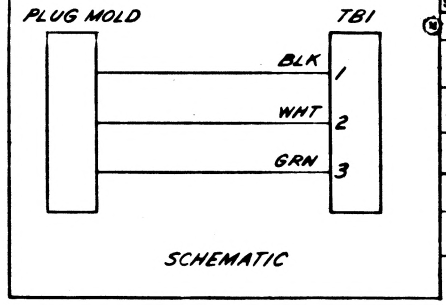
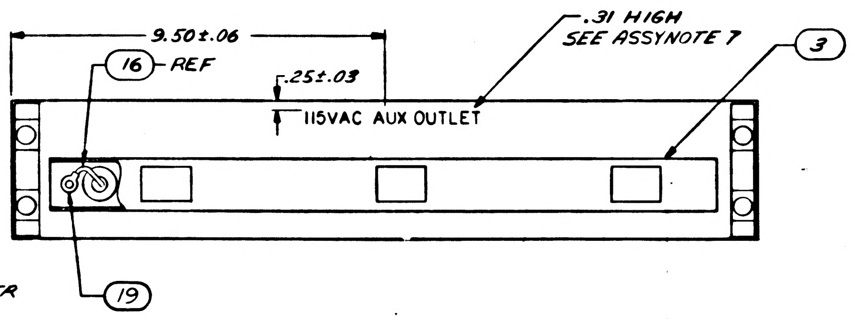

.50 DIA
.196 / .203 DIA & CSK 80° / 84° – 70
.343 DIA
4 HOLES
2.75±.03
.50±.06 TYP
1.12±.03
.204 / .228 DIA 3 HOLES
2.00±.03
4 – 12
13
SEE ASSY NOTE 4
3.48 / 3.45
2.250 TYP
1.750 TYP
.62
.44±.06 TYP
.47±.03
.860 TYP
.500 TYP
(4)
±.04 / 1.00 TYP
.12 HIGH SEE ASSY NOTE 6
.25 ±.06
.75
1.16
11.44
2.25 ±.06
.38 DIA 4 HOLES
16.00
.34
18.312
20
19.00
21
SEE ASSY NOTE 9 & 10
.184 / .190 DIA 2 HOLES
.62 TYP
.31
.12 HIGH SEE ASSY NOTE 6
.12±.03 TYP
1.88±.04
.81
1.81
.62
.09±.03R TYP
.44±.04
1/16 STK
2 – 7
1.12 ±.04
2.00±.04
4.25±.04
.190 STK
16
15
14
5
2
18
1
3 – 8
3 – 9
3 – 10
3 – 11
2 – 6
2 – 4
1014339-2
BRACKET
SCALE 1/1


PLUG MOLD
TB1
BLK
WHT
GRN
1
2
3
SCHEMATIC

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 01857	7/2/63	
A	CLASS II CHANGE PER RD-R5955 DR R. [illegible] CHK W. J. [illegible] APPD [illegible]	18 OCT 63	[illegible]
B	CHANGED PER TDRR 06992 DR W. Dann CHK [illegible] APPD. [illegible]	2 MAR 64	KEB
C	CHANGED PER TDRR 08023 DR J.P. Leonard CHK [illegible] APPD [illegible] Mariano	6 MAY 64	KEB
D	CHANGED PER TDRR 10599 DR R. [illegible] CHK J.J. APPD [illegible]	23 JULY 64	KEB
E	CHANGED PER TDRR 14496 DR [illegible] CHK [illegible] APPD [illegible]	15 DEC 64	[illegible]

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01157 DATE 7/2/63


9.50±.06
16 – REF
.25±.03
.31 HIGH SEE ASSY NOTE 7
3
115VAC AUX OUTLET
19

NOTES

①
1. MATL: AL 6061-T6 PER QQ-A-327, TEMP T6
2. REMOVE BURRS & SHARP EDGES
~~3. SILKSCREEN (FRONT OF PANEL) .31 HIGH BLACK PER ND1002019~~
~~4. MARK (REAR OF PANEL) .12 HIGH BLACK PER ND1002019~~

②
1. MATL: AL 5052-H32 PER QQ-A-318 TEMP H32
2. REMOVE BURRS & SHARP EDGES
~~3. MARK .12 HIGH BLACK PER ND1002019~~

ASSY NOTES
1. WELD PER MIL-W-6858, CL C
2. ELECTRICALLY CONDUCTIVE CHROMATE PER MIL-C-5541
3. PAINT FRONT & EDGES 1 COAT TT-E-529, CL B, FED-STD-595, COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
4. ASSEMBLE FIND NO. 12 USING FIND NO. 13
5. NUMBERS PRECEDING BALLOONS DENOTE QUANTITIES
6. MARK GOTHIC CHARACTERS AS SHOWN PER ND1002019 USING MARKING INK 1006271-10
7. SILK SCREEN GOTHIC CHARACTERS PER ND1002019 AS SHOWN USING BLACK INK 1006271-10
8. FOR FABRICATION SEE ND1002032
9. STAMP .12 HIGH GOTHIC CHARACTERS PER ND1002019 & ND1002023
10. BOND FIND NO. 20 TO NO. 1 USING FIND NO. 21
11. SOLDER PER ND1002071
12 AR DENOTES AS REQUIRED

1014339-2	C
1014339-1	E
PART NO.	REV SYM
REV STATUS OF PARTS	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	MIL-C-4003	CEMENT	21
1	1020086	PLATE, IDENTIFICATION, APOLLO G&N	20
1	MS 35430-10	LUG TERMINAL	19
1	MS35489-40	GROMMET, RUBBER	18
~~3~~	~~1006956-1~~	~~WIRE, CONNECTOR~~	~~17~~
AR	MIL-W-16878/4 TYPE E,12, GRN	WIRE, ELEC	16
AR	MIL-W-16878/4 TYPE E,12, WHT	WIRE, ELEC	15
AR	MIL-W-16878/4 TYPE E,12, BLK	WIRE, ELEC	14
AR	MIL-S-40083 CL 31	COMPOUND, SEALING	13
4	MS35249-53	SCREW, MACHINE FH	12
3	MS35649-84	NUT, PLAIN HEX	11
3	MS35338-80	WASHER, LOCK	10
3	MS15795-307	WASHER, FLAT	9
3	MS35233-45	SCREW, PAN HD	8
2	1006989-11	NUT, PLAIN, SELF-CLINCHING	7
2	MS35233-35	SCREW, PAN HD	6
1	1006859-2	TERMINAL BLOCK	5
2	1014215-1	HANDLE ASSY	4
1	1014340	MOLDING, WIRE	3
1	1014339-2	BRACKET	2
1	1014339-1	PANEL	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 7 MAY 63
CHECKED F. [illegible] 14 JUN 63
APPROVAL C. [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible] 7/2/63
MIT APPROVAL [illegible] 7/2/63
MIT APPROVAL D. [illegible] 7/2/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AUXILIARY OUTLET ASSEMBLY
COMPUTER TEST SET

CODE IDENT NO. —
SIZE D
NASA DRAWING NO 1014339
SCALE 1/2
WT
SHEET 1 OF 1

1014339

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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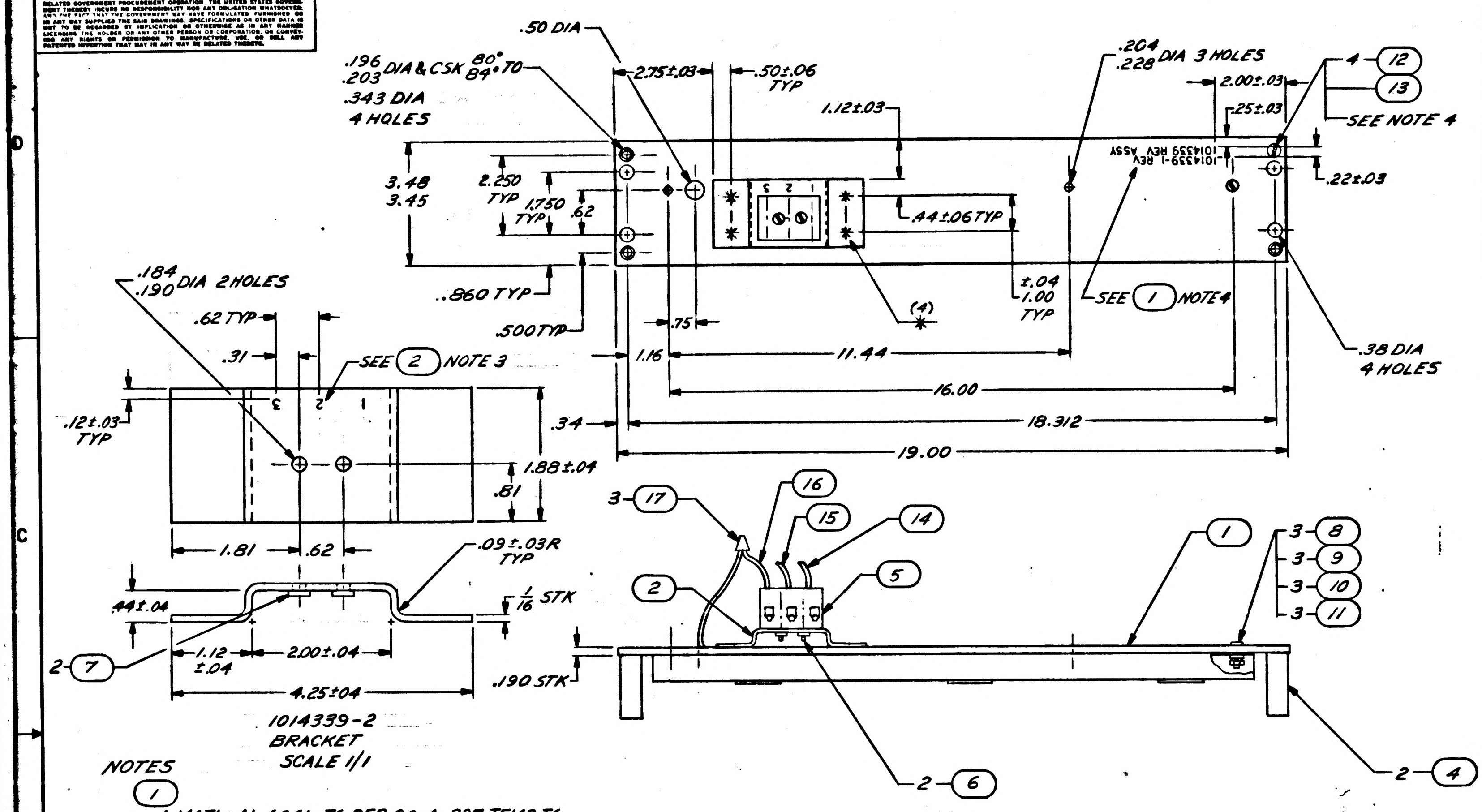
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 01857	7/2/63	


.50 DIA
.196/.203 DIA & CSK 80°/84° ±.70
.343 DIA
4 HOLES
2.75±.03
.50±.06 TYP
1.12±.03
.204/.228 DIA 3 HOLES
2.00±.03
.25±.03
4 – 12
13
SEE NOTE 4
3.48/3.45
2.250 TYP
1.750 TYP
.62
.44±.06 TYP
.22±.03
1014339-1 REV
1014339 REV ASSY
.184/.190 DIA 2 HOLES
.860 TYP
.500 TYP
(4)
±.04 1.00 TYP
SEE 1 NOTE 4
.38 DIA 4 HOLES
.62 TYP
.31
.75
SEE 2 NOTE 3
1.16
11.44
16.00
18.312
19.00
.12±.03 TYP
.34
1.88±.04
.81
1.81
.62
.09±.03R TYP
1/16 STK
.44±.04
1.12 ±.04
2.00±.04
4.25±04
.190 STK
2 – 7
3 – 17
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3 – 8
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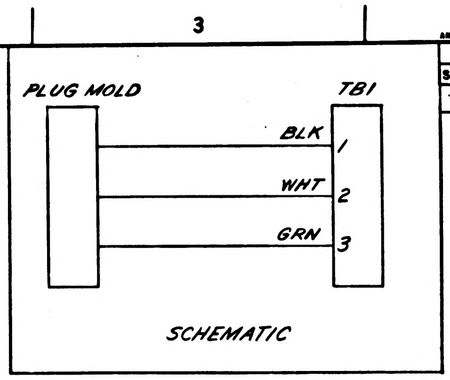
3 – 11
2 – 6
2 – 4

1014339-2
BRACKET
SCALE 1/1


PLUG MOLD
TB1
BLK
1
WHT
2
GRN
3

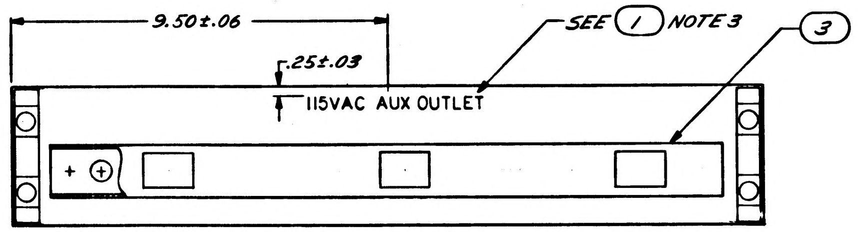
SCHEMATIC

NOTES

①
1. MATL: AL 6061-T6 PER QQ-A-327, TEMP T6
2. REMOVE BURRS & SHARP EDGES
3. SILKSCREEN (FRONT OF PANEL) .31 HIGH BLACK PER ND1002019
4. MARK (REAR OF PANEL) .12 HIGH BLACK PER ND1002019

②
1. MATL: AL 5052-H32 PER QQ-A-318 TEMP H32
2. REMOVE BURRS & SHARP EDGES
3. MARK .12 HIGH BLACK PER ND1002019

ASSY NOTES
1. WELD PER MIL-W-6858, CL C
2. ELECTRICALLY CONDUCTIVE CHROMATE PER MIL-C-5541
3. PAINT FRONT & EDGES 1 COAT TT-E-529, CL B, FED-STD-595, COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
4. ASSEMBLE FIND NO. 12 USING FIND NO. 13
5. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY


9.50±.06
.25±.03
SEE 1 NOTE 3
3
115VAC AUX OUTLET

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01857 DATE 7/2/63

1014339-2	—
1014339-1	—
PART NO.	REV SYM
REV STATUS OF PARTS	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
3	1006956	WIRE, CONNECTOR	17
AR	MIL-W-16878/E12 GRN	WIRE, ELECTRICAL	16
AR	MIL-W-16878/E12 WHT	WIRE, ELECTRCAL	15
AR	MIL-W-16878/E12 BLK	WIRE, ELECTRICAL	14
AR	MIL-S-40083 CL 31	COMPOUND, SEALING	13
4	MS35249-53	SCREW, MACHINE FH	12
3	MS35649-84	NUT, PLAIN HEX	11
3	MS35338-80	WASHER, LOCK	10
3	MS15795-307	WASHER, FLAT	9
3	MS35233-45	SCREW, PAN HD	8
2	1006989-11	NUT, PLAIN, SELF-CLINCHING	7
2	MS35233-35	SCREW, PAN HD	6
1	1006859-3	TERMINAL BLOCK	5
2	1014215-1	HANDLE ASSY	4
1	1014340	MOLDING, WIRE	3
1	1014339-2	BRACKET	2
1	1014339-1	PANEL	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ±.005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 7 JUN 63
CHECKED D. Perrone 14 JUN 63
APPROVAL C. Sperling
APPROVAL 6/21/63
APPROVAL
NASA APPROVAL 7/2/63
MIT APPROVAL 7/2/63
MIT APPROVAL 7/2/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AUXILIARY OUTLET ASSEMBLY
COMPUTER TEST SET

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014339
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014339

MASTER

INCHES
1 2
PHOTOGRAPHIC SCALE ONLY

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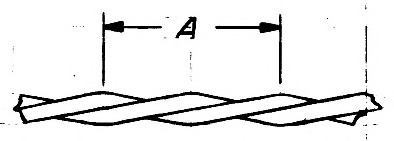
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
	CLASS B RELEASED PER TDRR 01855	7/2/63	

DIM A (RHL)	WIRE SIZE	PART NO.
1.50	MIL-W-16878/4 TYPE E 18 BLU MIL-W-16878/4 TYPE E 18 WHT	1014341-1
1.25	MIL-W-16878/4 TYPE E 20 BLU MIL-W-16878/4 TYPE E 20 WHT	-2
1.00	MIL-W-16878/4 TYPE E 22 BLU MIL-W-16878/4 TYPE E 22 WHT	-3
1.00	MIL-W-16878/4 TYPE E 24 BLU MIL-W-16878/4 TYPE E 24 WHT	-4
1.50	MIL-W-16878/4 TYPE E 18 RED MIL-W-16878/4 TYPE E 18 BLK	-5
1.25	MIL-W-16878/4 TYPE E 20 RED MIL-W-16878/4 TYPE E 20 BLK	-6
1.00	MIL-W-16878/4 TYPE E 22 RED MIL-W-16878/4 TYPE E 22 BLK	-7
1.00	MIL-W-16878/4 TYPE E 24 RED MIL-W-16878/4 TYPE E 24 BLK	-8
1.25	MIL-W-16878/4 TYPE E 20 GRN MIL-W-16878/4 TYPE E 20 GRN	-9
1.25	MIL-W-16878/4 TYPE E 20 BRN MIL-W-16878/4 TYPE E 20 BRN	1014341-10



FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01855 DATE 7/2/63

NOTES
1. (RHL) INDICATES RIGHT HAND LAY

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

NEXT ASSY	USED ON
1014120	
1014118	
1014112	1014061

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.30 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

DRAWN DATE 6 June 63
CHECKED D.P. McCallum June 63
APPROVAL H.W. Morse June 63
APPROVAL R.E. Warner 6/26/63
APPROVAL 6/26/63
NASA APPROVAL 7/8/63
MIT APPROVAL L. Hazel 7/2/63
MIT APPROVAL 7/2/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE, ELECTRICAL
TWISTED PAIR

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014341
SCALE
WT
SHEET 1 OF 1

1014341

60

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 05245	12/17/63	

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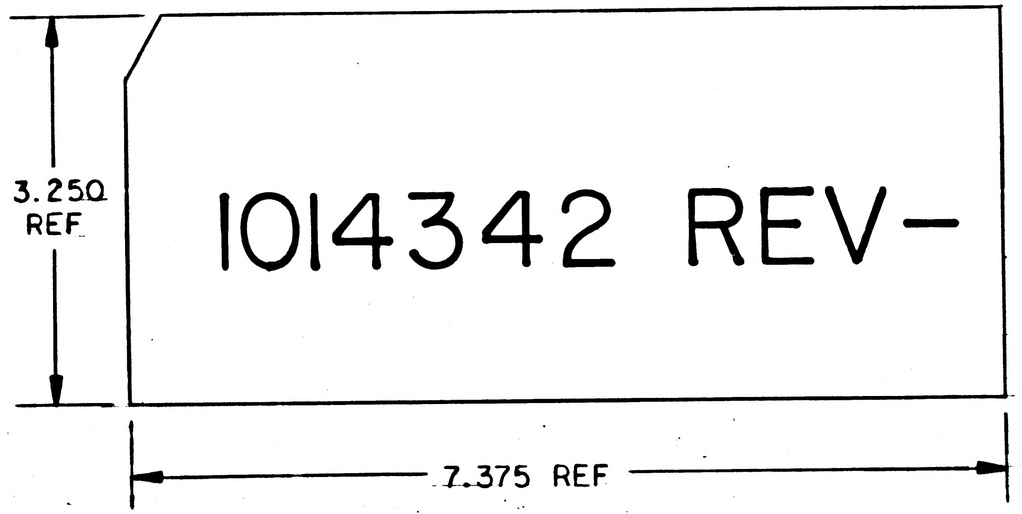
DECK W
NO OF CARDS 634



REFERENCE DRAWINGS
SCHEMATICS 1014379

FOR INFORMATION ONLY
CLASS B RELEASE
TDRR NO 05245 DATE 12/17/63

NOTE
NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

MASTER

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-489

DRAWN DATE 4 OCT 63
CHECKED 7 Oct 63
APPROVAL JPK
APPROVAL JJS
APPROVAL
NASA APPROVAL 12/17/63
MIT APPROVAL 12/17/63
MIT APPROVAL 12/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE WRAP MACHINE CARDS
COMPUTER TEST SET
SYSTEM INTERFACE
PLATE ASSY NO. 1

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	B	1014342

SCALE NONE WT SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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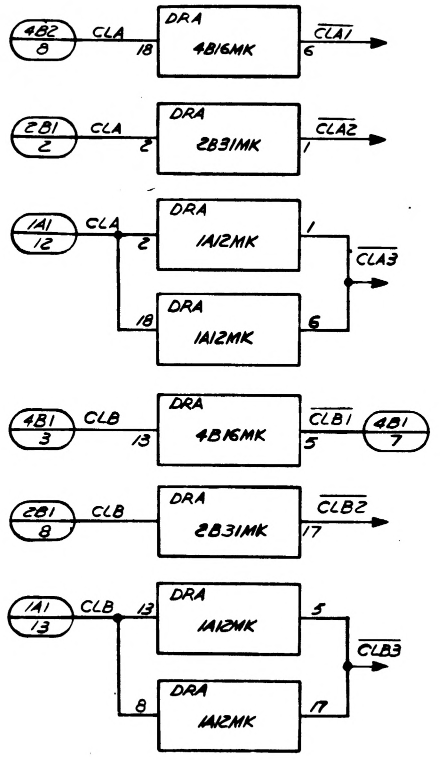
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		


4B2 / 8
CLA
18
DRA
4B16MK
6
$\overline{CLA1}$
2B1 / 2
CLA
2
DRA
2B31MK
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$\overline{CLA2}$
1A1 / 12
CLA
2
DRA
1A12MK
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18
DRA
1A12MK
6
$\overline{CLA3}$
4B1 / 3
CLB
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DRA
4B16MK
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$\overline{CLB1}$
4B1 / 7
2B1 / 8
CLB
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2B31MK
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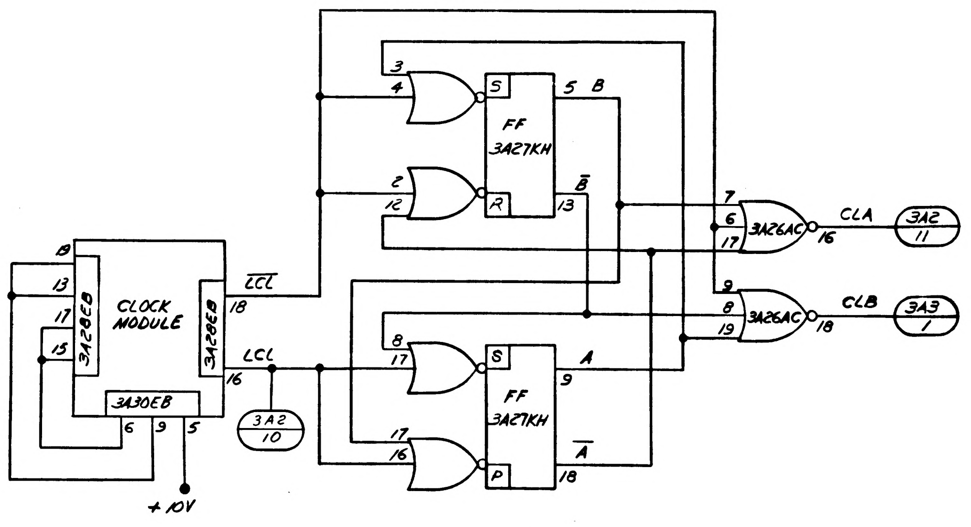
CLOCK MODULE
3A28EB
3A28EB
3A30EB
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LCL
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3A27KH
5 B
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16
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FF
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6
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16
CLA
3A2 / 11
9
8
19
3A26AC
18
CLB
3A3 / 1

CLOCK A & B

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 01438 DATE 10 July 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ± DO NOT SCALE THIS DRAWING	RAYTHEON CO. LEXINGTON, MASS. CONTRACT NO. NAS-9-498	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
		MATERIAL	DRAWN J F McC DATE June 6 63 CHECKED 6-12-3 APPROVAL C Sw EPC APPROVAL JJB 6/4/63 APPROVAL	LOGIC DIAGRAM COMPUTER TEST SET (CLOCK LOGIC) LD2
	1014156	HEAT TREATMENT	NASA APPROVAL	CODE IDENT NO —— SIZE J NASA DRAWING NO 1014344
NEXT ASSY	USED ON	FINAL FINISH	MIT APPROVAL MIT APPROVAL 8/1/63	SCALE NONE WT SHEET 1 OF 1
APPLICATION				

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES 1 2
PHOTOGRAPHIC SCALE ONLY

1014344

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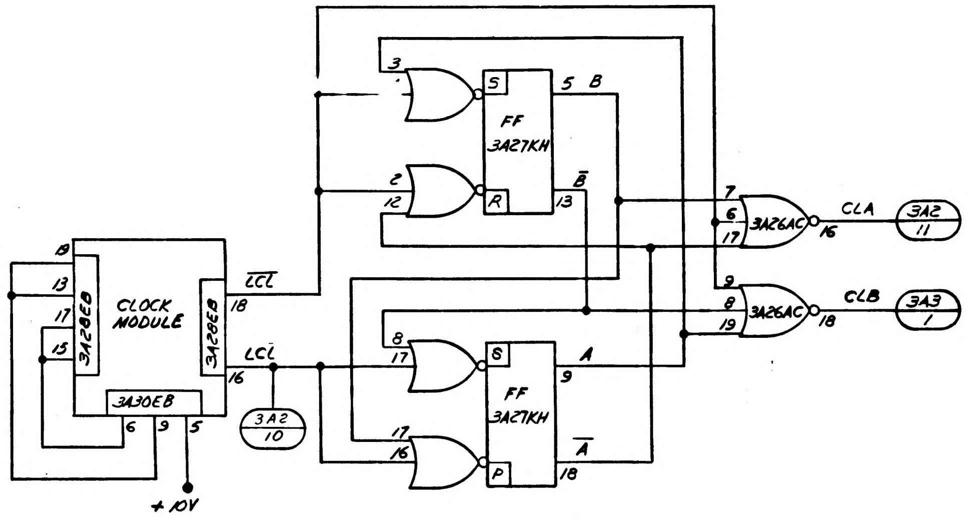
REVISIONS	
SYM	DESCRIPTION
--	CL B RELEASED PER TDRR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3A26AC
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CLB
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17
15
3A28EB
CLOCK MODULE
3A28EB
18
C̄L̄C̄
LCL
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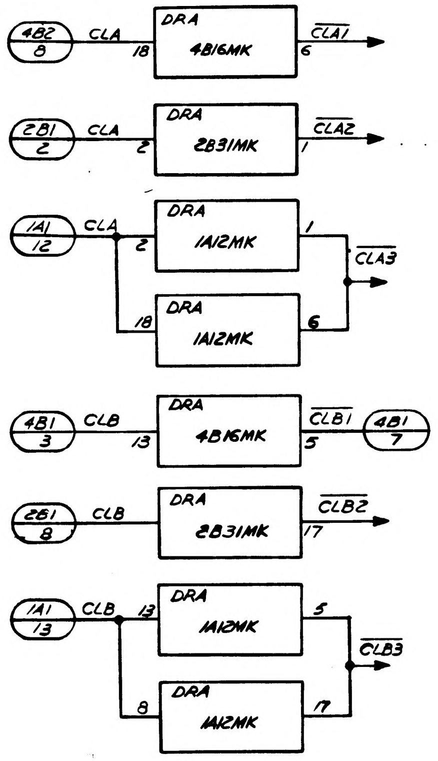
CLOCK A & B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17

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CLASS B RELEASE PER TDRR NO. 0.938 DATE July

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO

LIST OF MATERIAL

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

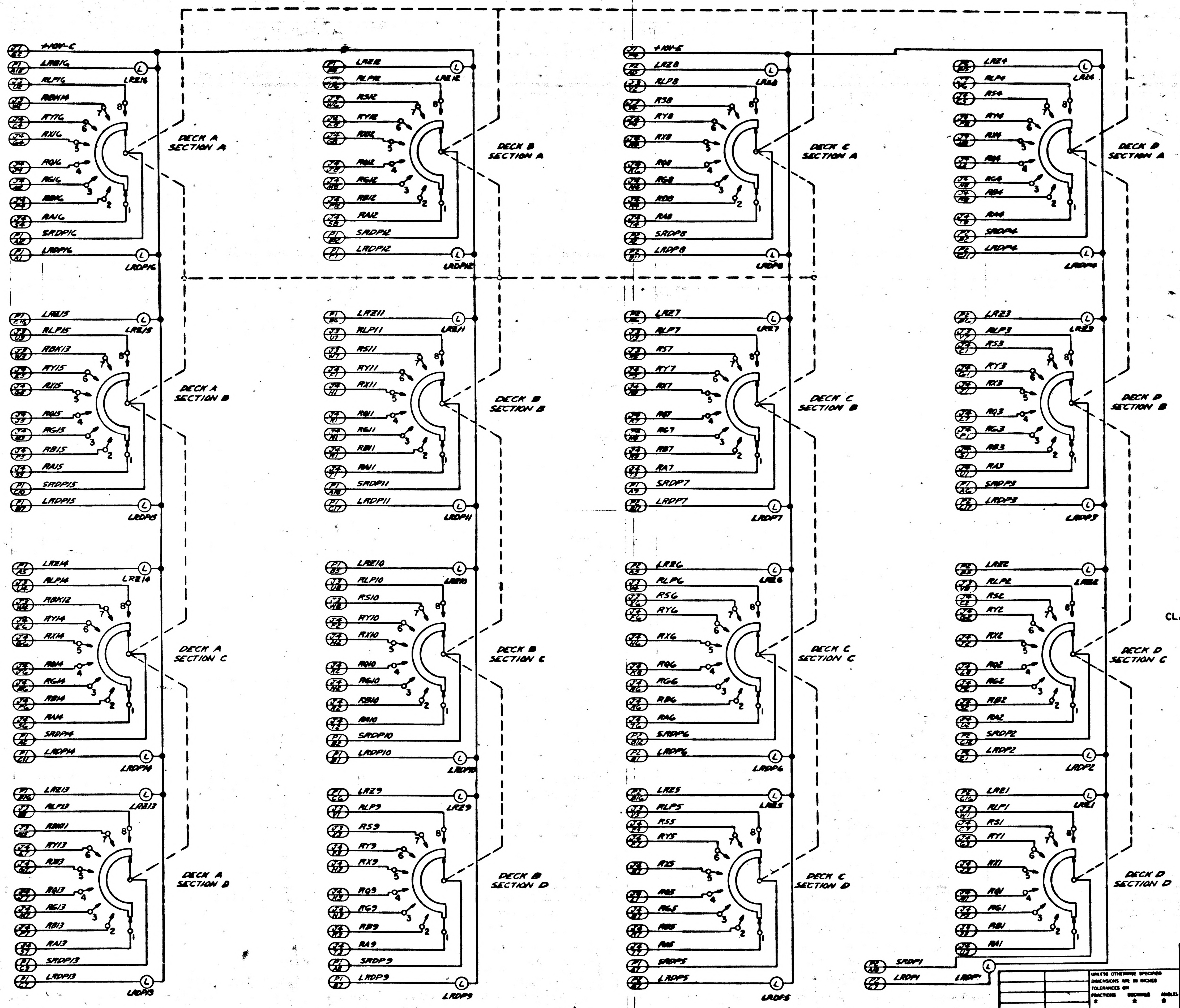
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE 6 63
CHECKED 6-12-63
APPROVAL C. Sawyer
APPROVAL 6-14-63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED S
LOGIC
COMPUTER
CODE IDENT NO
J
CALE

1014344

INCHES
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO.		
A	CLASS II CHANGE PER RD-R5545 DR. CHK. W.J. APPD.	19 DEC 63	
B	CHANGED PER TDRR 09754 DR CHK J.C.S. APPD	9 JUN 64	



+10V-C
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RLP16
RBK14
RY16
RX16
RQ16
RG16
RB16
RA16
SRDP16
LRDP16
DECK A SECTION A
LRZ15
RLP15
RBK13
RY15
RX15
RQ15
RG15
RB15
RA15
SRDP15
LRDP15
DECK A SECTION B
LRZ14
RLP14
RBK12
RY14
RX14
RQ14
RG14
RB14
RA14
SRDP14
LRDP14
DECK A SECTION C
LRZ13
RLP13
RBK11
RY13
RX13
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RG13
RB13
RA13
SRDP13
LRDP13
DECK A SECTION D
LRZ12
RLP12
RS12
RY12
RX12
RQ12
RG12
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RA12
SRDP12
LRDP12
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RS11
RY11
RX11
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DECK B SECTION C
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DECK C SECTION D
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DECK D SECTION A
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LRDP3
DECK D SECTION B
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DECK D SECTION C
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DECK D SECTION D
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FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. 08172 DATE 7/07/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014309	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(REGISTER DISPLAY SWITCH) P&M

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014345
SCALE NONE
SHEET 1 OF 1

1014345

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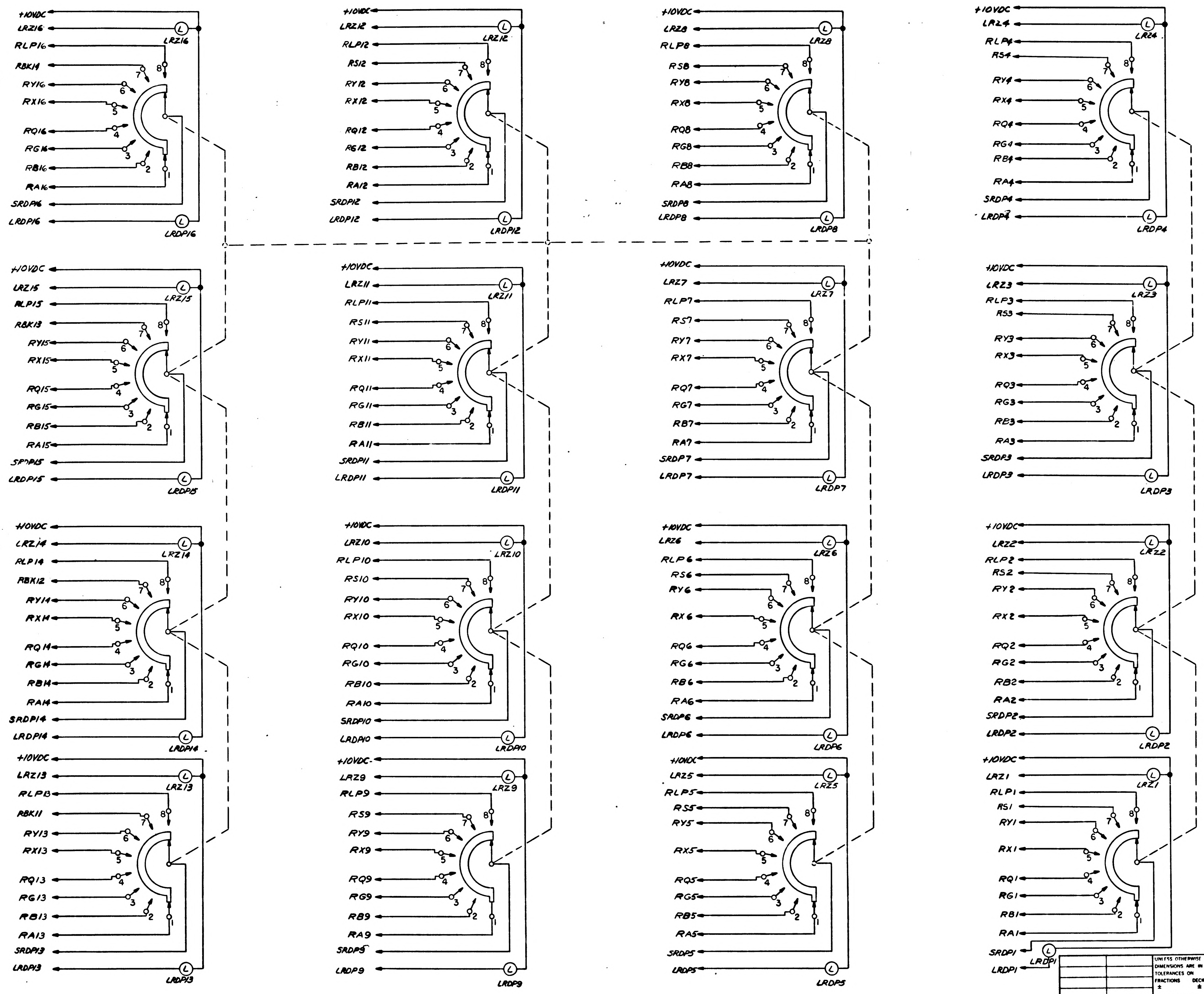
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED FER TDRR NO.		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FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. 02172 DATE 7/24/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

	1014156	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ± DO NOT SCALE THIS DRAWING	RAYTHEON CO. LEXINGTON, MASS. CONTRACT NO NAS-9-49?	MANNED SPACECRAFT CENTER HOUSTON TEXAS
NEXT ASSY	USED ON	MATERIAL HEAT TREATMENT FINAL FINISH	DRAWN J. Judge DATE CHECKED A.G. Caganas 23 Jun 63 APPROVAL APPROVAL APPROVAL	LOGIC DIAGRAM COMPUTER TEST SET (REGISTER DISPLAY SWITCH) P&V
APPLICATION			NASA APPROVAL 7/29/63 MIT APPROVAL MIT APPROVAL	CODE IDENT NO —— SIZE J NASA DRAWING NO 1014345 SCALE NONE WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
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F-2

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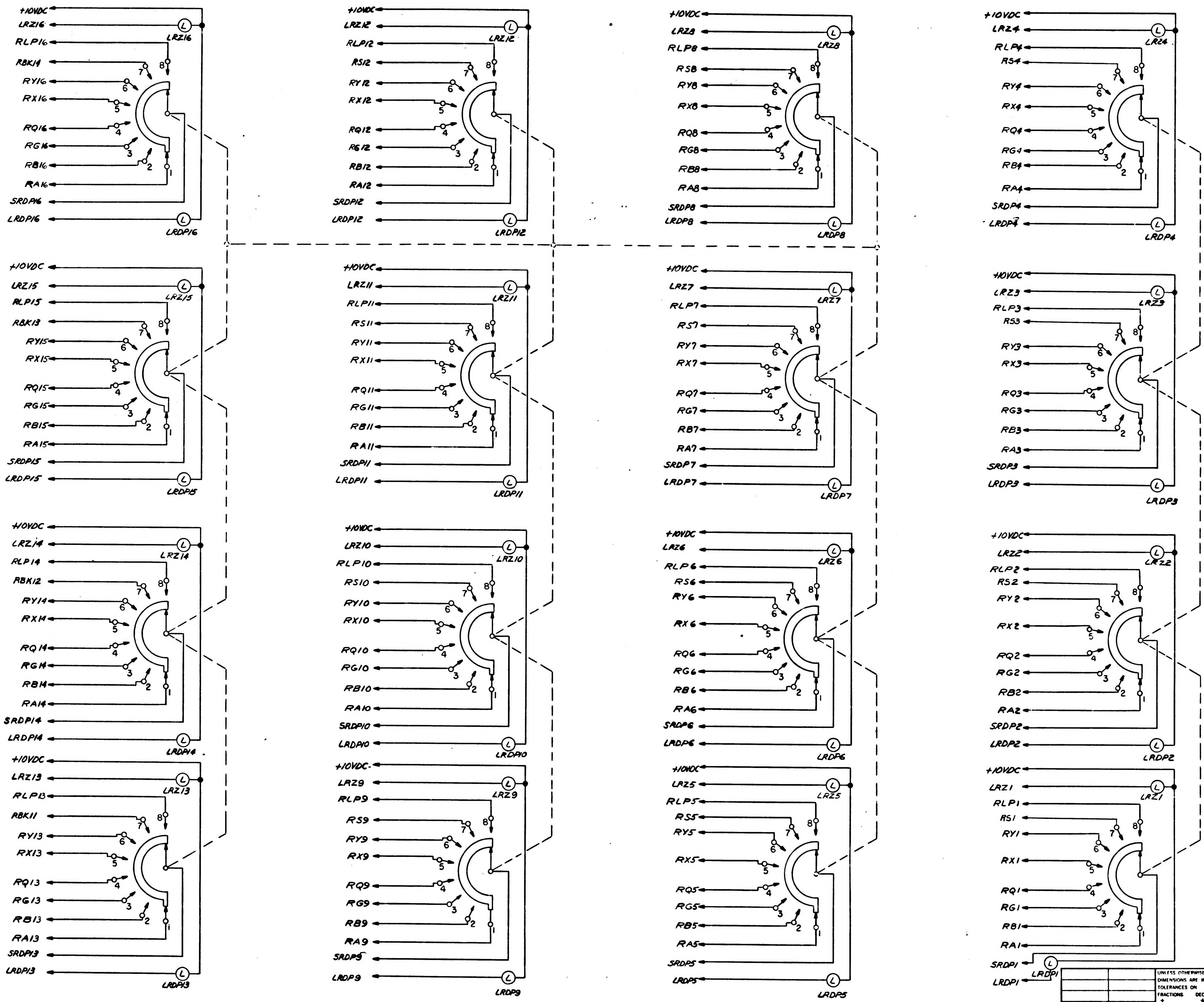
REVISIONS

SYM	DESCRIPTION
—	CL B RELEASED PER TDRR N



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FOR INFORMATION ONLY

CLASS B RELEASED PER TDRR NO.

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

QTY REQD	PART OR IDENTIFYING NO

LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-49
DRAWN L. Judge DATE 6/25/63
CHECKED C. G. Cazanas 25 June 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SP

LOGIC
COMPUTE
(REGISTE

CODE IDENT NO —
J
SCALE NONE

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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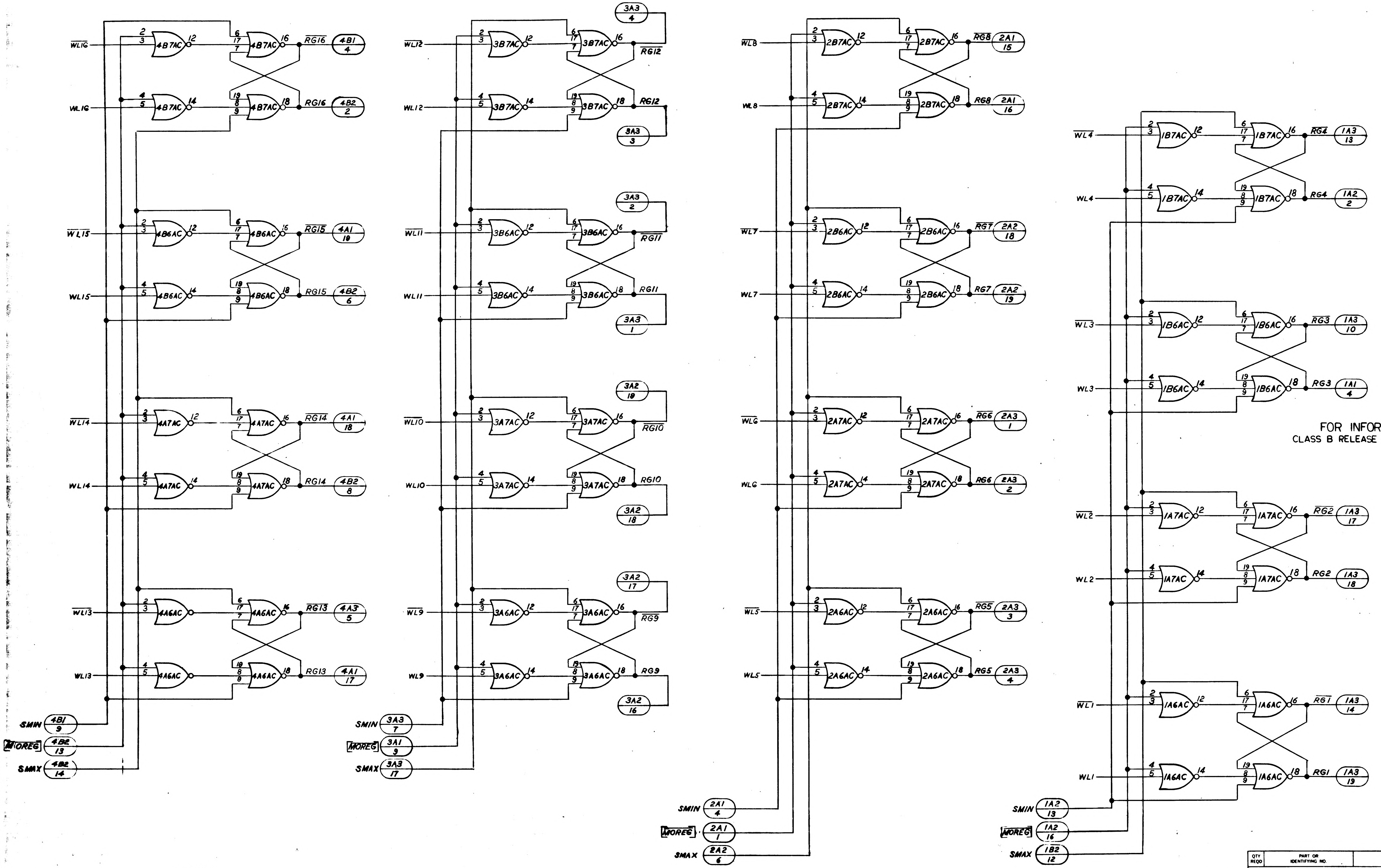
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WL16
RG16
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4B6AC
$\overline{RG15}$
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WL15
RG15
4B2 6
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$\overline{RG14}$
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WL14
RG14
4B2 8
$\overline{WL13}$
4A6AC
$\overline{RG13}$
4A3 5
WL13
RG13
4A1 17
SMIN 4B1 9
$\overline{MOREG}$ 4B2 13
SMAX 4B2 14
$\overline{WL12}$
3B7AC
3A3 4
$\overline{RG12}$
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RG12
3A3 3
$\overline{WL11}$
3B6AC
3A3 2
$\overline{RG11}$
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3A3 1
$\overline{WL10}$
3A7AC
3A2 19
$\overline{RG10}$
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RG10
3A2 18
$\overline{WL9}$
3A6AC
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$\overline{RG9}$
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3A2 16
SMIN 3A3 7
$\overline{MOREG}$ 3A1 9
SMAX 3A3 17
$\overline{WL8}$
2B7AC
$\overline{RG8}$
2A1 15
WL8
RG8
2A1 16
$\overline{WL7}$
2B6AC
$\overline{RG7}$
2A2 18
WL7
RG7
2A2 19
$\overline{WL6}$
2A7AC
$\overline{RG6}$
2A3 1
WL6
RG6
2A3 2
$\overline{WL5}$
2A6AC
$\overline{RG5}$
2A3 3
WL5
RG5
2A3 4
SMIN 2A1 4
$\overline{MOREG}$ 2A1 1
SMAX 2A2 6
$\overline{WL4}$
1B7AC
$\overline{RG4}$
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$\overline{WL3}$
1B6AC
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1A3 10
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1A1 4
$\overline{WL2}$
1A7AC
$\overline{RG2}$
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RG2
1A3 18
$\overline{WL1}$
1A6AC
$\overline{RG1}$
1A3 14
WL1
RG1
1A3 19
SMIN 1A2 13
$\overline{MOREG}$ 1A2 16
SMAX 1B2 12
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18

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CLASS B RELEASE PER TDRR NO. DATE
02172 7/24/63

D
C
B
A
1014346

NOTES:

$$\left[\overline{MOREG}\right] = \left[\overline{\left[\overline{(S1MO\ S2MO + S1SA + S2SA)\ SMO\ (WG4 + WG5 + WG6) + SREI1\ SRE\ RGAG\ \overline{RESPOA}}\right]\ Q2}\right]$$

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE 6/25/63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 7/24/63
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RG REGISTER) LDI

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014346
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

5 1014346 4 3 2 1

INCHES
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E-2

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SYM	REVISIONS DESCRIPTION
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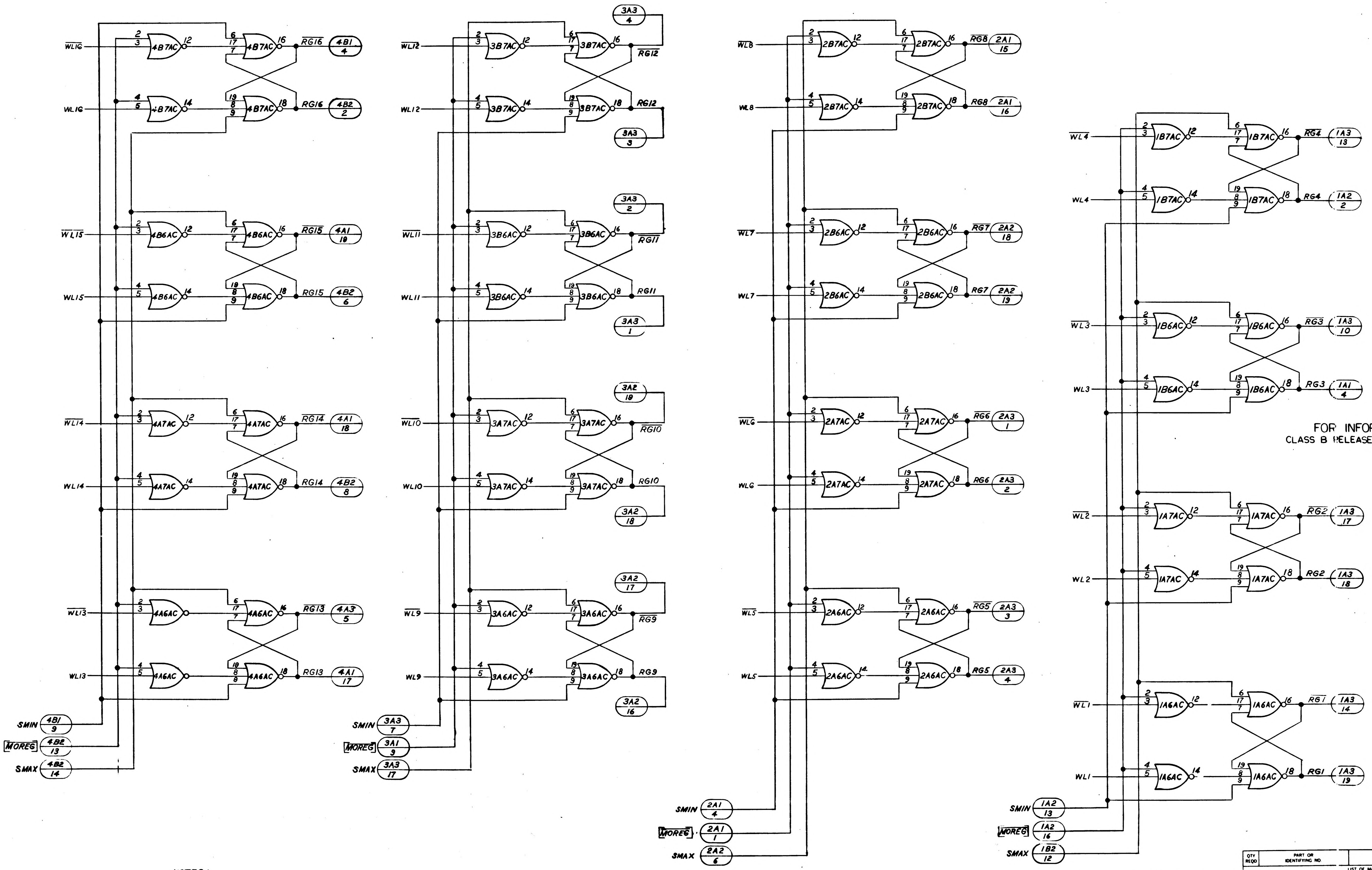
1014346



5
4
3
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1
D
C
B
A
WL16
WL16
4B7AC
12
14
16
18
RG16
4B1
4
RG16
4B2
2
WL15
WL15
4B6AC
RG15
4A1
10
RG15
4B2
6
WL14
WL14
4A7AC
RG14
4A1
18
RG14
4B2
8
WL13
WL13
4A6AC
RG13
4A3
5
RG13
4A1
17
SMIN
4B1
9
MOREG
4B2
13
SMAX
4B2
14
WL12
WL12
3B7AC
3A3
4
RG12
RG12
3A3
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WL11
WL11
3B6AC
3A3
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RG11
RG11
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RG10
RG10
3A2
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WL9
WL9
3A6AC
3A2
17
RG9
RG9
3A2
16
SMIN
3A3
7
MOREG
3A1
9
SMAX
3A3
17
WL8
WL8
2B7AC
RG8
2A1
15
RG8
2A1
16
WL7
WL7
2B6AC
RG7
2A2
18
RG7
2A2
19
WL6
WL6
2A7AC
RG6
2A3
1
RG6
2A3
2
WL5
WL5
2A6AC
RG5
2A3
3
RG5
2A3
4
SMIN
2A1
4
MOREG
2A1
1
SMAX
2A2
6
WL4
WL4
1B7AC
RG4
1A3
13
RG4
1A2
2
WL3
WL3
1B6AC
RG3
1A3
10
RG3
1A1
4
WL2
WL2
1A7AC
RG2
1A3
17
RG2
1A3
18
WL1
WL1
1A6AC
RG1
1A3
14
RG1
1A3
19
SMIN
1A2
13
MOREG
1A2
16
SMAX
1B2
12

FOR INFORMATION
CLASS B RELEASE PER TDR

NOTES:

$$\boxed{\overline{MOREG}} = \overline{\boxed{\overline{(SIMO\ S2MO + SISA + S2SA)\ SMO\ (WG4 + WG5 + WG6) + SREI1\ SRE\ RGAG\ \overline{RESPOA}}}\ Q2}$$

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO	NOMENCL DESCR
LIST OF MATERIALS		

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO NAS-9-498
DRAWN E. Judge DATE 6/25/63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPAC
HOUSTO

LOGIC
COMPUTER
(RG RE

CODE IDENT NO —
SIZE J
SCALE NONE
WT

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SYM	DESCRIPTION	DATE	APPROVED
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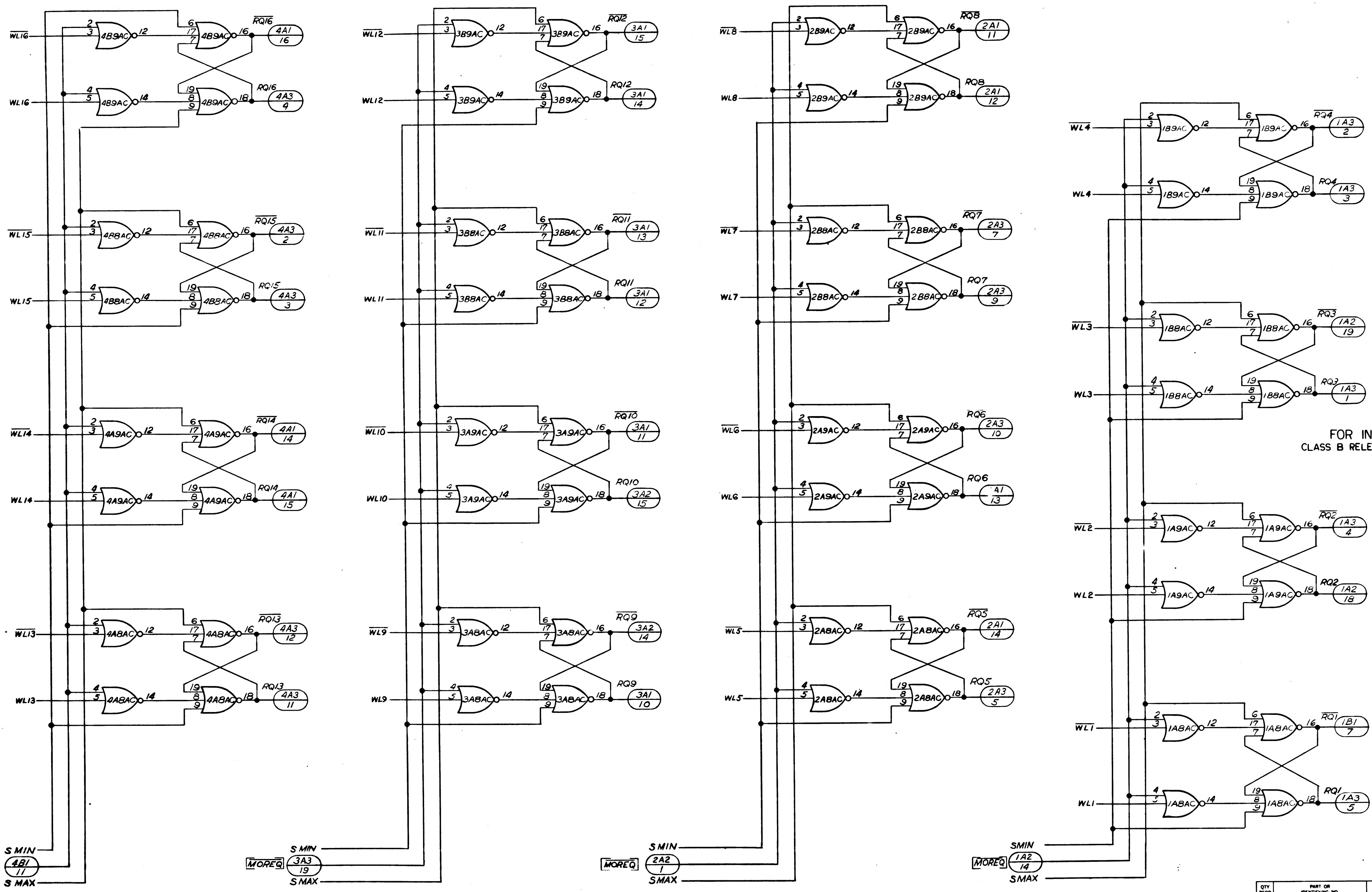

$\overline{WL16}$
WL16
4B9AC
$\overline{RQ16}$
4A1 / 16
RQ16
4A3 / 4
$\overline{WL15}$
WL15
4B8AC
$\overline{RQ15}$
4A3 / 2
RQ15
4A3 / 3
$\overline{WL14}$
WL14
4A9AC
$\overline{RQ14}$
4A1 / 14
RQ14
4A1 / 15
$\overline{WL13}$
WL13
4A8AC
$\overline{RQ13}$
4A3 / 12
RQ13
4A3 / 11
S MIN
$\overline{MOREQ}$
4B1 / 11
S MAX
$\overline{WL12}$
WL12
3B9AC
$\overline{RQ12}$
3A1 / 15
RQ12
3A1 / 14
$\overline{WL11}$
WL11
3B8AC
$\overline{RQ11}$
3A1 / 13
RQ11
3A1 / 12
$\overline{WL10}$
WL10
3A9AC
$\overline{RQ10}$
3A1 / 11
RQ10
3A2 / 15
$\overline{WL9}$
WL9
3A8AC
$\overline{RQ9}$
3A2 / 14
RQ9
3A1 / 10
S MIN
$\overline{MOREQ}$
3A3 / 19
S MAX
$\overline{WL8}$
WL8
2B9AC
$\overline{RQ8}$
2A1 / 11
RQ8
2A1 / 12
$\overline{WL7}$
WL7
2B8AC
$\overline{RQ7}$
2A3 / 7
RQ7
2A3 / 9
$\overline{WL6}$
WL6
2A9AC
$\overline{RQ6}$
2A3 / 10
RQ6
A1 / 13
$\overline{WL5}$
WL5
2A8AC
$\overline{RQ5}$
2A1 / 14
RQ5
2A3 / 5
S MIN
$\overline{MOREQ}$
2A2 / 1
SMAX
$\overline{WL4}$
WL4
1B9AC
$\overline{RQ4}$
1A3 / 2
RQ4
1A3 / 3
$\overline{WL3}$
WL3
1B8AC
$\overline{RQ3}$
1A2 / 19
RQ3
1A3 / 1
$\overline{WL2}$
WL2
1A9AC
$\overline{RQ2}$
1A3 / 4
RQ2
1A2 / 18
$\overline{WL1}$
WL1
1A8AC
$\overline{RQ1}$
1B1 / 7
RQ1
1A3 / 5
SMIN
$\overline{MOREQ}$
1A2 / 14
SMAX
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9

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. DATE
02172 7/24/63

NOTES:

$$\overline{MOREQ} = \overline{\left[\overline{(S1MO\ S2MO + S1SA + S2SA)\ SMO\ WQG + S\ REI1\ SRE\ RQAG\ \overline{RESPOA}}\right]\ Q2}$$

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

	1014156
NEXT ASSY	USED ON
APPLICATION	

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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN L. Judge DATE 6/...
CHECKED A. G. ... 25 June 63
APPROVAL C. Sperling ...
APPROVAL ...
APPROVAL ...
NASA APPROVAL ... 7/24/63
MIT APPROVAL ... 24 July 63
MIT APPROVAL ...

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RQ REGISTER) LD1

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014347
SCALE NONE
WT
SHEET 1 OF 1

INCHES
PHOTOGRAPHIC SCALE ONLY

E-2

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SYM	DESCRIPTION
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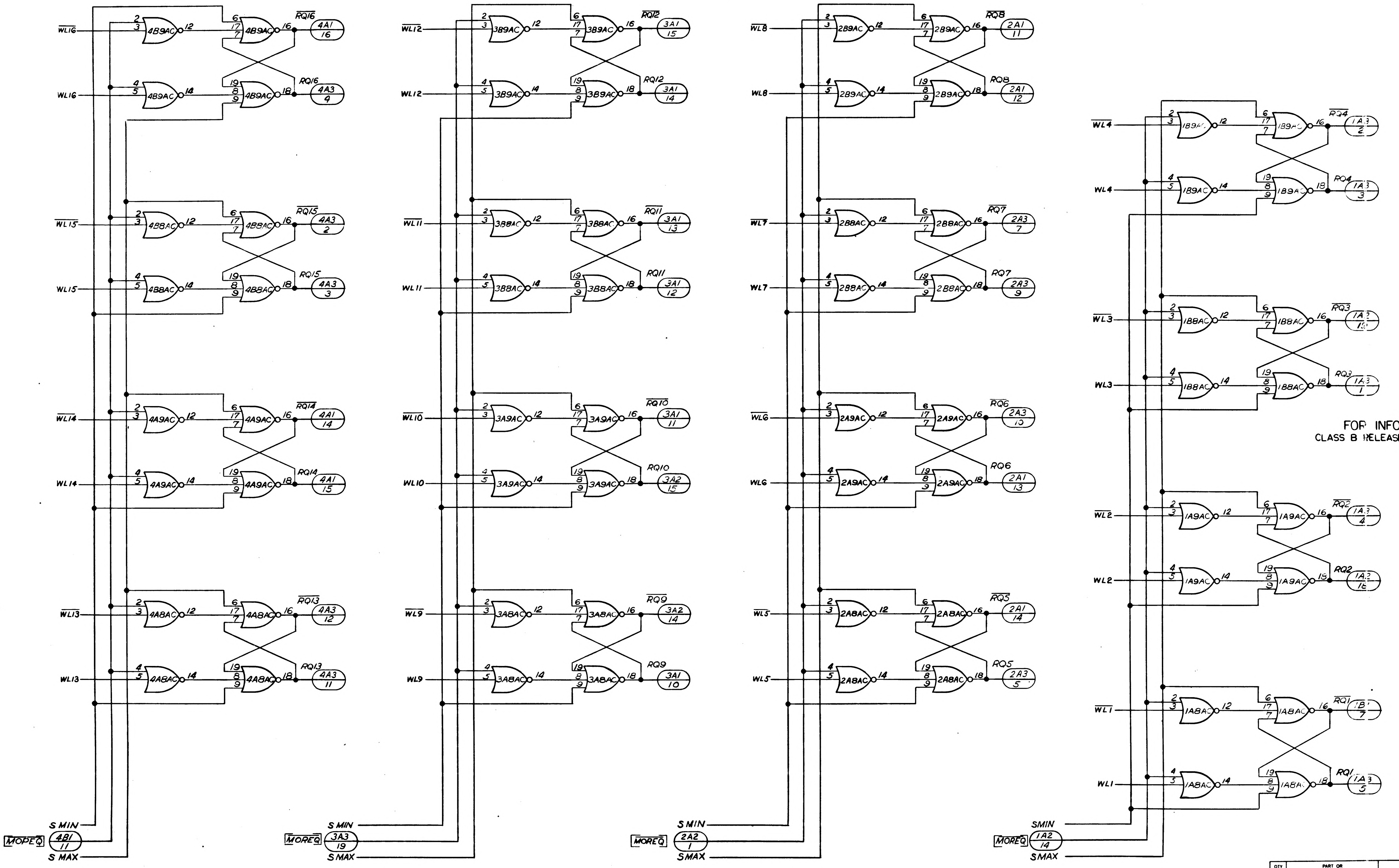

$\overline{WL16}$
WL16
4B9AC
$\overline{RQ16}$
4A1 / 16
RQ16
4A3 / 9
$\overline{WL15}$
WL15
4B8AC
$\overline{RQ15}$
4A3 / 2
RQ15
4A3 / 3
$\overline{WL14}$
WL14
4A9AC
$\overline{RQ14}$
4A1 / 14
RQ14
4A1 / 15
$\overline{WL13}$
WL13
4A8AC
$\overline{RQ13}$
4A3 / 12
RQ13
4A3 / 11
S MIN
$\overline{MOREQ}$
4B1 / 11
S MAX
$\overline{WL12}$
WL12
3B9AC
$\overline{RQ12}$
3A1 / 15
RQ12
3A1 / 14
$\overline{WL11}$
WL11
3B8AC
$\overline{RQ11}$
3A1 / 13
RQ11
3A1 / 12
$\overline{WL10}$
WL10
3A9AC
$\overline{RQ10}$
3A1 / 11
RQ10
3A2 / 15
$\overline{WL9}$
WL9
3A8AC
$\overline{RQ9}$
3A2 / 14
RQ9
3A1 / 10
S MIN
$\overline{MOREQ}$
3A3 / 19
S MAX
$\overline{WL8}$
WL8
2B9AC
$\overline{RQ8}$
2A1 / 11
RQ8
2A1 / 12
$\overline{WL7}$
WL7
2B8AC
$\overline{RQ7}$
2A3 / 7
RQ7
2A3 / 9
$\overline{WL6}$
WL6
2A9AC
$\overline{RQ6}$
2A3 / 10
RQ6
2A1 / 13
$\overline{WL5}$
WL5
2A8AC
$\overline{RQ5}$
2A1 / 14
RQ5
2A3 / 5
S MIN
$\overline{MOREQ}$
2A2 / 1
SMAX
$\overline{WL4}$
WL4
1B9AC
$\overline{RQ4}$
1A3 / 2
RQ4
1A3 / 3
$\overline{WL3}$
WL3
1B8AC
$\overline{RQ3}$
RQ3
1A3 / 1
$\overline{WL2}$
WL2
1A9AC
$\overline{RQ2}$
1A3 / 4
RQ2
$\overline{WL1}$
WL1
1A8AC
$\overline{RQ1}$
7
RQ1
1A3 / 5
SMIN
$\overline{MOREQ}$
1A2 / 14
SMAX
2 3 6 17 7 12 16 4 5 19 8 9 14 18

FOR INFORMATION
CLASS B RELEASE PER TDR

NOTES:

$$\overline{MOREQ} = \left[\overline{\left[(S1MO\ S2MO + S1SA + S2SA)\ SMO\ WQG + S\ REI1\ SRE\ RQAG\ \overline{RESPOA}\right]}\ Q2\right]$$

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPAC

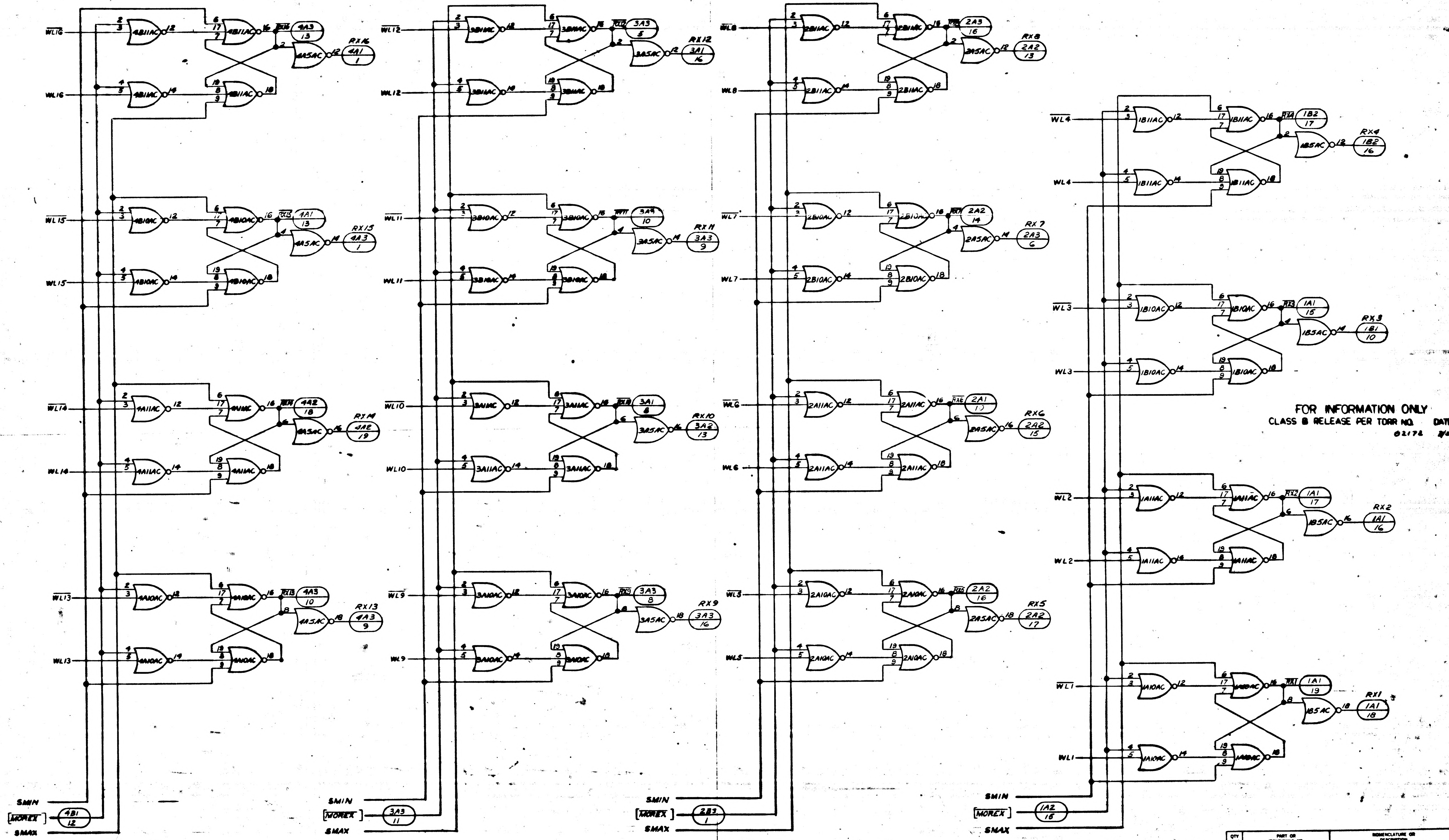
LOGIC
COMPUTER

CODE IDENT NO —
SIZE J
SCALE NONE

1014347

INCHES 1 2 PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R5435 DR CHK APPD		
B	CHANGED PER TDRR NO. 08888 DR. W. CHK. APPD.		



WL16
WL16
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WL15
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WL9
WL8
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WL1
WL1
RX16
RX15
RX14
RX13
RX12
RX11
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RX9
RX8
RX7
RX6
RX5
RX4
RX3
RX2
RX1
SMIN
MOREX
SMAX
4B1 12
3A3 11
2B3 1
1A2 16

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02172 DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014162	
1014161	
1014160	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
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FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

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LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RX REGISTER) LD1

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014348
SCALE NONE
WT
SHEET 1 OF 1

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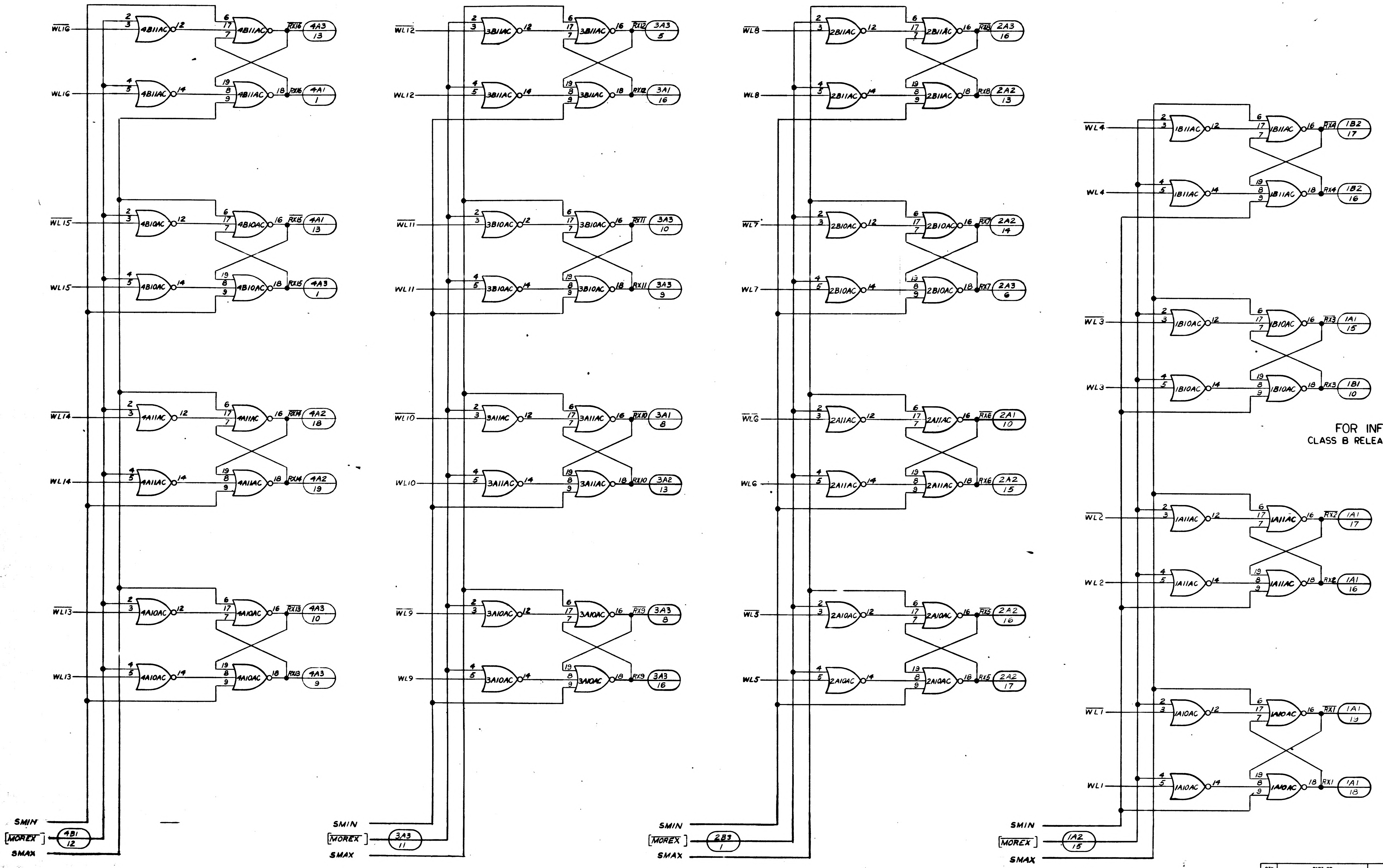
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
1 —	CL B RELEASED PER TDRR		



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WL16
$\overline{WL15}$
WL15
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WL14
$\overline{WL13}$
WL13
4B11AC
4B10AC
4A11AC
4A10AC
$\overline{RX16}$
RX16
$\overline{RX15}$
RX15
$\overline{RX14}$
RX14
$\overline{RX13}$
RX13
4A3 13
4A1 1
4A1 13
4A3 1
4A2 18
4A2 19
4A3 10
4A3 9
SMIN
[$\overline{MOREX}$]
4B1 12
SMAX
$\overline{WL12}$
WL12
$\overline{WL11}$
WL11
$\overline{WL10}$
WL10
$\overline{WL9}$
WL9
3B11AC
3B10AC
3A11AC
3A10AC
$\overline{RX12}$
RX12
$\overline{RX11}$
RX11
$\overline{RX10}$
RX10
$\overline{RX9}$
RX9
3A3 5
3A1 16
3A3 10
3A3 9
3A1 8
3A2 13
3A3 8
3A3 16
SMIN
[$\overline{MOREX}$]
3A3 11
SMAX
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WL8
$\overline{WL7}$
WL7
$\overline{WL6}$
WL6
$\overline{WL5}$
WL5
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2B10AC
2A11AC
2A10AC
$\overline{RX8}$
RX8
$\overline{RX7}$
RX7
$\overline{RX6}$
RX6
$\overline{RX5}$
RX5
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2A2 13
2A2 14
2A3 6
2A1 10
2A2 15
2A2 16
2A2 17
SMIN
[$\overline{MOREX}$]
2B3 1
SMAX
$\overline{WL4}$
WL4
$\overline{WL3}$
WL3
$\overline{WL2}$
WL2
$\overline{WL1}$
WL1
1B11AC
1B10AC
1A11AC
1A10AC
$\overline{RX4}$
RX4
$\overline{RX3}$
RX3
$\overline{RX2}$
RX2
$\overline{RX1}$
RX1
1B2 17
1B2 16
1A1 15
1B1 10
1A1 17
1A1 16
1A1 19
1A1 18
SMIN
[$\overline{MOREX}$]
1A2 15
SMAX

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02172 DATE 7/24/63

NOTE $[[\overline{MORE\ X}]] = [[\overline{(SMOS\ 2MO + S1SA + S2SA)\ SMO\ WXG + SREI\ 2\ SRE\ RXAG\ \overline{INREC}}]\ Q_e]$

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

1014156
NEXT ASSY | USED ON
APPLICATION

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RX REGISTER) LD1

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014348
SCALE NONE
WT
SHEET 1 OF 1

1014348

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

F-2

1014148

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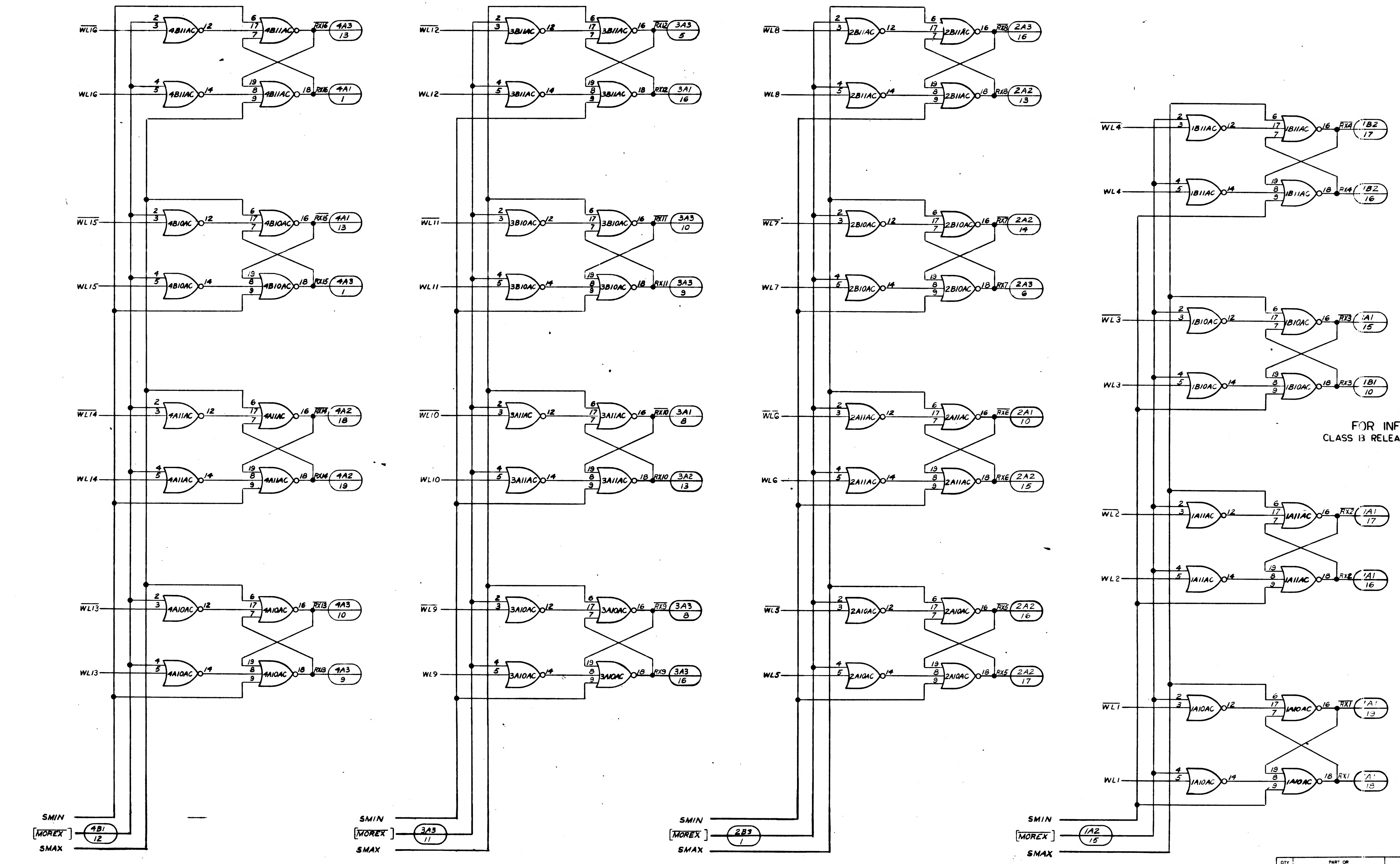
REVISIONS	
SYM	DESCRIPTION
1—	CL B REL[illegible]ASED PER TDRR



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FOR INFORMAT
CLASS B RELEASE PER

NOTE $[\overline{\text{MORE X}}] = [[\overline{(\text{SMOS } 2\text{MO} + \text{S1SA} + \text{S2SA})\ \text{SMO WXG} + \text{SREI2 SRE RXAG } \overline{\text{INREC}}}]\ \text{Q2}]$

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOM
LIST OF MATERIALS		

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE
CHECKED A.G. Cazzaniga 25
APPROVAL C. Spalding
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

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CODE IDENT NO —
SIZE J
SCALE NONE
WT

INCHES
PHOTOGRAPHIC SCALE ONLY

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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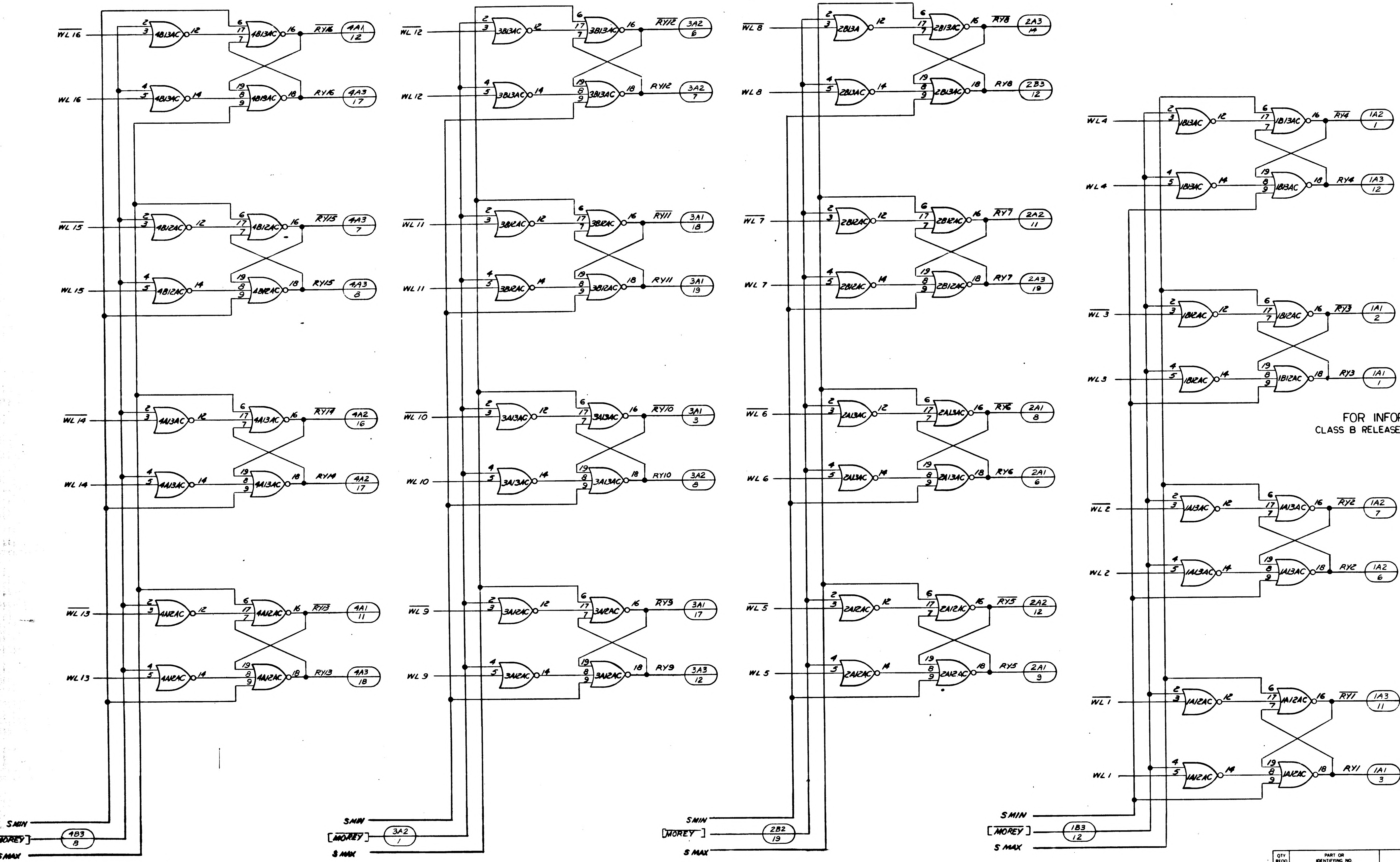

WL̄ 16
WL 16
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4A1 / 12
RY16
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WL̄ 15
WL 15
4B12AC
RY̅1̅5̅
4A3 / 7
RY15
4A3 / 8
WL̄ 14
WL 14
4A13AC
RY̅1̅4̅
4A2 / 16
RY14
4A2 / 17
WL̄ 13
WL 13
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RY13
4A3 / 18
SMIN
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3A2 / 6
RY12
3A2 / 7
WL̄ 11
WL 11
3B12AC
RY̅1̅1̅
3A1 / 18
RY11
3A1 / 19
WL̄ 10
WL 10
3A13AC
RY̅1̅0̅
3A1 / 3
RY10
3A2 / 8
WL̄ 9
WL 9
3A12AC
RY̅9̅
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RY9
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3A2 / 1
SMAX
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RY7
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2A13AC
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2A1 / 8
RY6
2A1 / 6
WL̄ 5
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2A12AC
RY̅5̅
2A2 / 12
RY5
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SMIN
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SMAX
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1A1 / 2
RY3
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CLASS B RELEASE PER TDRR NO. DATE
02172 7/24/63

NOTE:

$$[[\overline{MOREY}]] = [\overline{[(S1MO\ S2MO + S1SA + S2SA)\ SMO\ NYG + SRE12\ SRC\ RYAG\ \overline{INREC}]}\ Q2]$$

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
	1014156

APPLICATION

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CONTRACT NO NAS-9-496
DRAWN [illegible] DATE 6/25/63
CHECKED [illegible] 25 June 63
APPROVAL
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APPROVAL
NASA APPROV. [illegible] 7/1/63
MIT APPROVAL [illegible] 24 July 63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RY REGISTER) LDI

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014349
SCALE NONE
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SHEET 1 OF 1

1014349

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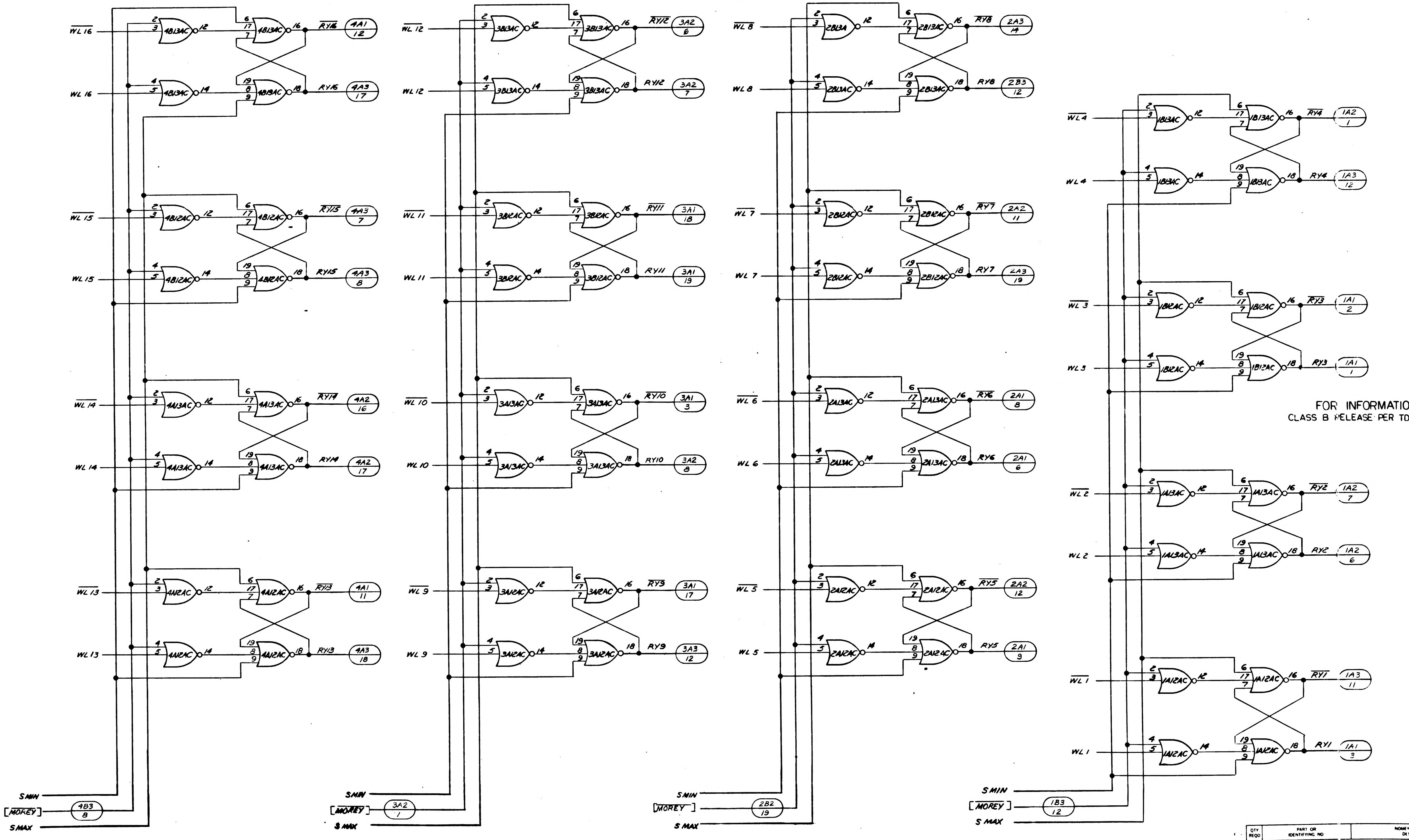
PHOTOGRAPHIC SCALE ONLY

F-2

SYM	REVISIONS DESCRIPTION
—	CL B RELEASED PER TDRR



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SMIN
[MOREY]
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FOR INFORMATIO
CLASS B RELEASE PER TD

NOTE:

$$[[\overline{MOREY}]] = [\overline{[(S1MO\,S2MO + S1SA + S2SA)\ SMO\ NYG + SRE12\ SRE\ RYAG\ \overline{INREC}]}\ Q2]$$

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

	1014156
NEXT ASSY	USED ON
APPLICATION	

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
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FINAL FINISH

QTY REQD	PART OR IDENTIFYING NO	NOME DES
LIST OF MATERIALS		

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO NAS-9-495
DRAWN DATE
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CODE IDENT NO —
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SCALE NONE
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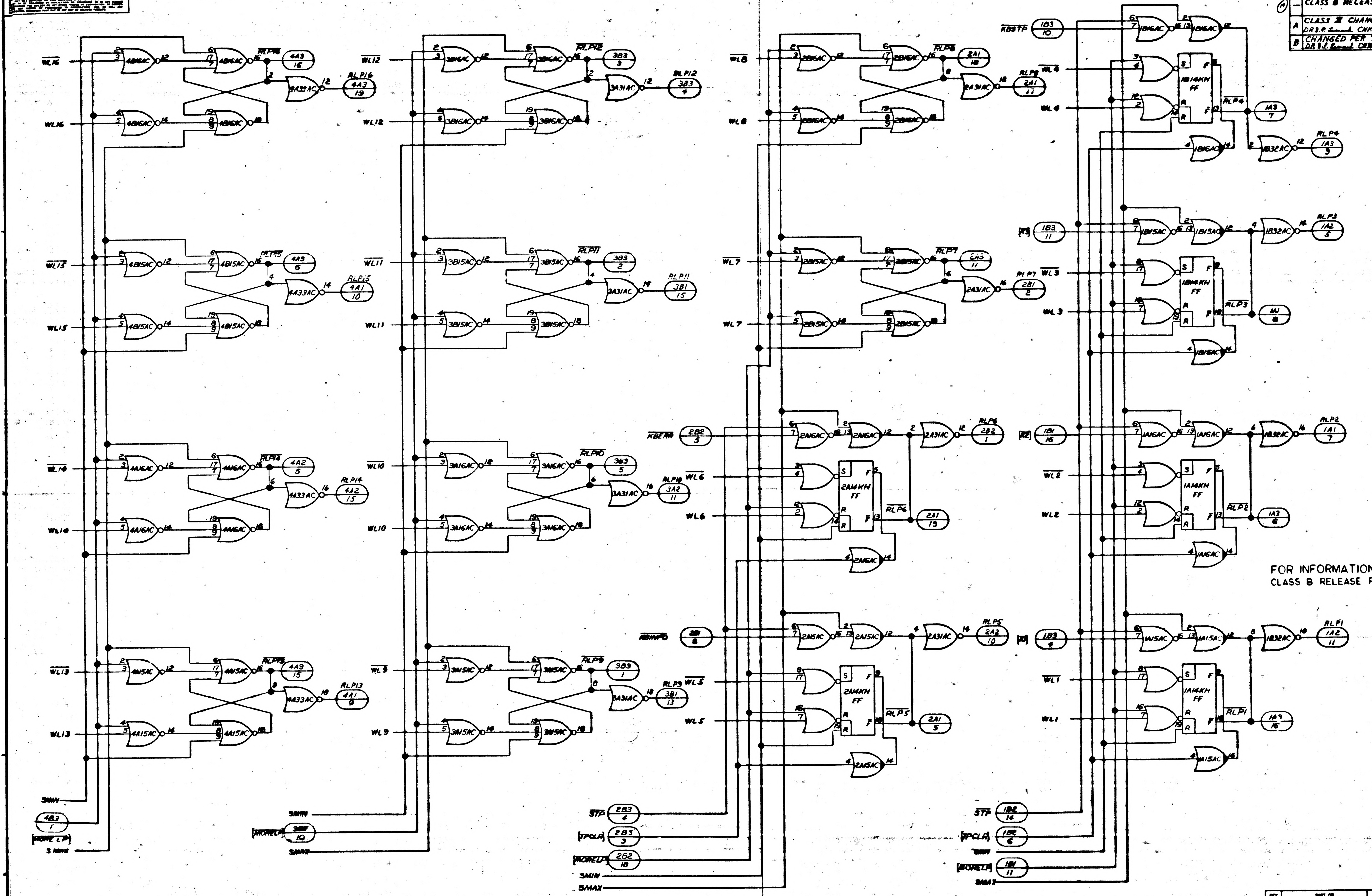
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASE PER TDRR		
A	CLASS II CHANGE PER RD-R5433 DR J.P. Seward CHK [illegible] APPD [illegible]	[illegible]	[illegible]
B	CHANGED PER TDRR NO. 08823 DR J.L. Seward CHK [illegible] APPD [illegible]	[illegible]	[illegible]



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LIST OF MATERIALS

NEXT ASSY	USED ON
1014162	
1014161	
1014160	1014156

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LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN [illegible] DATE [illegible]
CHECKED [illegible] 63
APPROVAL C.S. [illegible]
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RLP REGISTER) LDI

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014350
SCALE NONE
WT
SHEET 1 OF 1

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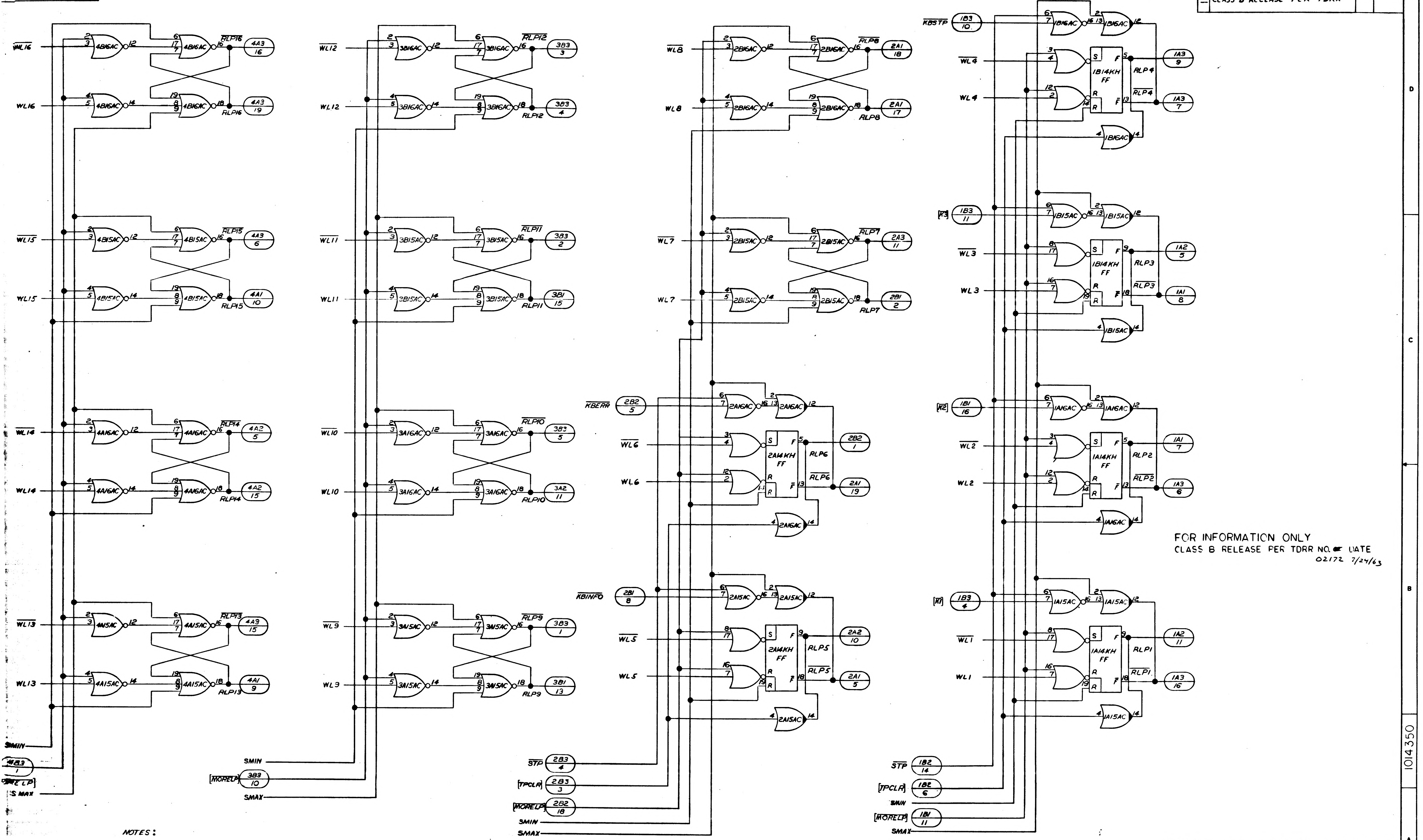

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CLASS B RELEASE PER TDRR NO. & DATE
02172 7/24/63

NOTES:

$[\overline{MORELP}] = [\overline{(S1MOS2MO + S1SA + S2SA)\ SMO\ WLPG + SREI2\ SRE\ RLPAG}]$

$[TPCLR] = [STP\ TSK3B\ \overline{TSK1B}\ \overline{TSK0B}]$

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON

APPLICATION

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LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN L. Judge DATE 6/26/63
CHECKED D. G. [illegible] 25 [illegible] 63
APPROVAL C S [illegible]
APPROVAL [illegible]
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NASA APPROVAL [illegible] 7/[illegible]/63
MIT APPROVAL [illegible] 24 [illegible] 63
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RLP REGISTER) LDI

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014350
SCALE NONE WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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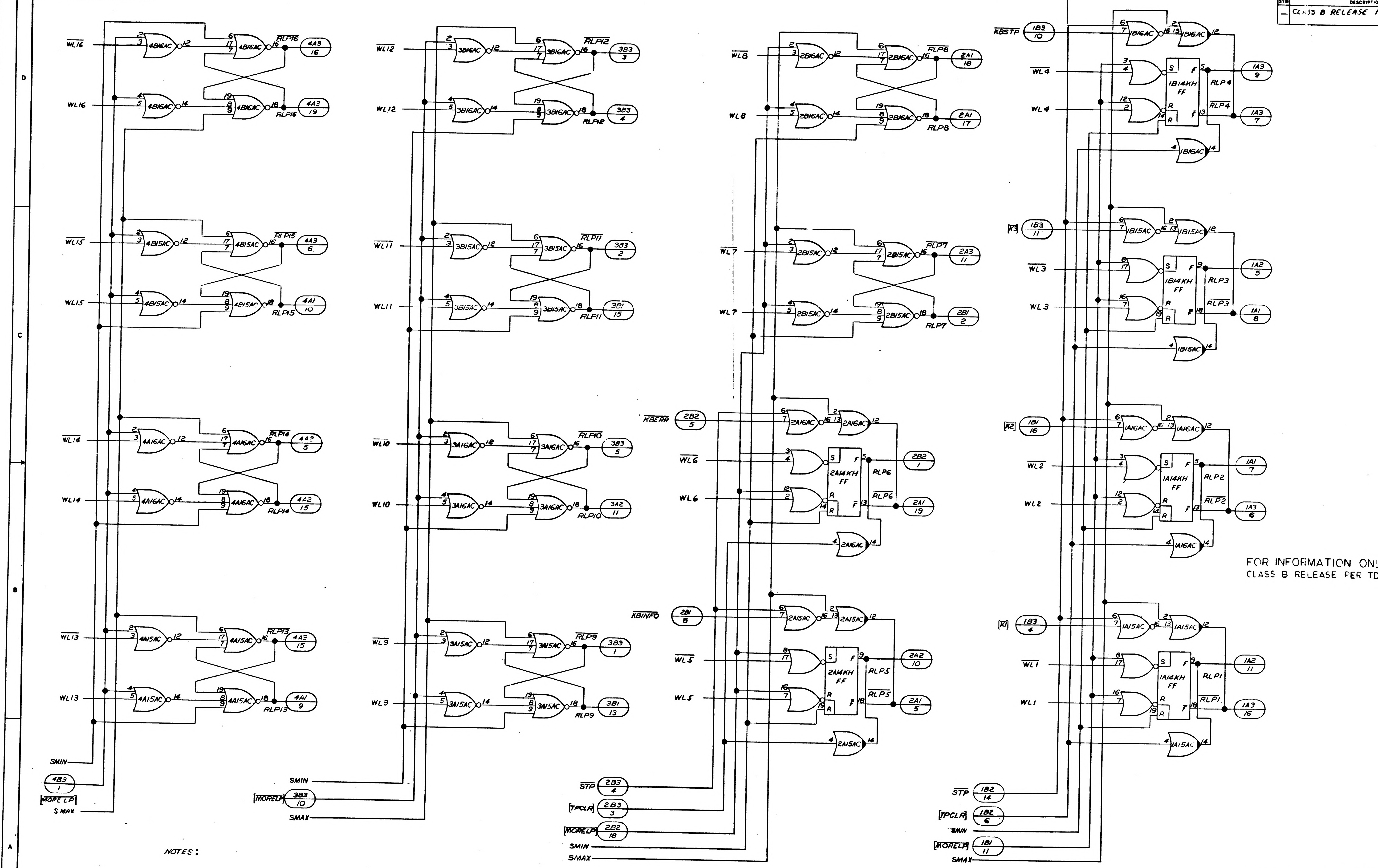
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$\overline{\text{WL11}}$
WL11
3B15AC
$\overline{\text{RLP11}}$
RLP11
3B3 2
3B1 15
$\overline{\text{WL10}}$
WL10
3A16AC
$\overline{\text{RLP10}}$
RLP10
3B3 5
3A2 11
$\overline{\text{WL9}}$
WL9
3A15AC
$\overline{\text{RLP9}}$
RLP9
3B3 1
3B1 13
SMIN
[MORELP] 3B3 10
SMAX
$\overline{\text{WL8}}$
WL8
2B16AC
$\overline{\text{RLP8}}$
RLP8
2A1 18
2A1 17
$\overline{\text{WL7}}$
WL7
2B15AC
$\overline{\text{RLP7}}$
RLP7
2A3 11
2B1 2
$\overline{\text{KBERR}}$ 2B2 5
2A16AC
$\overline{\text{WL6}}$
WL6
2A14KH FF
S F R $\overline{\text{F}}$
RLP6
$\overline{\text{RLP6}}$
2B2 1
2A1 19
$\overline{\text{KBINFO}}$ 2B1 8
2A15AC
$\overline{\text{WL5}}$
WL5
2A14KH FF
RLP5
$\overline{\text{RLP5}}$
2A2 10
2A1 5
$\overline{\text{STP}}$ 2B3 4
[TPCLR] 2B3 3
[MORELP] 2B2 18
SMIN
SMAX
$\overline{\text{KBSTP}}$ 1B3 10
1B16AC
$\overline{\text{WL4}}$
WL4
1B14KH FF
RLP4
$\overline{\text{RLP4}}$
1A3 9
1A3 7
[K3] 1B3 11
1B15AC
$\overline{\text{WL3}}$
WL3
1B14KH FF
RLP3
$\overline{\text{RLP3}}$
1A2 5
1A1 8
[K2] 1B1 16
1A16AC
$\overline{\text{WL2}}$
WL2
1A14KH FF
RLP2
$\overline{\text{RLP2}}$
1A1 7
1A3 6
[K1] 1B3 4
1A15AC
$\overline{\text{WL1}}$
WL1
1A14KH FF
RLP1
$\overline{\text{RLP1}}$
1A2 11
1A3 16
$\overline{\text{STP}}$ 1B2 14
[TPCLR] 1B2 6
SMIN
[MORELP] 1B1 11
SMAX

FOR INFORMATION ONLY
CLASS B RELEASE PER TD

NOTES:

$[\overline{\text{MORELP}}] = [\overline{\text{(S1MOS2MO+S1SA+S2SA) SM0 WLPG +SREI2 SRE RLPAG}}]$

$[\text{TPCLR}] = [\text{STP TSK 3B } \overline{\text{TSK1B}}\ \overline{\text{TSK0B}}]$

QTY RLQD	PART OR IDENTIFYING N

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
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FINAL FINISH

RAYTHEON CO
LEXINGTON, MASS
CONTRACT NO NAS-9-4?8
DRAWN
DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
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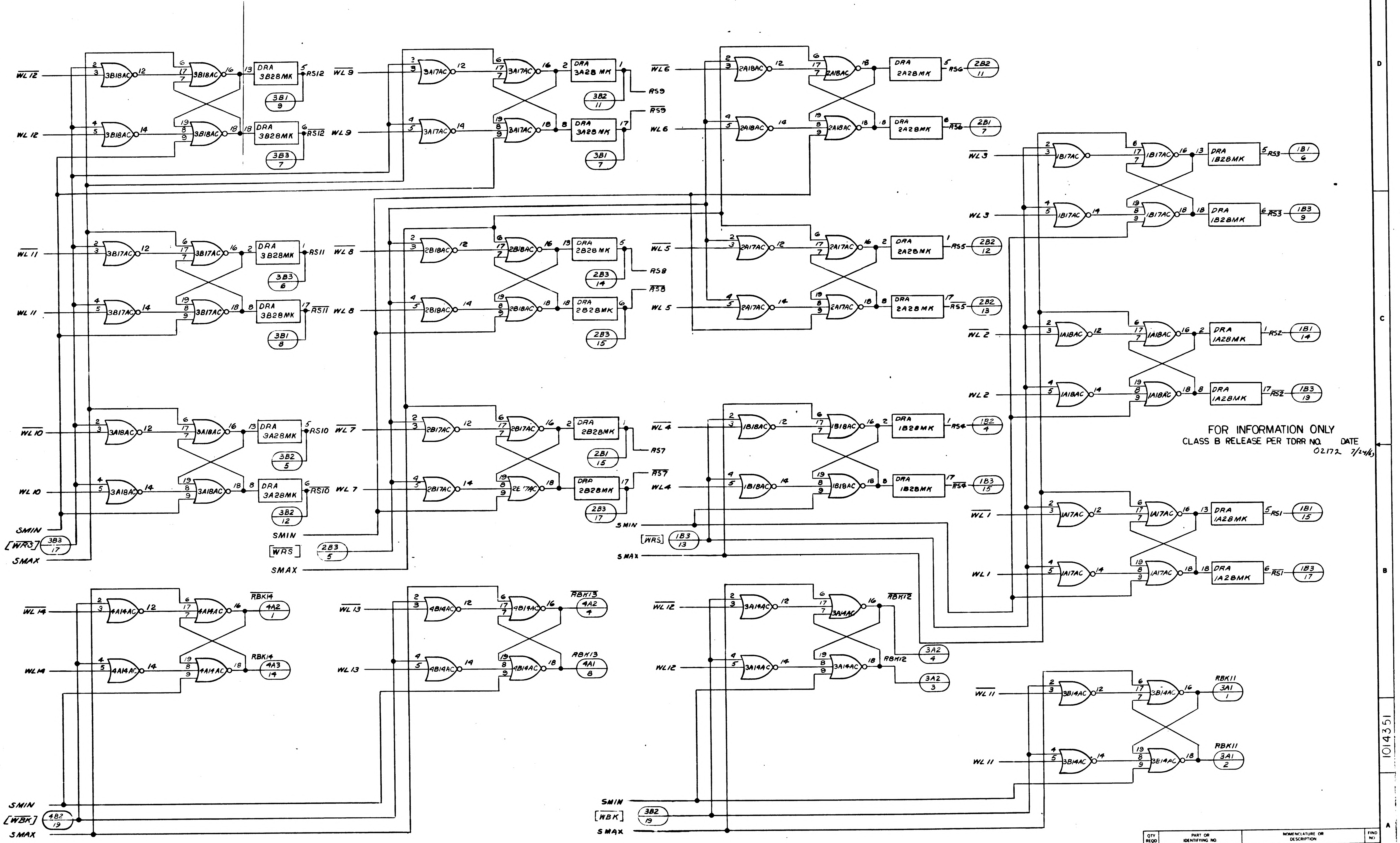

WL 12
3B18AC
DRA 3B28MK
RS12
3B1 9
3B3 7
WL 9
3A17AC
DRA 3A28MK
RS9
3B2 11
3B1 7
WL 6
2A18AC
DRA 2A28MK
RS6
2B2 11
2B1 7
WL 3
1B17AC
DRA 1B28MK
RS3
1B1 6
1B3 9
WL 11
3B17AC
DRA 3B28MK
RS11
3B3 6
3B1 8
WL 8
2B18AC
DRA 2B28MK
RS8
2B3 14
2B3 15
WL 5
2A17AC
DRA 2A28MK
RS5
2B2 12
2B2 13
WL 2
1A18AC
DRA 1A28MK
RS2
1B1 14
1B3 19
WL 10
3A18AC
DRA 3A28MK
RS10
3B2 5
3B2 12
WL 7
2B17AC
DRA 2B28MK
RS7
2B1 15
2B3 17
WL 4
1B18AC
DRA 1B28MK
RS4
1B2 4
1B3 15
WL 1
1A17AC
DRA 1A28MK
RS1
1B1 15
1B3 17
SMIN
[WRS]
3B3 17
SMAX
2B3 5
1B3 13
WL 14
4A14AC
RBK14
4A2 1
4A3 14
WL 13
4B14AC
RBK13
4A2 4
4A1 8
3A14AC
RBK12
3A2 4
3A2 3
WL 11
3B14AC
RBK11
3A1 1
3A1 2
[WBK]
4B2 19
3B2 19

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NOTE:
[WBK] = [WBKG Q2]
[WRS] = [WSG Q2]

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN L. Judge DATE 6/25/63
CHECKED C.G. Cazzaa 25 Jul 63
APPROVAL C. Schlumpf
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RS & RBK REGISTER) LDI

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014351
SCALE NONE
WT
SHEET 1 OF 1

1014351

F-2

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SYM	DESCRIPTION
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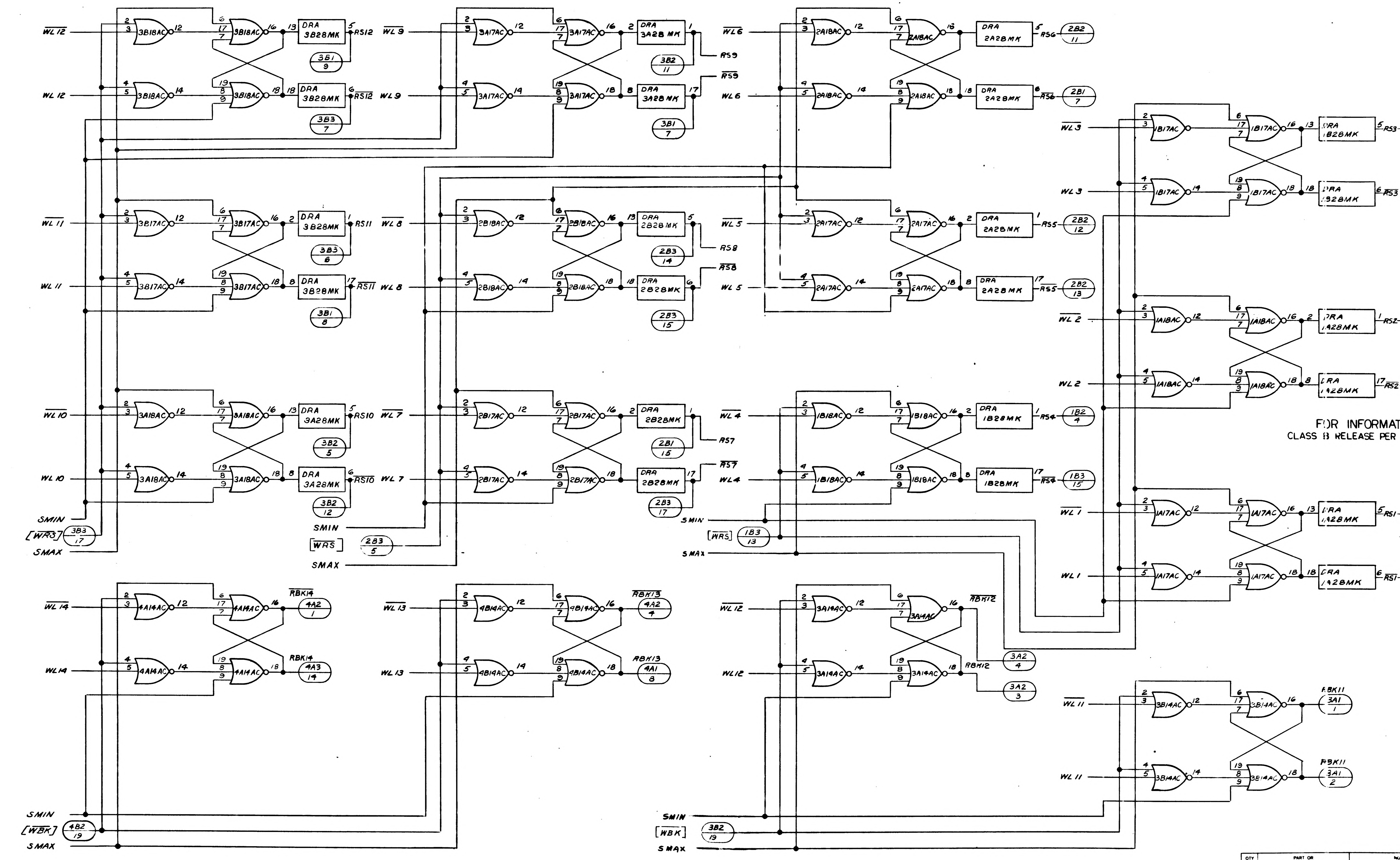

$\overline{WL\,12}$
3B18AC
DRA 3B28MK
$\overline{RS12}$
3B1 9
WL 12
3B3 7
RS12
WL 9
$\overline{WL\,9}$
3A17AC
DRA 3A28MK
3B2 11
RS9
$\overline{RS9}$
3B1 7
$\overline{WL6}$
WL 6
2A18AC
DRA 2A28MK
$\overline{RS6}$
RS6
2B2 11
2B1 7
$\overline{WL\,3}$
WL 3
1B17AC
DRA 1B28MK
RS3
$\overline{RS3}$
$\overline{WL\,11}$
WL 11
3B17AC
DRA 3B28MK
RS11
$\overline{RS11}$
3B3 6
3B1 8
$\overline{WL\,8}$
WL 8
2B18AC
DRA 2B28MK
2B3 14
RS8
$\overline{RS8}$
2B3 15
$\overline{WL\,5}$
WL 5
2A17AC
DRA 2A28MK
RS5
$\overline{RS5}$
2B2 12
2B2 13
$\overline{WL\,2}$
WL 2
1A18AC
DRA 1A28MK
RS2
$\overline{RS2}$
$\overline{WL\,10}$
WL 10
3A18AC
DRA 3A28MK
RS10
$\overline{RS10}$
3B2 5
3B2 12
$\overline{WL\,7}$
WL 7
2B17AC
DRA 2B28MK
2B1 15
RS7
$\overline{RS7}$
2B3 17
$\overline{WL\,4}$
WL4
1B18AC
DRA 1B28MK
RS4
$\overline{RS4}$
1B2 4
1B3 15
$\overline{WL\,1}$
WL 1
1A17AC
DRA 1A28MK
RS1
$\overline{RS1}$
SMIN
[WRS] 3B3 17
SMAX
SMIN
[WRS] 2B3 5
SMAX
SMIN
[WRS] 1B3 13
SMAX
$\overline{WL\,14}$
WL14
4A14AC
$\overline{RBK14}$ 4A2 1
RBK14 4A3 14
$\overline{WL\,13}$
WL 13
4B14AC
$\overline{RBK13}$ 4A2 4
RBK13 4A1 8
$\overline{WL\,12}$
WL12
3A14AC
$\overline{RBK12}$
RBK12
3A2 4
3A2 3
$\overline{WL\,11}$
WL 11
3B14AC
$\overline{RBK11}$ 3A1 1
RBK11 3A1 2
SMIN
[WBK] 4B2 19
SMAX
SMIN
[WBK] 3B2 19
SMAX

FOR INFORMAT
CLASS B RELEASE PER

NOTE:
[$\overline{WBK}$] = [$\overline{WBKG\ Q2}$]
[$\overline{WRS}$] = [$\overline{WSG\ Q2}$]

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
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RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO NAS-9-498
DRAWN P. Judge DATE 6/25/
CHECKED
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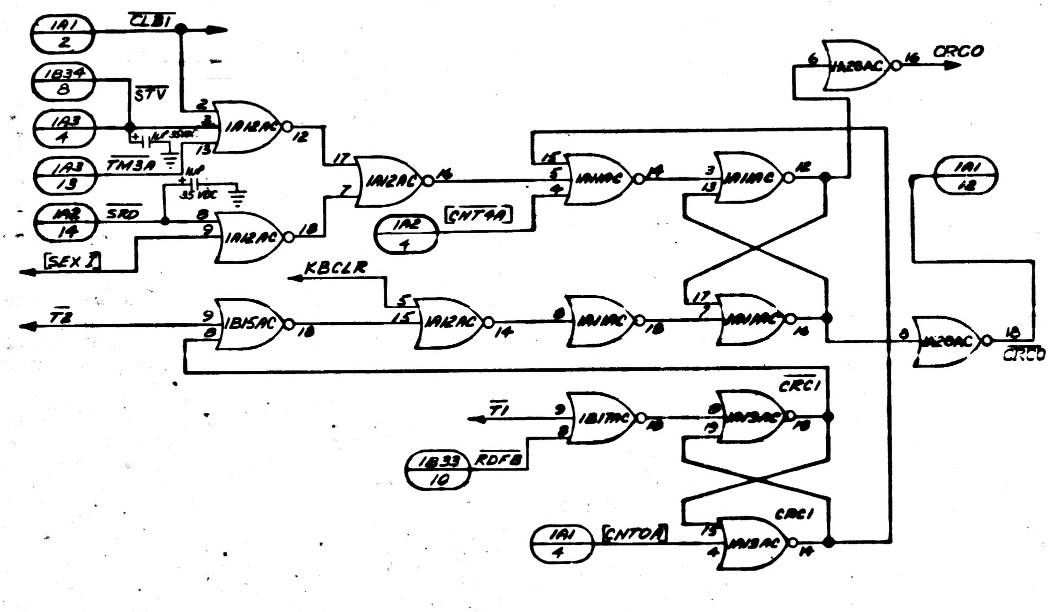
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED S
LOG
COMPUT
(RS & RBK

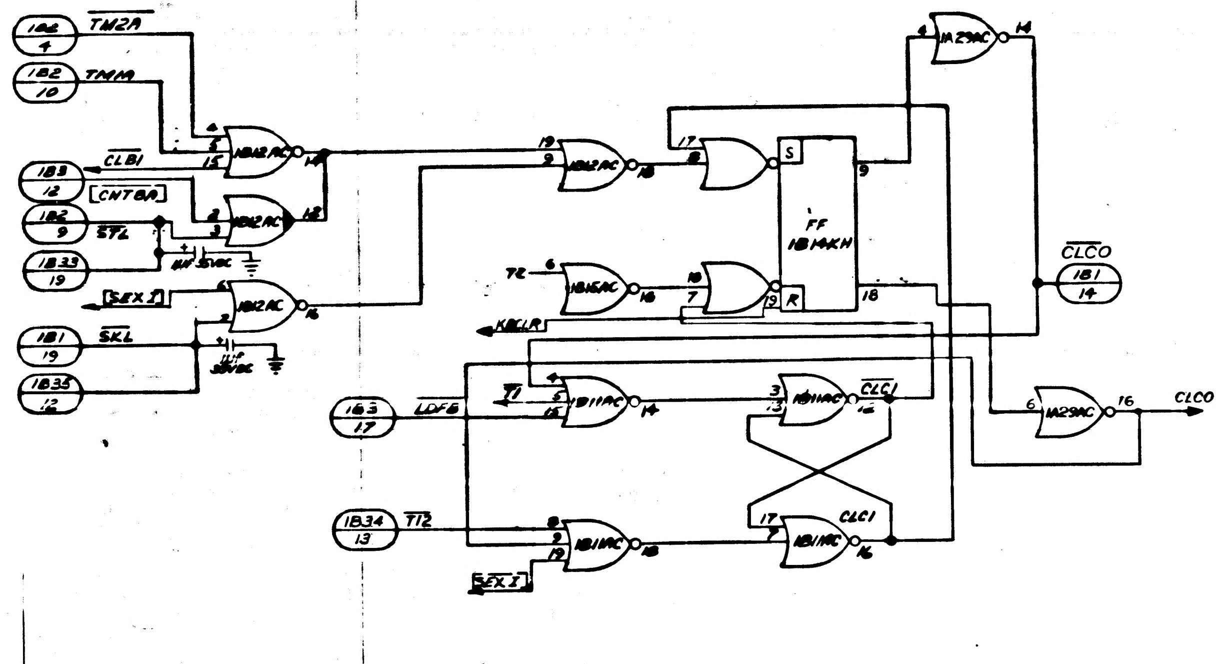
CODE IDENT NO —
SIZE J
SCALE NONE

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 02317		
A	CLASS II CHANGE PER RD-R 5559 DR R.F. CHK W. APPD	26 DEC 63	
B	CHANGED PER TDRR 08419 DR F. CHK G. APP	64	KCB



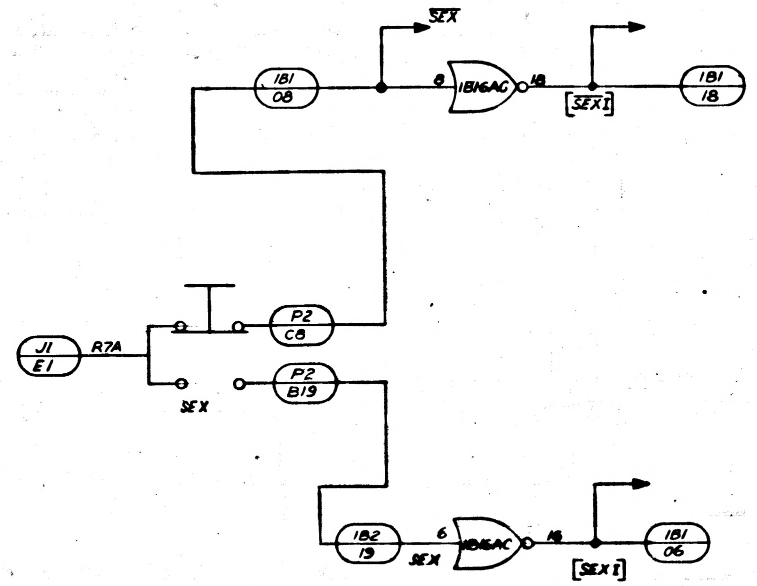
1A1 2
CLB1
1B34 8
STV
1A3 4
1A3 13
TM3A
1A2 14
SRD
SEX I
1uf 35VDC
1A12AC
1A12AC
1A12AC
1A2 4
CNT4A
1A11AC
1A11AC
1A11AC
1A11AC
KBCLR
T2
1B15AC
1A12AC
1A28AC
CRCO
1A1 12
1A28AC
CRCO
T1
1B17AC
1B33 10
RDFB
1A13AC
CRC1
1A1 4
CNTOA
1A13AC
CRC1

AGC READ CONTROL

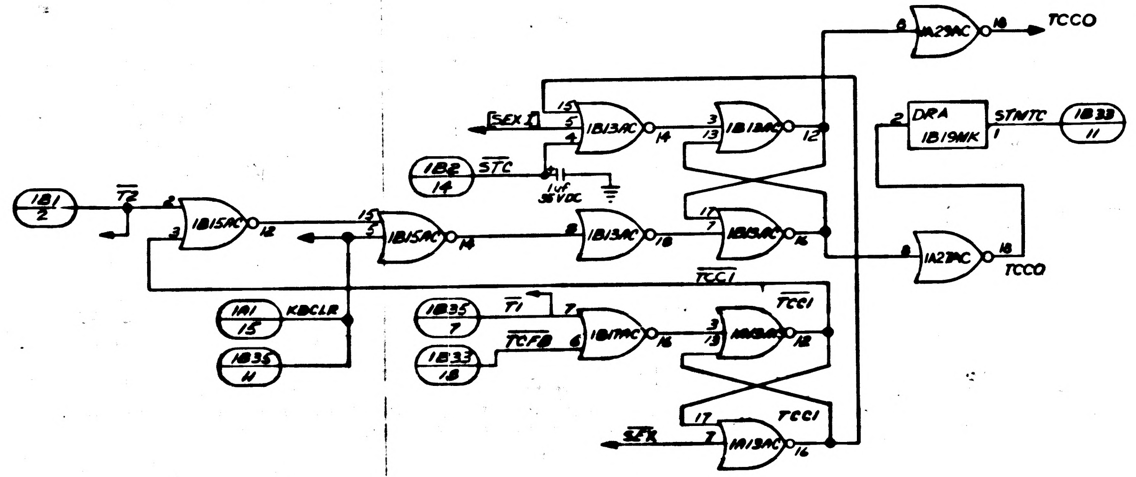


1B2 4
TM2A
1B2 10
TMM
1B3 12
CLB1
CNT8A
1B2 9
STL
1B33 19
1uf 35VDC
SEX I
1B1 19
SKL
1B35 12
1B12AC
1B12AC
1B12AC
1B12AC
FF
1B14KH
S
R
1A29AC
T2
1B16AC
KBCLR
CLCO
1B1 14
1B3 17
LDFB
T1
1B11AC
1B11AC
CLC1
1B34 13
T12
1B11AC
1B11AC
CLC1
SEX I
1A29AC
CLCO

AGC LOAD



SEX
1B1 08
1B16AC
SEX I
1B1 18
J1 E1
R7A
P2 C8
P2 B19
SEX
1B2 19
SEX
1B16AC
SEX I
1B1 06



1A29AC
TCCO
SEX I
1B13AC
1B13AC
DRA
1B19NK
STNTC
1B33 11
1B2 14
STC
1uf 35VDC
1B1 2
T2
1B15AC
1B15AC
1B13AC
1B13AC
1A27AC
TCCO
TCC1
1A1 15
KBCLR
1B35 11
1B35 7
T1
1B33 18
TCFB
1B17AC
1A13AC
TCC1
SEX
1A13AC
TCC1

TCSA CONTROL

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CLASS B RELEASE PER TDRR NO. 02317 DATE 7/31/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION

LIST OF MATERIALS

NEXT ASSY	USED ON
1014306	1014156

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LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
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NASA APPROVAL
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HOUSTON, TEXAS

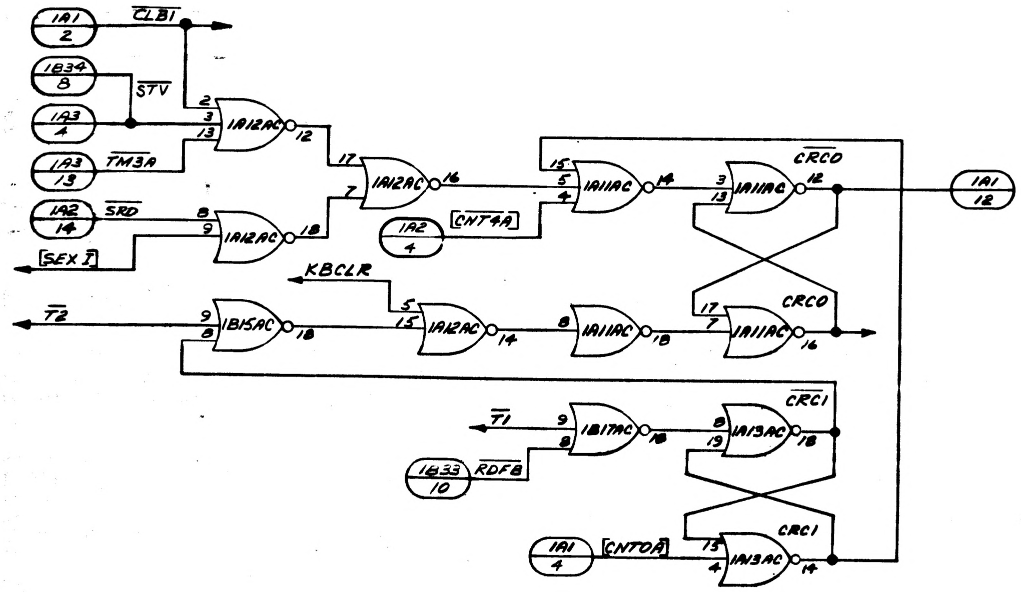
LOGIC DIAGRAM
COMPUTER TEST SET
(LOAD READ TC) PLM EXECUTE

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014352
SCALE NONE
WT
SHEET 1 OF 1

1014352

5 4 3 2 1

SYM	DESCRIPTION	DATE	APPROVED
REVISIONS			
—	CLASS B RELEASED PER TDRR 02317	7/31/63	



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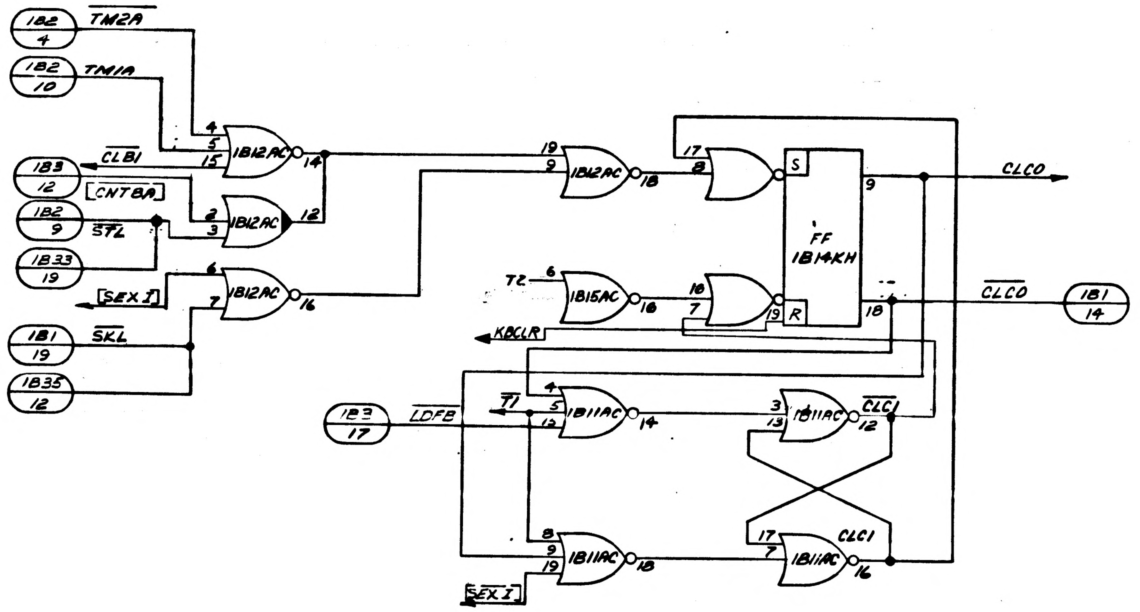
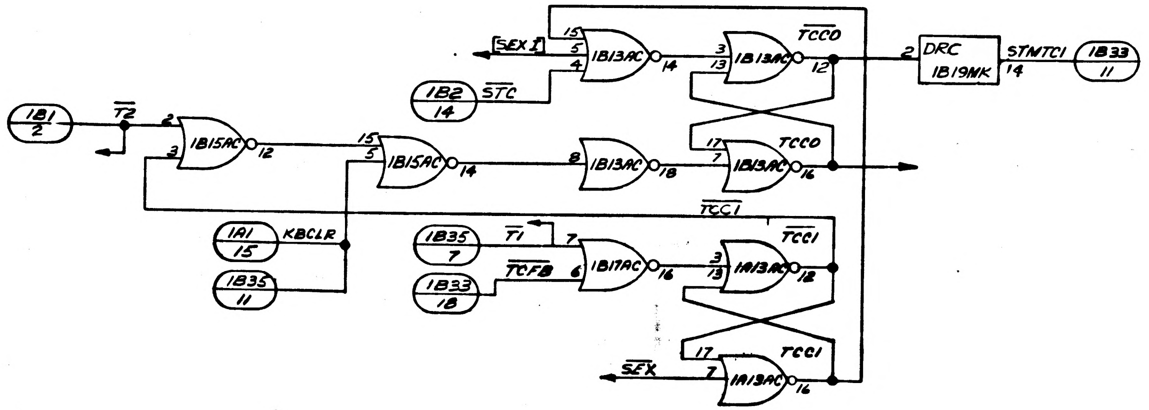
1B34 8
STV
1A3 4
1A3 13
TM3A
1A2 14
SRD
SEX I
1A12AC
1A11AC
1A2 4
CNT4A
CRCO
1A1 12
KBCLR
T2
1B15AC
CRCO
T1
1B17AC
1A13AC
CRCI
1B33 10
RDFB
1A1 4
CNT0A

AGC READ CONTROL



1B2 4
TM2A
1B2 10
TM1A
1B3 12
CLBI
CNT8A
1B2 9
STL
1B33 19
SEX I
1B1 19
SKL
1B35 12
1B12AC
T2
1B15AC
FF
1B14KH
S
R
CLCO
CLCO
1B1 14
KBCLR
1B3 17
LDFB
T1
1B11AC
CLCI
CLCI
SEX I

AGC LOAD



SEX I
1B13AC
TCCO
DRC
1B19NK
STMTCI
1B33 11
1B2 14
STC
1B1 2
T2
1B15AC
TCCO
TCCI
1A1 15
KBCLR
1B35 11
1B35 7
T1
TCFB
1B33 18
1B17AC
1A13AC
TCCI
SEX
TCCI

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QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

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RAYTHEON CO.
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CONTRACT NO NAS-9-498
DRAWN D.O. Clement DATE 6-19-63
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APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 7-31-63
MIT APPROVAL

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HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(LOAD, READ, TC) P&M

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014352
SCALE NONE
WT
SHEET 1 OF 1

1014352

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INCHES
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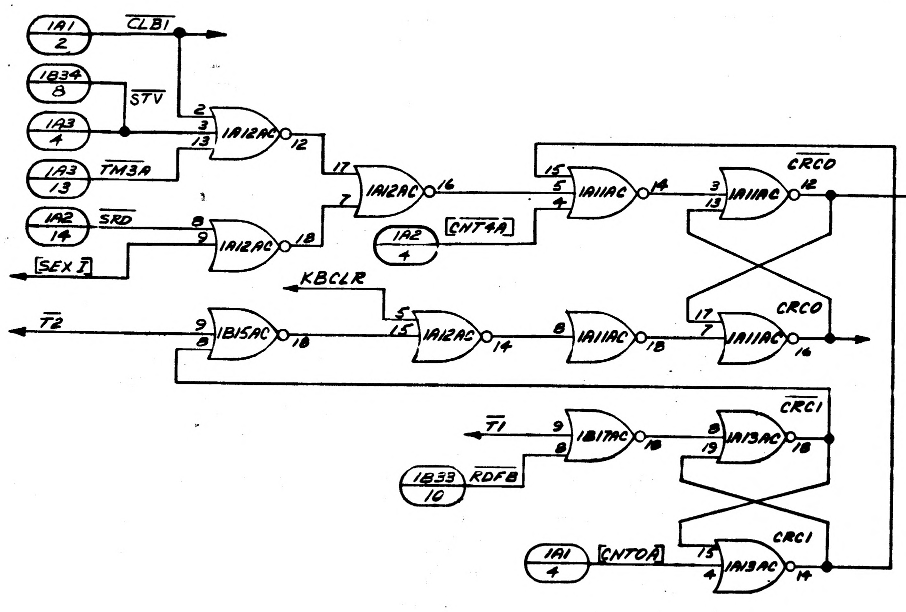
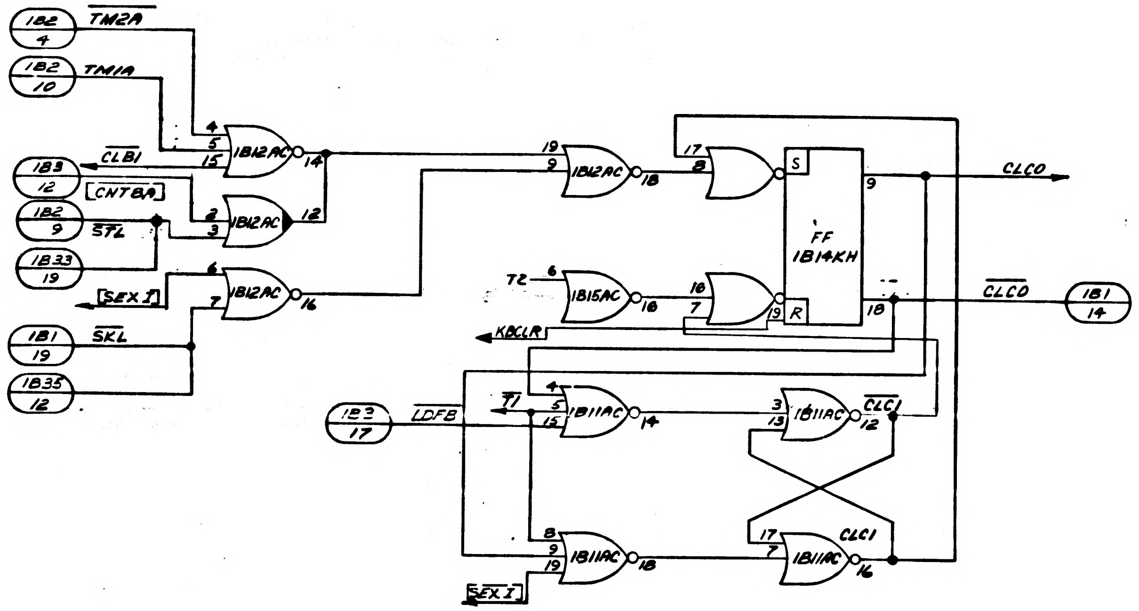
E-2

SYM	REVISIONS DESCRIPTION
—	CLASS B RELEASED PER TDRR



1A1 2
CLBI
1B34 8
STV
1A3 4
1A3 13
TM3A
1A2 14
SRD
SEX I
1A12AC
1A12AC
1A12AC
1A2 4
CNT4A
1A11AC
1A11AC
CRCO
1A1 12
KBCLR
T2
1B15AC
1A12AC
1A11AC
1A11AC
CRCO
T1
1B17AC
1A13AC
CRC1
1B33 10
RDFB
1A1 4
CNTOA
1A13AC
CRC1

AGC READ CONTROL



1B2 4
TM2A
1B2 10
TM1A
1B3 12
CLBI
CNTBA
1B2 9
STL
1B33 19
SEX I
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SKL
1B35 12
1B12AC
1B12AC
1B12AC
1B12AC
FF
1B14KH
S
R
CLCO
CLCO
1B1 14
T2
1B15AC
KBCLR
1B3 17
LDFB
T1
1B11AC
1B11AC
CLC1
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CLC1
SEX I

AGC LOAD

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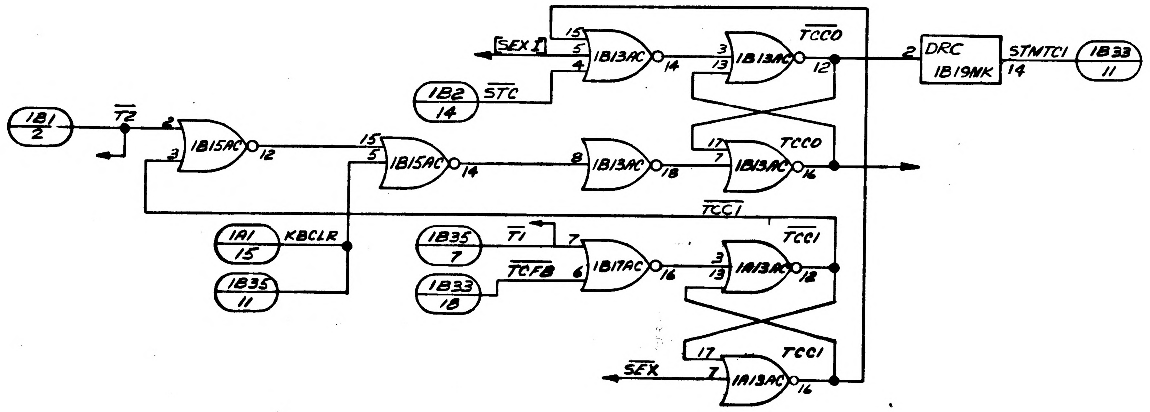
CLASS B RELEASE PER TDRR NO. 02317 DATE 7/31/63



SEX I
1B13AC
1B13AC
TCCO
DRC
1B19NK
STNTC1
1B33 11
1B2 14
STC
1B1 2
T2
1B15AC
1B15AC
1B13AC
1B13AC
TCCO
TCC1
1A1 15
KBCLR
1B35 11
1B35 7
T1
1B33 18
TCFB
1B17AC
1A13AC
TCC1
SEX
1A13AC
TCC1

TCSA CONTROL

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE DESC

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

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RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO NAS-9-498
DRAWN D.A. Chapman DATE
CHECKED E.G. Cygnovas
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL W.J. Elms 7-31-63
MIT APPROVL
MIT APPROVAL

MANNED SPACEC
HOUSTON

LOGIC D
COMPUTER
(LOAD,

CODE IDENT NO —
SIZE J
1014352
SCALE NONE
WT

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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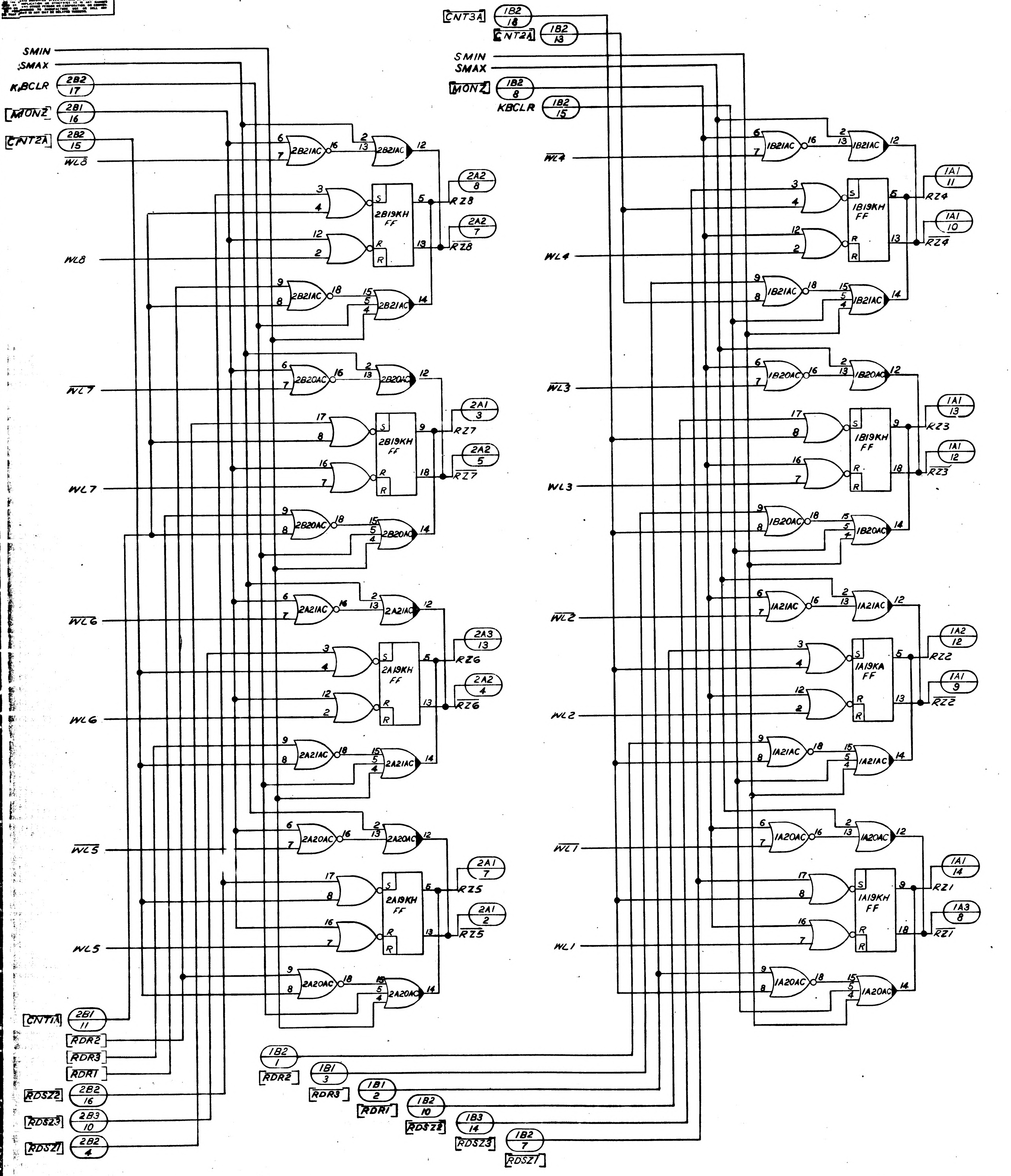


SMIN
SMAX
KBCLR 2B2/17
[MONZ] 2B1/16
[CNT2A] 2B2/15
WL8
2B21AC
2B19KH FF
RZ8 2A2/8
RZ8 2A2/7
WL7
2B20AC
2B19KH FF
RZ7 2A1/3
RZ7 2A2/5
WL6
2A21AC
2A19KH FF
RZ6 2A3/13
RZ6 2A2/4
WL5
2A20AC
2A19KH FF
RZ5 2A1/7
RZ5 2A1/2
[CNT1A] 2B1/11
[RDR2]
[RDR3]
[RDR1]
[RDSZ2] 2B2/16
[RDSZ3] 2B3/10
[RDSZ1] 2B2/4
[CNT3A] 1B2/18
[CNT2A] 1B2/13
SMIN
SMAX
[MONZ] 1B2/8
KBCLR 1B2/15
WL4
1B21AC
1B19KH FF
RZ4 1A1/11
RZ4 1A1/10
WL3
1B20AC
1B19KH FF
RZ3 1A1/13
RZ3 1A1/12
WL2
1A21AC
1A19KA FF
RZ2 1A2/12
RZ2 1A1/9
WL1
1A20AC
1A19KH FF
RZ1 1A1/14
RZ1 1A3/8
1B2/1 [RDR2]
1B1/3 [RDR3]
1B1/2 [RDR1]
1B2/10 [RDSZ2]
1B3/14 [RDSZ3]
1B2/7 [RDSZ1]

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02172 DATE 7/24/63

NOTE:
$[\overline{MONZ}] = [\overline{(S1SA + S2SA + S1MOS2MO)\ SMO\ Q2\ WZG}]$

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED A.G. 25 June 63
APPROVAL C S
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 24 Jul 63
MIT APPROVAL

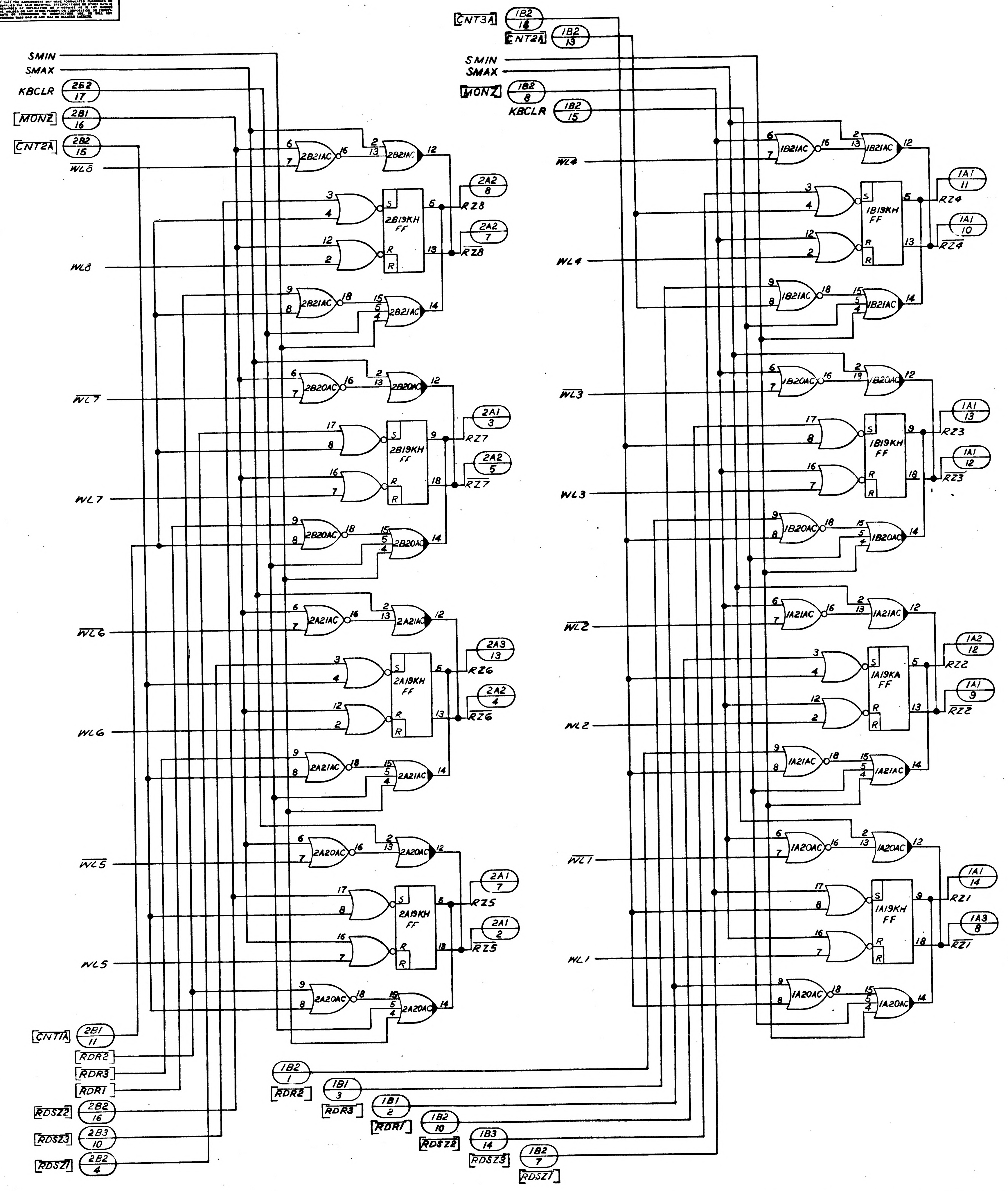
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RZ REGISTER) LDI

CODE IDENT NO —— SIZE J NASA DRAWING NO. 1014353
SCALE NONE WT SHEET 1 OF 2

1014353

SYM	DESCRIPTION
—	CLASS B RELEASE PER TDRR



SMIN
SMAX
KBCLR 2B2 17
[MONZ] 2B1 16
[CNT2A] 2B2 15
WL8
2B21AC
2B19KH FF
RZ8 2A2 8
RZ8 2A2 7
WL7
2B20AC
2B19KH FF
RZ7 2A1 3
RZ7 2A2 5
WL6
2A21AC
2A19KH FF
RZ6 2A3 13
RZ6 2A2 4
WL5
2A20AC
2A19KH FF
RZ5 2A1 7
RZ5 2A1 2
[CNT1A] 2B1 11
[RDR2]
[RDR3]
[RDR1]
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[RDSZ3] 2B3 10
[RDSZ1] 2B2 4
[CNT3A] 1B2 18
[CNT2A] 1B2 13
SMIN
SMAX
[MONZ] 1B2 8
KBCLR 1B2 15
WL4
1B21AC
1B19KH FF
RZ4 1A1 11
RZ4 1A1 10
WL3
1B20AC
1B19KH FF
RZ3 1A1 13
RZ3 1A1 12
WL2
1A21AC
1A19KA FF
RZ2 1A2 12
RZ2 1A1 9
WL1
1A20AC
1A19KH FF
RZ1 1A1 14
RZ1 1A3 8
1B2 1 [RDR2]
1B1 3 [RDR3]
1B1 2 [RDR1]
1B2 10 [RDSZ2]
1B3 14 [RDSZ3]
1B2 7 [RDSZ1]

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02172 DATE 7/24/63

NOTE:
$[\overline{MONZ}] = [\overline{(S1SA + S2SA + S1MOS2MO)\ SMO\ Q2\ WZG}]$

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

QTY REQD	PART OR IDENTIFYING NO

LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE [illegible]
CHECKED A.G. [illegible]
APPROVAL C S [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 24 [illegible]
MIT APPROVAL [illegible]

MANNED SP

LOGIC
COMPUTE

CODE IDENT NO —
SIZE J
SCALE NONE

INCHES
PHOTOGRAPHIC SCALE ONLY

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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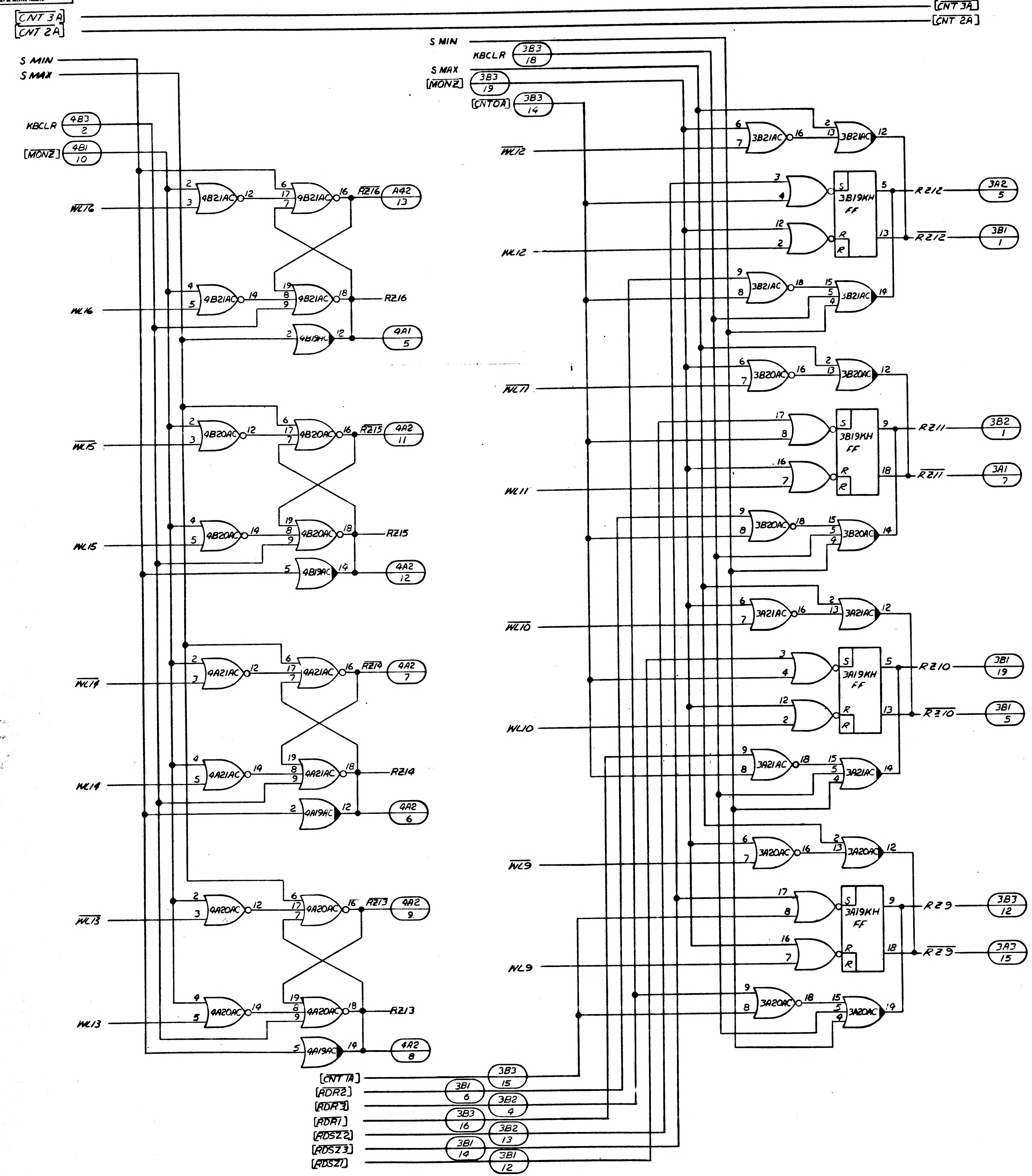
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CNT 2A
S MIN
S MAX
KBCLR 4B3/2
MONZ 4B1/10
WL16
4B21AC
RZ16 A42/13
RZ16
4B19HC 4A1/5
WL15
4B20AC
RZ15 4A2/11
RZ15
4B19AC 4A2/12
WL14
4A21AC
RZ14 4A2/7
RZ14
4A19AC 4A2/6
WL13
4A20AC
RZ13 4A2/9
RZ13
4A19AC 4A2/8
CNT 1A 3B3/15
RDR2 3B1/6
RDR3 3B2/4
RDR1 3B3/16
RDSZ2 3B2/13
RDSZ3 3B1/14
RDSZ1 3B1/12
S MIN
KBCLR 3B3/18
S MAX
MONZ 3B3/19
CNTOA 3B3/14
WL12
3B21AC
3B19KH FF
RZ12 3A2/5
RZ12 3B1/1
WL11
3B20AC
3B19KH FF
RZ11 3B2/1
RZ11 3A1/7
WL10
3A21AC
3A19KH FF
RZ10 3B1/19
RZ10 3B1/5
WL9
3A20AC
3A19KH FF
RZ9 3B3/12
RZ9 3A3/15
CNT 3A
CNT 2A

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02172 DATE 7/24/63

NOTE:

$$[\overline{MON\ Z}] = [\overline{(S1SA + S2SA + S1MO\ S2MO)\ SMO\ Q2\ WZG}]$$

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
	1014156

APPLICATION

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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE [illegible]
CHECKED C. G. Coggins 25 Jul 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible] 7/24/63
MIT APPROVAL [illegible] 24 July 63
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RZ-REGISTER) LDI

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014353
SCALE NONE
WT
SHEET 2 OF 2

1014353

INCHES
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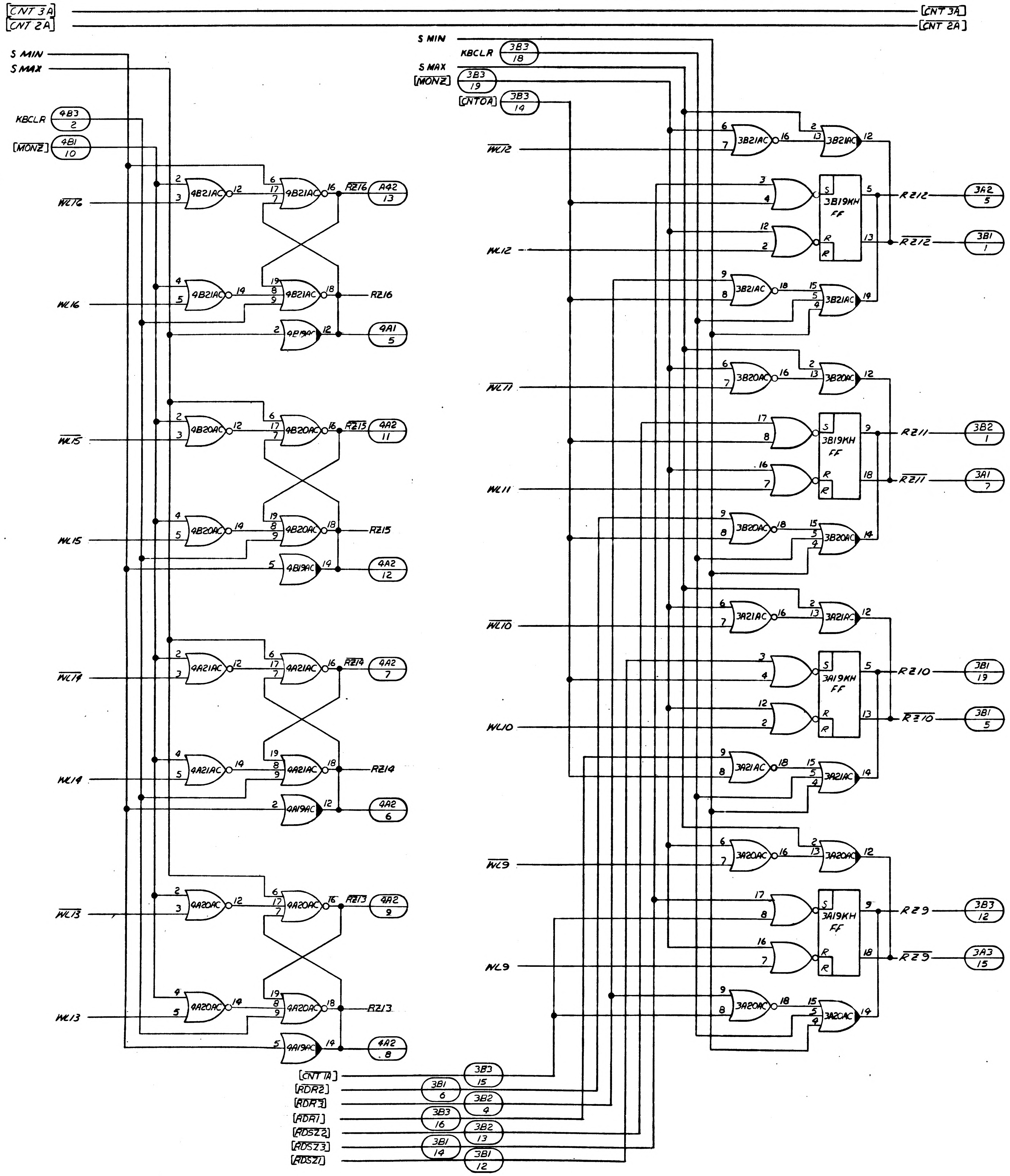
F-2

REVISIONS

SYM	DESCRIPTION
—	CLASS B RELEASE PER TDRR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CNT 2A
S MIN
S MAX
KBCLR
4B3 2
MONZ
4B1 10
WL16
4B21AC
RZ16
4A2 13
RZ16
4A1 5
WL15
4B20AC
RZ15
4A2 11
RZ15
4B19AC
4A2 12
WL14
4A21AC
RZ14
4A2 7
RZ14
4A19AC
4A2 6
WL13
4A20AC
RZ13
4A2 9
RZ13
4A19AC
4A2 8
S MIN
KBCLR
3B3 18
S MAX
MONZ
3B3 19
CNTOA
3B3 14
WL12
3B21AC
3B19KH FF
RZ12
3A2 5
RZ12
3B1 1
WL11
3B20AC
3B19KH FF
RZ11
3B2 1
RZ11
3A1 7
WL10
3A21AC
3A19KH FF
RZ10
3B1 19
RZ10
3B1 5
WL9
3A20AC
3A19KH FF
RZ9
3B3 12
RZ9
3A3 15
CNT 1A
3B3 15
ADR2
3B1 6
ADR3
3B2 4
ADR1
3B3 16
ADSZ2
3B2 13
ADSZ3
3B1 14
ADSZ1
3B1 12

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02172 DATE 7/24/63

NOTE:

$$[\overline{MONZ}] = [\overline{(S1SA + S2SA + S1MO\ S2MO)\ SMO\ Q2\ WZG}]$$

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FINAL FINISH

QTY REQD | PART OR IDENTIFYING NO
LIST OF MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-495
DRAWN [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL C Spati [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

LOGIC
COMPUTER

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1014353

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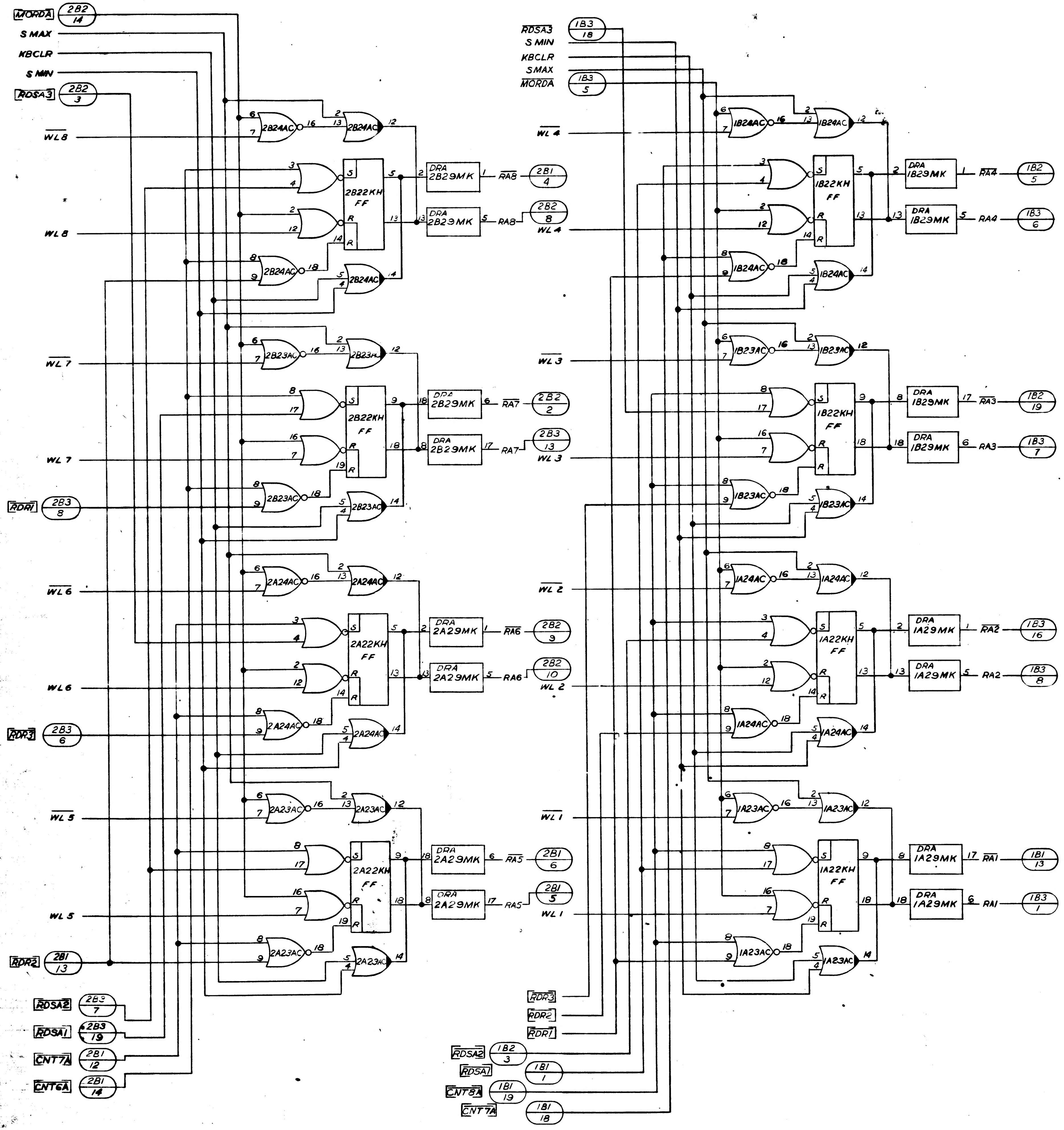

MORDA 2B2 14
S MAX
KBCLR
S MIN
RDSA3 2B2 3
WL8
WL 8
2B24AC
2B22KH FF
DRA 2B29MK
RA8 2B1 4
RA8 2B2 8
WL 7
2B23AC
RA7 2B2 2
RA7 2B3 13
RDR1 2B3 8
WL 6
2A24AC
2A22KH FF
DRA 2A29MK
RA6 2B2 9
RA6 2B2 10
RDR3 2B3 6
WL 5
2A23AC
RA5 2B1 6
RA5 2B1 5
RDR2 2B1 13
RDSA2 2B3 7
RDSA1 2B3 19
CNT7A 2B1 12
CNT6A 2B1 14
RDSA3 1B3 18
S MIN
KBCLR
SMAX
MORDA 1B3 5
WL 4
1B24AC
1B22KH FF
DRA 1B29MK
RA4 1B2 5
RA4 1B3 6
WL 3
1B23AC
RA3 1B2 19
RA3 1B3 7
WL 2
1A24AC
1A22KH FF
DRA 1A29MK
RA2 1B3 16
RA2 1B3 8
WL 1
1A23AC
RA1 1B1 13
RA1 1B3 1
RDR3
RDR2
RDR1
RDSA2 1B2 3
RDSA1 1B1 1
CNT8A 1B1 19
CNT7A 1B1 18

FOR INFORMATION ONLY

CLASS B RELEASE PER TDRR NO. 02172 DATE 7/24/63

NOTE:

$$[\overline{MORDA}] = \left[\overline{[(S1SA+S2SA+S1MOS2MO)\ SMO\ WAG+RDFB\ T7]}\ Q_2\right]$$

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

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NEXT ASSY	USED ON
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LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 25 Mar
CHECKED A.G. Cragnon
APPROVAL C. Shirley
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RA REGISTER) LDI

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014354
SCALE NONE
WT
SHEET 1 OF 2

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SYM	DESCRIPTION
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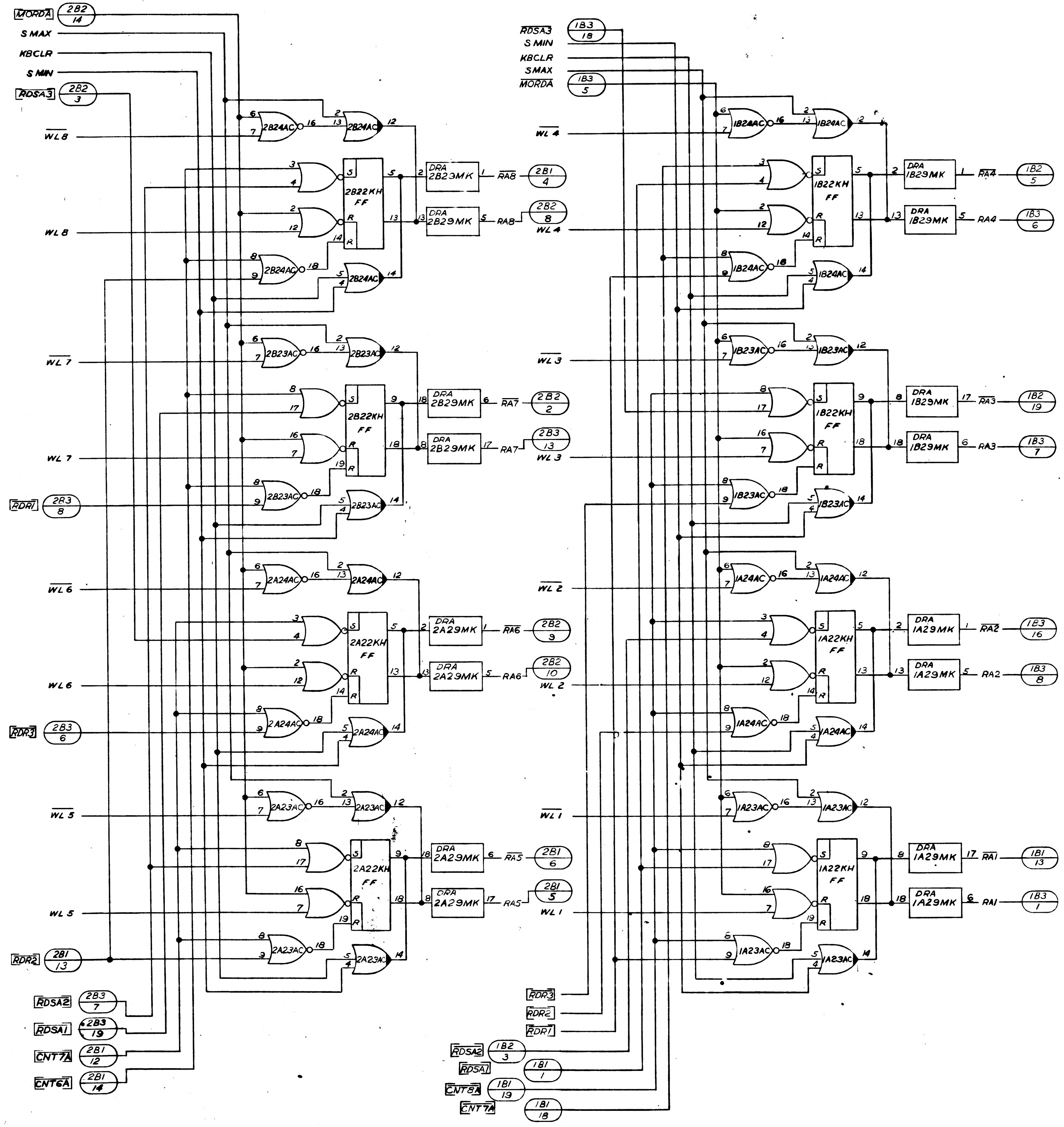
MORDA 2B2/14
S MAX
KBCLR
S MIN
RDSA3 2B2/3
WL 8
2B24AC
2B22KH FF
2B29MK
DRA
RA8 2B1/4
RA8 2B2/8
WL 8
WL 7
2B23AC
2B22KH FF
2B29MK
RA7 2B2/2
RA7 2B3/13
WL 7
RDR1 2B3/8
WL 6
2A24AC
2A22KH FF
2A29MK
RA6 2B2/9
RA6 2B2/10
WL 6
RDR3 2B3/6
WL 5
2A23AC
2A22KH FF
2A29MK
RA5 2B1/6
RA5 2B1/5
WL 5
RDR2 2B1/13
RDSA2 2B3/7
RDSA1 2B3/19
CNT7A 2B1/12
CNT6A 2B1/14
RDSA3 1B3/18
S MIN
KBCLR
SMAX
MORDA 1B3/5
WL 4
1B24AC
1B22KH FF
1B29MK
RA4 1B2/5
RA4 1B3/6
WL 4
WL 3
1B23AC
1B22KH FF
1B29MK
RA3 1B2/19
RA3 1B3/7
WL 3
WL 2
1A24AC
1A22KH FF
1A29MK
RA2 1B3/16
RA2 1B3/8
WL 2
WL 1
1A23AC
1A22KH FF
1A29MK
RA1 1B1/13
RA1 1B3/1
WL 1
RDR3
RDR2
RDR1
RDSA2 1B2/3
RDSA1 1B1/1
CNT8A 1B1/19
CNT7A 1B1/18
S
R

FOR INFORMATION ONLY

CLASS B RELEASE PER TDRR NO. 02172

NOTE:

[$\overline{\text{MORDA}}$] = [[$\overline{(S1SA+S2SA+S1MOS2MO)\ SMO\ WAG+RD}$

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO	NOMENCLA DESCRI
	LIST OF MATERIALS	

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
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CHECKED A.G. [illegible]
APPROVAL C. Sniv[illegible]
APPROVAL [illegible]
APPROVAL
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACE
HOUSTON

LOGIC D
COMPUTER
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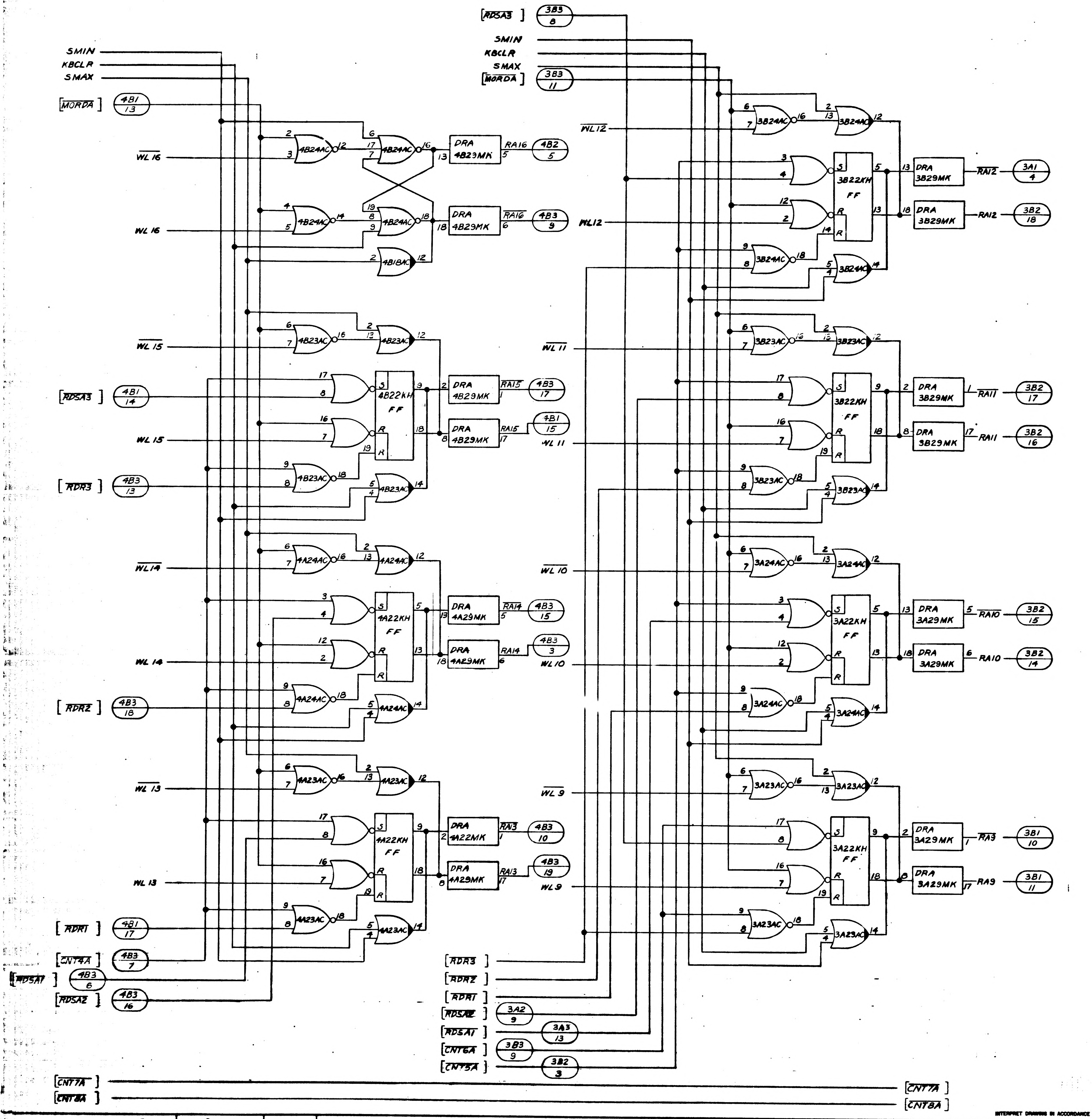
CODE IDENT NO —
SIZE J
SCALE NONE
WT

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		



SMIN
KBCLR
SMAX
[MORDA] 4B1 13
WL 16
WL 16
4B24AC
4B18AC
DRA 4B29MK
RA16 4B2 5
RA16 4B3 9
WL 15
[RDSA3] 4B1 14
WL 15
[RDR3] 4B3 13
4B23AC
4B22KH FF
S R
RA15 4B3 17
RA15 4B1 15
WL 11
WL 14
WL 14
[RDR2] 4B3 18
4A24AC
4A22KH FF
4A29MK
RA14 4B3 15
RA14 4B3 3
WL 10
WL 13
WL 13
[RDR1] 4B1 17
[CNT4A] 4B3 7
[RDSA1] 4B3 6
[RDSA2] 4B3 16
4A23AC
4A22KH FF
RA13 4B3 10
RA13 4B3 19
WL 9
[RDSA3] 3B3 8
SMIN
KBCLR
SMAX 3B3 11
[MORDA]
WL 12
WL 12
3B24AC
3B22KH FF
3B29MK
RA12 3A1 4
RA12 3B2 18
WL 11
WL 11
3B23AC
RA11 3B2 17
RA11 3B2 16
WL 10
WL 10
3A24AC
3A22KH FF
3A29MK
RA10 3B2 15
RA10 3B2 14
WL 9
WL 9
3A23AC
RA9 3B1 10
RA9 3B1 11
[RDR3]
[RDR2]
[RDR1]
[RDSA2] 3A2 9
[RDSA1] 3A3 13
[CNT6A] 3B3 9
[CNT5A] 3B2 3
[CNT7A]
[CNT8A]
[CNT7A]
[CNT8A]

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 02172 DATE 7/24/63

NOTE:

[MORDA] = [(S1SA + S2SA + S1MO S2MO) SMO WAG + RDFBT7] Q2

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN L. Judge DATE 6/25/63
CHECKED C. G. Coggins 25 June 63
APPROVAL C Sparks 28 Jun
APPROVAL A. Mooney 6-28
APPROVAL
NASA APPROVAL 7/24/63
MIT APPROVAL 24 July 63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RA REGISTER) LDI

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014354
SCALE NONE
WT
SHEET 2 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
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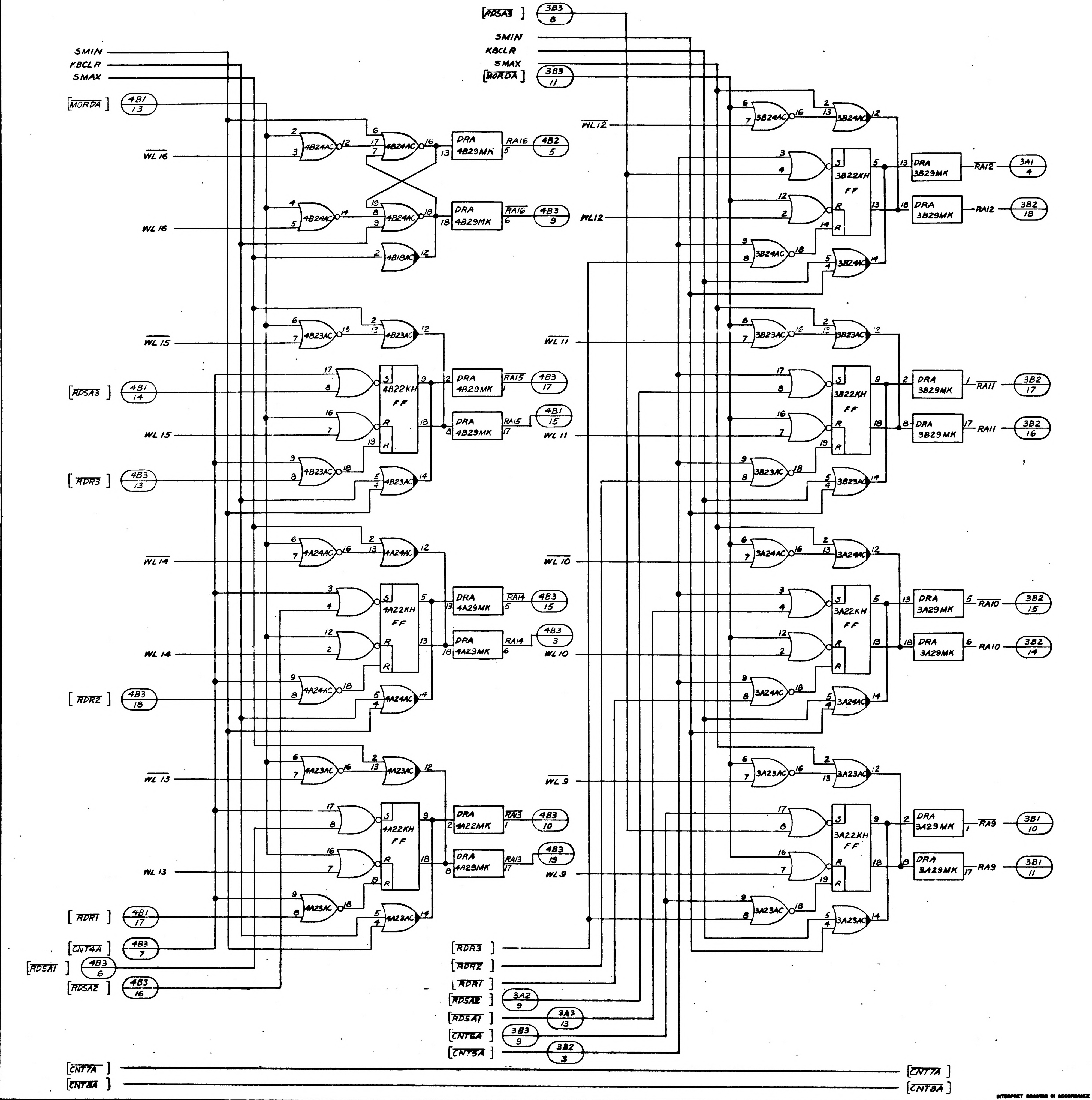
SMIN
KBCLR
SMAX
[MORDA] 4B1/13
WL 16
WL 16
4B24AC
4B18AC
DRA 4B29MK
RA16 4B2/5
RA16 4B3/9
WL 15
[RDSA3] 4B1/14
WL 15
[RDR3] 4B3/13
4B23AC
4B22KH FF
DRA 4B29MK
RA15 4B3/17
RA15 4B1/15
WL 14
WL 14
[RDR2] 4B3/18
4A24AC
4A22KH FF
DRA 4A29MK
RA14 4B3/15
RA14 4B3/3
WL 13
WL 13
[RDR1] 4B1/17
[CNT4A] 4B3/7
[RDSA1] 4B3/6
[RDSA2] 4B3/16
4A23AC
4A22KH FF
DRA 4A22MK
RA13 4B3/10
DRA 4A29MK
RA13 4B3/19
[RDSA3] 3B3/8
SMIN
KBCLR
SMAX
[MORDA] 3B3/11
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RA12 3B2/18
WL 11
WL 11
3B23AC
3B22KH FF
DRA 3B29MK
RA11 3B2/17
RA11 3B2/16
WL 10
WL 10
3A24AC
3A22KH FF
DRA 3A29MK
RA10 3B2/15
RA10 3B2/14
WL 9
WL 9
3A23AC
3A22KH FF
DRA 3A29MK
RA9 3B1/10
RA9 3B1/11
[RDR3]
[RDR2]
[RDR1]
[RDSA2] 3A2/9
[RDSA1] 3A3/13
[CNT6A] 3B3/9
[CNT5A] 3B2/3
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CLASS B RELEASE TDRR NO. 02172 DA

NOTE :

[$\overline{MORDA}$] = [[$\overline{(S1SA+S2SA+S1MO\ S2MO)SMO\ WAG+}$

REVISIONS

SYM	DESCRIPTION
—	CL B RELEASED PER TDRR

1014354

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOM D
	LIST OF MATERIALS	

	1014156
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APPLICATION	

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RAYTHEON CO.
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CONTRACT NO NAS 9-498
DRAWN L. Judge DATE
CHECKED C. G. Caggiano
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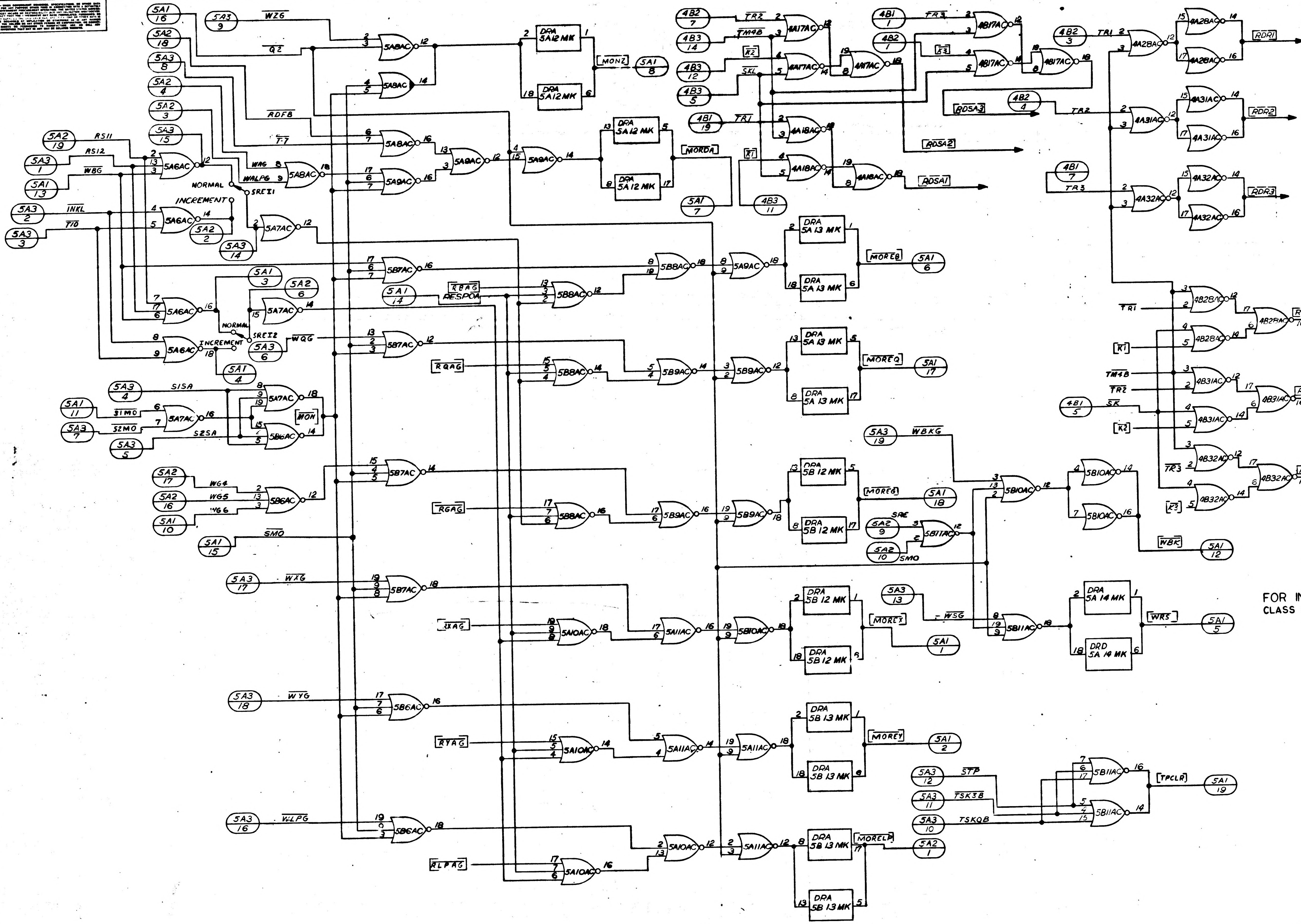
A	CLASS II CHANGE PER RD-R 5434		
B	CHANGED PER TDRR 06326	16 FEB 64	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MORDA
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MOREB
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QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

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CONTRACT NO NAS-9-498
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NASA APPROVAL 7-3-63
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(REGISTER CONTROL LOGIC) LD

CODE IDENT NO —
SIZE J
NASA DRAWING NO. 1014355
SCALE NONE
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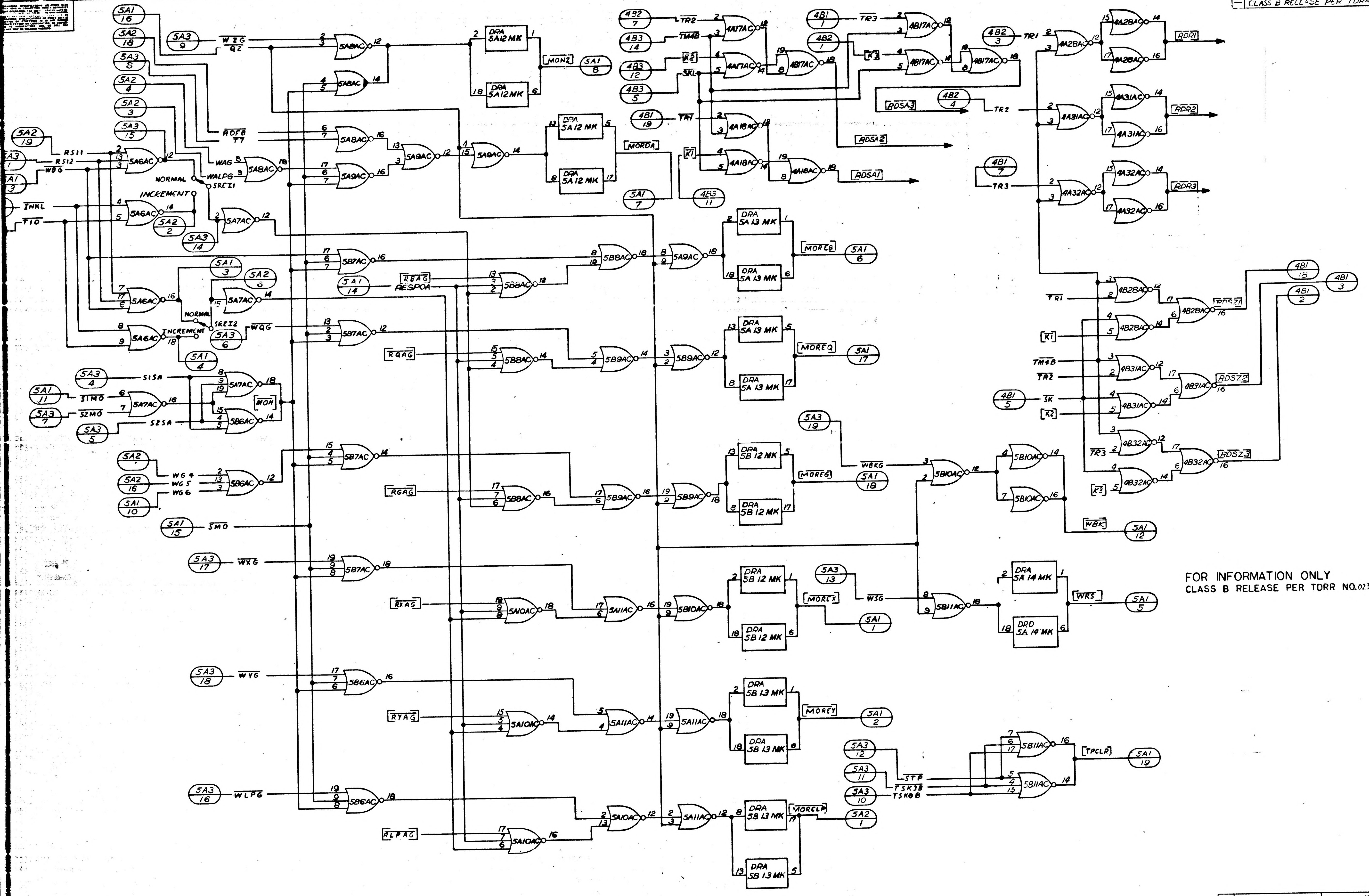

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RLPAG
MORELP
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LIST OF MATERIALS

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN A. Hutchinson DATE
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MANNED SPACECRAFT CENTER
HOUSTON TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(REGISTER CONTROL LOGIC) LD1

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014355
SCALE NONE
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SHEET 1 OF 1

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SYM	DESCRIPTION
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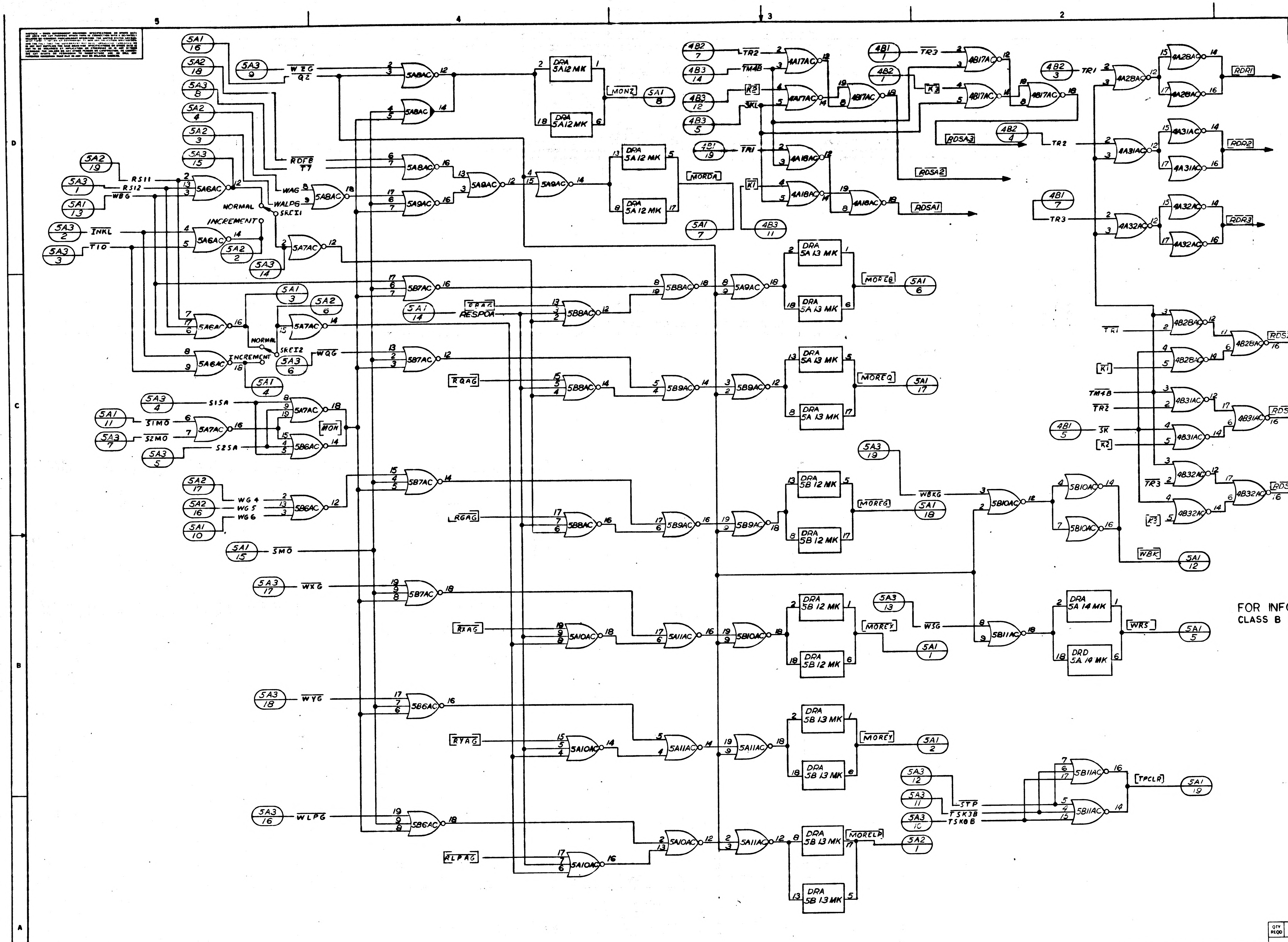
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QTY REQD	PART OR IDENTIFYING NO

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HEAT TREATMENT
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LEXINGTON, MASS
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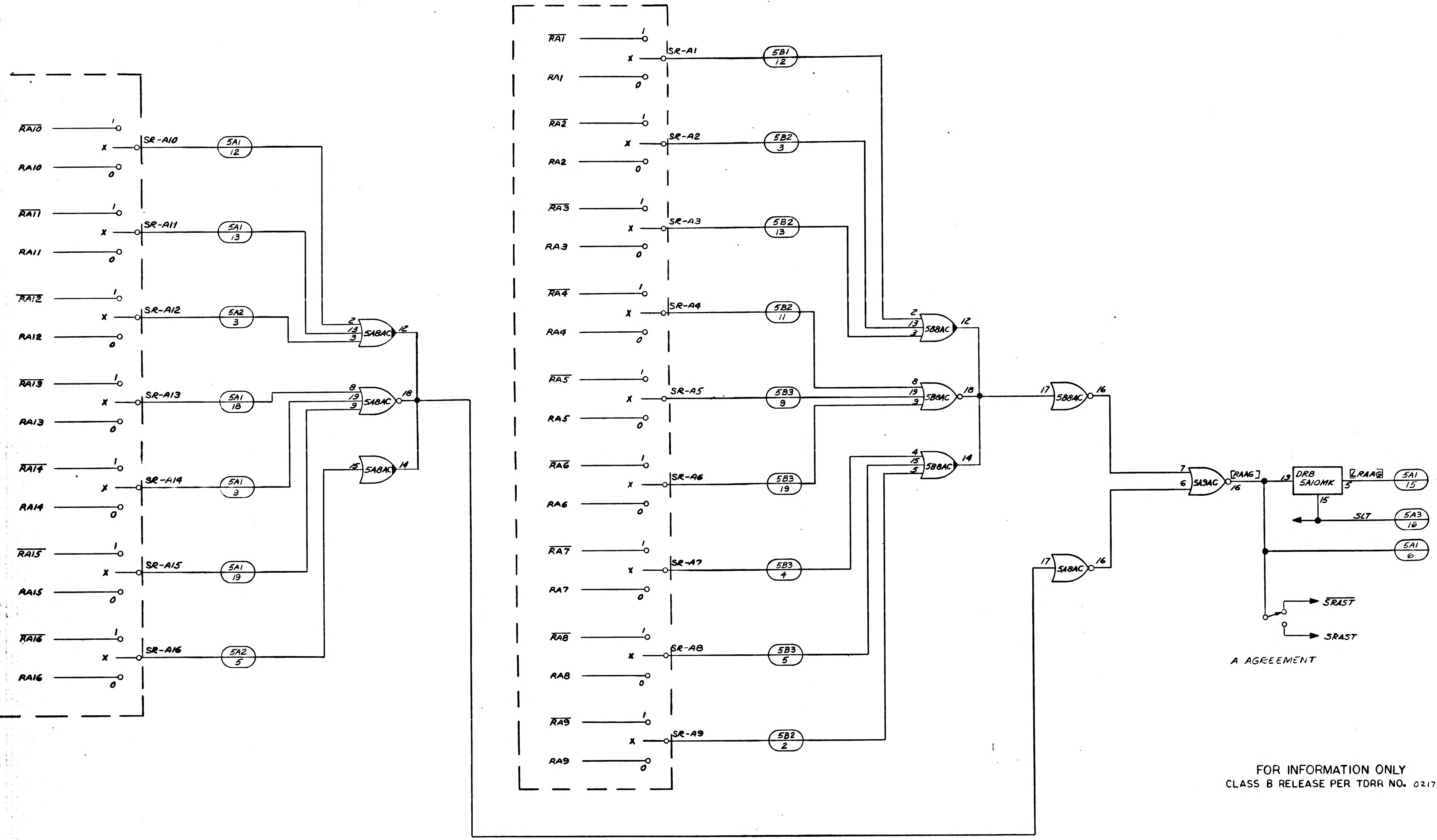

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CLASS B RELEASE PER TDRR NO. 02172 DATE 7/24/63

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QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN Judge DATE 6/25/63
CHECKED D.G. Carqiano 25 Jun 63
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RA AGREEMENT) LD2

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014356
SCALE NONE
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SHEET 1 OF 1

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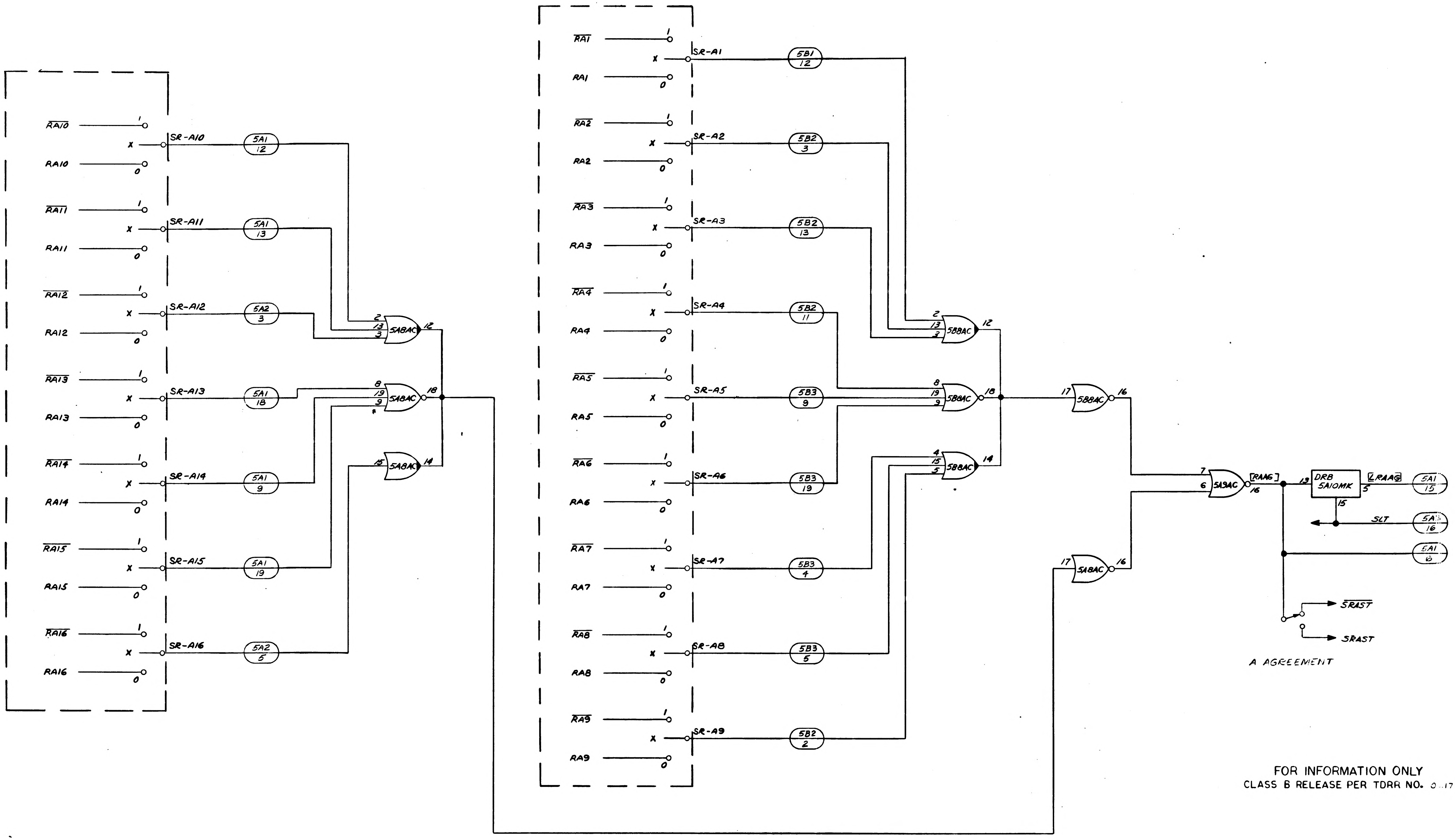

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LEXINGTON, MASS
CONTRACT NO NAS-9-498
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SYM	DESCRIPTION	DATE	APPROVED
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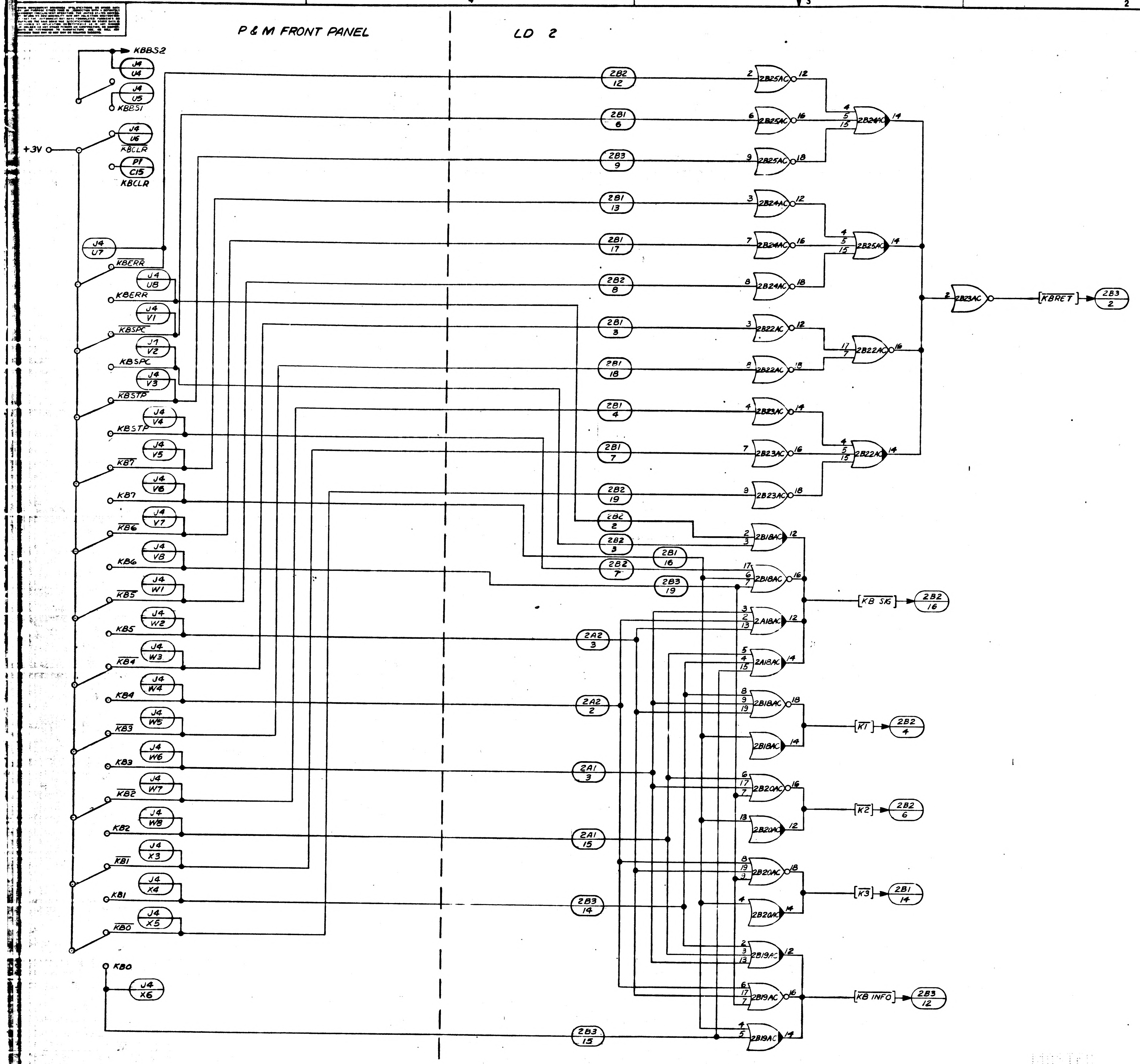
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CONTRACT NO NAS-9-4-6
DRAWN E. Judge DATE 6/25/63
CHECKED C. G. Cap[illegible] 25 Jun 63
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(KEYBOARD) LD2

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SIZE J
NASA DRAWING NO 1014357
SCALE NONE
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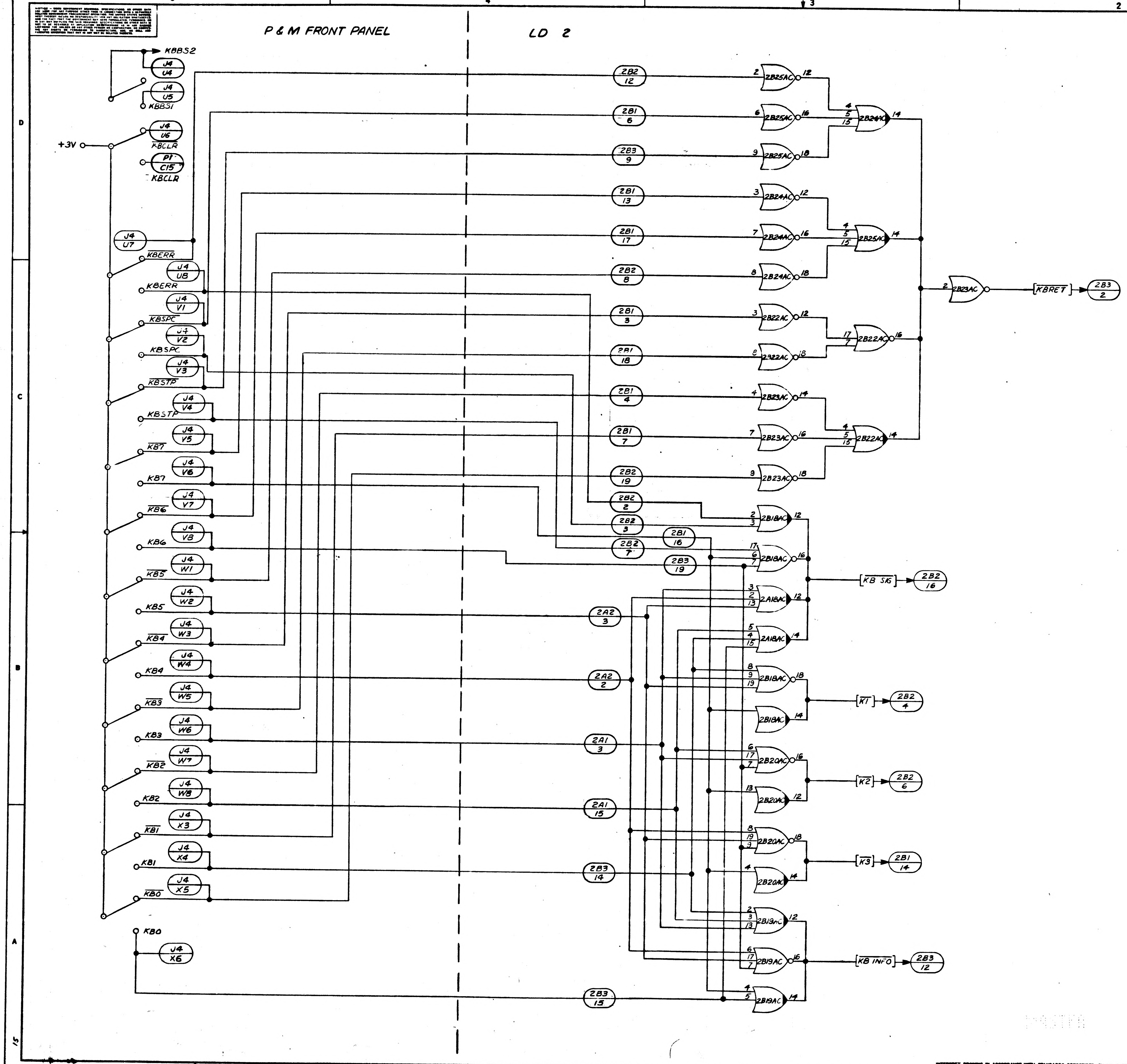
SHEET 1 OF 1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FINAL FINISH

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LIST OF MATERIALS

RAYTHEON CO
LEXINGTON, MASS.
CONTRACT NO NAS-9-4-5
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SYM	DESCRIPTION	DATE	APPROVED
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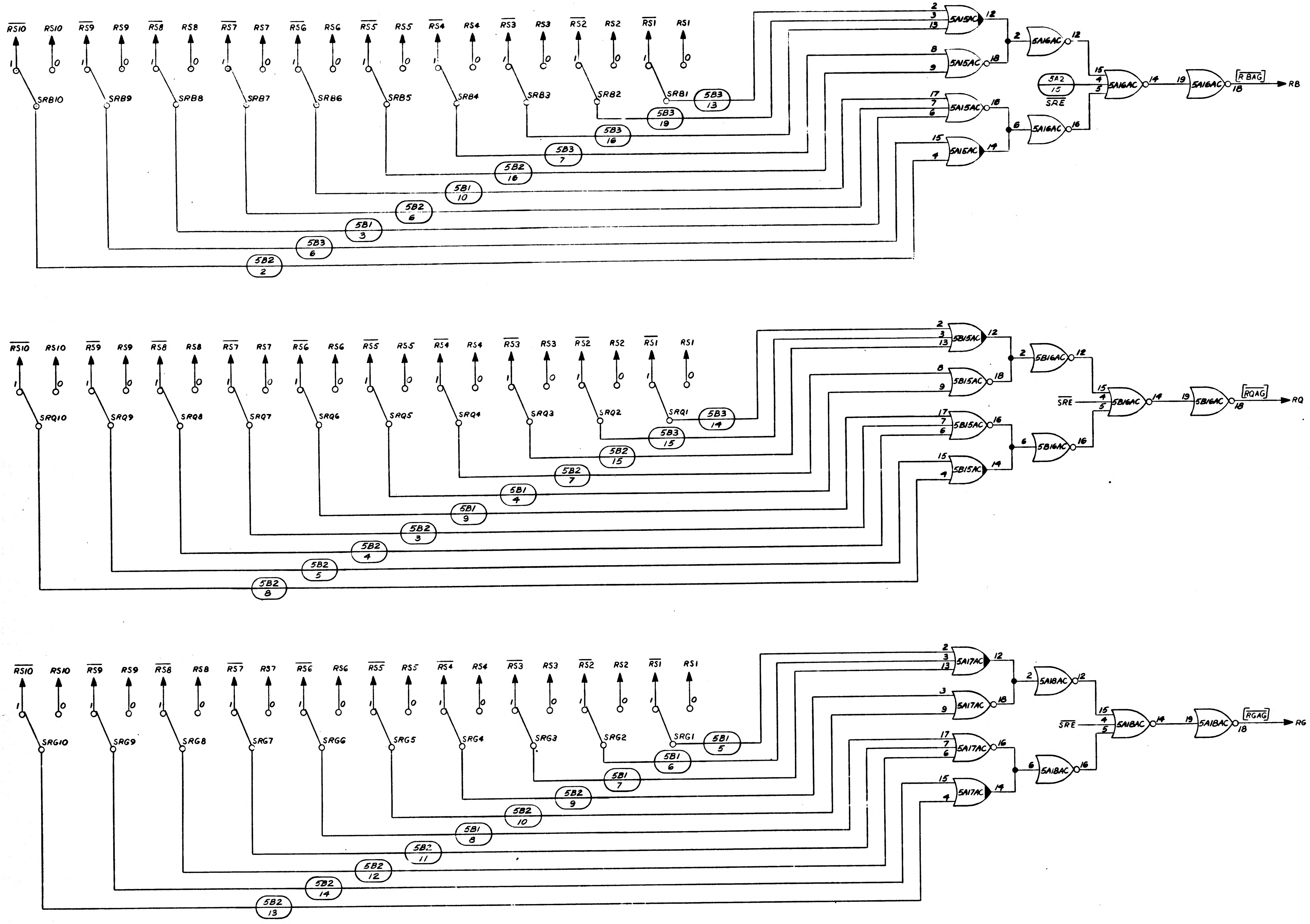

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$\overline{RS1}$
RS1
SRB10
SRB9
SRB8
SRB7
SRB6
SRB5
SRB4
SRB3
SRB2
SRB1
5A15AC
5A16AC
5A2 15
SRE
$\overline{RBAG}$
RB
5B3 13
5B3 19
5B3 16
5B3 7
5B2 16
5B1 10
5B2 6
5B1 3
5B3 6
5B2 2
SRQ10
SRQ9
SRQ8
SRQ7
SRQ6
SRQ5
SRQ4
SRQ3
SRQ2
SRQ1
5B15AC
5B16AC
$\overline{SRE}$
$\overline{RQAG}$
RQ
5B3 14
5B3 15
5B2 15
5B2 7
5B1 4
5B1 9
5B2 3
5B2 4
5B2 5
5B2 8
SRG10
SRG9
SRG8
SRG7
SRG6
SRG5
SRG4
SRG3
SRG2
SRG1
5A17AC
5A18AC
$\overline{SRE}$
$\overline{RGAG}$
RG
5B1 5
5B1 6
5B1 7
5B2 9
5B2 10
5B1 8
5B2 11
5B2 12
5B2 14
5B2 13

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02172 DATE 7/24/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-4968
DRAWN L. Judge DATE 6/25/63
CHECKED A. G. Cogg… 25 Jun 63
APPROVAL C. S…
APPROVAL
APPROVAL
NASA APPROVAL … 7/24/63
MIT APPROVAL … 24 Jul 63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RECORD MODE COMPARISON
RB, RQ, RG)
LDI

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014358
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

F2

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SYM	DESCRIPTION
—	CL B RELEASED PER TDRR

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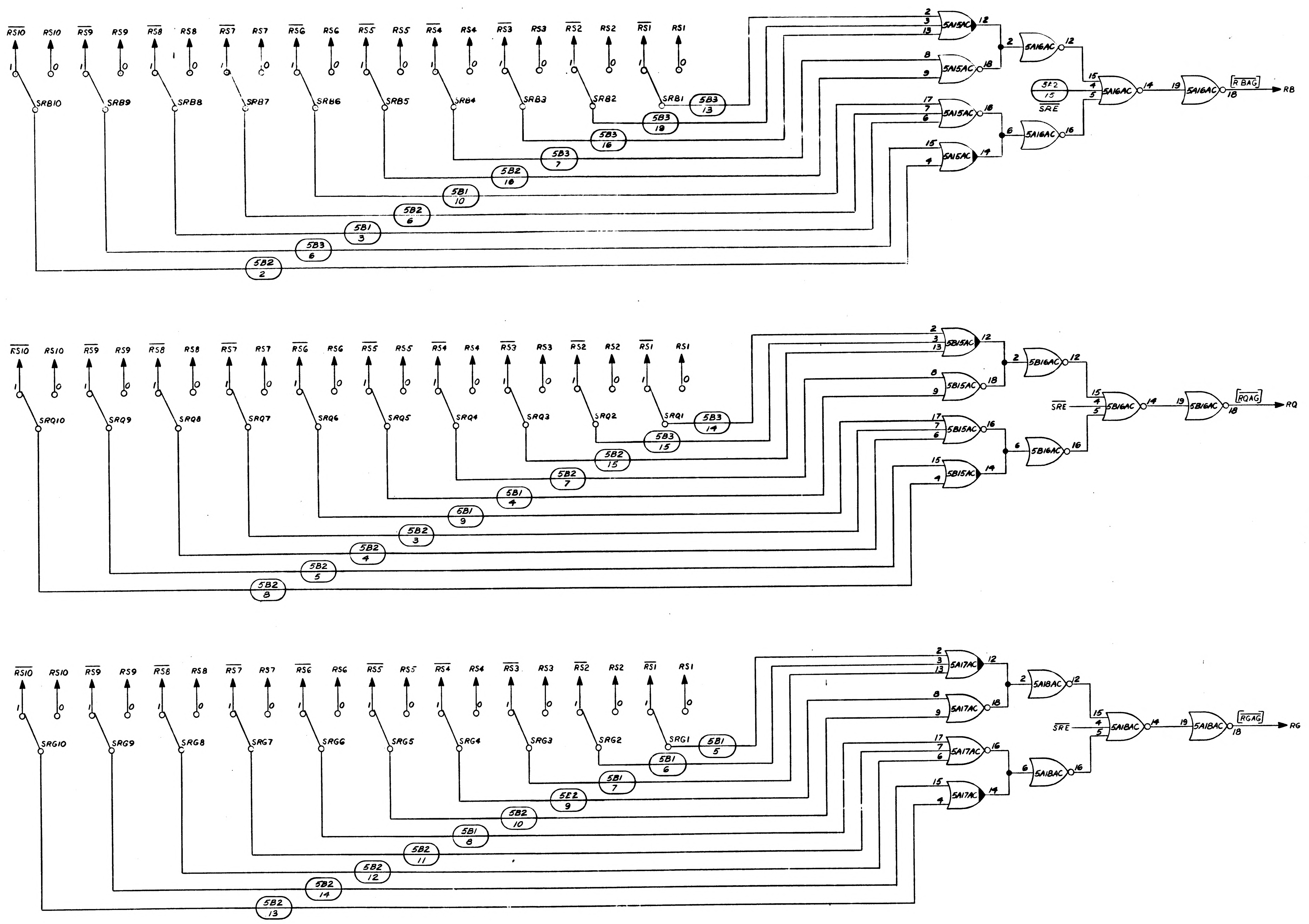
RS10 RS10 RS9 RS9 RS8 RS8 RS7 RS7 RS6 RS6 RS5 RS5 RS4 RS4 RS3 RS3 RS2 RS2 RS1 RS1
1 0
SRB10 SRB9 SRB8 SRB7 SRB6 SRB5 SRB4 SRB3 SRB2 SRB1
5B3 13
5B3 19
5B3 16
5B3 7
5B2 18
5B1 10
5B2 6
5B1 3
5B3 6
5B2 2
5A15AC
5A16AC
5A2 15
SRE
R BAG
RB
SRQ10 SRQ9 SRQ8 SRQ7 SRQ6 SRQ5 SRQ4 SRQ3 SRQ2 SRQ1
5B3 14
5B3 15
5B2 15
5B2 7
5B1 4
5B1 9
5B2 3
5B2 4
5B2 5
5B2 8
5B15AC
5B16AC
SRE
RQAG
RQ
SRG10 SRG9 SRG8 SRG7 SRG6 SRG5 SRG4 SRG3 SRG2 SRG1
5B1 5
5B1 6
5B1 7
5E2 9
5B2 10
5B1 8
5B2 11
5B2 12
5B2 14
5B2 13
5A17AC
5A18AC
SRE
RGAG
RG

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02172 DATE

QTY REQD	PART OR IDENTIFYING NO	NOM D

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

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FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO. NAS-9-4968
DRAWN L. Judge DATE
CHECKED
APPROVAL C. Sterling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SP
LOGI
COMPUT
(RECORD MO
RE

CODE IDENT NO —— SIZE J
SCALE NONE WT

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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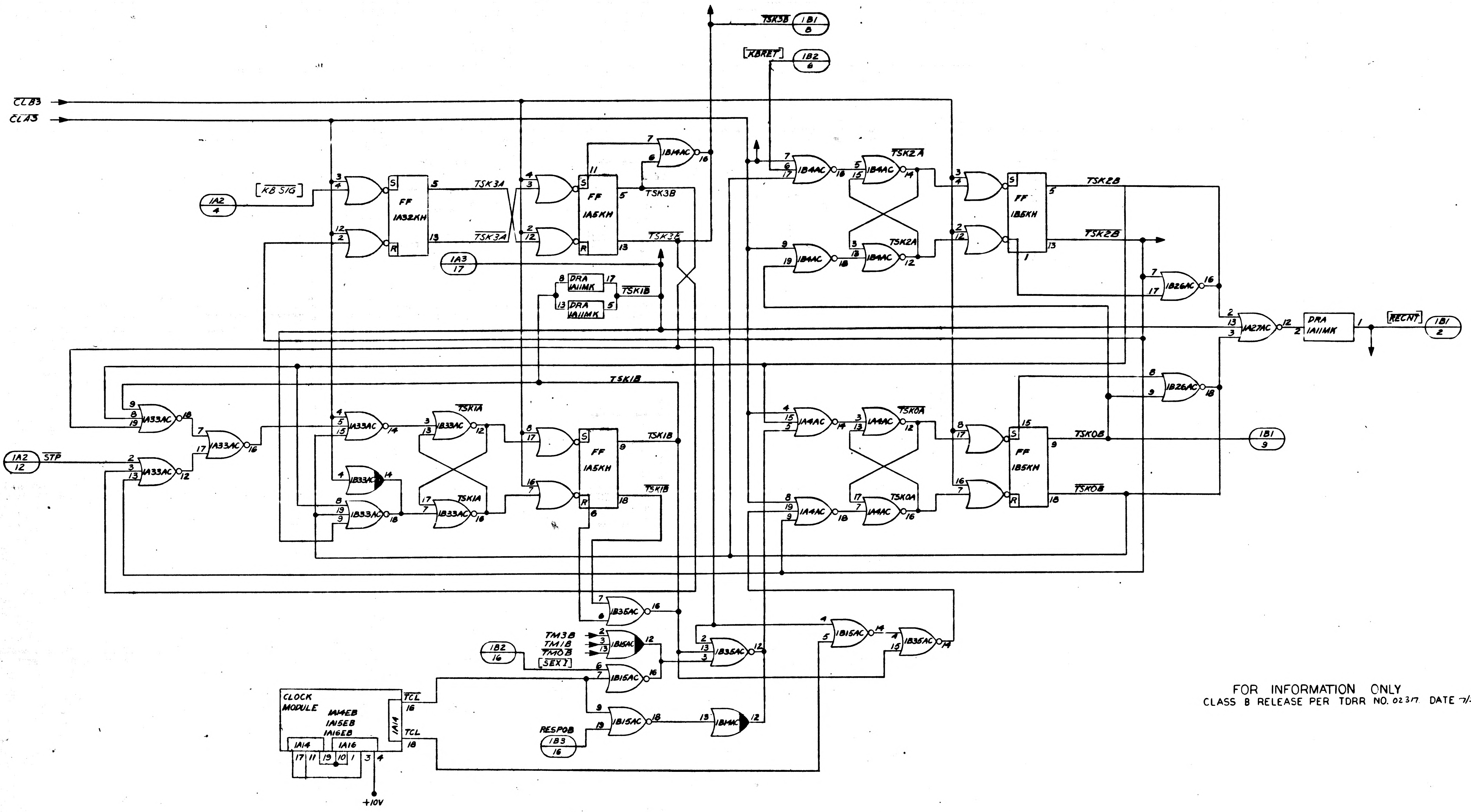

TSK3B
1B1 8
KBRET
1B2 6
CLB3
CLA3
1A2 4
KB SIG
FF 1A32KH
S
R
TSK3A
TSK3A
FF 1A5KH
TSK3B
TSK3C
1B14AC
1A3 17
DRA 1A11MK
TSK1B
DRA 1A11MK
1B4AC
TSK2A
TSK2A
FF 1B5KH
TSK2B
TSK2B
1B26AC
1A27AC
DRA 1A11MK
RECNT
1B1 2
1B26AC
TSK1B
1A33AC
1B33AC
TSK1A
TSK1A
1A33AC
1A33AC
1A2 12
STP
1B33AC
1B33AC
FF 1A5KH
TSK1B
TSK1B
1A4AC
TSK0A
TSK0A
FF 1B5KH
TSK0B
TSK0B
1B1 9
1B35AC
TM3B
TM1B
TM0B
SEXT
1B15AC
1B2 16
1B35AC
1B15AC
1B35AC
1B15AC
1B15AC
1B14AC
RESPOB
1B3 16
CLOCK MODULE
1A14EB
1A15EB
1A16EB
1A14
1A16
1A14
TCL
TCL
+10V

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02317 DATE 7/21/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-496
DRAWN L. Judge DATE 6/26/63
CHECKED A.G. Coggin
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL W.J. 7-31-63
MIT APPROVAL 7/31/63
MIT APPROVAL 7/31/63

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(TAPE SYNC AND KEYBOARD CONTROL) LD2

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014359
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014323

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SYM	DESCRIPTION
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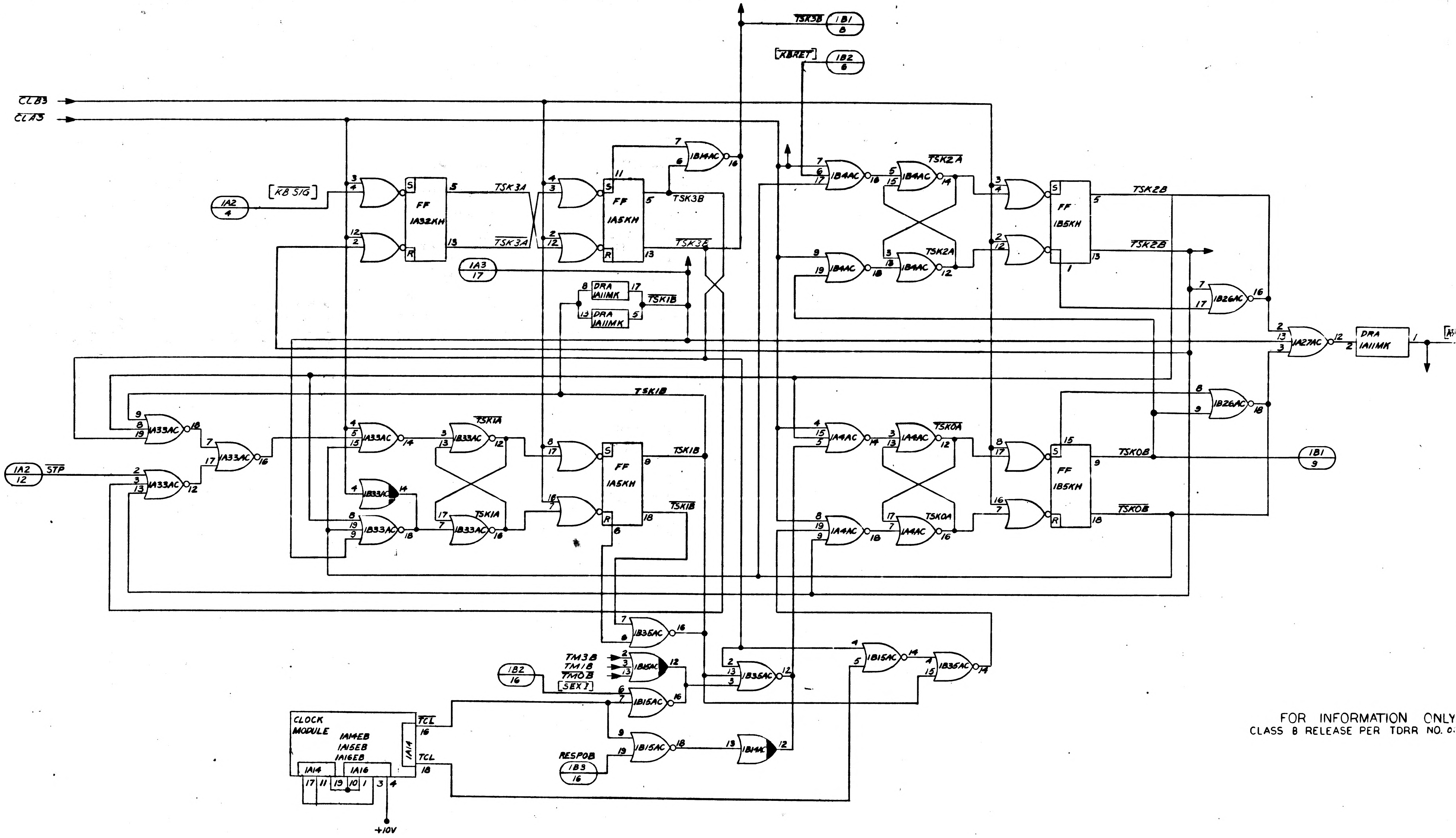
$\overline{TSK3B}$
1B1 / 8
[$\overline{KBRET}$]
1B2 / 6
$\overline{CLB3}$
$\overline{CLA3}$
1A2 / 4
[$\overline{KB SIG}$]
FF 1A32KH
TSK3A
$\overline{TSK3A}$
FF 1A5KH
TSK3B
$\overline{TSK3B}$
1B14AC
1A3 / 17
DRA 1A11MK
$\overline{TSK1B}$
1B4AC
$\overline{TSK2A}$
TSK2A
FF 1B5KH
TSK2B
$\overline{TSK2B}$
1B26AC
1A27AC
DRA 1A11MK
[$\overline{KBCNT}$]
1B1 / 2
TSK1B
1A33AC
1A2 / 12
$\overline{STP}$
$\overline{TSK1A}$
1B33AC
TSK1A
FF 1A5KH
TSK1B
$\overline{TSK1B}$
1A4AC
$\overline{TSK0A}$
TSK0A
FF 1B5KH
TSK0B
$\overline{TSK0B}$
1B1 / 9
1B35AC
TM3B
TM1B
$\overline{TM0B}$
[$\overline{SEX I}$]
1B2 / 16
1B15AC
1B14AC
RESPOB
1B3 / 16
CLOCK MODULE
1A14EB
1A15EB
1A16EB
1A14
1A16
$\overline{TCL}$
TCL
+10V

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CLASS B RELEASE PER TDRR NO. 0. 317 DATE 7/31/

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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

QTY REQD	PART OR IDENTIFYING NO	NOMEN DES

LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO NAS 9-495
DRAWN L. Judge DATE 6/28/63
CHECKED A. G. Coggan
APPROVAL C. Jordan
APPROVAL
APPROVAL
NASA APPROVAL W. J. [illegible] 7-31-63
MIT APPROVAL
MIT APPROVAL

MANNED SPA
HOUS

LOGIC
COMPUTER
(TAPE
(KEYBOA

CODE IDENT NO —
SIZE J
SCALE NONE
WT

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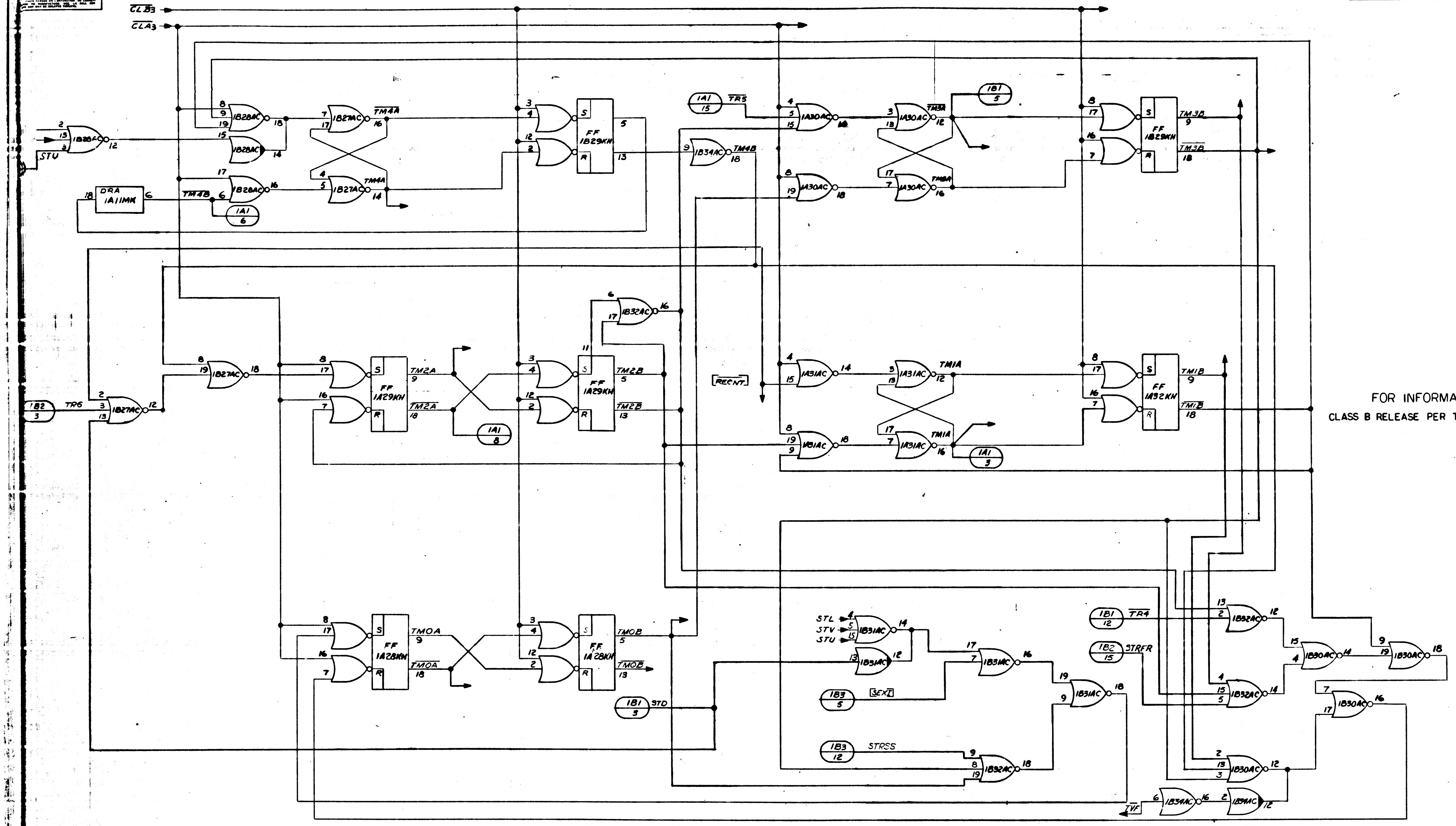

CLB3
CLA3
STU
1B28AC
1B27AC
TM4A
TM4B
FF 1B29KH
DRA 1A11MK
1A1 6
1A1 15
TR5
1A30AC
TM3A
TM8A
1B1 5
1B34AC
FF 1B29KH
TM3B
1B2 3
TR6
1B27AC
FF 1A29KH
TM2A
TM2B
1B32AC
1A1 8
RECNT
1A31AC
TM1A
1A1 3
FF 1A32KH
TM1B
FF 1A28KH
TM0A
TM0B
1B1 3
STD
STL
STV
STU
1B31AC
1B3 5
SEXT
1B3 12
STRSS
1B32AC
1B1 12
TR4
1B2 15
STRFR
1B30AC
1B34AC
TVF

FOR INFORMATION ONLY

CLASS B RELEASE PER TDRR NO. 02317 DATE 7/31/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

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NEXT ASSY	USED ON
APPLICATION	

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-4-8
DRAWN DATE
CHECKED A. G. 25 June 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL W J
MIT APPROVAL 7-31-63
MIT APPROVAL D A 7/31/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM LD2
COMPUTER TEST SET
(TAPE MODE CONTROL LOGIC)

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014360
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014360

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REVISIONS	
SYM	DESCRIPTION
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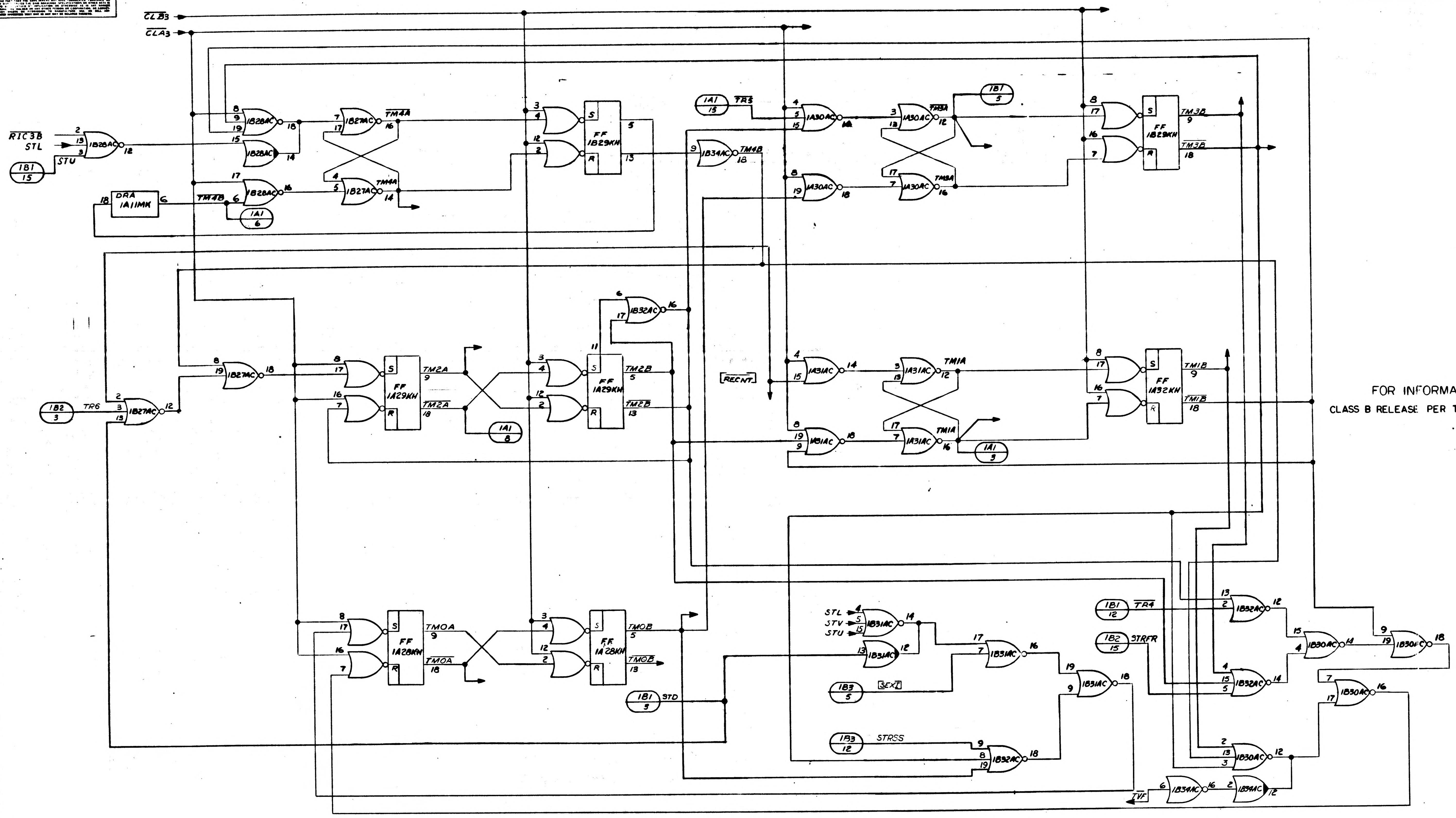
CLB3
CLA3
RIC3B
STL
STU
1B1 15
1B28AC
1B28AC
1B28AC
1B27AC
1B27AC
TM4A
TM4A
TM4B
DRA 1A11MK
1A1 6
FF 1B29KH
S
R
1A1 13
TR5
9 1B34AC
TM4B
1B1 5
1A30AC
1A30AC
1A30AC
1A30AC
TM3A
TM3A
FF 1B29KH
TM3B
TM3B
6 1B32AC 16
1B27AC
FF 1A29KH
TM2A
TM2A
1A1 8
FF 1A29KH
TM2B
TM2B
RECNT
1A31AC
1B31AC
1A31AC
1A31AC
TM1A
TM1A
1A1 9
FF 1A32KH
TM1B
TM1B
1B2 3
TR6
1B27AC
FF 1A28KH
TMOA
TMOA
FF 1A28KH
TMOB
TMOB
1B1 9
STD
STL
STV
STU
1B31AC
1B31AC
1B31AC
1B31AC
1B3 5
SEXT
1B3 12
STRSS
1B32AC
1B1 12
TR4
1B2 15
STRFR
1B32AC
1B32AC
1B30AC
1B30AC
1B30AC
1B30AC
TVF
1B34AC
1B34AC

FOR INFORMATION O
CLASS B RELEASE PER TDRR NO.

QTY REQD	PART OR IDENTIFYING NO	
LIST OF MATERIAL		

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO
LEXINGTON, MASS
CONTRACT NO NAS-9-4-5
DRAWN
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

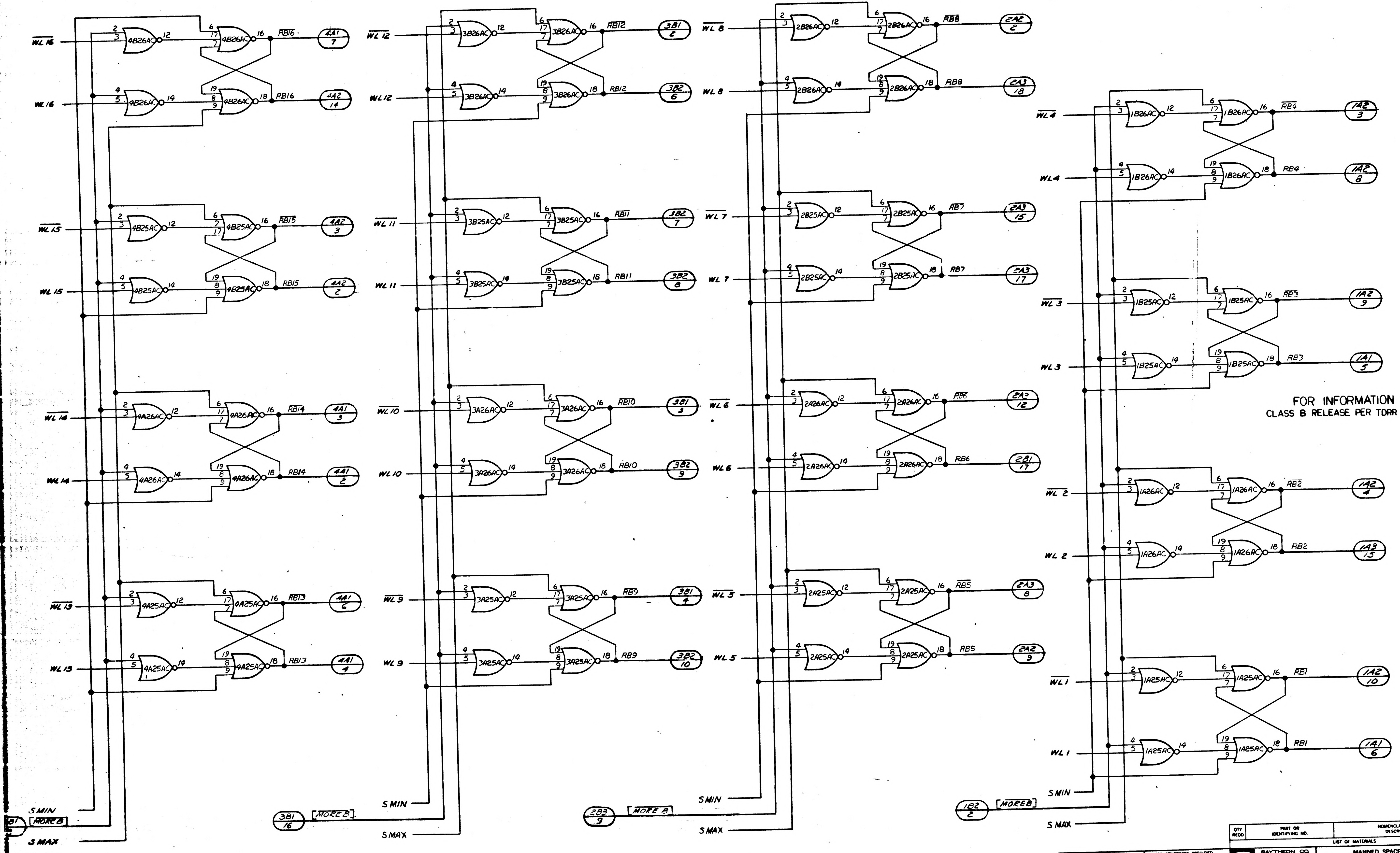
MANNED SP
HOUS

LOGIC
COMPUTER
(TAPE MODE

CODE IDENT NO —
SIZE J
SCALE NONE
WT

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 02317	7/31/63	



WL 16
4B26AC
RB16
4A1 7
WL 16
RB16
4A2 14
WL 15
4B25AC
RB15
4A2 3
WL 15
RB15
4A2 2
WL 14
4A26AC
RB14
4A1 3
WL 14
RB14
4A1 2
WL 13
4A25AC
RB13
4A1 6
WL 13
RB13
4A1 4
SMIN
MOREB
SMAX
WL 12
3B26AC
RB12
3B1 2
WL 12
RB12
3B2 6
WL 11
3B25AC
RB11
3B2 7
WL 11
RB11
3B2 8
WL 10
3A26AC
RB10
3B1 3
WL 10
RB10
3B2 9
WL 9
3A25AC
RB9
3B1 4
WL 9
RB9
3B2 10
3B1 16
MOREB
SMIN
SMAX
WL 8
2B26AC
RB8
2A2 2
WL 8
RB8
2A3 18
WL 7
2B25AC
RB7
2A3 15
WL 7
RB7
2A3 17
WL 6
2A26AC
RB6
2A3 12
WL 6
RB6
2B1 17
WL 5
2A25AC
RB5
2A3 8
WL 5
RB5
2A2 9
2B2 9
MORE B
SMIN
SMAX
WL 4
1B26AC
RB4
1A2 3
WL 4
RB4
1A2 8
WL 3
1B25AC
RB3
1A2 9
WL 3
RB3
1A1 5
WL 2
1A26AC
RB2
1A2 4
WL 2
RB2
1A3 15
WL 1
1A25AC
RB1
1A2 10
WL 1
RB1
1A1 6
1B2 2
MOREB
SMIN
SMAX

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO.02317 DATE 7/31/

NOTE:
$[\overline{MOREB}] = [\overline{[(S1MO\ S2MO + S1SA + S2SA)\ SMO\ WBG + SREI1\ SRE\ R\ BAG\ \overline{RESPOA}]}\ Q2]$

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

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NEXT ASSY	USED ON
	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE
CHECKED A.G. Cagginello
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL W. J. Klein
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RB REGISTER)

LDI

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014361
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

F-2

SYM	REVISIONS DESCRIPTION
—	CL B RELEASED PER TDRR

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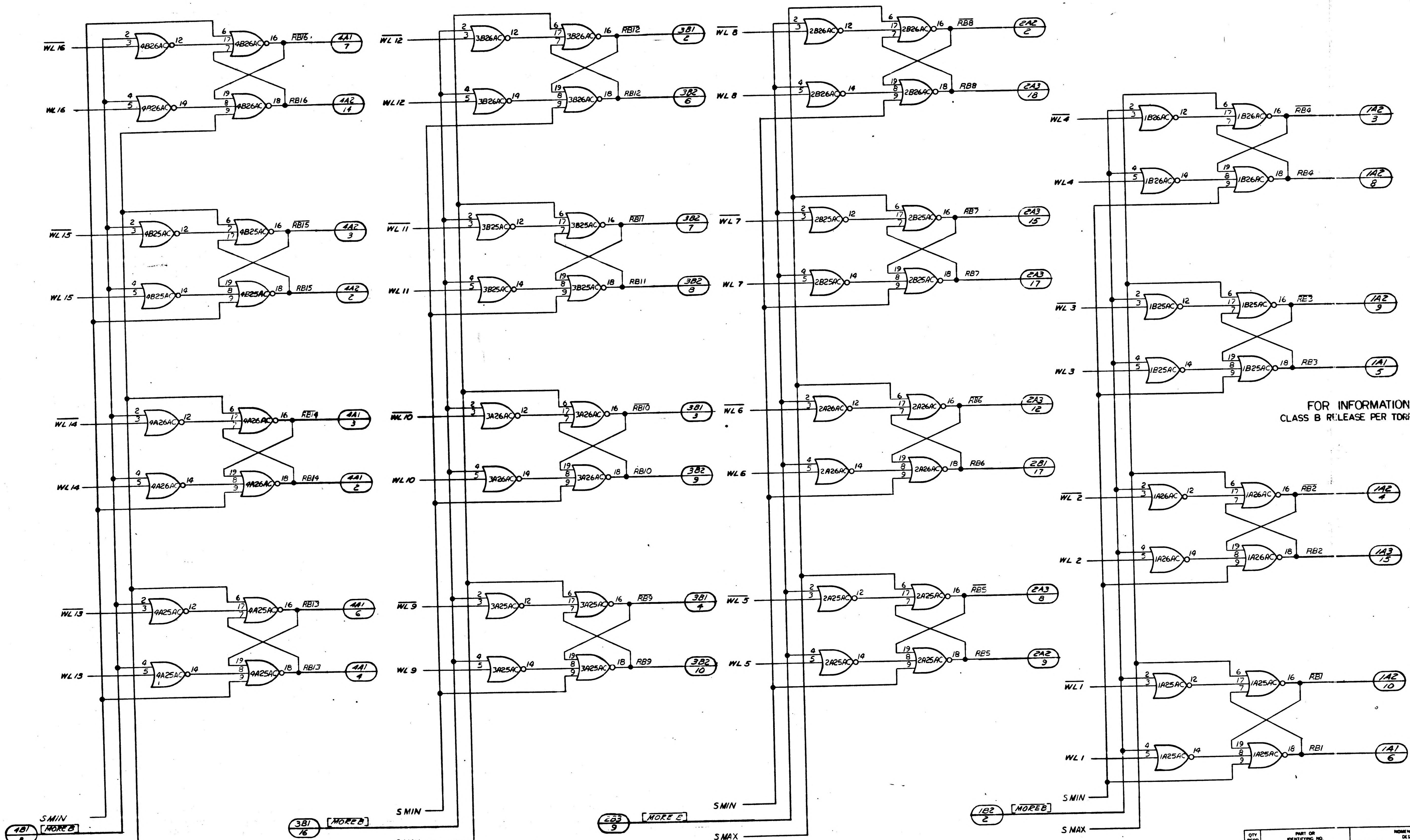

WL 16
WL 16
4B26AC
4B26AC
RB16
RB16
4A1 7
4A2 14
WL 15
WL 15
4B25AC
RB15
4A2 3
4A2 2
WL 14
WL 14
4A26AC
RB14
4A1 3
4A1 2
WL 13
WL 13
4A25AC
RB13
4A1 6
4A1 4
WL 12
WL 12
3B26AC
RB12
3B1 2
3B2 6
WL 11
WL 11
3B25AC
RB11
3B2 7
3B2 8
WL 10
WL 10
3A26AC
RB10
3B1 3
3B2 9
WL 9
WL 9
3A25AC
RB9
3B1 4
3B2 10
WL 8
WL 8
2B26AC
RB8
2A2 2
2A3 18
WL 7
WL 7
2B25AC
RB7
2A3 15
2A3 17
WL 6
WL 6
2A26AC
RB6
2A3 12
2B1 17
WL 5
WL 5
2A25AC
RB5
2A3 8
2A2 9
WL 4
WL 4
1B26AC
RB4
1A2 3
1A2 8
WL 3
WL 3
1B25AC
RB3
1A2 9
1A1 5
WL 2
WL 2
1A26AC
RB2
1A2 4
1A3 15
WL 1
WL 1
1A25AC
RB1
1A2 10
1A1 6
SMIN
SMAX
MOREB
4B1 8
3B1 16
MORE B
2B3 9
MORE E
1B2 2

FOR INFORMATION
CLASS B RELEASE PER TDRR

NOTE:
$[\overline{MOREB}] = [\overline{[(S1MO\ S2MO + S1SA + S2SA)\ SMO\ WBG + SREI1\ SRE\ R\ BAG\ \overline{RESPOA}]\ Q2}]$

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

	1014156
NEXT ASSY	USED ON
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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

QTY REQD	PART OR IDENTIFYING NO.	NOMEN DES
LIST OF MATERIALS		

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE
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MIT APPROVAL
MIT APPROVAL

MANNED SPA
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LOGIC
COMPUTER
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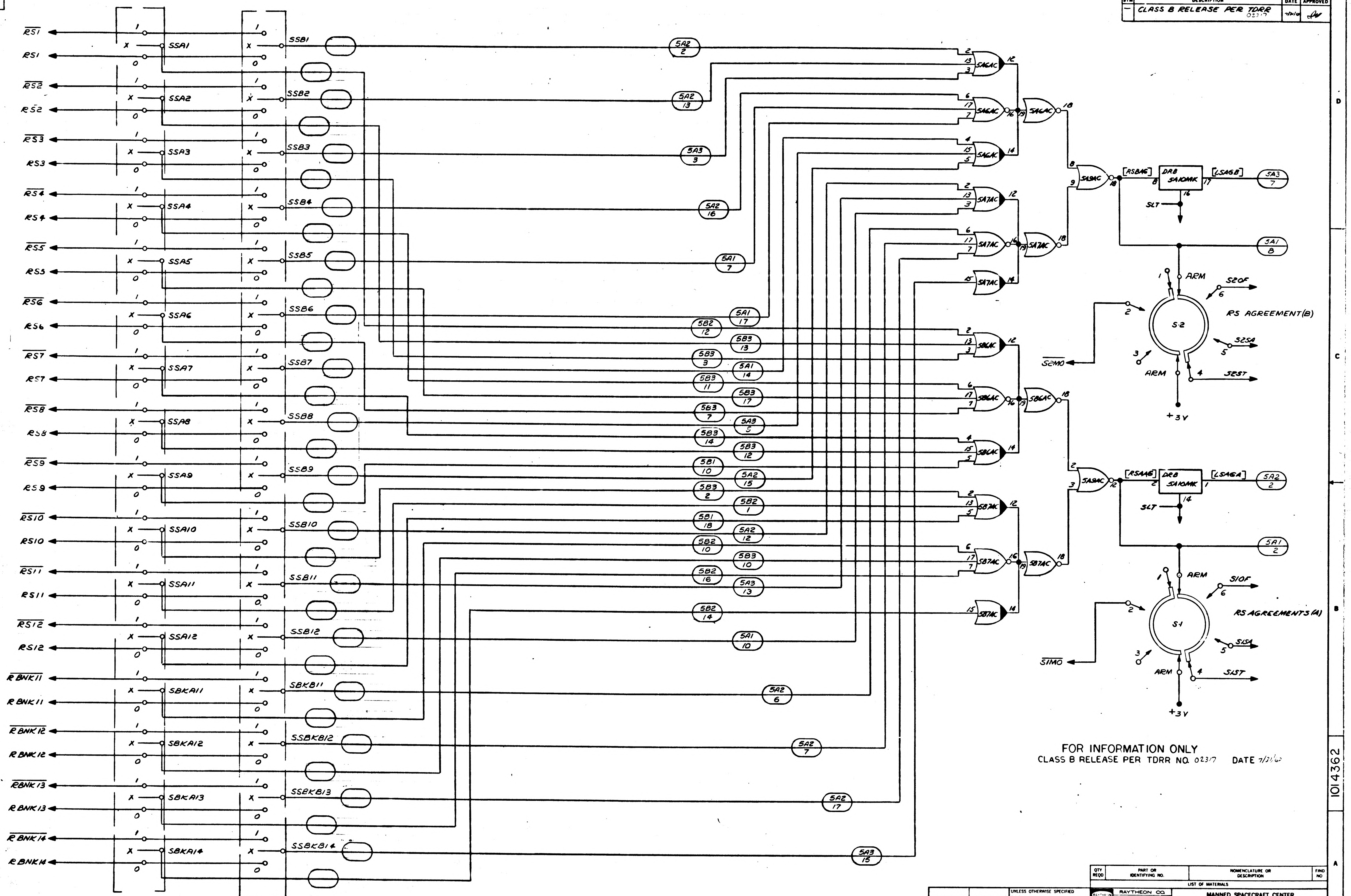
CODE IDENT NO. — SIZE J
SCALE NONE WT

1014361

INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASE PER TDRR 02317	7/31/63	



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SSB3
SSB4
SSB5
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SSBKB13
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SA9AC
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S2SA
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S1ST
S1MO
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S-1
+3V

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CLASS B RELEASE PER TDRR NO. 02317 DATE 7/31/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
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NASA APPROVAL
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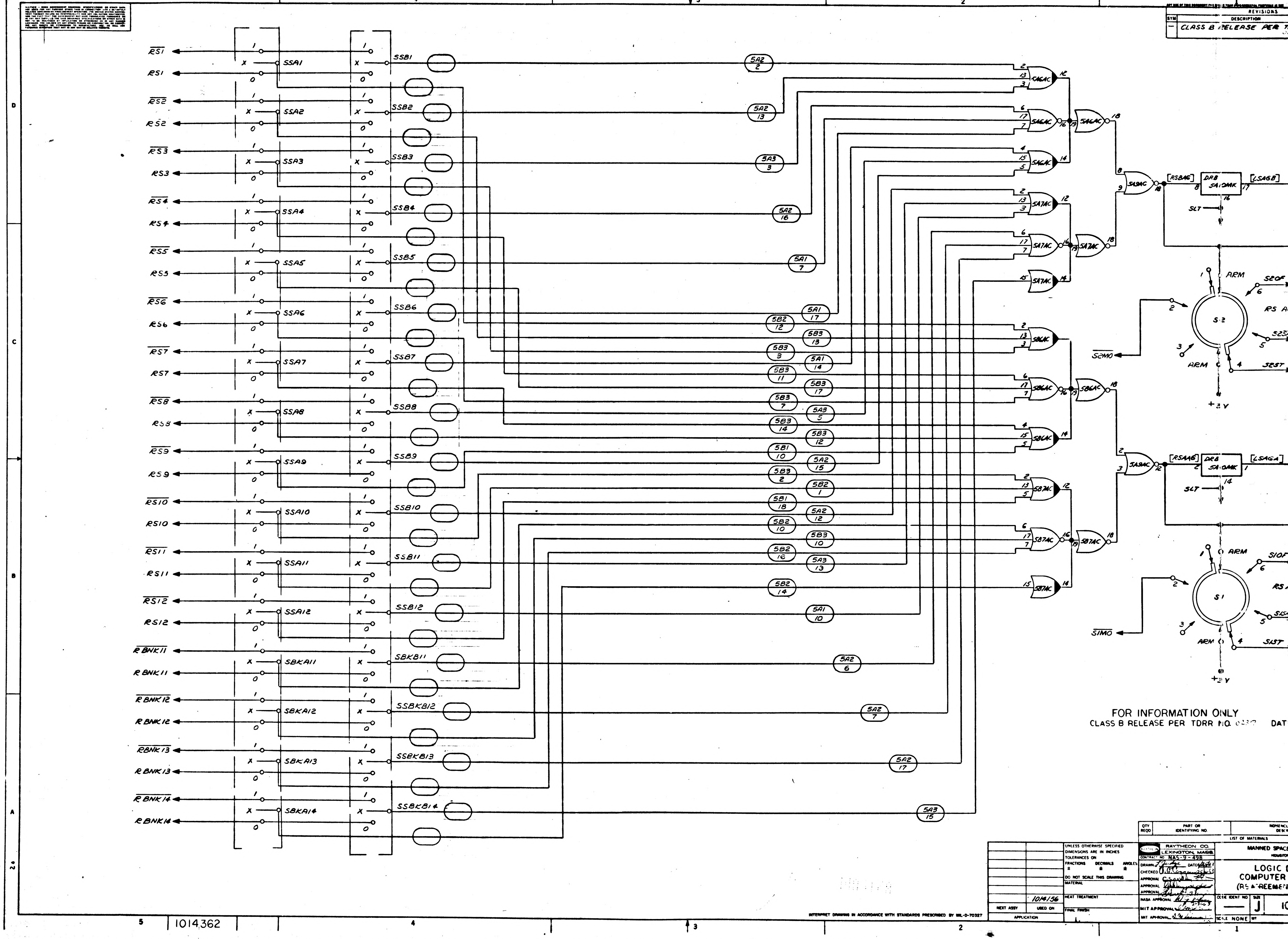
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM COMPUTER TEST SET (RS AGREEMENT A AND B) LD2

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014362
SCALE NONE
WT
SHEET 1 OF 1

1014362

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327



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5A2 2
5A2 13
5A3 3
5A2 16
5A1 7
5A1 17
5B2 12
5B3 13
5B3 3
5A1 14
5B3 11
5B3 17
5B3 7
5A3 5
5B3 14
5B3 12
5B1 10
5A2 15
5B3 2
5B2 1
5B1 18
5A2 12
5B2 10
5B3 10
5B2 16
5A3 13
5B2 14
5A1 10
5A2 6
5A2 7
5A2 17
5A3 15
5A6AC
5A7AC
5A8AC
5B6AC
5B7AC
5A9AC
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FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 0237 DAT

REVISIONS

SYM	DESCRIPTION
—	CLASS B RELEASE PER T

QTY REQD	PART OR IDENTIFYING NO.	NOMENCL DESCR

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

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APPLICATION

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HOUSTON

LOGIC
COMPUTER
(RS AGREEMENT

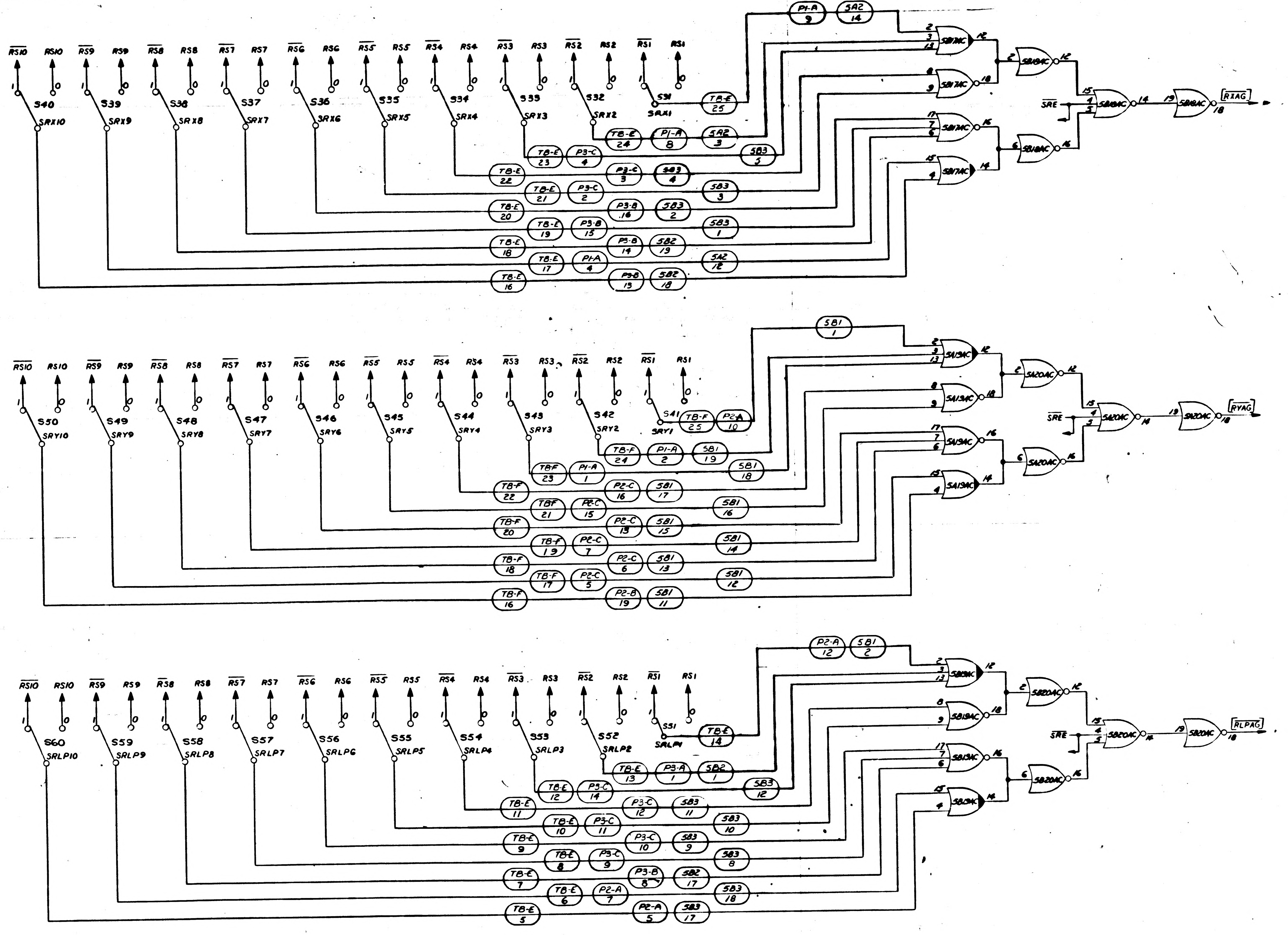
CODE IDENT NO — SIZE J 10
SCALE NONE WT

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014362

1014363

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5434 Drawn CHK APPD		JHS
B	CLASS III CHANGE PER TDRR 06757 R CHK APPD	3-	



RS10 RS10 RS9 RS9 RS8 RS8 RS7 RS7 RS6 RS6 RS5 RS5 RS4 RS4 RS3 RS3 RS2 RS2 RS1 RS1
S40 SRX10
S39 SRX9
S38 SRX8
S37 SRX7
S36 SRX6
S35 SRX5
S34 SRX4
S33 SRX3
S32 SRX2
S31 SRX1
P1-A 9
SA2 14
TB-E 25
TB-E 24
P1-A 8
SA2 3
SB3 5
TB-E 23
P3-C 4
TB-E 22
P3-C 3
SB3 4
TB-E 21
P3-C 2
SB3 3
TB-E 20
P3-B 16
SB3 2
TB-E 19
P3-B 15
SB3 1
TB-E 18
P3-B 14
SB2 19
TB-E 17
P1-A 4
SA2 12
TB-E 16
P3-B 13
SB2 18
5B17AC
5B18AC
SRE
RXAG
S50 SRY10
S49 SRY9
S48 SRY8
S47 SRY7
S46 SRY6
S45 SRY5
S44 SRY4
S43 SRY3
S42 SRY2
S41 SRY1
SB1 1
TB-F 25
P2-A 10
TB-F 24
P1-A 2
SB1 19
TB-F 23
P1-A 1
SB1 18
TB-F 22
P2-C 16
SB1 17
TB-F 21
P2-C 15
SB1 16
TB-F 20
P2-C 13
SB1 15
TB-F 19
P2-C 7
SB1 14
TB-F 18
P2-C 6
SB1 13
TB-F 17
P2-C 5
SB1 12
TB-F 16
P2-B 19
SB1 11
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5A20AC
SRE
RYAG
S60 SRLP10
S59 SRLP9
S58 SRLP8
S57 SRLP7
S56 SRLP6
S55 SRLP5
S54 SRLP4
S53 SRLP3
S52 SRLP2
S51 SRLP1
P2-A 12
SB1 2
TB-E 14
TB-E 13
P3-A 1
SB2 1
TB-E 12
P3-C 14
SB3 12
TB-E 11
P3-C 12
SB3 11
TB-E 10
P3-C 11
SB3 10
TB-E 9
P3-C 10
SB3 9
TB-E 8
P3-C 9
SB3 8
TB-E 7
P3-B 8
SB2 17
TB-E 6
P2-A 7
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RLPAG

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CLASS B RELEASE PER TDRR NO. 02172 DATE 7/24/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014164	1014136
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HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RECORD MODE COMPARISON)
(AX RY RLF)
LD1

CODE IDENT NO. — SIZE J NASA DRAWING NO. 1014363
SCALE WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014363

1014363

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SYM	DESCRIPTION	DATE	APPROVED
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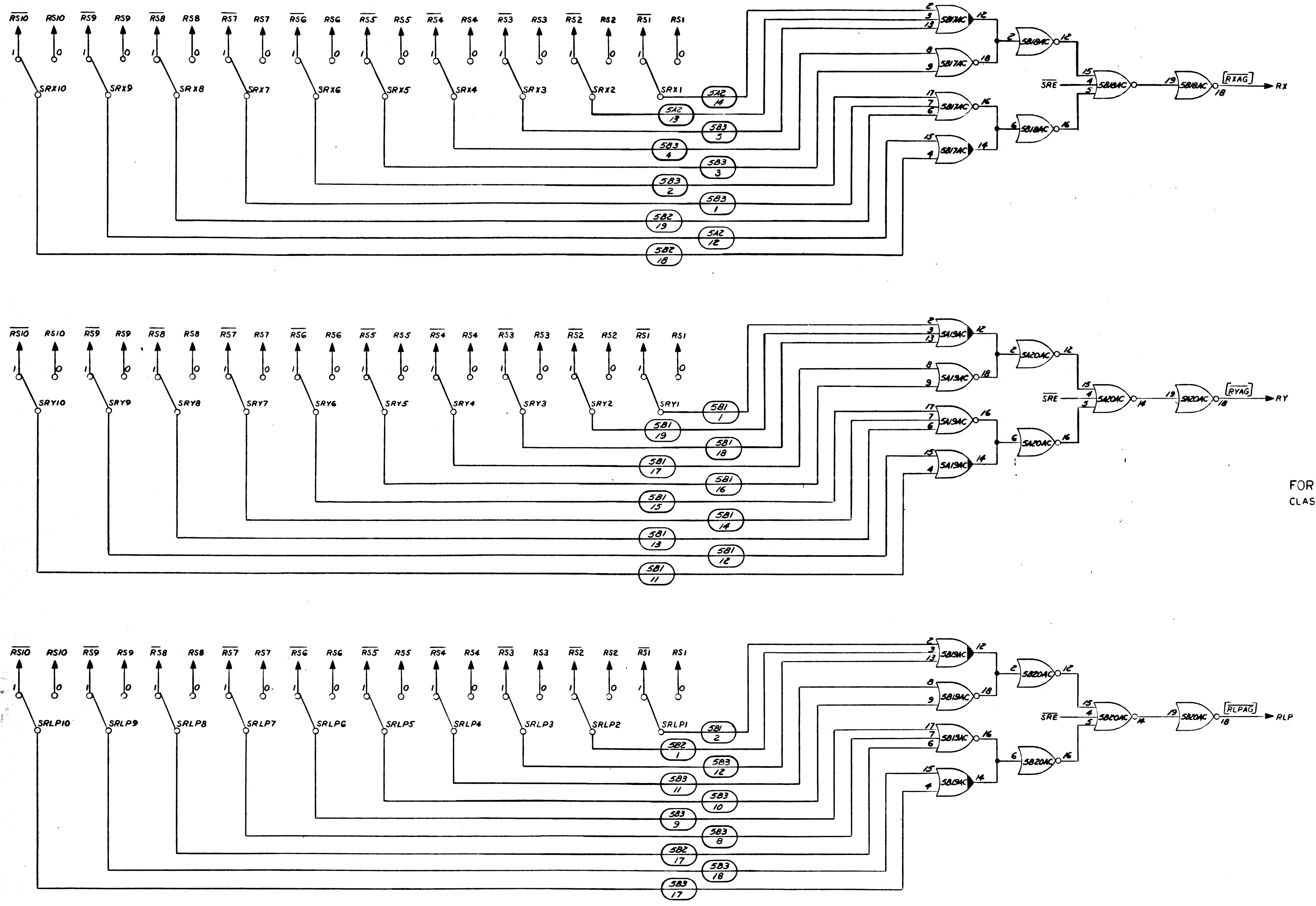

$\overline{RS10}$ RS10 $\overline{RS9}$ RS9 $\overline{RS8}$ RS8 $\overline{RS7}$ RS7 $\overline{RS6}$ RS6 $\overline{RS5}$ RS5 $\overline{RS4}$ RS4 $\overline{RS3}$ RS3 $\overline{RS2}$ RS2 $\overline{RS1}$ RS1
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SRX10 SRX9 SRX8 SRX7 SRX6 SRX5 SRX4 SRX3 SRX2 SRX1
5A2 14
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5B3 4
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RX
SRY10 SRY9 SRY8 SRY7 SRY6 SRY5 SRY4 SRY3 SRY2 SRY1
5B1 1
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5A19AC
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5B1 2
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5B3 8
5B2 17
5B3 18
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CLASS B RELEASE PER TDRR NO. 02172 DATE 7/24/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(RECORD MODE COMPARISON)
(RX RY RLP)
LD1

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014363
SCALE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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SYM	DESCRIPTION
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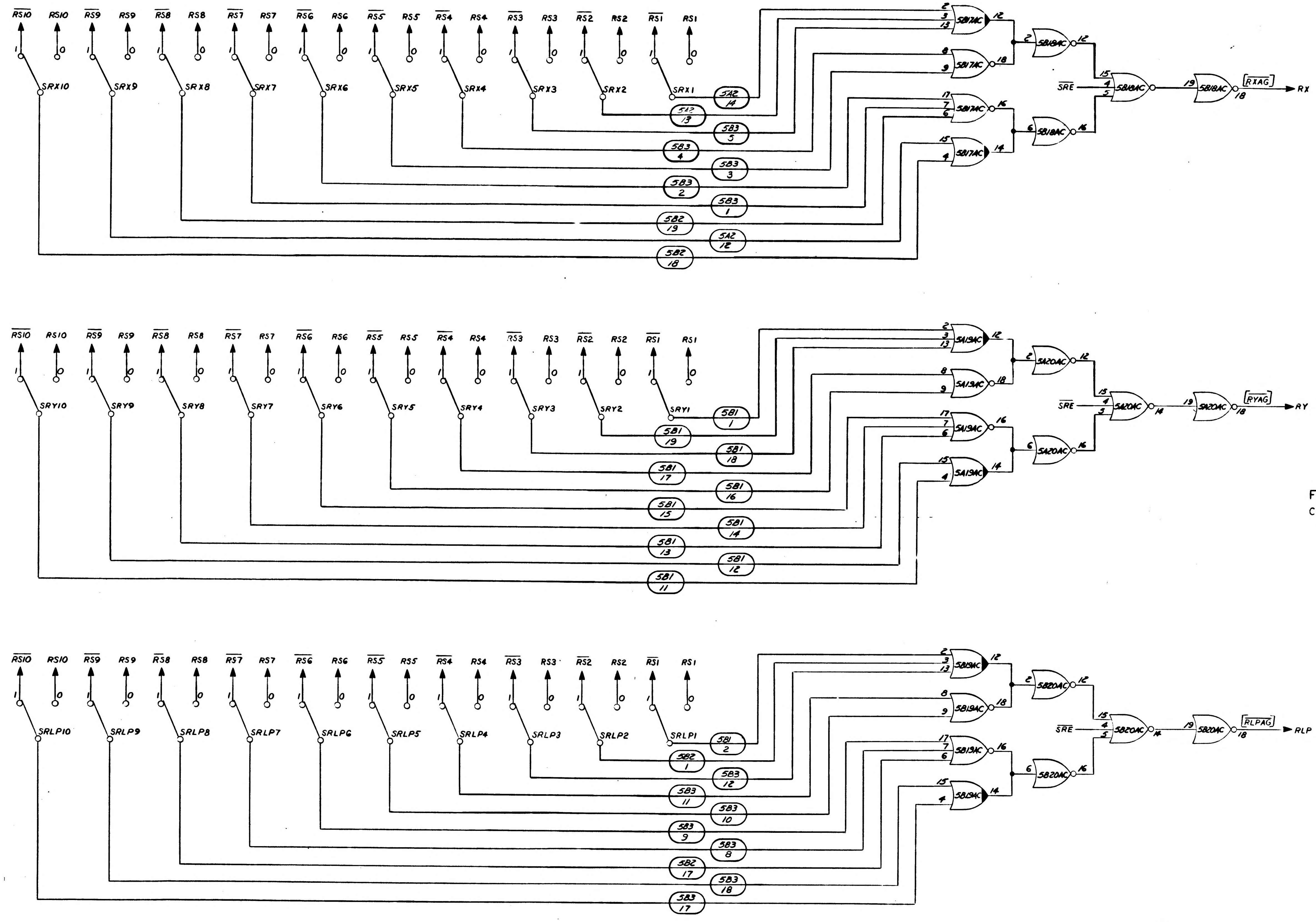

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5B1 12
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CODE IDENT NO —
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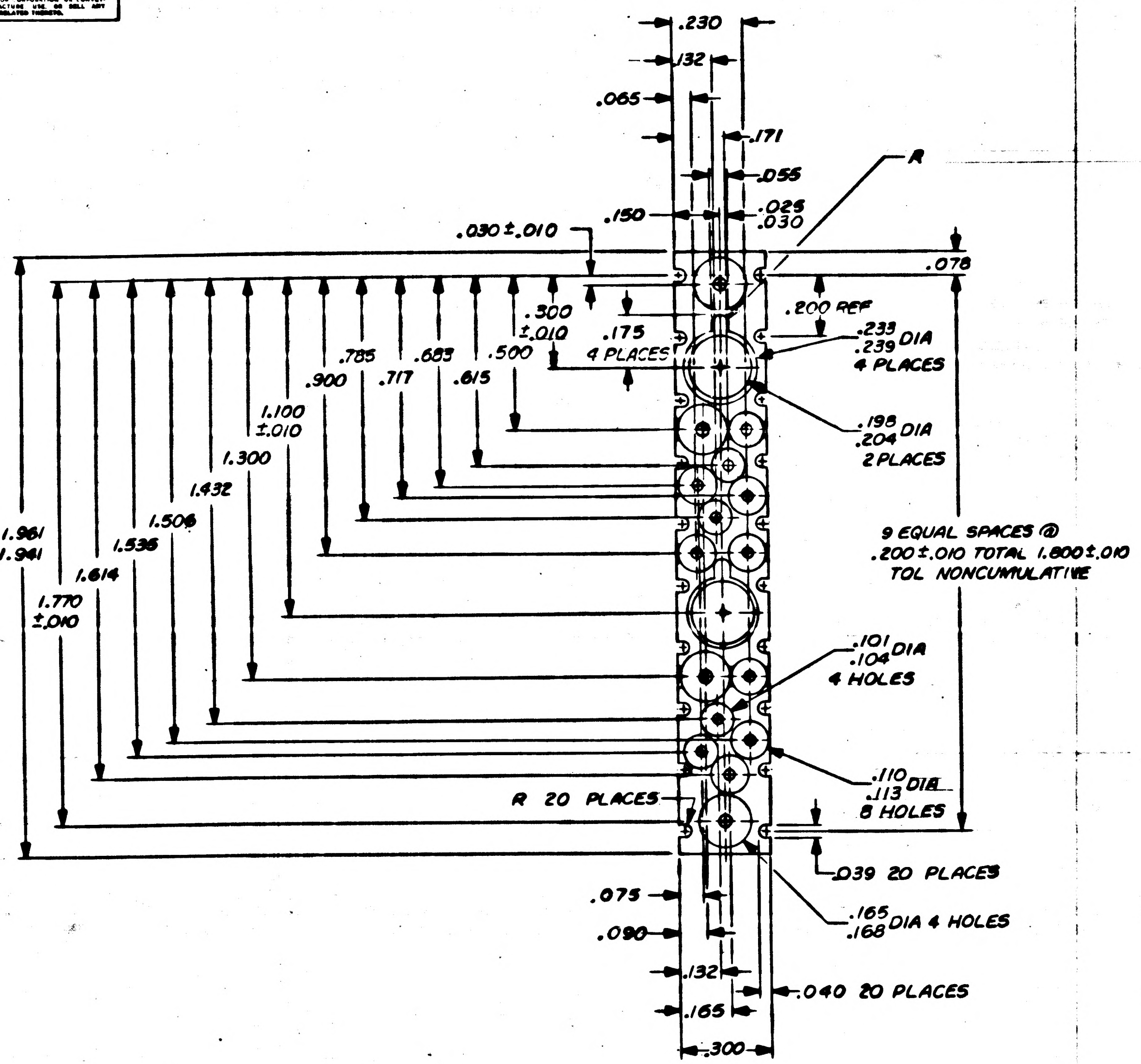
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO.		
A	CLASS II CHANGE PER RD-R5639A DR J.P. Leonard CHK J.P. Fagin APPD	1-8-64	
B	CHANGED PER TDRR 07653 DR P. Wingfield CHK APPD	9 APR 64	HCO



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.198
.204 DIA
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1.506
1.536
1.614
1.961
1.941
1.770
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.101
.104 DIA
4 HOLES
.110
.113 DIA
8 HOLES
R 20 PLACES
.039 20 PLACES
.075
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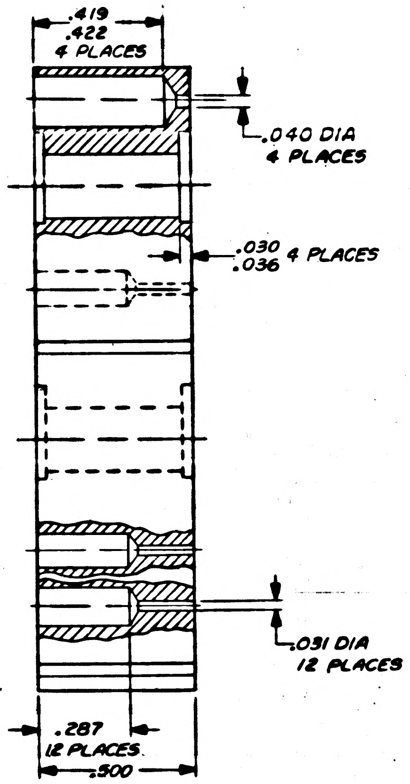
.165
.168 DIA 4 HOLES
.132
.165
.040 20 PLACES
.300



.419
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4 PLACES
.040 DIA
4 PLACES
.030
.036 4 PLACES
.031 DIA
12 PLACES
.287
12 PLACES
.500

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03131 DATE 26 Sep 63

NOTES
1. MATERIAL: COMPOUND, PLASTIC PER MIL-P-20693 TYPE III, 20% GLASS REINFORCED
2. HOLE TO HOLE & HOLE TO OUTER WALL BREAK THRU PERMITTED PROVIDED HOLE DIA IS NOT REDUCED BELOW LOWER LIMITS OF TOLERANCE.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014096	

APPLICATION

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DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 1
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 9-23-63
CHECKED P. Blumberg
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HOUSING, DRIVER
MODULE

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014365
SCALE 4/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014365

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SYM	DESCRIPTION	DATE	APPROVED
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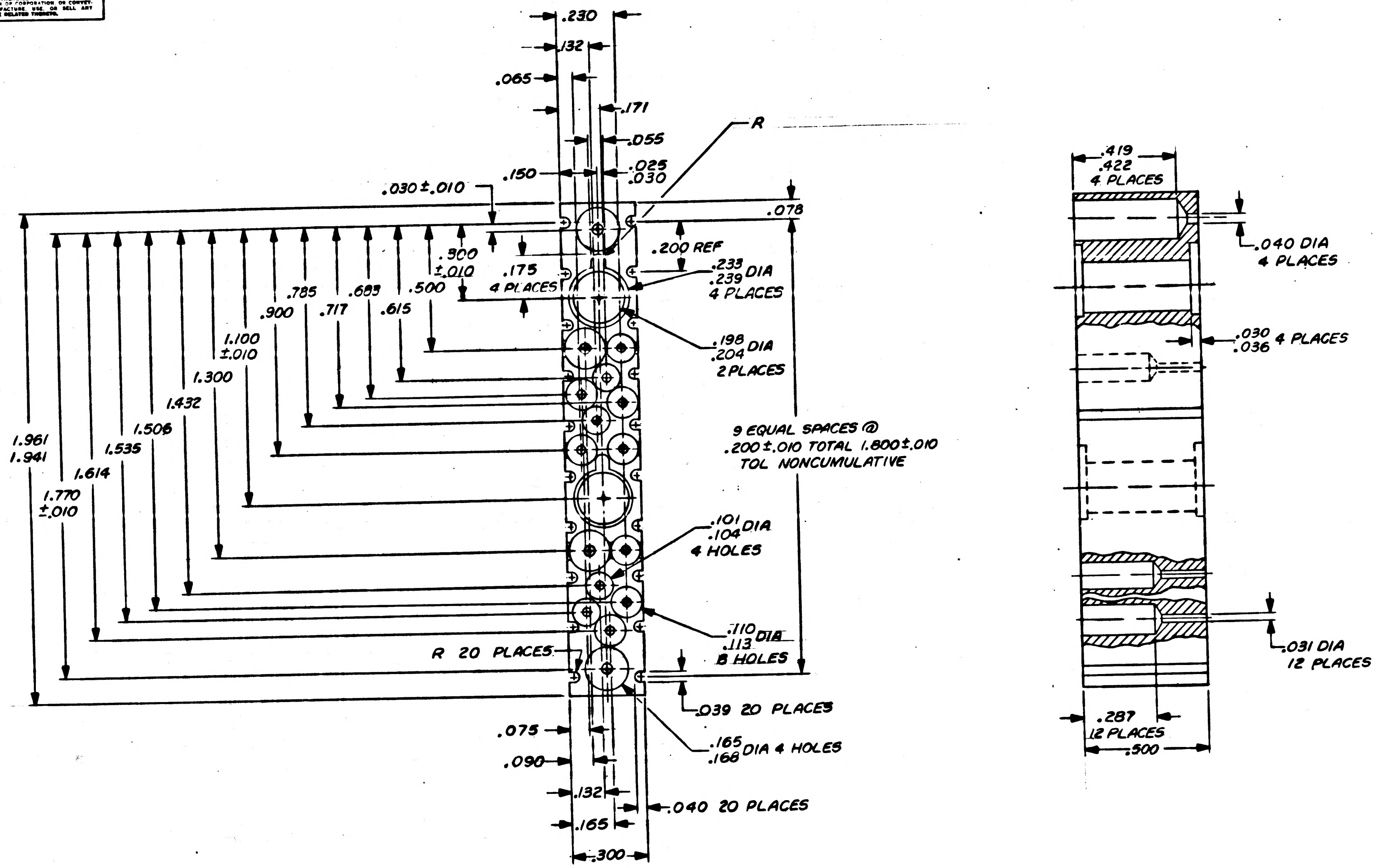

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.030 ±.010
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.200 REF
.300 ±.010
.175 4 PLACES
.233 .239 DIA 4 PLACES
.785
.683
.500
.900
.717
.615
.198 .204 DIA 2 PLACES
1.100 ±.010
1.300
1.432
1.506
1.535
1.614
1.961 1.941
1.770 ±.010
9 EQUAL SPACES @ .200 ±.010 TOTAL 1.800 ±.010 TOL NONCUMULATIVE
.101 .104 DIA 4 HOLES
.110 .113 DIA 8 HOLES
R 20 PLACES
.039 20 PLACES
.075
.090
.165 .168 DIA 4 HOLES
.132
.165
.040 20 PLACES
.300
.419 .422 4 PLACES
.040 DIA 4 PLACES
.030 .036 4 PLACES
.031 DIA 12 PLACES
.287 12 PLACES
.500

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CLASS B RELEASE TDRR NO. 03431 DATE 26 Sep 63

NOTES
1. MATERIAL: CLEAR NYLON PER MIL-M-20693 TYPE IV
2. HOLE BREAK THRU IS PERMISSIBLE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

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MATERIAL SEE NOTE 1
HEAT TREATMENT
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RAYTHEON CO.
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CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 8-23-63
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APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HOUSING, DRIVER MODULE

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014365
SCALE 4/1
WT
SHEET 1 OF 1

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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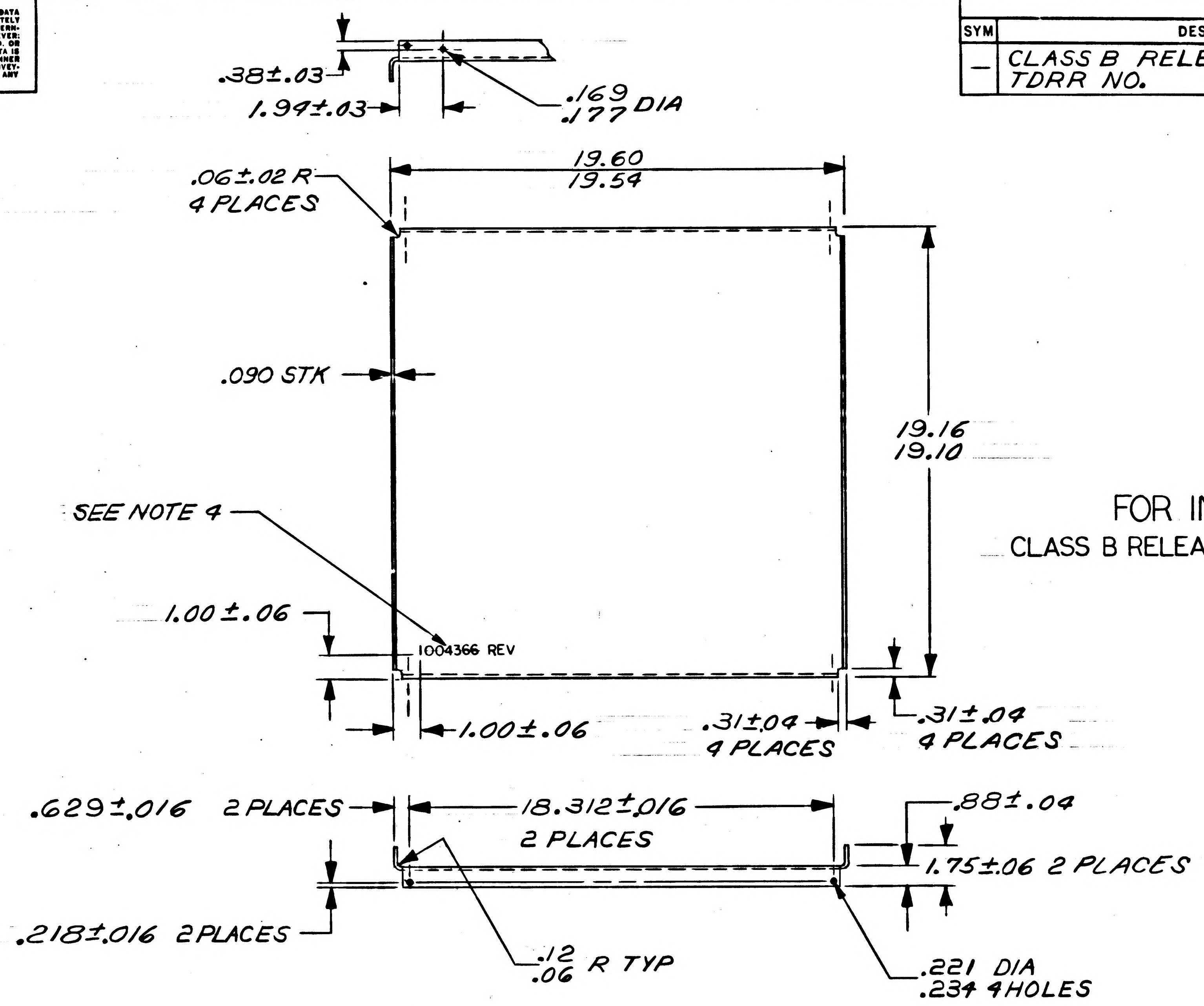
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO.		


.38±.03
1.94±.03
.169
.177 DIA
.06±.02 R
4 PLACES
19.60
19.54
.090 STK
19.16
19.10
SEE NOTE 4
1.00±.06
1004366 REV
1.00±.06
.31±.04
4 PLACES
.31±.04
4 PLACES
.629±.016 2 PLACES
18.312±.016
2 PLACES
.88±.04
1.75±.06 2 PLACES
.218±.016 2 PLACES
.12
.06 R TYP
.221 DIA
.234 4 HOLES

FOR INFORMATION ONLY

CLASS B RELEASED PER TDRR NO. 02693 DATE 21 Aug 63

NOTES

1. MATL AL 5052-H32 PER QQ-A-318, TEMP H32
2. REMOVE BURRS AND SHARP EDGES
3. CHROMATE FILM PER MIL-C-5541, EXCEPT TO BE ELECTRICALLY CONDUCTIVE
4. MARK .12 HIGH BLACK CHARACTERS PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN L. [illegible] DATE 4 JUN 63
CHECKED H. Perrone 5 AUG 63
APPROVAL [illegible] SPK
APPROVAL [illegible] 8/13/63
APPROVAL J. [illegible]
NASA APPROVAL [illegible] 8/21/63
MIT APPROVAL L. Gediman 8/20/63
MIT APPROVAL [illegible] 8/21/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, BAFFLE
COMPUTER TEST SET

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014366
SCALE 1/4
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

INCHES
0 1 2
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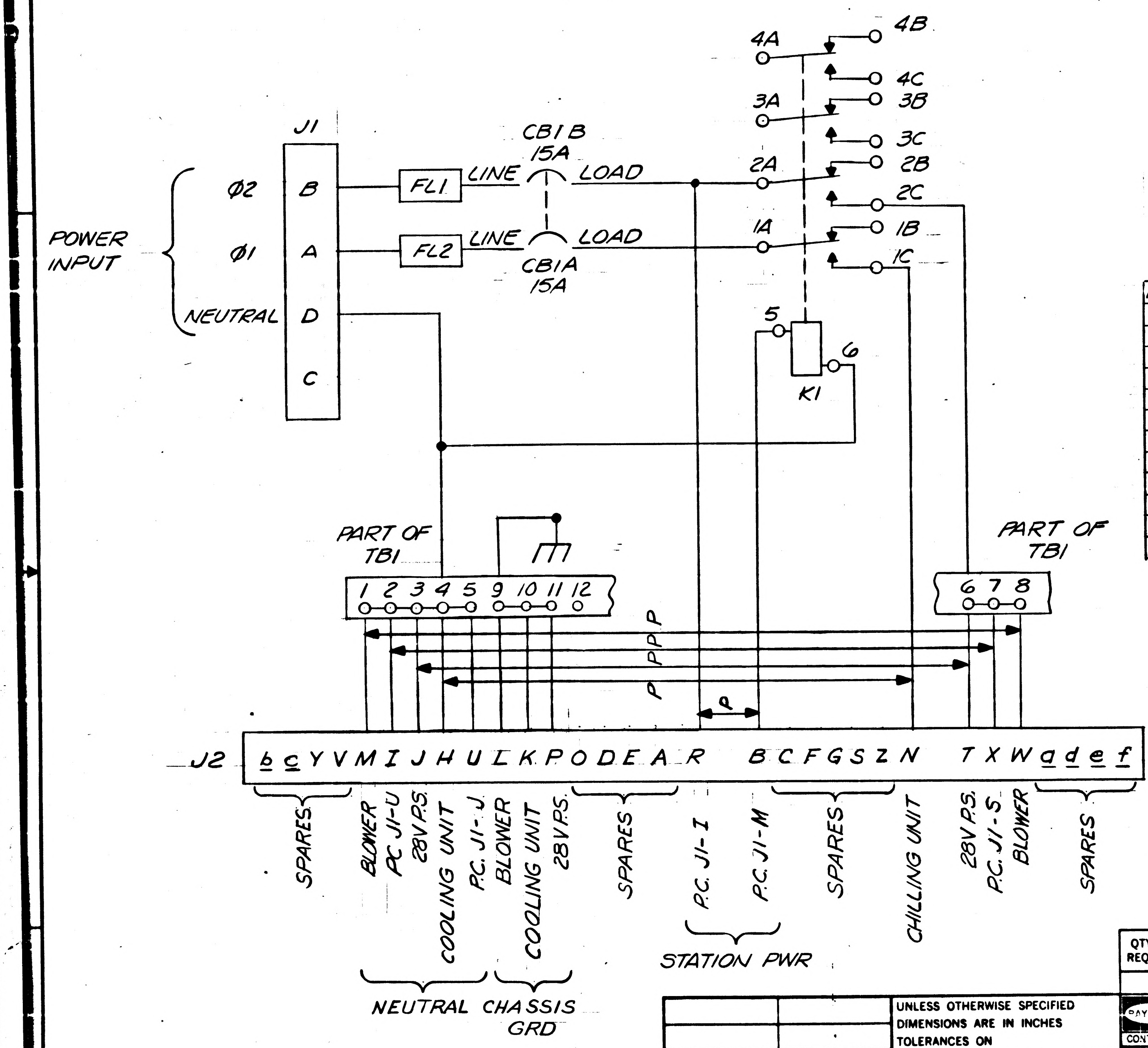
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLB RELEASED PER TDRR		


J1
CB1 B
15A
LINE
LOAD
FL1
FL2
CB1A
15A
POWER INPUT
Ø2
Ø1
NEUTRAL
B
A
D
C
4A
4B
4C
3A
3B
3C
2A
2B
2C
1A
1B
1C
5
6
K1
PART OF TB1
1 2 3 4 5 9 10 11 12
6 7 8
P
P
P
P
P
J2
b c Y V M I J H U L K P O D E A R B C F G S Z N T X W a d e f
SPARES
BLOWER
P.C. J1-U
28V P.S.
COOLING UNIT
P.C. J1-J
BLOWER
COOLING UNIT
28V P.S.
SPARES
P.C. J1-I
P.C. J1-M
SPARES
CHILLING UNIT
28V P.S.
P.C. J1-S
BLOWER
SPARES
STATION PWR
NEUTRAL
CHASSIS GRD

REF DES	PART NO.	DESCRIPTION	VALUE	TOL	RATING
J1	MS3102A-22-22P	CONN			
J2	MS3102A-36-9S	CONN			
K1	1006926	RELAY			
CB1	1006957-18	CKT BKR			
FL1	1006654	LINE FILTER			
FL2	1006654	LINE FILTER			
TB1	MS25123-1-12	TERM. BD			

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 04397 DATE 11/5/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014416	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN David Conley DATE 17 June 63
CHECKED A. Caggiano 7 Oct 63
APPROVAL H. Morse JPK 28 OCT 63
APPROVAL [illegible] 28 OCT 63
APPROVAL [illegible]
NASA APPROVAL [illegible] 11-5-63
MIT APPROVAL [illegible] 5 Nov 63
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ELECTRICAL SCHEMATIC
AC INPUT PANEL
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014368
SCALE NONE
WT
SHEET 1 OF 1

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
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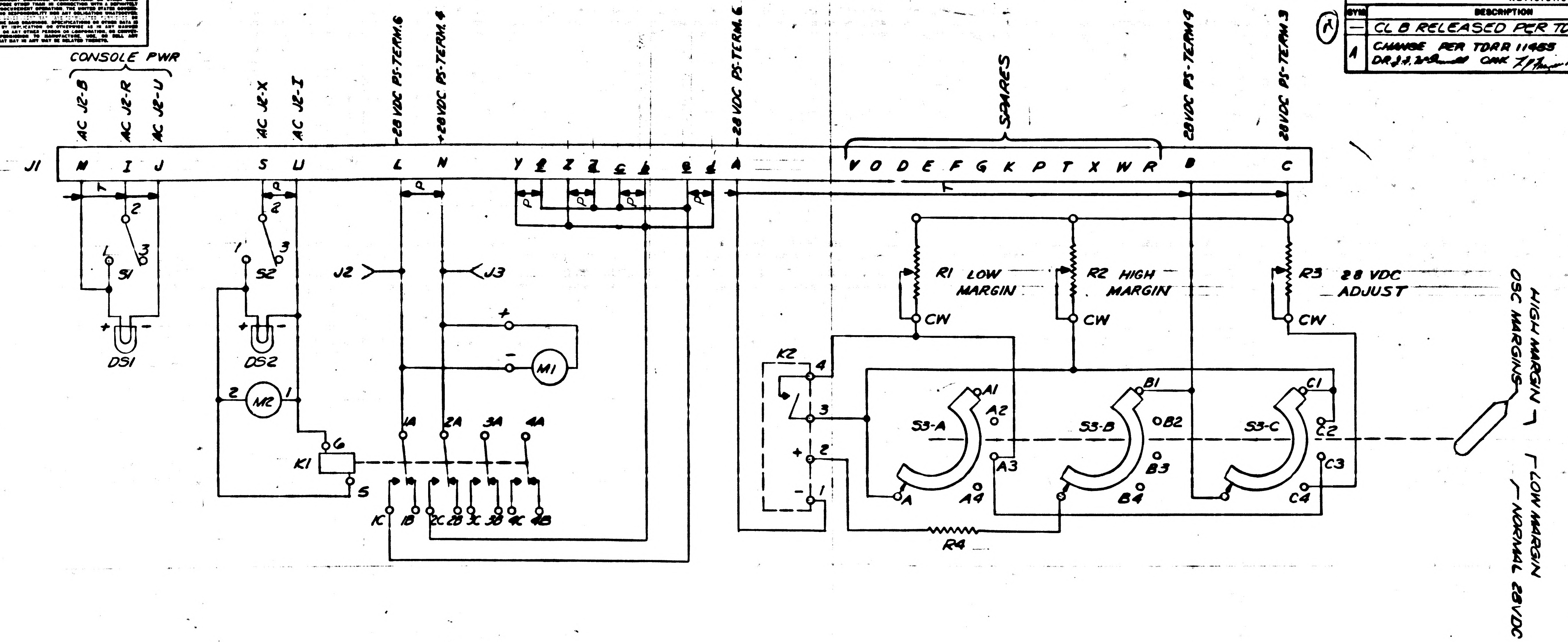
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGE PER TDRR 11465 DR J.J. [illegible] CHK [illegible] APPD [illegible]	13 Aug 64	KCS


CONSOLE PWR
AC J2-B
AC J2-R
AC J2-U
AC J2-X
AC J2-I
28 VDC PS-TERM 6
28 VDC PS-TERM 4
28 VDC PS-TERM 6
SPARES
28 VDC PS-TERM 9
28 VDC PS-TERM 3
J1
M I J S U L N Y Z A V O D E F G K P T X W R B C
T
P
S1
S2
DS1
DS2
J2
J3
M1
M2
K1
K2
1A 2A 3A 4A
1C 1B 2C 2B 3C 3B 4C 4B
R1 LOW MARGIN
R2 HIGH MARGIN
R3 28 VDC ADJUST
CW
S3-A
S3-B
S3-C
A1 A2 A3 A4
B1 B2 B3 B4
C1 C2 C3 C4
R4
HIGH MARGIN
OSC MARGINS
LOW MARGIN
NORMAL 28VDC

REF DES.	PART NO	DESCRIPTION	VALUE	TOL	RATING
J1	MS3102A-36-9P	CONN			
M1	1006655	METER			
M2	1006927	METER			
S1	MS35058-22	SWITCH, TOGGLE			
S2	MS35058-22	SWITCH, TOGGLE			
S3	1006653	SWITCH, ROTARY			
DS1	1006905	LIGHT			
DS2	1006905	LIGHT			
K1	1006926	RELAY			
K2	1006652	RELAY			
R1	RV4NAYSD202A	RES, POT	2K	±10%	2W
R2	RV4NAYSD202A	RES, POT	2K	±10%	2W
R3	RV4NAYSD202A	RES, POT	2K	±10%	2W
R4	MS35043-65	RESISTOR	120Ω	±5%	1/2W
J2	MS16108-2A	JACK, TIP			
J3	MS16108-3A	JACK, TIP			

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 04397 DATE 4/5/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014388	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE [illegible]
CHECKED [illegible] 2 Oct 63
APPROVAL [illegible] APP 28 OCT 63
APPROVAL [illegible] 28 OCT 63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 11/5/63
MIT APPROVAL [illegible] 11/5/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ELECTRICAL SCHEMATIC
POWER CONTROL PANEL
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —— SIZE D NASA DRAWING NO. 1014369
SCALE NONE WT SHEET 1 OF 1

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TORR		

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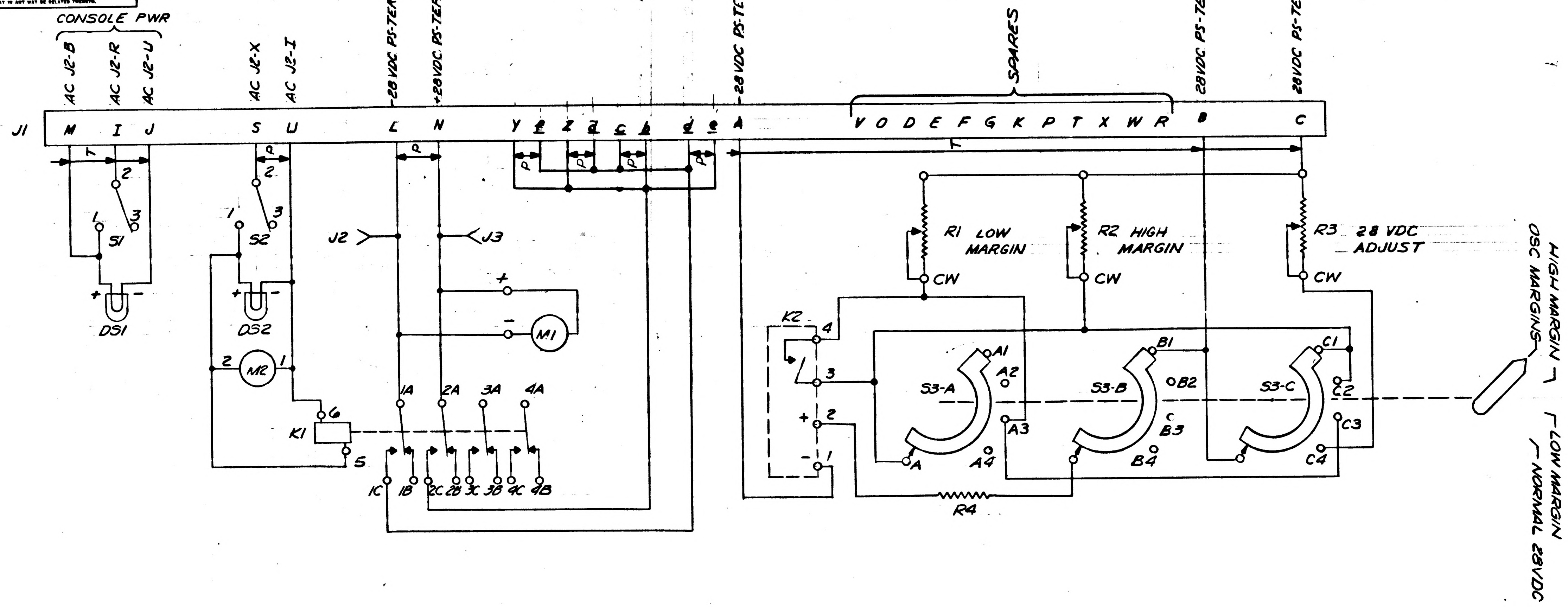

CONSOLE PWR
AC J2-B
AC J2-R
AC J2-U
AC J2-X
AC J2-I
-28 VDC PS-TERM.6
+28 VDC PS-TERM.4
-28 VDC PS-TERM.6
SPARES
28 VDC PS-TERM.4
28 VDC PS-TERM.3
J1
M I J S U L N Y f Z a c b d e A V O D E F G K P T X W R B C
T
P
2
1
3
S1
S2
DS1
DS2
J2
J3
M1
M2
+
-
K1
6
5
1A 2A 3A 4A
1C 1B 2C 2B 3C 3B 4C 4B
R1 LOW MARGIN
R2 HIGH MARGIN
R3 28 VDC ADJUST
CW
K2
4
3
2
1
S3-A
S3-B
S3-C
A1 A2 A3 A4 A
B1 B2 B3 B4 B
C1 C2 C3 C4 C
R4
OSC MARGINS
HIGH MARGIN
LOW MARGIN
NORMAL 28VDC

REF DES.	PART NO	DESCRIPTION	VALUE	TOL	RATING
J1	MS3102A-36-9P	CONN			
M1	1006655	METER			
M2	1006927	METER			
S1	MS35058-22	SWITCH, TOGGLE			
S2	MS35058-22	SWITCH, TOGGLE			
S3	1006653	SWITCH, ROTARY			
DS1	1006905	LIGHT			
DS2	1006905	LIGHT			
K1	1006926	RELAY			
K2	1006652	RELAY			
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R2	RV4NAYSD202A	RES, POT	2K	±10%	2W
R3	RV4NAYSD202A	RES, POT	2K	±10%	2W
R4	MS35043-65	RESISTOR	120Ω	±5%	1/2W
J2	MS16108-2A	JACK, TIP			
J3	MS16108-3A	JACK, TIP			

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 04397 DATE 11/5/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014388	1014465
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS. 9-498
DRAWN DATE 17 June 63
CHECKED 2 Oct 63
APPROVAL H. M... 28 OCT 63
APPROVAL 28 Oct 63
APPROVAL
NASA APPROVAL
MIT APPROVAL 5 Nov 63
MIT APPROVAL 11/5/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ELECTRICAL SCHEMATIC
POWER CONTROL PANEL
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014369
SCALE NONE
WT
SHEET 1 OF 1

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES 0 1 2
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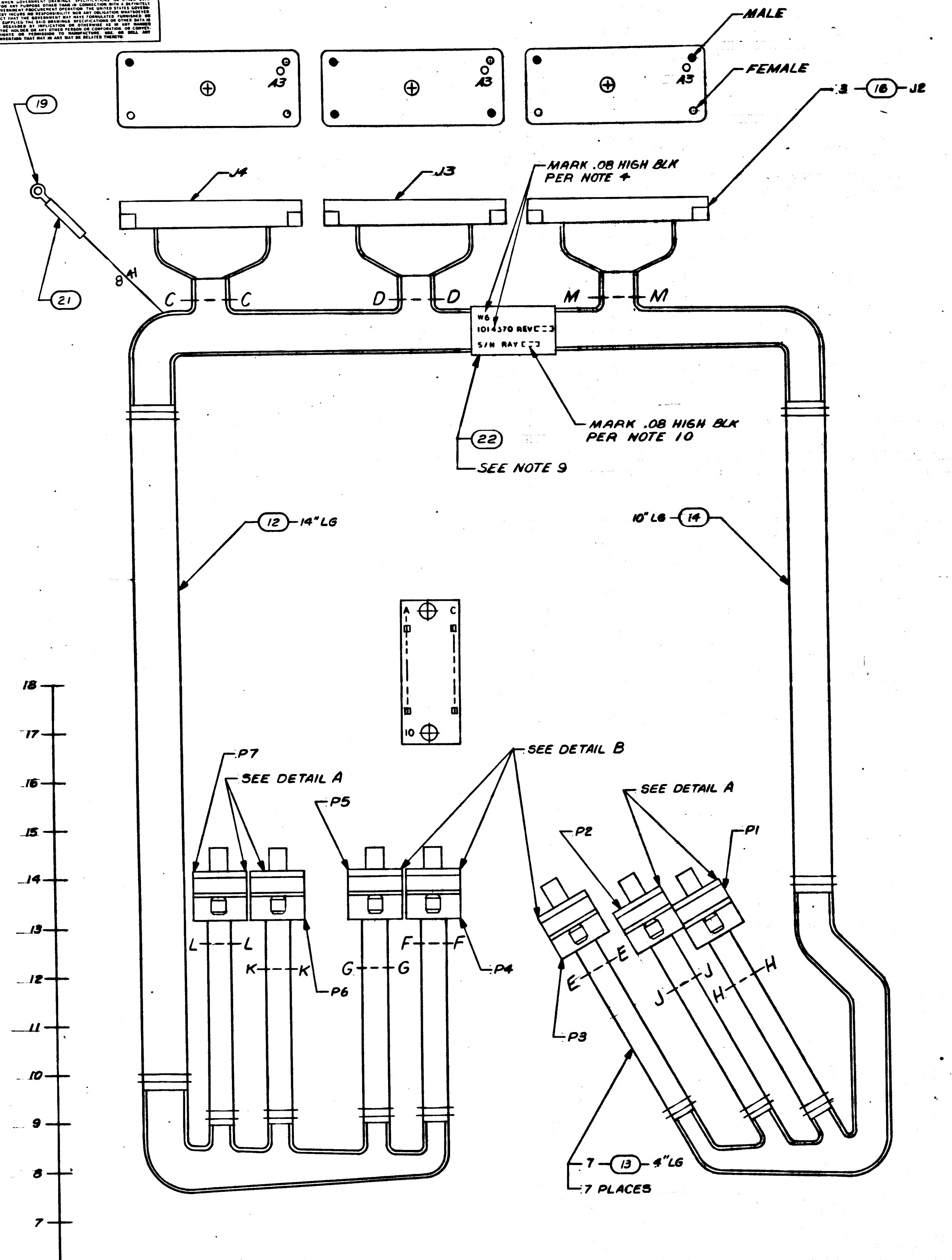
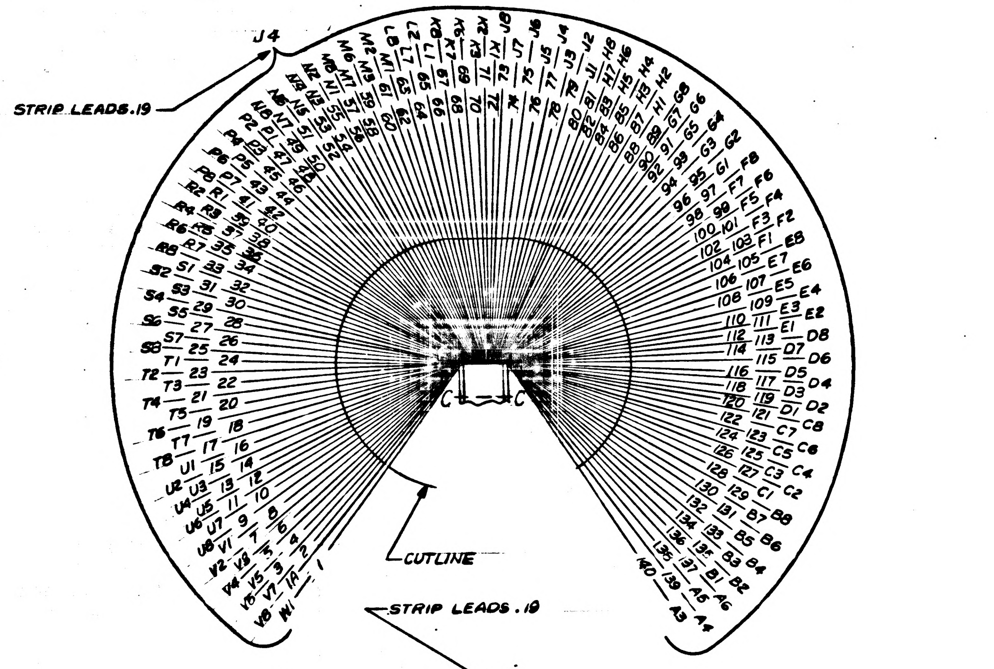
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R 5484A C. LaCost CHK W.J. Jefford APPD	11 NOV 63	JJS
B	CHANGE PER TDRR NO. 06039 DR R.D. CHK A. Coppins APPD	18 FEB	

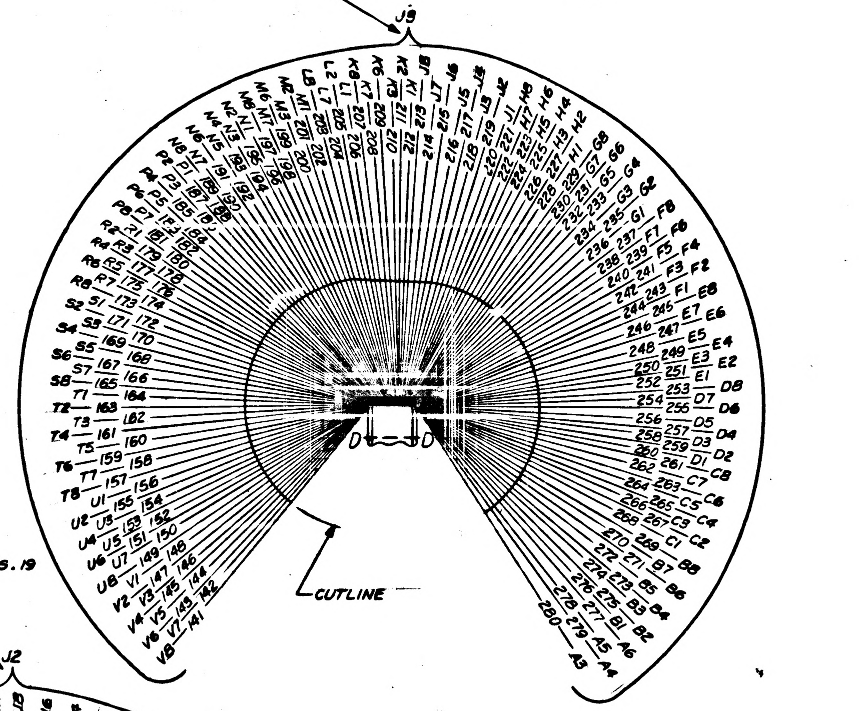
1014370


MALE
FEMALE
A3
J4
J3
3 (18) J2
(19)
(21)
8 AH
MARK .08 HIGH BLK PER NOTE 4
W6
1014370 REV
S/N RAY
MARK .08 HIGH BLK PER NOTE 10
(22)
SEE NOTE 9
C
D
M
(12) 14" LG
10" LG (14)
P7
SEE DETAIL A
P5
SEE DETAIL B
P2
SEE DETAIL A
P1
L
K
P6
G
F
P4
E
J
H
P3
7 (13) 4" LG
7 PLACES
18
17
16
15
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0

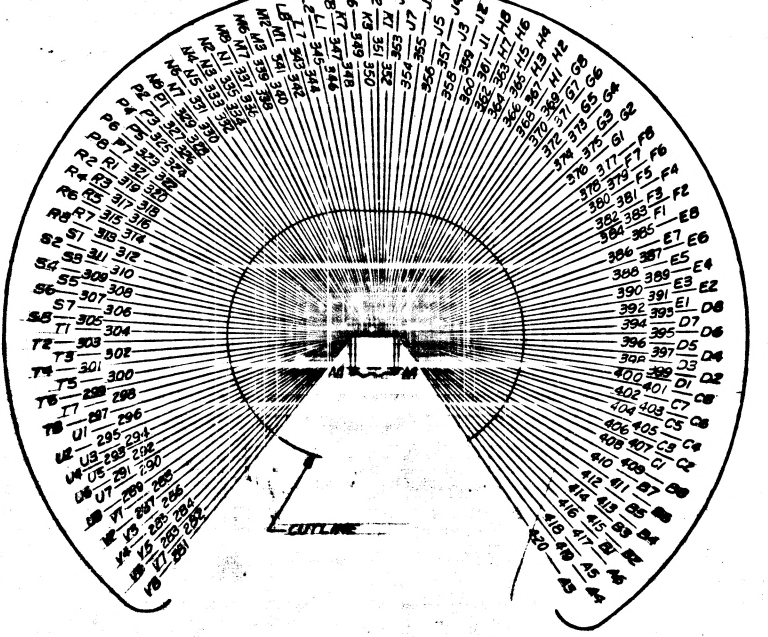
NOTES

1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1014047
3. FILL WITH FIND NO. 18 PER ND 1002009 METHOD E
4. MARK PER ND1002019
5. MIL-I-631 TYPE F, FOAM U_2 GRADE & CLASS I, CATEGORY I FOR FIND NO. 12 AWG 1 IN. FOR FIND NO. 13 AWG 5/8. FOR FIND NO. 14 AWG 7/8
6. NUMBERS PRECEDING BALLOON DENOTES QUANTITY
7. MIL-W-16878/4, TYPE E22 WHITE, E22 BLACK
8. INSTALL FIND NO. 15, OUTSIDE ROWS ON P3, P4, AND P5
9. BOND FIND NO. 22 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
10. MARK SER NO. PER ND 1002023
11. POTTING TO BE $^{+.005}_{-.015}$ FROM SURFACES OF FIND NO. 2


J4
STRIP LEADS.19
C
CUTLINE


STRIP LEADS.19
J3
D
CUTLINE

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02410 DATE 4-5-63


STRIP LEADS.19
J2
CUTLINE

B	B	B	B	B
A	A	—	A	
—	—	—	—	
SH 1	SH 2	SH 3	SH 4	SH 5

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1014472-3	BAND MARKER, CABLE	22
AR	MIL-I-23053-12	SLEEVING	21
AR	SEE NOTE 7	WIRE, ELECTRICAL, BLACK	20
1	MS35430-3	TERMINAL, LUG	19
AR	1006683	COMPOUND, SILICONE RUBBER	18
7	MS39056-6	BUSHING	17
3	1006671	CONNECTOR, RECEPTACLE	16
60	1014310	INSULATOR, CONTACT	15
AR	SEE NOTE 5	SLEEVING	14
AR	SEE NOTE 5	SLEEVING	13
AR	SEE NOTE 5	SLEEVING	12
AR	SEE NOTE 7	WIRE, ELECTRICAL, WHITE	11
120	1006987	INSUL CONTACT ELECT, MALE CRIMP	10
180	1006995-1	CONTACT ELECTRICAL, MALE CRIMP	9
240	1010380	INSULATOR BUSHING, FEMALE	8
240	1010379-1	CONTACT ELECTRICAL, FEMALE	7
14	1014032	RECEPTACLE, INDEXING	6
14	1006997	WASHER, PLAIN, FLAT	5
14	MS35337-79	WASHER, LOCK	4
14	1006998-1	SCREW, CAPTIVE	3
7	1014024-4	BRACKET, ANGLE	2
7	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014370

NEXT ASSY	USED ON
1014125	
1014124	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 6-19-63
CHECKED A. Coppins 23 Jul 63
APPROVAL C. Sperling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W6

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014370
SCALE 1/1
WT
SHEET 1 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
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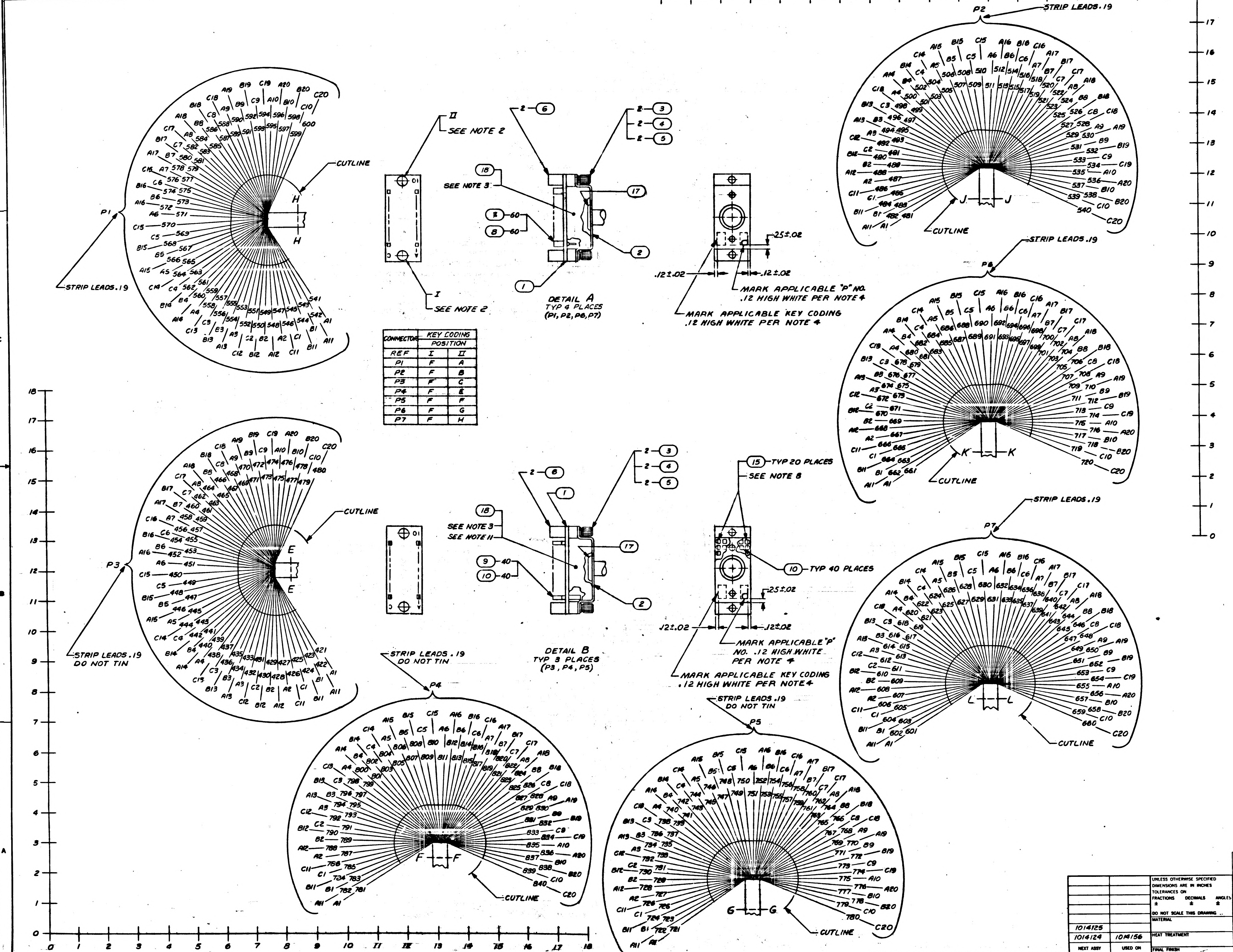
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R 5484A C. LaCost CHK W.J. Gifford APPD	11NOV 63	
B	CHANGED PER TDRR 06039 DR C. LaCost CHK A Coggins APPD	18FEB 64	



P1
P2
P3
P4
P5
P6
P7
CUTLINE
STRIP LEADS .19
STRIP LEADS .19 DO NOT TIN
H — H
J — J
K — K
L — L
E — E
F — F
G — G
A1 B1 C1 A2 B2 C2 … A20 B20 C20
421 … 840
I
II
SEE NOTE 2
SEE NOTE 3
SEE NOTE 11
SEE NOTE 8
1
2
3
4
5
6
7
8
9
10
15
17
18
2-6
2-3
2-4
2-5
7-60
8-60
9-40
10-40
15-TYP 20 PLACES
10-TYP 40 PLACES
DETAIL A
TYP 4 PLACES
(P1, P2, P6, P7)
DETAIL B
TYP 3 PLACES
(P3, P4, P5)
.25±.02
.12±.02
MARK APPLICABLE "P" NO. .12 HIGH WHITE PER NOTE 4
MARK APPLICABLE KEY CODING .12 HIGH WHITE PER NOTE 4
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

CONNECTOR	KEY CODING POSITION	
REF	I	II
P1	F	A
P2	F	B
P3	F	C
P4	F	E
P5	F	F
P6	F	G
P7	F	H

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 0240 DATE 9-5-63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014125	
1014124	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
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FRACTIONS ± DECIMALS ± ANGLES ±
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FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 6-19-63
CHECKED A Coggins 23 Jun 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W6

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014370
SCALE 1/1
WT
SHEET 2 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		
B	CHANGED PER TDRR NO 06039 DR CHK APPD	18 FEB 64	3-2-64

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	WHITE	22	11	776	
	2				770	
	3				764	
	4				758	
	5				752	
	6				746	
	7				740	
	8				734	
	9				728	
	10				722	
	11				775	
	12				769	
	13				763	
	14				757	
	15				751	
	16				745	
	17				739	
	18				733	
	19				727	
	20				721	
	21				720	
	22				714	
	23				708	
	24				702	
	25				696	
	26				690	
	27				684	
	28				678	
	29				672	
	30				666	
	31				719	
	32				713	
	33				707	
	34				701	
	35				695	
	36				689	
	37				683	
	38				677	
	39				671	
	40				665	
	41				718	
	42				712	
	43				706	
	44				700	
	45				694	
	46				688	
	47				682	
	48				676	
	49				670	
	50				664	
	51				717	
	52				711	
	53				705	
	54				699	
	55				693	
	56				687	
	57				681	
	58				675	
	59				669	
	60				663	
	61				716	
	62				710	
	63				704	
	64				698	
	65				692	
	66				686	
	67				680	
	68				674	
	69				668	
	70				662	
	71				715	
	72				709	
	73				703	
	74				697	
	75				691	
	76				685	
	77				679	
	78				673	
	79				667	
	80	WHITE	22	11	661	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	81	WHITE	22	11	660	
	82				654	
	83				648	
	84				642	
	85				636	
	86				630	
	87				624	
	88				618	
	89				612	
	90				606	
	91				659	
	92				653	
	93				647	
	94				641	
	95				635	
	96				629	
	97				623	
	98				617	
	99				611	
	100				605	
	101				658	
	102				652	
	103				646	
	104				640	
	105				634	
	106				628	
	107				622	
	108				616	
	109				610	
	110				604	
	111				657	
	112				651	
	113				645	
	114				639	
	115				633	
	116				627	
	117				621	
	118				615	
	119				609	
	120				603	
	121				656	
	122				650	
	123				644	
	124				638	
	125				632	
	126				626	
	127				620	
	128				614	
	129				608	
	130				602	
	131				655	
	132				649	
	133				643	
	134				637	
	135				631	
	136				625	
	137				619	
	138				613	
	139				607	
	140				601	
	141				478	
	142				472	
	143				466	
	144				460	
	145				454	
	146				448	
	147				442	
	148				436	
	149				430	
	150				424	
	151				477	
	152				471	
	153				465	
	154				459	
	155				453	
	156				447	
	157				441	
	158				435	
	159				429	
	160	WHITE	22	11	423	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	161	WHITE	22	11	476	
	162				470	
	163				464	
	164				458	
	166				446	
	167				440	
	168				434	
	169				428	
	170				422	
	171				475	
	172				469	
	173				463	
	174				457	
	175				451	
	176				445	
	177				439	
	178				433	
	179				427	
	180				421	
	181				840	
	182				834	
	183				828	
	184				822	
	185				816	
	186				810	
	187				804	
	188				798	
	189				792	
	190				786	
	191				839	
	192				833	
	193				827	
	194				821	
	195				815	
	196				809	
	197				803	
	198				797	
	199				791	
	200				785	
	201				838	
	202				832	
	203				826	
	204				820	
	205				814	
	206				808	
	207				802	
	208				796	
	209				790	
	210				784	
	211				837	
	212				831	
	213				825	
	214				819	
	215				813	
	216				807	
	217				801	
	218				795	
	219				789	
	220				783	
	221				836	
	222				830	
	223				824	
	224				818	
	225				812	
	226				806	
	227				800	
	228				794	
	229				788	
	230				782	
	231				835	
	232				829	
	233				823	
	234				817	
	236				805	
	237				799	
	238				793	
	239				787	
	240				781	
	241				780	
	242	WHITE	22	11	774	

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03910 DATE 9-5-63

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

1014125	
1014124	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 6-19-63
CHECKED 23 July 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W6

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014370
SCALE NONE WT SHEET 3 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TORR		
A	CL II CHANGE PER RD-R 5484A C. LaCort CHK W.J. APPD	63	
B	CHANGED PER TDRR NO. 06039 DR R.D. CHK A.C. APPD	18 FEB 64	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	243	WHITE	22	11	768	
	244				762	
	245				756	
	246				750	
	247				744	
	248				738	
	249				732	
	250				726	
	251				779	
	252				773	
	253				767	
	254				761	
	255				755	
	256				749	
	257				743	
	258				737	
	259				731	
	260				725	
	261				778	
	262				772	
	263				766	
	264				760	
	265				754	
	266				748	
	267				742	
	268				736	
	269				730	
	270				724	
	271				777	
	272				771	
	273				765	
	274				759	
	275				753	
	276				747	
	277				741	
	278				735	
	279				729	
	280				723	
	281				600	
	282				594	
	283				588	
	284				582	
	285				576	
	286				570	
	287				564	
	288				558	
	289				552	
	290				546	
	291				599	
	292				593	
	293				587	
	294				581	
	295				575	
	296				569	
	297				563	
	298				557	
	299				551	
	300				545	
	301				598	
	302				592	
	303				586	
	304				580	
	305				574	
	306				568	
	307				562	
	308				556	
	309				550	
	310				544	
	311				597	
	312				591	
	313				585	
	314				579	
	315				573	
	316				567	
	317				561	
	318				555	
	319				549	
	320				543	
	322				590	
	323	WHITE	22	11	584	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	324	WHITE	22	11	578	
	325				572	
	326				566	
	327				560	
	328				554	
	329				548	
	330				542	
	331				595	
	332				589	
	333				583	
	334				577	
	335				571	
	336				565	
	337				559	
	338				553	
	339				547	
	340				541	
	341				540	
	342				534	
	343				528	
	344				522	
	345				516	
	346				510	
	347				504	
	348				498	
	349				492	
	350				486	
	351				539	
	352				533	
	353				527	
	354				521	
	355				515	
	356				509	
	357				503	
	358				497	
	359				491	
	360				485	
	361				538	
	362				532	
	363				526	
	364				520	
	365				514	
	366				508	
	367				502	
	368				496	
	369				490	
	370				484	
	371				537	
	372				531	
	373				525	
	374				519	
	375				513	
	376				507	
	377				501	
	378				495	
	379				489	
	380				483	
	381				536	
	382				530	
	383				524	
	384				518	
	385				512	
	386				506	
	387				500	
	388				494	
	389				488	
	390				482	
	391				535	
	392				529	
	393				523	
	394				517	
	395				511	
	396				505	
	397				499	
	398				493	
	399				487	
	400				481	
	401				480	
	402				474	
	403	WHITE	22	11	468	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	404	WHITE	22	11	462	
	405				456	
	406				450	
	407				444	
	408				438	
	409				432	
	410				426	
	411				479	
	412				473	
	413				467	
	414				461	
	415				455	
	416				449	
	417				443	
	418				437	
	419				431	
	420				425	
	165				452	
	235				811	
	321	WHITE	22	11	596	
	1	BLACK	22	20	841	CHASSIS GRD

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CLASS B RELEASE PER TORR NO.02410 DATE 9-5-63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014125	
1014124	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 6-19-63
CHECKED
APPROVAL
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APPROVAL
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MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

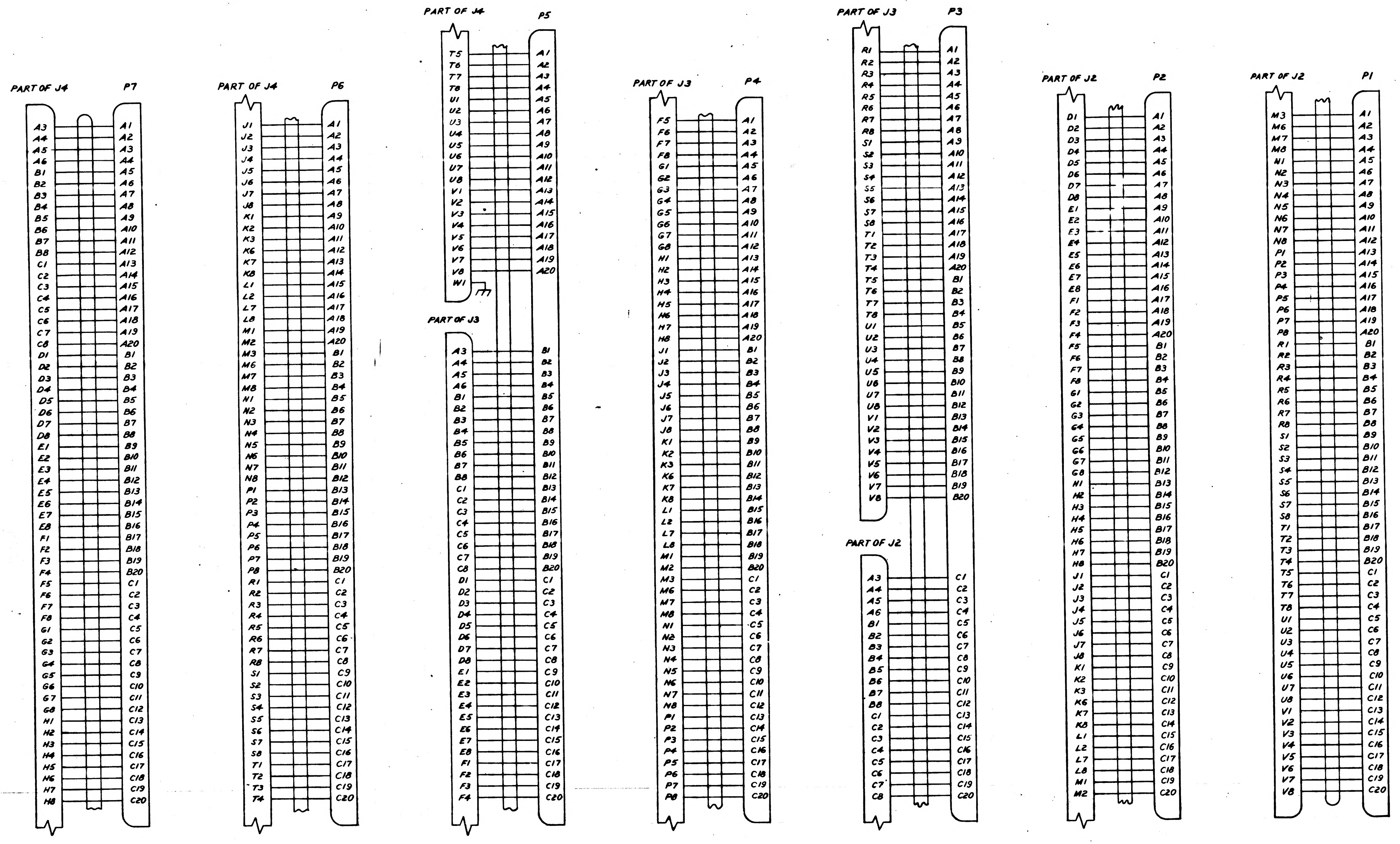
CABLE ASSEMBLY
W6

CODE IDENT NO. SIZE J NASA DRAWING NO. 1014370
SCALE NONE WT SHEET 4 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014370

SYM	DESCRIPTION	DATE	APPROVED
B	THIS SHEET ADDED PER TDRR 06039	3-23-64	


PART OF J4
P7
A3 A4 A5 A6 B1 B2 B3 B4 B5 B6 B7 B8 C1 C2 C3 C4 C5 C6 C7 C8 D1 D2 D3 D4 D5 D6 D7 D8 E1 E2 E3 E4 E5 E6 E7 E8 F1 F2 F3 F4 F5 F6 F7 F8 G1 G2 G3 G4 G5 G6 G7 G8 H1 H2 H3 H4 H5 H6 H7 H8
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20
PART OF J4
P6
J1 J2 J3 J4 J5 J6 J7 J8 K1 K2 K3 K6 K7 K8 L1 L2 L7 L8 M1 M2 M3 M6 M7 M8 N1 N2 N3 N4 N5 N6 N7 N8 P1 P2 P3 P4 P5 P6 P7 P8 R1 R2 R3 R4 R5 R6 R7 R8 S1 S2 S3 S4 S5 S6 S7 S8 T1 T2 T3 T4
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20
PART OF J4
P5
T5 T6 T7 T8 U1 U2 U3 U4 U5 U6 U7 U8 V1 V2 V3 V4 V5 V6 V7 V8 W1
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20
PART OF J3
A3 A4 A5 A6 B1 B2 B3 B4 B5 B6 B7 B8 C1 C2 C3 C4 C5 C6 C7 C8 D1 D2 D3 D4 D5 D6 D7 D8 E1 E2 E3 E4 E5 E6 E7 E8 F1 F2 F3 F4
B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20
PART OF J3
P4
F5 F6 F7 F8 G1 G2 G3 G4 G5 G6 G7 G8 H1 H2 H3 H4 H5 H6 H7 H8 J1 J2 J3 J4 J5 J6 J7 J8 K1 K2 K3 K6 K7 K8 L1 L2 L7 L8 M1 M2 M3 M6 M7 M8 N1 N2 N3 N4 N5 N6 N7 N8 P1 P2 P3 P4 P5 P6 P7 P8
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20
PART OF J3
P3
R1 R2 R3 R4 R5 R6 R7 R8 S1 S2 S3 S4 S5 S6 S7 S8 T1 T2 T3 T4 T5 T6 T7 T8 U1 U2 U3 U4 U5 U6 U7 U8 V1 V2 V3 V4 V5 V6 V7 V8
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20
PART OF J2
A3 A4 A5 A6 B1 B2 B3 B4 B5 B6 B7 B8 C1 C2 C3 C4 C5 C6 C7 C8
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20
PART OF J2
P2
D1 D2 D3 D4 D5 D6 D7 D8 E1 E2 E3 E4 E5 E6 E7 E8 F1 F2 F3 F4 F5 F6 F7 F8 G1 G2 G3 G4 G5 G6 G7 G8 H1 H2 H3 H4 H5 H6 H7 H8 J1 J2 J3 J4 J5 J6 J7 J8 K1 K2 K3 K6 K7 K8 L1 L2 L7 L8 M1 M2
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20
PART OF J2
P1
M3 M6 M7 M8 N1 N2 N3 N4 N5 N6 N7 N8 P1 P2 P3 P4 P5 P6 P7 P8 R1 R2 R3 R4 R5 R6 R7 R8 S1 S2 S3 S4 S5 S6 S7 S8 T1 T2 T3 T4 T5 T6 T7 T8 U1 U2 U3 U4 U5 U6 U7 U8 V1 V2 V3 V4 V5 V6 V7 V8
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19 A20 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19 B20 C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20

ELECTRICAL SCHEMATIC

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 06039 DATE 10 MAR 64

Ⓑ THIS SHEET ADDED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014125	
1014124	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO.
DRAWN J. Link DATE 8 Nov 63
CHECKED W. J. Gifford 19 NOV 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 3/10/64
MIT APPROVAL
MIT APPROVAL W J 10 Mar 64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W6

CODE IDENT NO. SIZE J NASA DRAWING NO. 1014370
SCALE WT SHEET 5 OF 5

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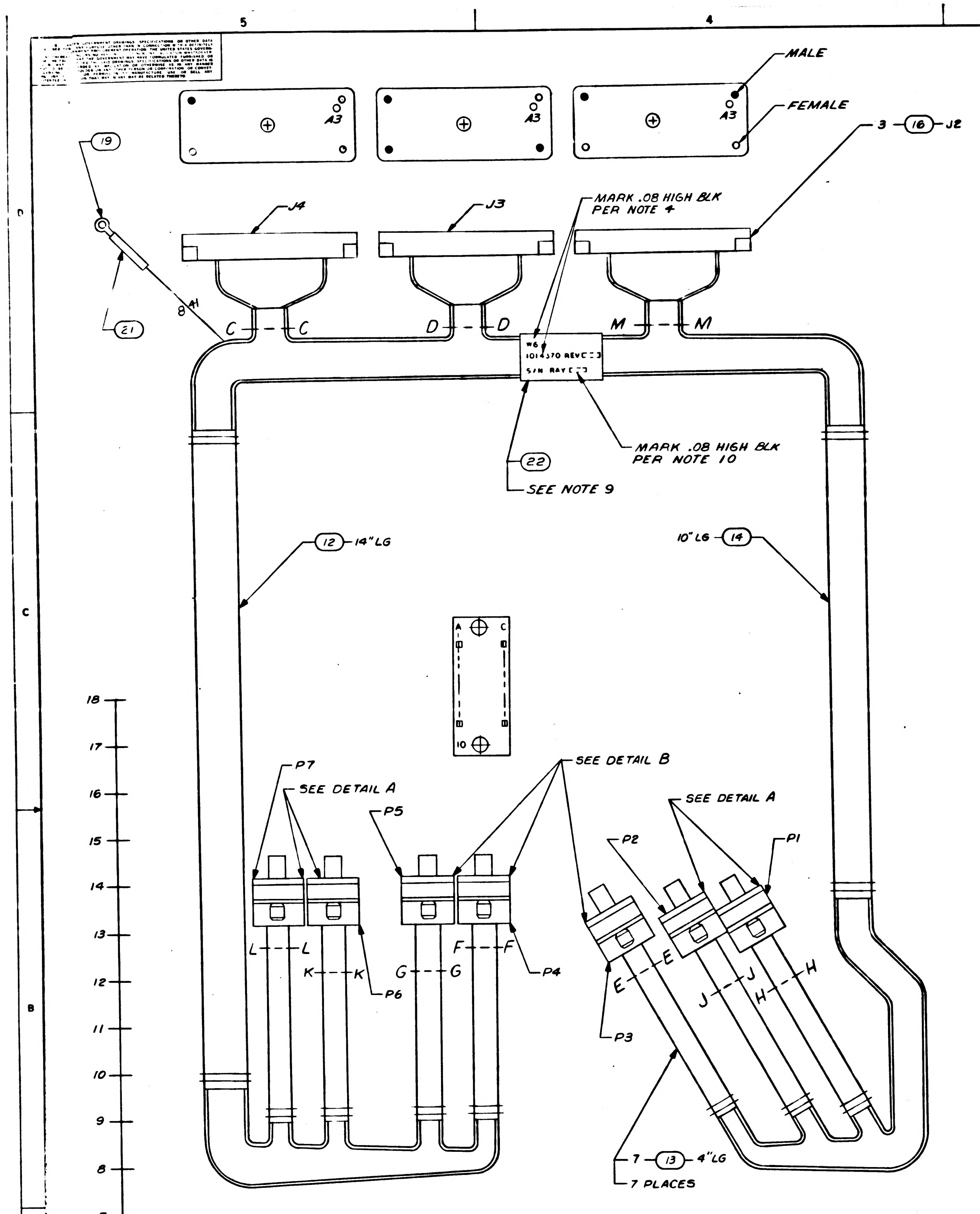
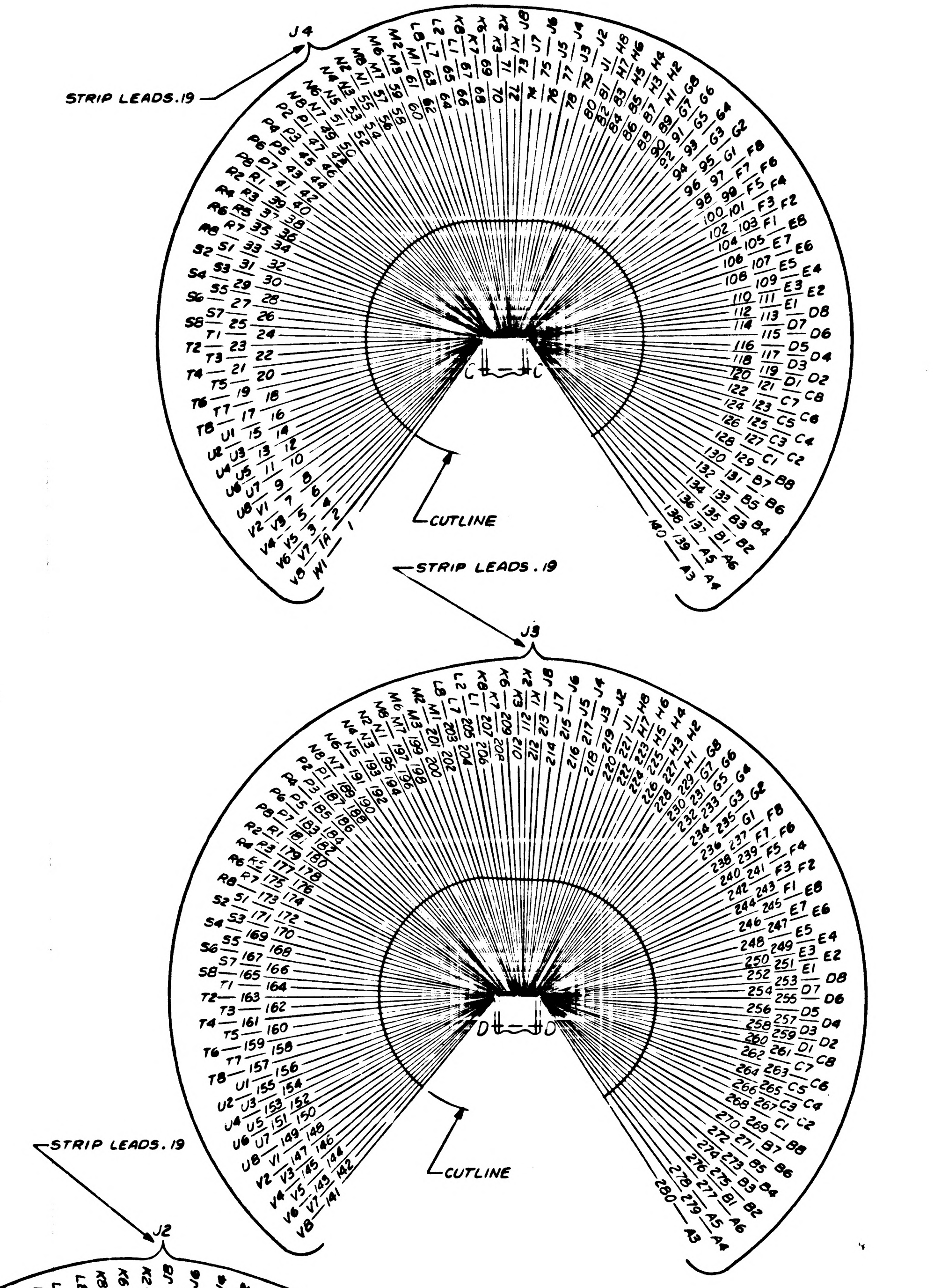
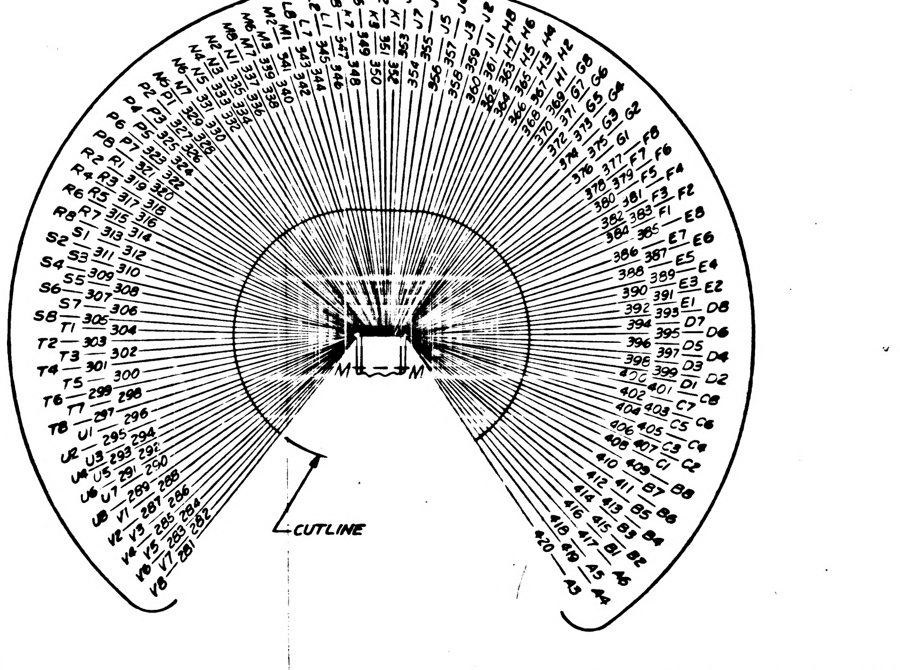
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R 5484A C L. Cook CHKW APPD	1 NOV 63	
B	CHANGE PER TDRR NO. 06039 DR D. CHK A APPD	8 FEB 64	
C	CHANGED PER TDRR NO. 13211 DR. A F CHK RT APPD	3 OCT 64	


MALE
FEMALE
A3
A3
A3
3 - 16 - J2
J4
J3
19
21
8
C
C
D
D
M
M
MARK .08 HIGH BLK PER NOTE 4
W6
1014370 REV C
S/N RAY
22
MARK .08 HIGH BLK PER NOTE 10
SEE NOTE 9
12 - 14" LG
10" LG - 14
A
C
10
P7
SEE DETAIL A
P5
SEE DETAIL B
SEE DETAIL A
P2
P1
L
L
K
K
G
G
F
F
P6
P4
E
E
J
J
H
H
P3
7 - 13 - 4" LG
7 PLACES
18
17
16
15
14
13
12
11
10
9
8


J4
STRIP LEADS.19
CUTLINE
STRIP LEADS.19
J3
CUTLINE
A3
A4
A5
A6


STRIP LEADS.19
J2
CUTLINE
M
M

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02910 DATE 6-5-63

NOTES

1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1014047
3. FILL WITH FIND NO. 18 PER ND 1002009 METHOD E
4. MARK PER ND1002019
5. MIL-I-631 TYPE F, FORM U_a GRADE & CLASS I, CATEGORY I FOR FIND NO. 12 AWG 1 IN. FOR FIND NO. 13 AWG 5/8. FOR FIND NO. 14 AWG 7/8
6. NUMBERS PRECEDING BALLOON DENOTES QUANTITY
7. MIL-W-16878/4, TYPE E22 WHITE, E22 BLACK
8. INSTALL FIND NO. 15, OUTSIDE ROWS ON P3, P4, AND P5
9. BOND FIND NO. 22 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
10. MARK SER NO. PER ND 1002023
11. POTTING TO BE $^{+.005}_{-.015}$ FROM SURFACES OF FIND NO. 2
12. MIL-I-23053, CLASS 1, COLOR BLK, SIZE NO. 12

C	C	B	B	B
B	B	B	B	B
A	A	—	A	
—	—	—	—	
SH 1	SH 2	SH 3	SH 4	SH 5

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014472-3	BAND MARKER, CABLE	22
AR	SEE NOTE 12	SLEEVING	21
AR	SEE NOTE 7	WIRE, ELECTRICAL, BLACK	20
1	MS25036-3	TERMINAL, LUG	19
AR	1006683	COMPOUND, SILICONE RUBBER	18
7	MS39056-6	BUSHING	17
3	1006671	CONNECTOR, RECEPTACLE	16
60	1014310	INSULATOR, CONTACT	15
AR	SEE NOTE 5	SLEEVING	14
AR	SEE NOTE 5	SLEEVING	13
AR	SEE NOTE 5	SLEEVING	12
AR	SEE NOTE 7	WIRE, ELECTRICAL, WHITE	11
120	1006987	INSUL CONTACT ELECT, MALE CRIMP	10
180	1006995-1	CONTACT ELECTRICAL, MALE CRIMP	9
240	1010380	INSULATOR BUSHING, FEMALE	8
240	1010379-1	CONTACT ELECTRICAL, FEMALE	7
14	1014032	RECEPTACLE, INDEXING	6
14	1006997	WASHER, PLAIN, FLAT	5
14	MS35337-79	WASHER, LOCK	4
14	1006998-1	SCREW, CAPTIVE	3
7	1014024-4	BRACKET, ANGLE	2
7	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

NEXT ASSY	USED ON
1014125	
1014124	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 6-19-63
CHECKED A. Cassiano
APPROVAL C. Sperling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

CABLE ASSEMBLY
W 6

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014370
SCALE 1/1
WT
SHEET 1 OF 5

NOTICE – WHEN GOVERNMENT DRAWINGS SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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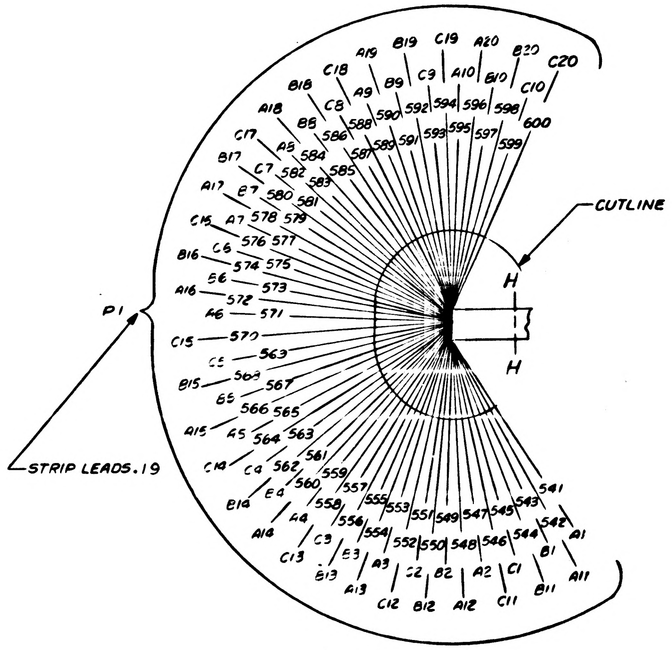
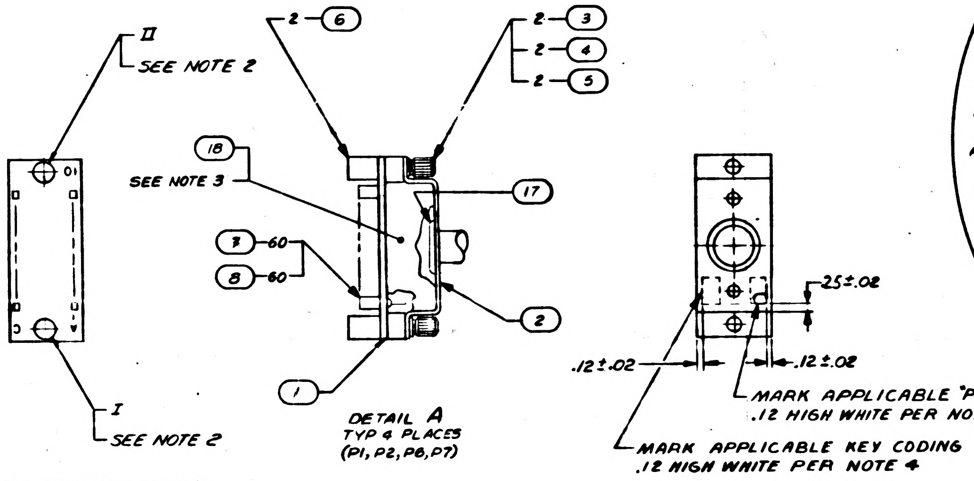
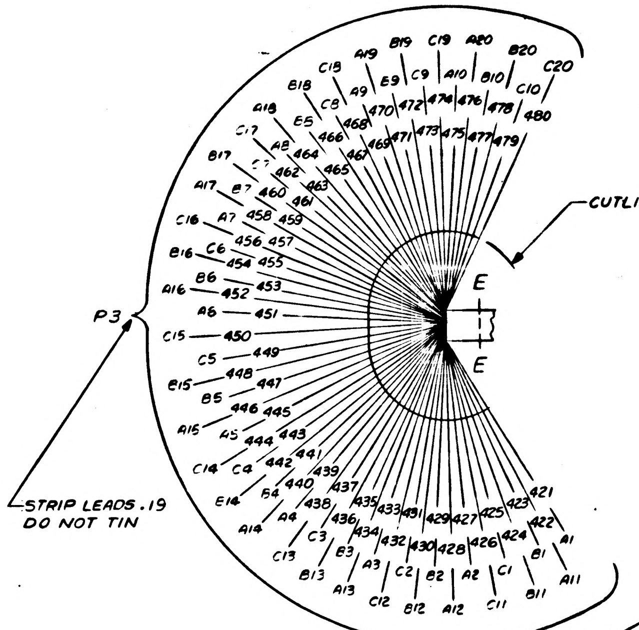
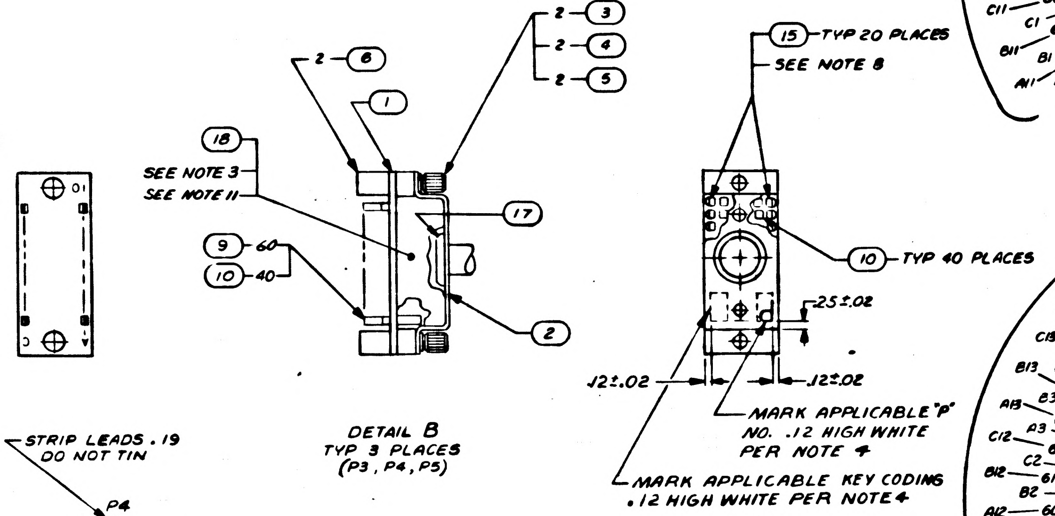
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R 5484A C. LaCroix CHK W.J. Gifford APPD	11 NOV 63	
B	CHANGED PER TDRR 06039 DR C. LaCroix CHK A. APPD	18 FEB 64	
C	CHANGED PER TDRR NO. 13211 DR A F Galante CHK K.T. APPD	13 OCT 64	


P1
STRIP LEADS .19
CUTLINE
H
H
A19 B19 C19 A20 B20 C20
A18 B18 C18 B9 C9 A10 B10 C10
A17 B17 C17 A9
C16 A16 B16 C15 B15 A15 C14 B14 A14 C13 B13 A13 C12 B12 A12 C11 B11 A11
A1 B1 C1 A2 B2 C2 A3 B3 C3 A4 B4 C4 A5 B5 C5 A6 B6 C6 A7 B7 C7 A8 B8 C8
541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560
561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580
581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600

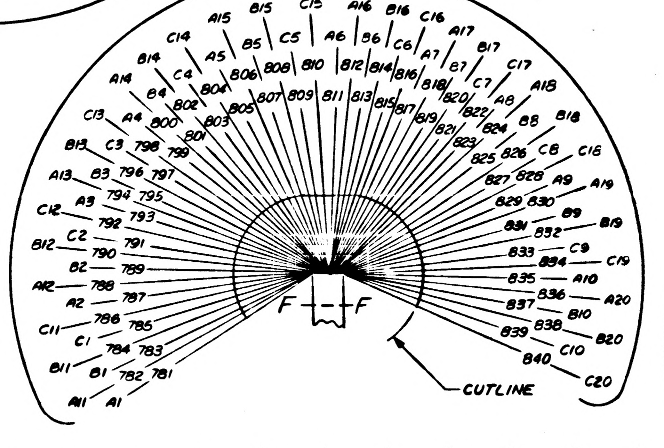

II
SEE NOTE 2
I
SEE NOTE 2
2 – 6
2 – 3
2 – 4
2 – 5
18
SEE NOTE 3
17
7 – 60
8 – 60
2
1
DETAIL A
TYP 4 PLACES
(P1, P2, P6, P7)
.25±.02
.12±.02
.12±.02
MARK APPLICABLE "P" NO.
.12 HIGH WHITE PER NOTE 4
MARK APPLICABLE KEY CODING
.12 HIGH WHITE PER NOTE 4

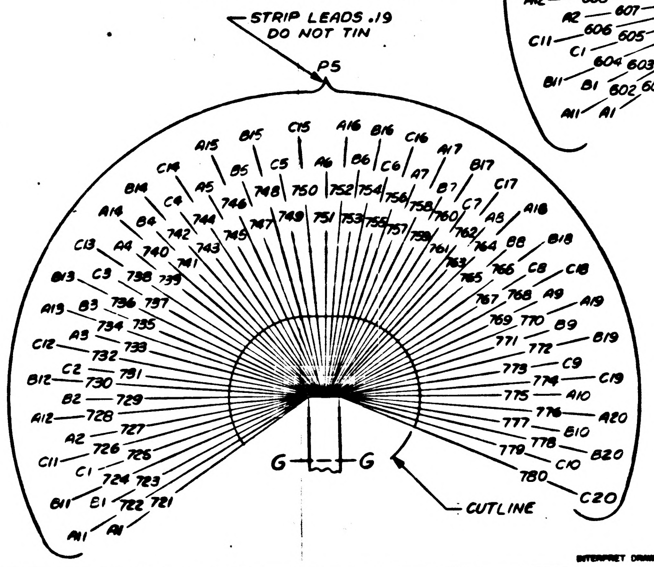
CONNECTOR	KEY CODING POSITION	
REF	I	II
P1	F	A
P2	F	B
P3	F	C
P4	F	E
P5	F	F
P6	F	G
P7	F	H

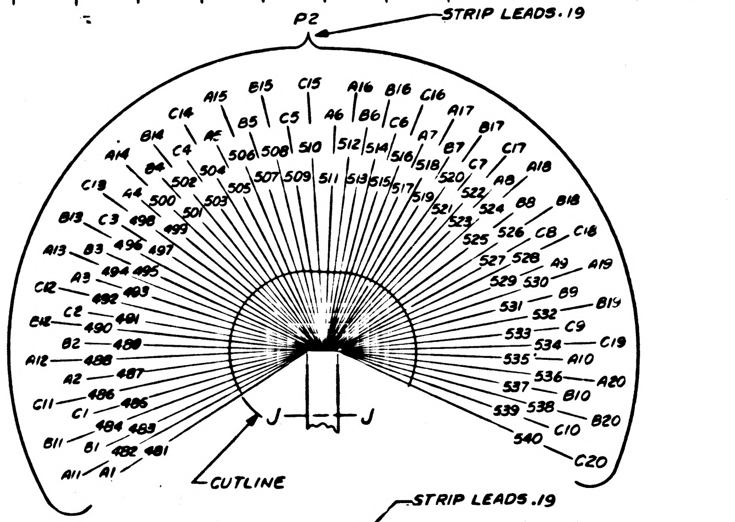

P3
STRIP LEADS .19
DO NOT TIN
CUTLINE
E
E
A19 B19 C19 A20 B20 C20
A1 B1 C1 A11 B11 C11 A12 B12 C12
421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440
441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460
461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480

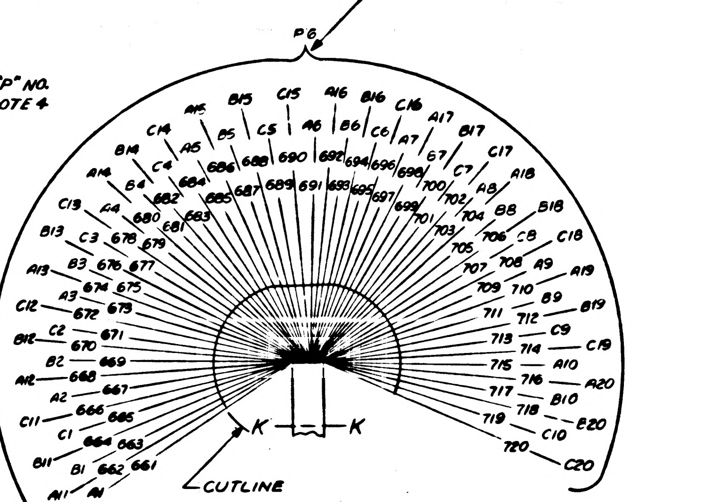

2 – 6
1
2 – 3
2 – 4
2 – 5
18
SEE NOTE 3
SEE NOTE 11
17
9 – 60
10 – 40
2
DETAIL B
TYP 3 PLACES
(P3, P4, P5)
15 – TYP 20 PLACES
SEE NOTE 8
10 – TYP 40 PLACES
.25±.02
.12±.02
.12±.02
MARK APPLICABLE "P"
NO. .12 HIGH WHITE
PER NOTE 4
MARK APPLICABLE KEY CODING
.12 HIGH WHITE PER NOTE 4

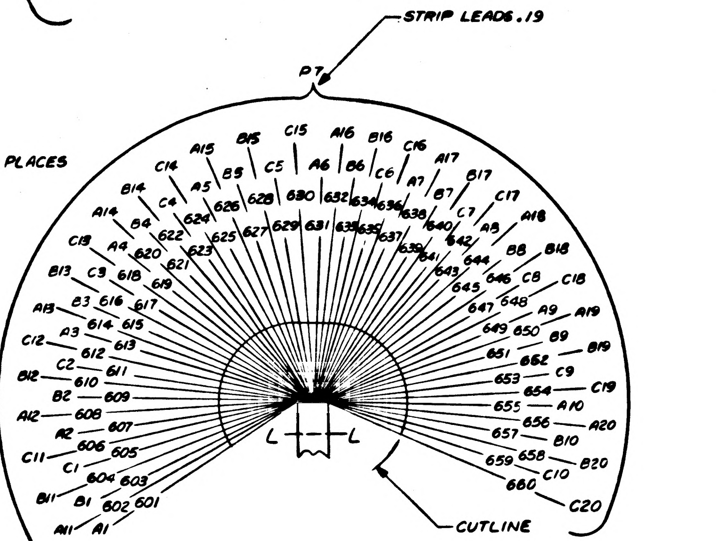
STRIP LEADS .19
DO NOT TIN


P4
F
F
CUTLINE
A15 B15 C15 A16 B16 C16 A17 B17 C17 A18 B18 C18 A19 B19 C19 A20 B20 C20
A1 B1 C1 A2 B2 C2 A3 B3 C3 A4 B4 C4
781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800
801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820
821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840


STRIP LEADS .19
DO NOT TIN
P5
G
G
CUTLINE
721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740
741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760
761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780


P2
STRIP LEADS .19
J
J
CUTLINE
481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500
501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520
521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540


P6
STRIP LEADS .19
K
K
CUTLINE
661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680
681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700
701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720


P7
STRIP LEADS .19
L
L
CUTLINE
601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620
621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640
641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 0290 DATE 6-5-63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014125	
1014124	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 6-19-63
CHECKED A. Cayman
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W6

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014370
SCALE 1/1
WT
SHEET 2 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		

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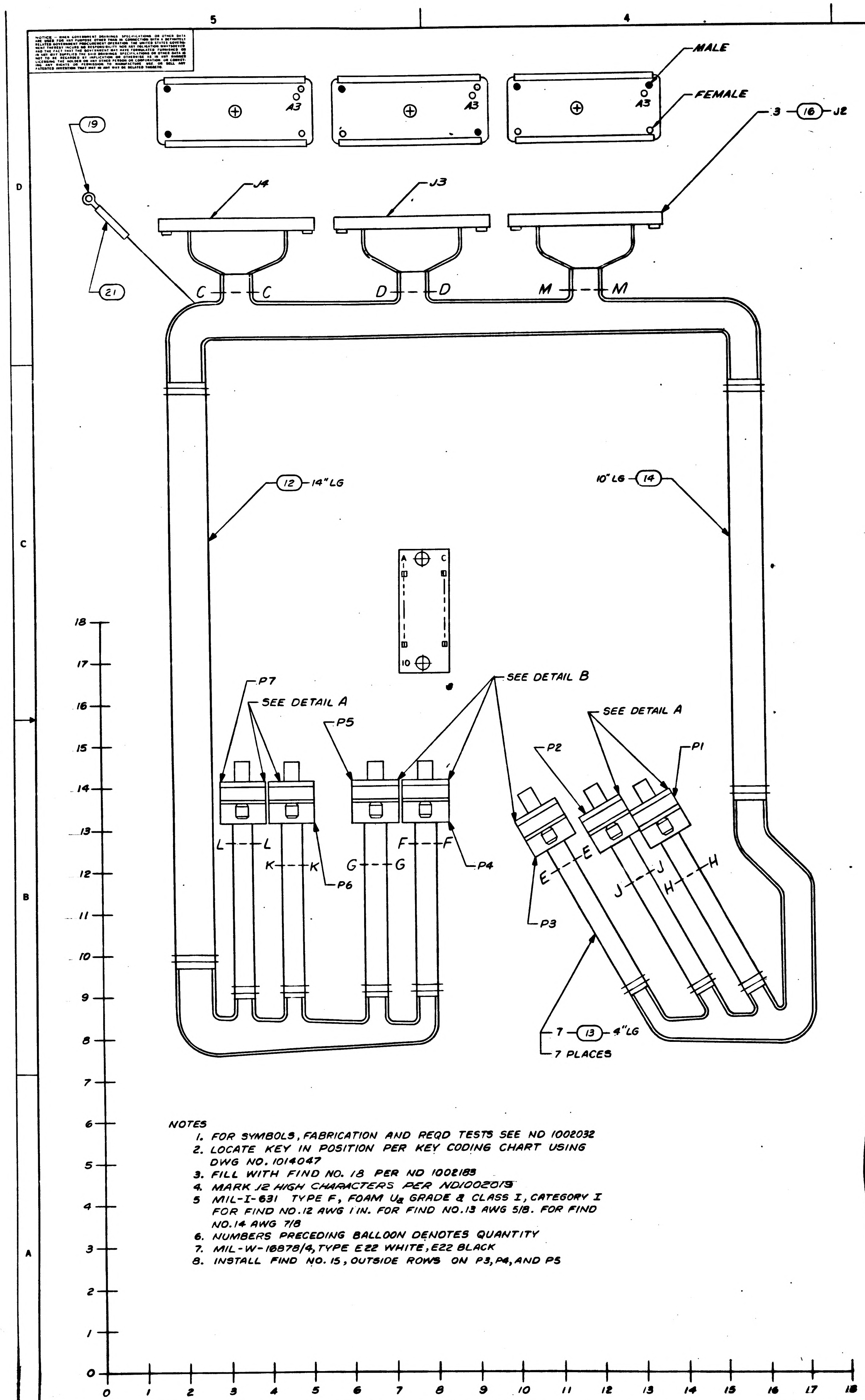

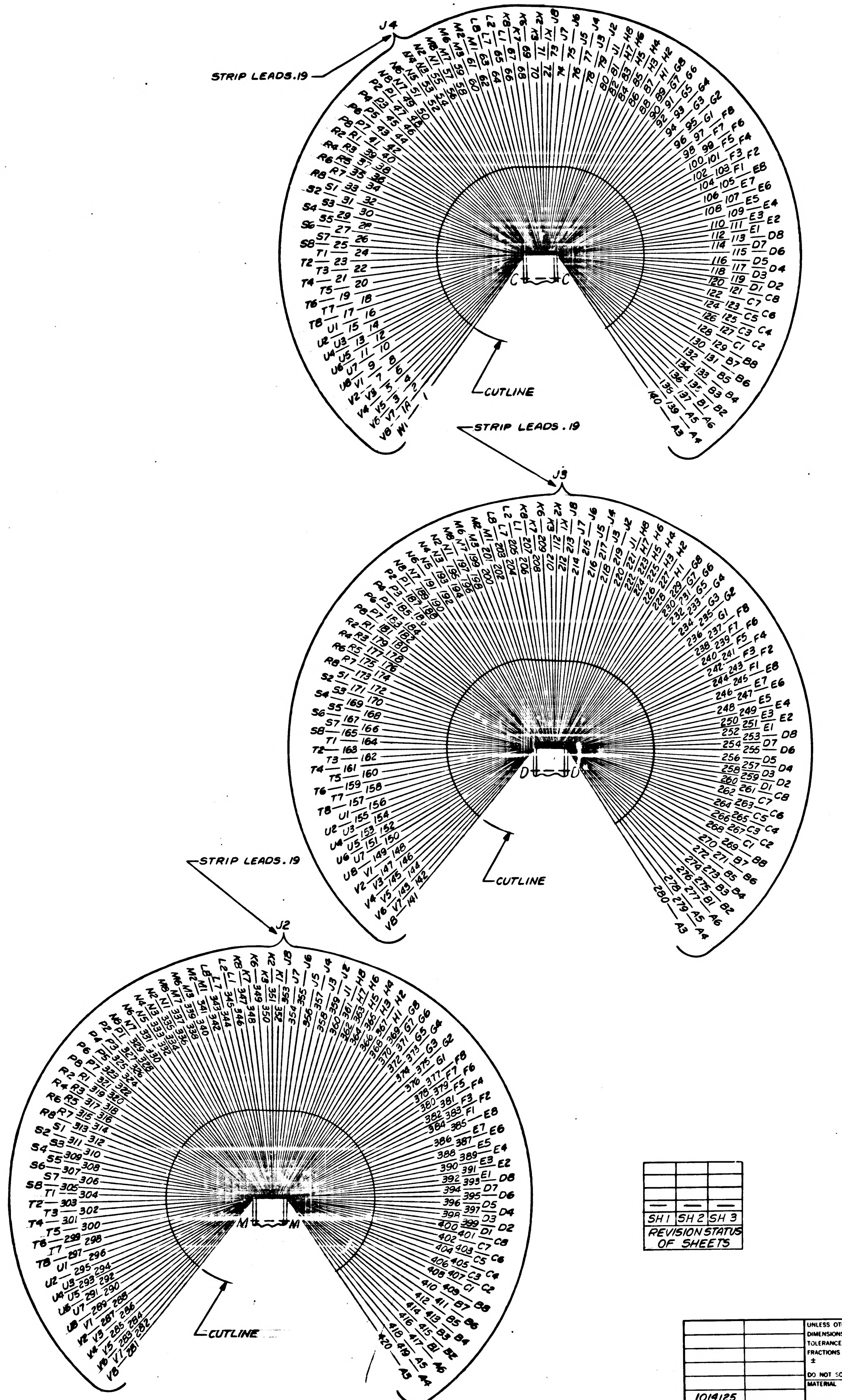

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO.02910 DATE 9-5-63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1014047
3. FILL WITH FIND NO. 18 PER ND 1002183
4. MARK .12 HIGH CHARACTERS PER ND1002019
5 MIL-I-631 TYPE F, FOAM U_2 GRADE & CLASS I, CATEGORY I FOR FIND NO.12 AWG 1 IN. FOR FIND NO.13 AWG 5/8. FOR FIND NO.14 AWG 7/8
6. NUMBERS PRECEDING BALLOON DENOTES QUANTITY
7. MIL-W-16878/4, TYPE E22 WHITE, E22 BLACK
8. INSTALL FIND NO. 15, OUTSIDE ROWS ON P3, P4, AND P5

SH 1	SH 2	SH 3

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	MIL-I-23053-12	SLEEVING	21
AR	SEE NOTE 7	WIRE, ELECTRICAL	20
1	MS35430-3	TERMINAL, LUG	19
AR	1006904	EPOXY RESIN	18
7	MS35490-13	GROMMET	17
3	1006	CONNECTOR, RECEPTACLE	16
60	1014310	INSULATOR, CONTACT	15
AR	SEE NOTE 5	SLEEVING	14
AR	SEE NOTE 5	SLEEVING	13
AR	SEE NOTE 5	SLEEVING	12
AR	SEE NOTE 7	WIRE, ELECTRICAL	11
120	1006987	INSUL CONTACT ELECT, MALE CRIMP	10
180	1006995-1	CONTACT ELECTRICAL, MALE CRIMP	9
240	1010380	INSULATOR BUSHING, FEMALE	8
240	1010379-1	CONTACT ELECTRICAL, FEMALE	7
14	1014032	RECEPTACLE, INDEXING	6
14	1006997	WASHER, PLAIN, FLAT	5
14	MS35337-79	WASHER, LOCK	4
14	1006998-1	SCREW, CAPTIVE	3
7	1014024-1	BRACKET, ANGLE	2
7	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014370

NEXT ASSY	USED ON
1014125	
1014124	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 6-19-63
CHECKED A. Cozzi 23 Jul 63
APPROVAL C. Sperling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 6

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014370
SCALE 1/1
WT
SHEET 1 OF 4

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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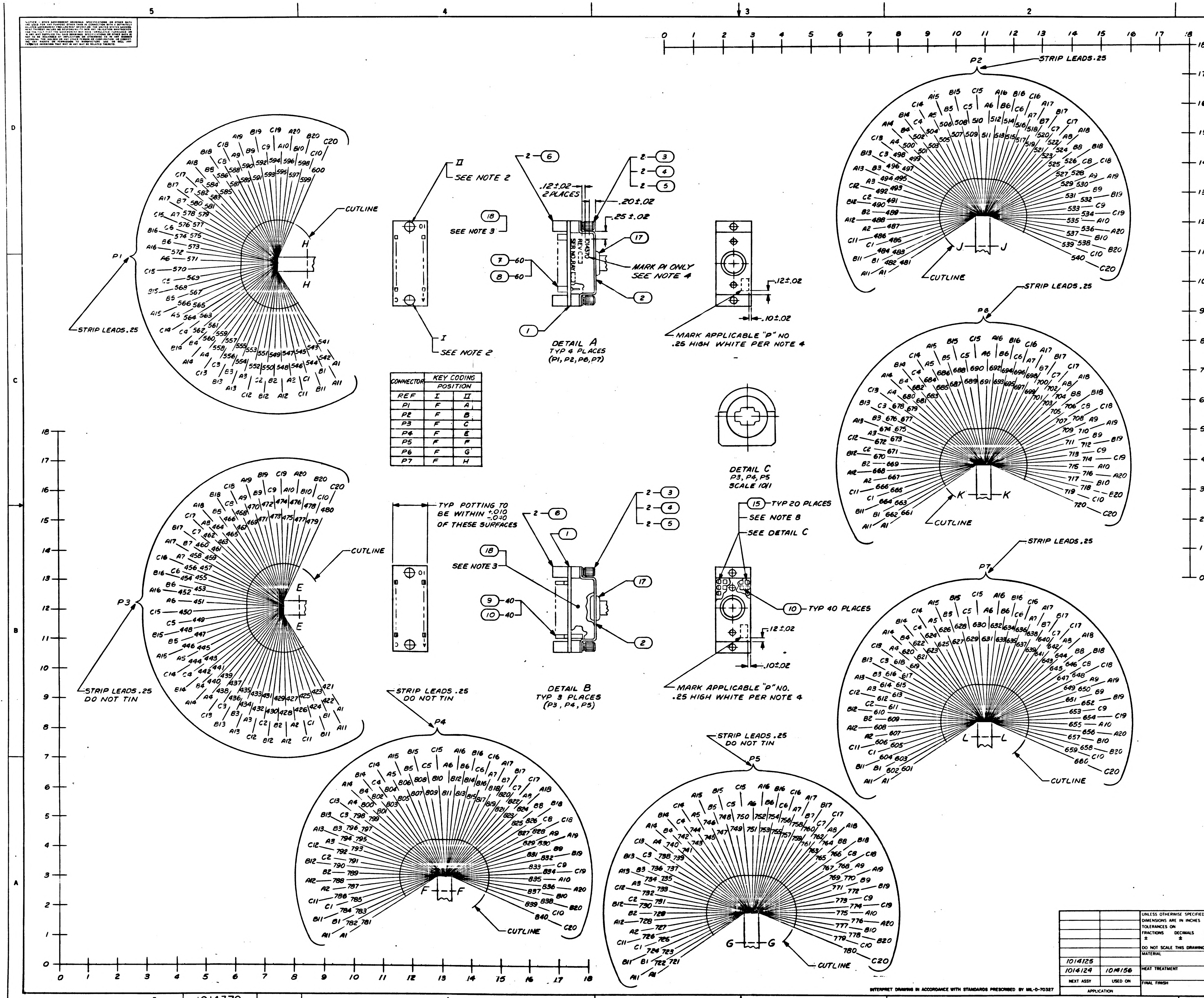
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		


P1
STRIP LEADS .25
CUTLINE
H
H
II
SEE NOTE 2
I
SEE NOTE 2
SEE NOTE 3
2
6
3
4
5
.12±.02
2 PLACES
.20±.02
.25±.02
17
18
7 — 60
8 — 60
MARK P1 ONLY
SEE NOTE 4
1014370
REV
SER NO
1
2
DETAIL A
TYP 4 PLACES
(P1, P2, P6, P7)
.12±.02
.10±.02
MARK APPLICABLE "P" NO
.25 HIGH WHITE PER NOTE 4
P2
STRIP LEADS .25
J
J
CUTLINE
P6
STRIP LEADS .25
K
K
CUTLINE
P7
STRIP LEADS .25
L
L
CUTLINE
DETAIL C
P3, P4, P5
SCALE 10/1
15 — TYP 20 PLACES
SEE NOTE 8
SEE DETAIL C
10 — TYP 40 PLACES
.12±.02
.10±.02
MARK APPLICABLE "P" NO.
.25 HIGH WHITE PER NOTE 4
P3
STRIP LEADS .25
DO NOT TIN
CUTLINE
E
E
TYP POTTING TO
BE WITHIN +.010 −.040
OF THESE SURFACES
SEE NOTE 3
9 — 40
10 — 40
DETAIL B
TYP 3 PLACES
(P3, P4, P5)
P4
STRIP LEADS .25
DO NOT TIN
F
F
CUTLINE
P5
STRIP LEADS .25
DO NOT TIN
G
G
CUTLINE
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

CONNECTOR	KEY CODING POSITION	
REF	I	II
P1	F	A
P2	F	B
P3	F	C
P4	F	E
P5	F	F
P6	F	G
P7	F	H

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03 DATE 4-5-63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION

LIST OF MATERIALS

NEXT ASSY	USED ON
1014125	
1014124	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 6-19-63
CHECKED A. Cayman 23 Jun 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W6

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014370
SCALE 1/1
WT
SHEET 2 OF 4

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TORR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1A	WHITE	22	11	776	
	2				770	
	3				764	
	4				758	
	5				752	
	6				746	
	7				740	
	8				734	
	9				728	
	10				722	
	11				775	
	12				769	
	13				763	
	14				757	
	15				751	
	16				745	
	17				739	
	18				733	
	19				727	
	20				721	
	21				720	
	22				714	
	23				708	
	24				702	
	25				696	
	26				690	
	27				684	
	28				678	
	29				672	
	30				666	
	31				719	
	32				713	
	33				707	
	34				701	
	35				695	
	36				689	
	37				683	
	38				677	
	39				671	
	40				665	
	41				718	
	42				712	
	43				706	
	44				700	
	45				694	
	46				688	
	47				682	
	48				676	
	49				670	
	50				664	
	51				717	
	52				711	
	53				705	
	54				699	
	55				693	
	56				687	
	57				681	
	58				675	
	59				669	
	60				663	
	61				716	
	62				710	
	63				704	
	64				698	
	65				692	
	66				686	
	67				680	
	68				674	
	69				668	
	70				662	
	71				715	
	72				709	
	73				703	
	74				697	
	75				691	
	76				685	
	77				679	
	78				673	
	79				667	
	80	WHITE	22	11	661	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	81	WHITE	22	11	660	
	82				654	
	83				648	
	84				642	
	85				636	
	86				630	
	87				624	
	88				618	
	89				612	
	90				606	
	91				659	
	92				653	
	93				647	
	94				641	
	95				635	
	96				629	
	97				623	
	98				617	
	99				611	
	100				605	
	101				658	
	102				652	
	103				646	
	104				640	
	105				634	
	106				628	
	107				622	
	108				616	
	109				610	
	110				604	
	111				657	
	112				651	
	113				645	
	114				639	
	115				633	
	116				627	
	117				621	
	118				615	
	119				609	
	120				603	
	121				656	
	122				650	
	123				644	
	124				638	
	125				632	
	126				626	
	127				620	
	128				614	
	129				608	
	130				602	
	131				655	
	132				649	
	133				643	
	134				637	
	135				631	
	136				625	
	137				619	
	138				613	
	139				607	
	140				601	
	141				478	
	142				472	
	143				466	
	144				460	
	145				454	
	146				443	
	147				442	
	148				436	
	149				430	
	150				424	
	151				477	
	152				471	
	153				465	
	154				459	
	155				453	
	156				447	
	157				441	
	158				435	
	159				429	
	160	WHITE	22	11	423	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	161	WHITE	22	11	476	
	162				470	
	163				464	
	164				458	
	166				446	
	167				440	
	168				434	
	169				428	
	170				422	
	171				475	
	172				469	
	173				463	
	174				457	
	175				451	
	176				445	
	177				439	
	178				433	
	179				427	
	180				421	
	181				840	
	182				834	
	183				828	
	184				822	
	185				816	
	186				810	
	187				804	
	188				798	
	189				792	
	190				786	
	191				839	
	192				833	
	193				827	
	194				821	
	195				815	
	196				809	
	197				803	
	198				797	
	199				791	
	200				785	
	201				838	
	202				832	
	203				826	
	204				820	
	205				814	
	206				808	
	207				802	
	208				796	
	209				790	
	210				784	
	211				837	
	212				831	
	213				825	
	214				819	
	215				813	
	216				807	
	217				801	
	218				795	
	219				789	
	220				783	
	221				836	
	222				830	
	223				824	
	224				818	
	225				812	
	226				806	
	227				800	
	228				794	
	229				788	
	230				782	
	231				835	
	232				829	
	233				823	
	234				817	
	236				805	
	237				799	
	238				793	
	239				787	
	240				781	
	241				780	
	242	WHITE	22	11	774	

FOR INFORMATION ONLY
CLASS B RELEASE PER TORR NO. [illegible] DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014125	
1014124	1014156
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 6-19-63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W6

CODE IDENT NO. —— SIZE J
NASA DRAWING NO 1014370
SCALE NONE WT SHEET 3 OF 4

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	243	WHITE	22	11	768	
	244				762	
	245				756	
	246				750	
	247				744	
	248				738	
	249				732	
	250				726	
	251				779	
	252				773	
	253				767	
	254				761	
	255				755	
	256				749	
	257				743	
	258				737	
	259				731	
	260				725	
	261				778	
	262				772	
	263				766	
	264				760	
	265				754	
	266				748	
	267				742	
	268				736	
	269				730	
	270				724	
	271				777	
	272				771	
	273				765	
	274				759	
	275				753	
	276				747	
	277				741	
	278				735	
	279				729	
	280				723	
	281				600	
	282				594	
	283				588	
	284				582	
	285				576	
	286				570	
	287				564	
	288				558	
	289				552	
	290				546	
	291				599	
	292				593	
	293				587	
	294				581	
	295				575	
	296				569	
	297				563	
	298				557	
	299				551	
	300				545	
	301				598	
	302				592	
	303				586	
	304				580	
	305				574	
	306				568	
	307				562	
	308				556	
	309				550	
	310				544	
	311				597	
	312				591	
	313				585	
	314				579	
	315				573	
	316				567	
	317				561	
	318				555	
	319				549	
	320				543	
	322				590	
	323	WHITE	22	11	584	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	324	WHITE	22	11	578	
	325				572	
	326				566	
	327				560	
	328				554	
	329				548	
	330				542	
	331				595	
	332				589	
	333				583	
	334				577	
	335				571	
	336				565	
	337				559	
	338				553	
	339				547	
	340				541	
	341				540	
	342				534	
	343				528	
	344				522	
	345				516	
	346				510	
	347				504	
	348				498	
	349				492	
	350				486	
	351				539	
	352				533	
	353				527	
	354				521	
	355				515	
	356				509	
	357				503	
	358				497	
	359				491	
	360				485	
	361				538	
	362				532	
	363				526	
	364				520	
	365				514	
	366				508	
	367				502	
	368				496	
	369				490	
	370				484	
	371				537	
	372				531	
	373				525	
	374				519	
	375				513	
	376				507	
	377				501	
	378				495	
	379				489	
	380				483	
	381				536	
	382				530	
	383				524	
	384				518	
	385				512	
	386				506	
	387				500	
	388				494	
	389				488	
	390				482	
	391				535	
	392				529	
	393				523	
	394				517	
	395				511	
	396				505	
	397				499	
	398				493	
	399				487	
	400				481	
	401				480	
	402				474	
	403	WHITE	22	11	468	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	404	WHITE	22	11	462	
	405				456	
	406				450	
	407				444	
	408				438	
	409				432	
	410				426	
	411				479	
	412				473	
	413				467	
	414				461	
	415				455	
	416				449	
	417				443	
	418				437	
	419				431	
	420				425	
	185				452	
	235				811	
	321	WHITE	22	11	596	
	1	BLACK	22	20	GRD	CHASSIS GRD

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014125	
1014124	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 6-19-63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W6

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014370
SCALE NONE
WT
SHEET 4 OF 4

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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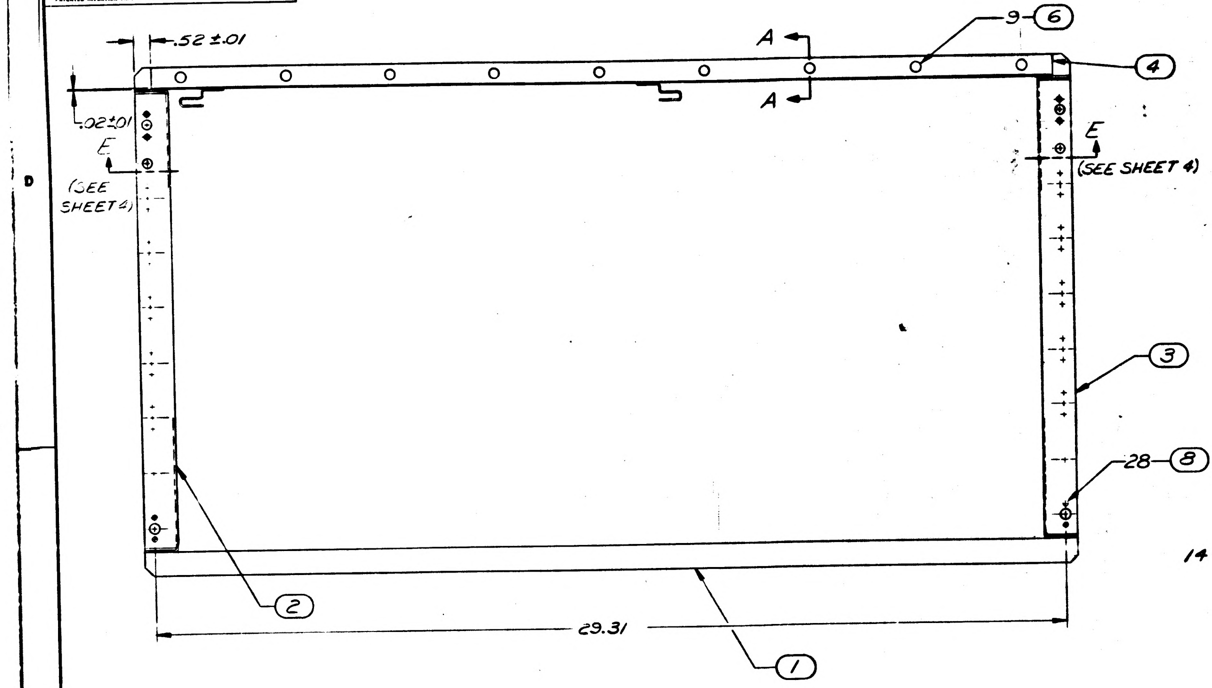
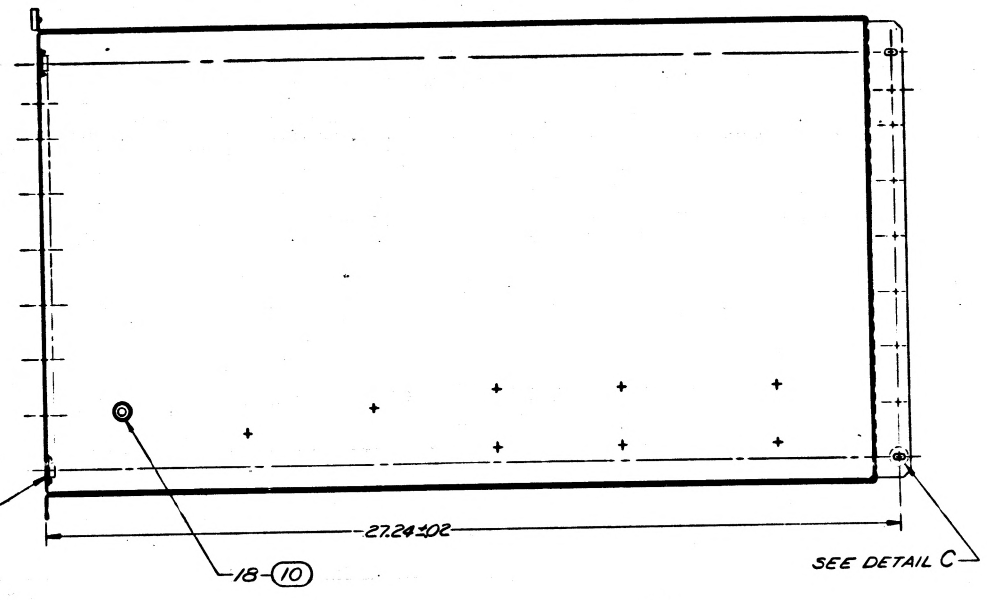
REVISIONS

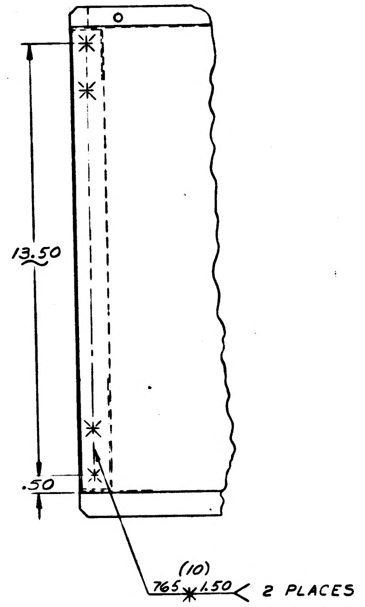
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO. 03143		
A	CL II CHANGE PER RD-R 5485 C. LaCost CHK W.J. Gifford APPD G. Gass	8 NOV 63	
B	CHANGE PER TDRR 05558 DR CHK APPD		



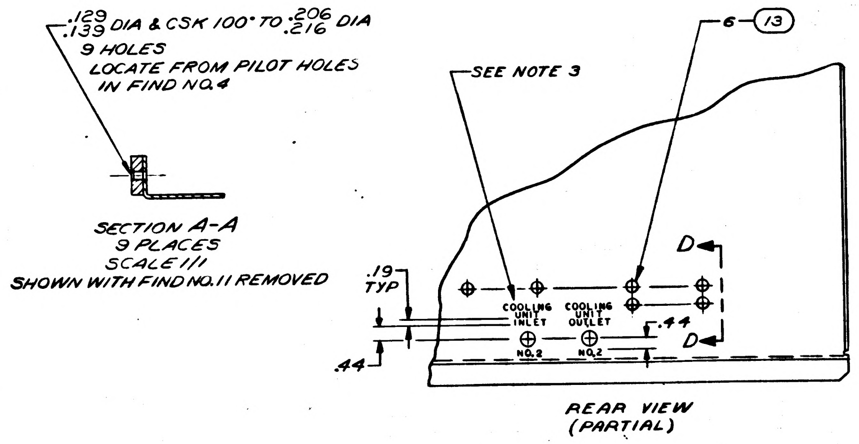
.52 ±.01
.02±.01
E
(SEE SHEET 4)
A
A
9—⑥
④
E
(SEE SHEET 4)
③
28—⑧
②
29.31
①



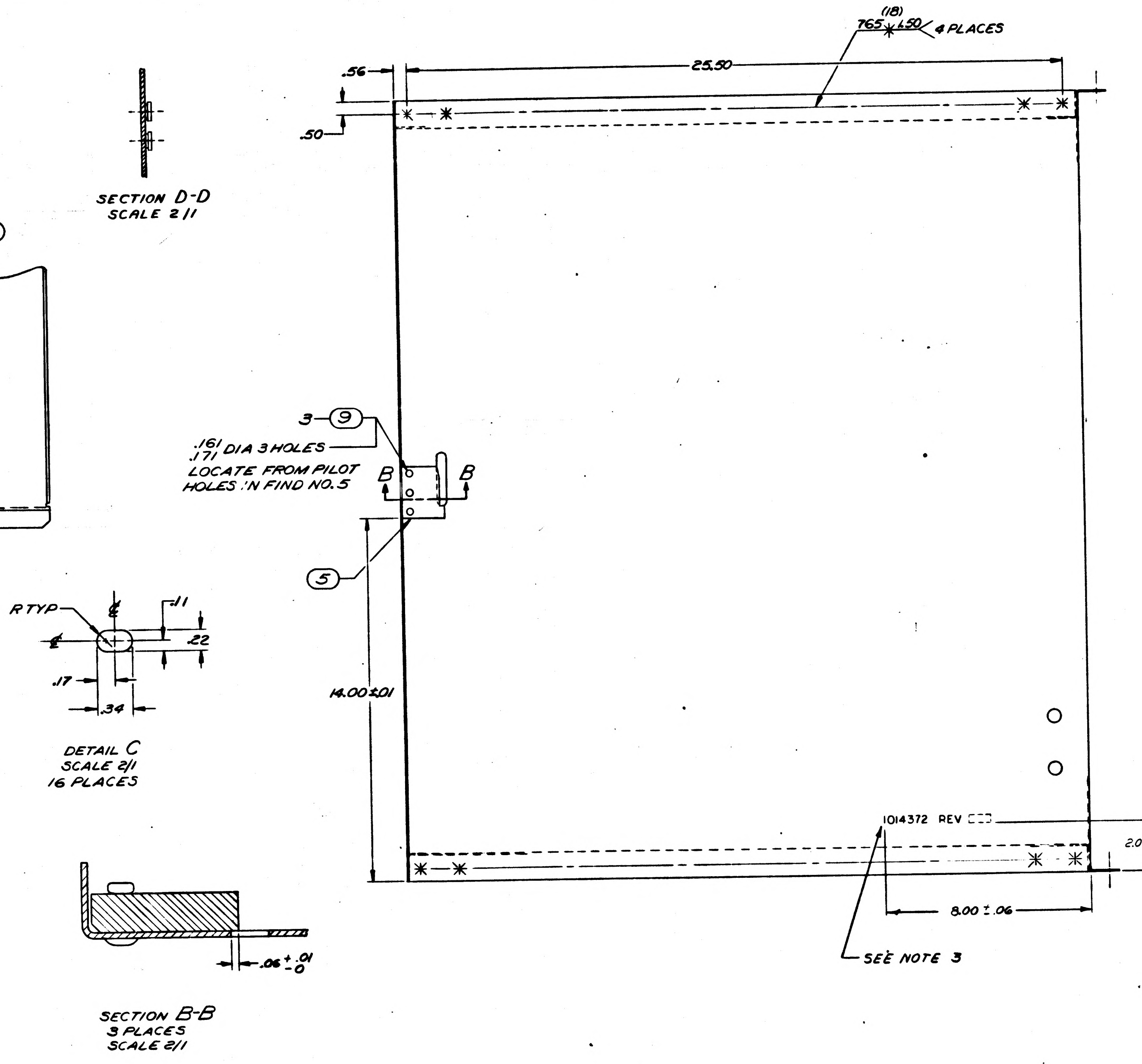
14—⑦
18—⑩
27.24±.02
SEE DETAIL C



13.50
.50
(10)
765 ✱ .150 2 PLACES



.129/.139 DIA & CSK 100° TO .206/.216 DIA
9 HOLES
LOCATE FROM PILOT HOLES
IN FIND NO.4
SECTION A-A
9 PLACES
SCALE 1/1
SHOWN WITH FIND NO.11 REMOVED
SEE NOTE 3
6—⑬
D
.19 TYP
COOLING UNIT INLET
COOLING UNIT OUTLET
NO.2
NO.2
.44
.44
D
REAR VIEW
(PARTIAL)



SECTION D-D
SCALE 2/1
(18)
765 ✱ .150 4 PLACES
.56
25.50
.50
3—⑨
.161/.171 DIA 3 HOLES
LOCATE FROM PILOT
HOLES IN FIND NO. 5
B
B
⑤
14.00±.01
R TYP
℄
℄
.11
.22
.17
.34
DETAIL C
SCALE 2/1
16 PLACES
1014372 REV
2.00 ±.06
8.00 ±.06
SEE NOTE 3
.06 +.01/-0
SECTION B-B
3 PLACES
SCALE 2/1

NOTES
1. WELD PER MIL-W-6858
2. CHROMATE FILM PER MIL-C-5541
3. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03143 DATE 9/12/63

REV STATUS OF PARTS	
PART NO.	REV SYMBOL
1014372-1	A
1014372-2	A
1014372-3	A
1014372-4	—
1014372-5	—
1014372-6	—
1014372-7	—

B	A	A	—
A	A	A	—
—	—	—	—
SH1	SH2	SH3	SH4
REV STATUS OF SHTS			

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
6	1006989-15	NUT, PLAIN, SELF CLINCHING	13
1	1014372-7	TRACK, RH	12
1	1014372-6	TRACK, LH	11
18	1006999-13	NUT, PLAIN, FLOATING	10
3	MS20470A5-12	RIVET, UNIVERSAL HEAD	9
28	MS20426A3-4	RIVET, SOLID, CSK 100°	8
14	NAC1031C08	ANCHOR NUT	7
9	MS20426A4-6	RIVET, SOLID, CSK 100°	6
1	1014372-5	STRIKER	5
1	1014372-4	STRIP, FILLER	4
1	1014372-3	PANEL, SIDE, RH	3
1	1014372-2	PANEL, SIDE, LH	2
1	1014372-1	FRAME, CHASSIS	1

LIST OF MATERIALS

1014372

NEXT ASSY	USED ON
1014465	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±0°30'
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 4-498
DRAWN E.J. Elliott DATE 21 JUN 63
CHECKED A.J. Mariano 20 Aug 63
APPROVAL
APPROVAL 9/3/63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY,
COMPUTER COMPARTMENT
AGC/CTS OPERATION CONSOLE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014372
SCALE 1/2
WT
SHEET 1 OF 4

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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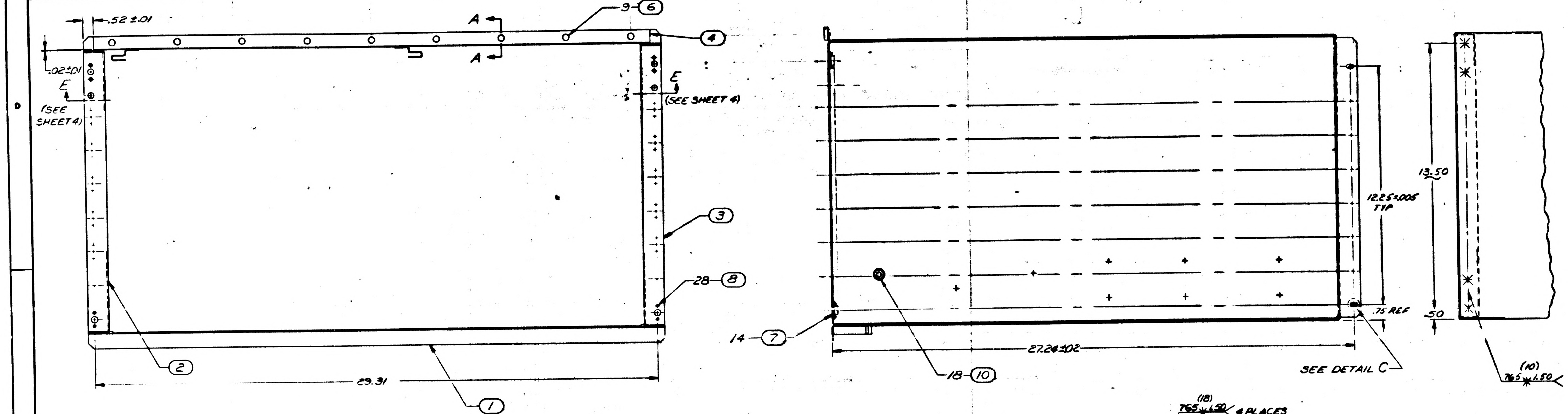
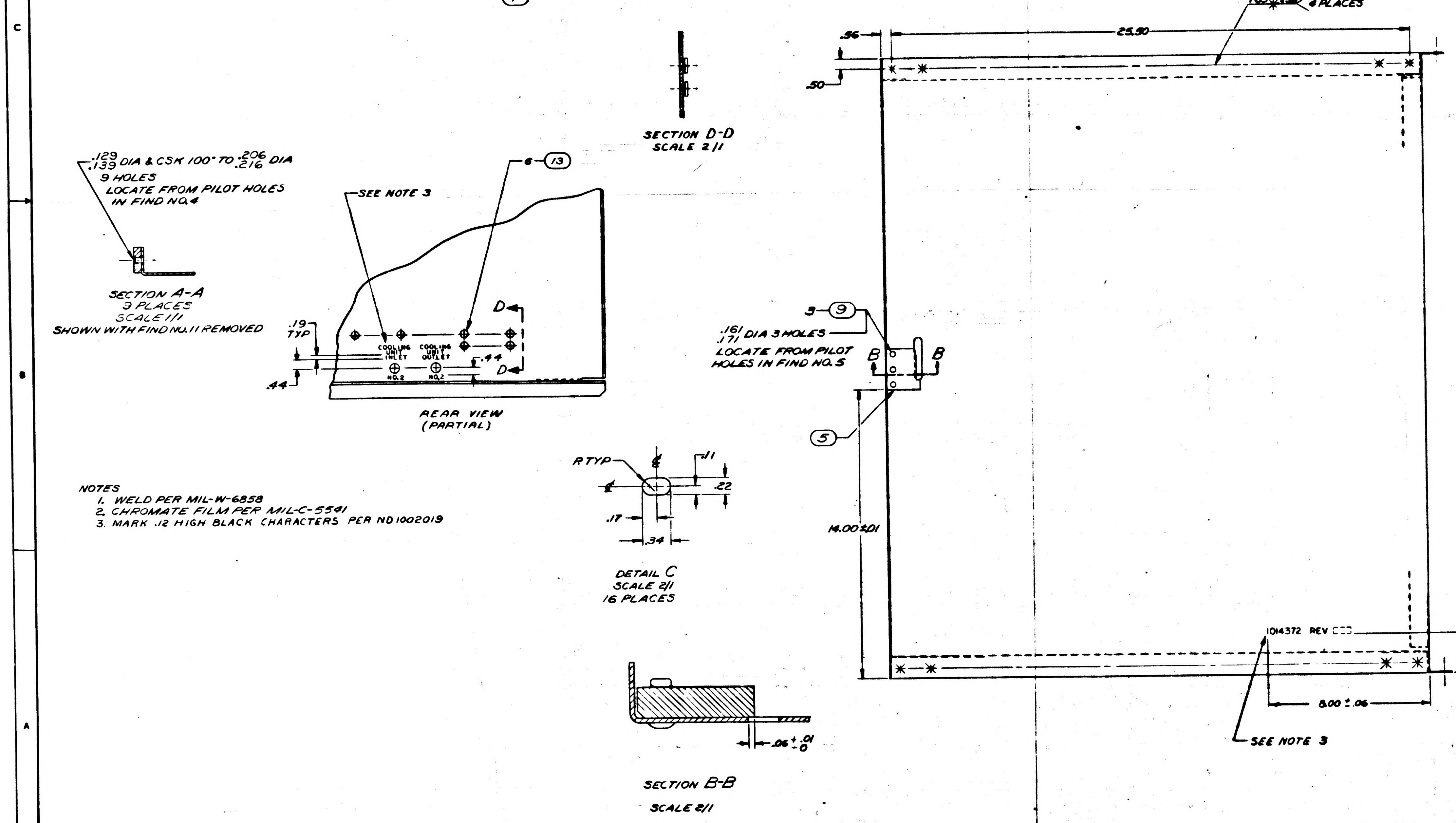
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO 03143	9/14/63	
A	CL II CHANGE PER RD-R 5485 C. La Cost CHK W. J. Gifford APPD G. Bean	8 NOV 63	
B	CHANGE PER TDRR 05558 DR CHK APPD		
C	CHANGED PER TDRR 10301 DR. W. Dawson CHK APPD.	June 64	



.52 ±.01
A
A
9-⑥
④
.02±.01
E
(SEE SHEET 4)
E
(SEE SHEET 4)
③
28-⑧
②
29.31
①
14-⑦
18-⑩
27.24±.02
12.25±.005 TYP
.75 REF
SEE DETAIL C
13.50
.50
(10)
765 ✳ 4.50 2 PLACES



(18)
765 ✳ 4.50 4 PLACES
.56
25.50
.50
SECTION D-D
SCALE 2/1
.129/.139 DIA & CSK 100° TO .206/.216 DIA
9 HOLES
LOCATE FROM PILOT HOLES IN FIND NO.4
SECTION A-A
9 PLACES
SCALE 1/1
SHOWN WITH FIND NO. 11 REMOVED
SEE NOTE 3
6-⑬
D
D
.19 TYP
.44
.44
COOLING UNIT INLET
COOLING UNIT OUTLET
NO.2
NO.2
REAR VIEW (PARTIAL)
9-⑨
.161/.171 DIA 3 HOLES
LOCATE FROM PILOT HOLES IN FIND NO.5
B
B
⑤
R TYP
.11
.22
.17
.34
DETAIL C
SCALE 2/1
16 PLACES
14.00±.01
1014372 REV
2.00±.06
8.00±.06
SEE NOTE 3
SECTION B-B
SCALE 2/1
.06 +.01/-0

NOTES
1. WELD PER MIL-W-6858
2. CHROMATE FILM PER MIL-C-5541
3. MARK .12 HIGH BLACK CHARACTERS PER ND1002019

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03143 DATE 9/14/63

REV STATUS OF PARTS	
PART NO.	REV SYMBOL
1014372-1	C
1014372-2	C
1014372-3	C
1014372-4	—
1014372-5	—
1014372-6	—
1014372-7	—

C	C	C	—
B	A	A	—
A	A	A	—
—	—	—	—
SH 1	SH 2	SH 3	SH 4
REV STATUS OF SHTS			

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
6	1006989-15	NUT, PLAIN, SELF CLINCHING	13
1	1014372-7	TRACK, RH	12
1	1014372-6	TRACK, LH	11
18	1006999-13	NUT, PLAIN, FLOATING	10
3	MS20470A5-12	RIVET, UNIVERSAL HEAD	9
28	MS20426A3-4	RIVET, SOLID, CSK 100°	8
14	NAS1031/C08	ANCHOR NUT	7
9	MS20426A4-6	RIVET, SOLID, CSK 100°	6
1	1014372-5	STRIKER	5
1	1014372-4	STRIP, FILLER	4
1	1014372-3	PANEL, SIDE, RH	3
1	1014372-2	PANEL, SIDE, LH	2
1	1014372-1	FRAME, CHASSIS	1

LIST OF MATERIALS

1014465	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±0°30'
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 4-498
DRAWN E. Elliott DATE 21 JUN 63
CHECKED 20 Aug 63
APPROVAL
APPROVAL 9/3/63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY,
COMPUTER COMPARTMENT
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014372
SCALE 1/2
WT
SHEET 1 OF 4

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014372

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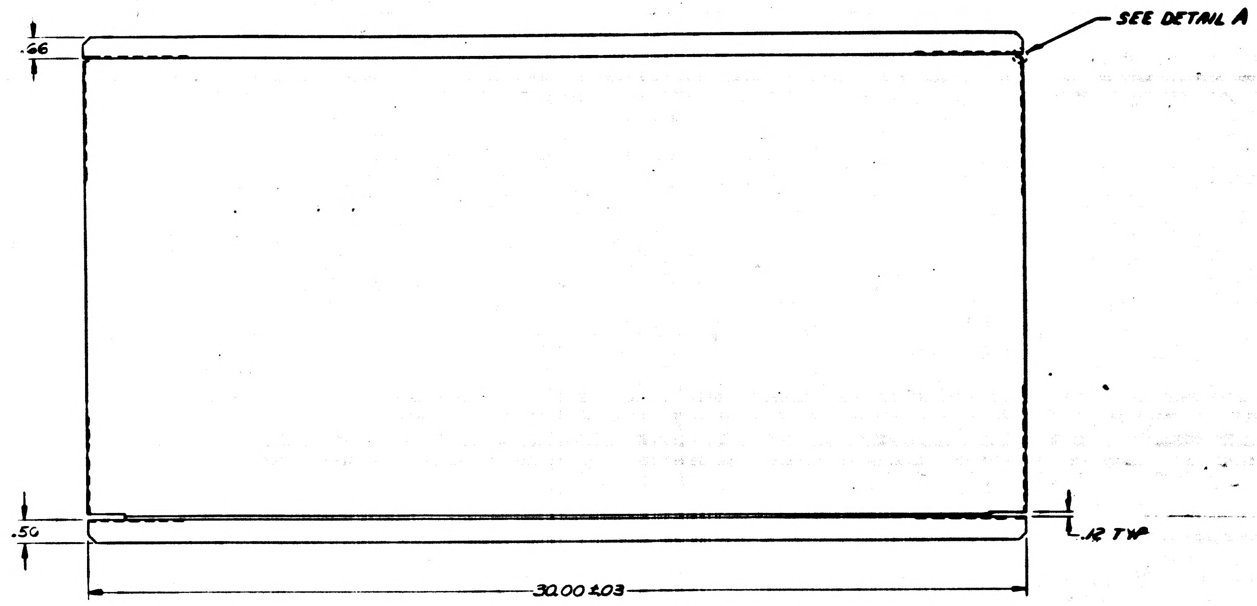
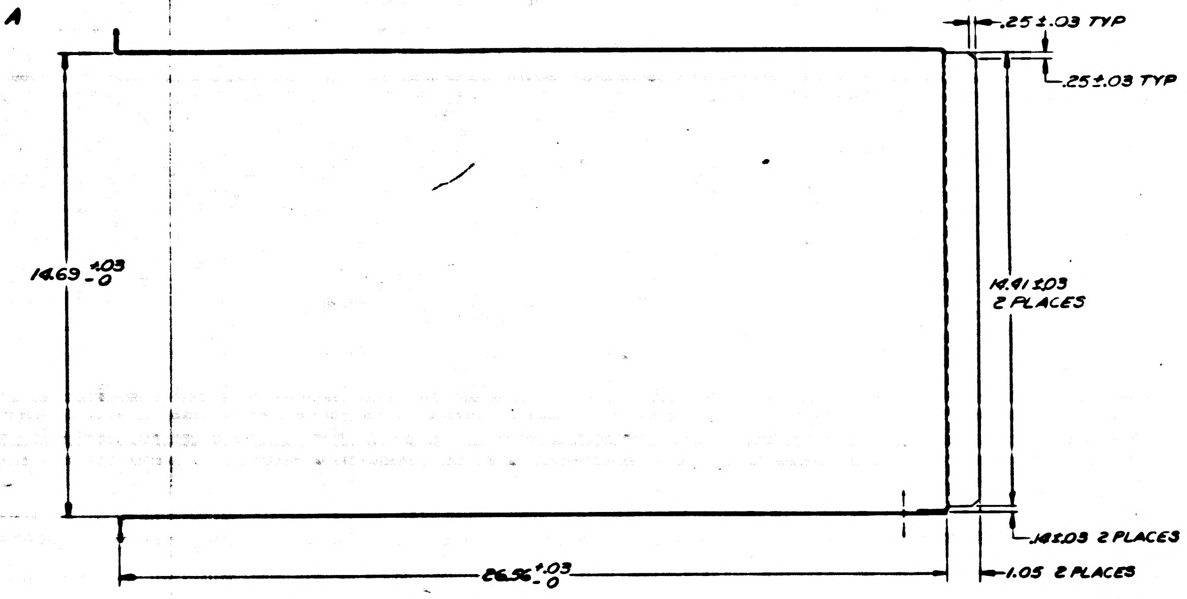
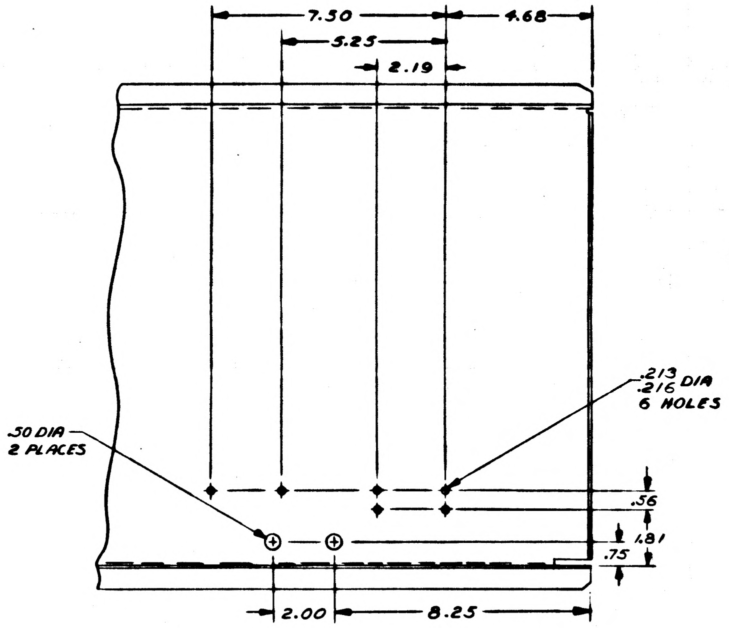
STE4101

REVISIONS

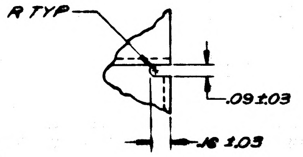
SYM	DESCRIPTION	DATE	APPROVED
–	~~CL B RELEASED PER TDRR NO.~~		
A	CL II CHANGE PER RD-R 5485 C. CHKW. APPD	8 NOV 63	
C	CHANGED PER TDRR 10301 DR. CHK. APPD	29 June 64	


SEE DETAIL A
.66
.50
.12 TYP
30.00 ±.03

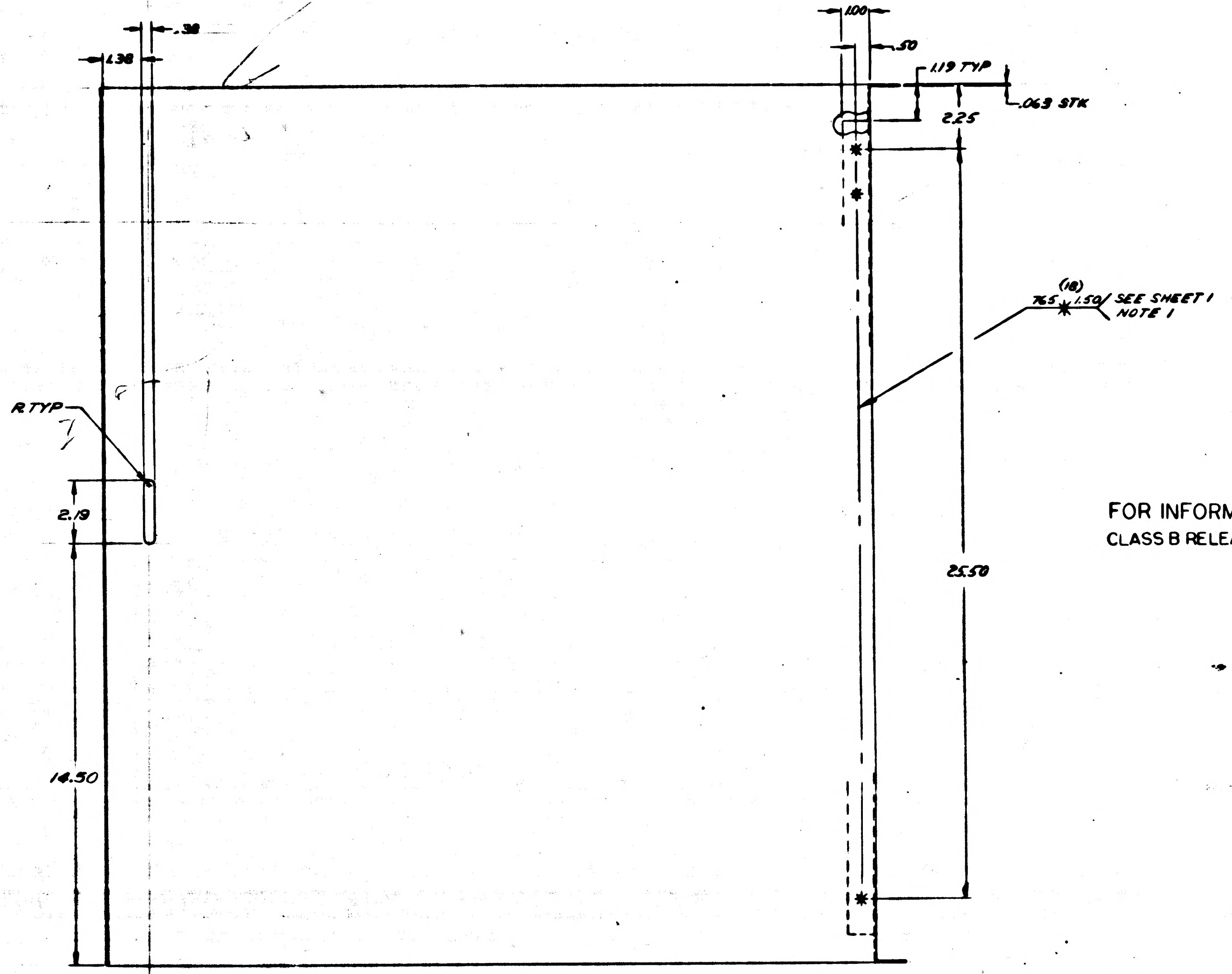

.25 ±.03 TYP
.25 ±.03 TYP
14.69 +.03 -0
14.91 ±.03
2 PLACES
.14 ±.03 2 PLACES
26.56 +.03 -0
1.05 2 PLACES


7.50
4.68
5.25
2.19
.213
.216 DIA
6 HOLES
.50 DIA
2 PLACES
.56
1.81
.75
2.00
8.25

REAR VIEW
(PARTIAL)


R TYP
.09 ±.03
.18 ±.03

DETAIL A
2 PLACES
SCALE 2/1


.38
1.38
1.00
.50
1.19 TYP
.063 STK
2.25
(18)
765
1.50
SEE SHEET 1
NOTE 1
R TYP
2.19
25.50
14.50

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03143 DATE 9/12/63

NOTES
1. MATL: 5052-H32 AL PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. INSIDE BEND RADII .03 ± .02

FRAME, CHASSIS
1014372-1

1014372

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 4-498
DRAWN DATE 13 JUNE 63
CHECKED 20 Aug 63
APPROVAL
APPROVAL 9/3/63
APPROVAL 9/4/63
NASA APPROVAL
MIT APPROVAL 9/6/63
MIT APPROVAL 9/12/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY
COMPUTER COMPARTMENT
AGC/CTS OPERATION CONSOLE

CODE IDENT NO.
SIZE J
NASA DRAWING NO 1014372
SCALE 1/2
WT
SHEET 2 OF 4

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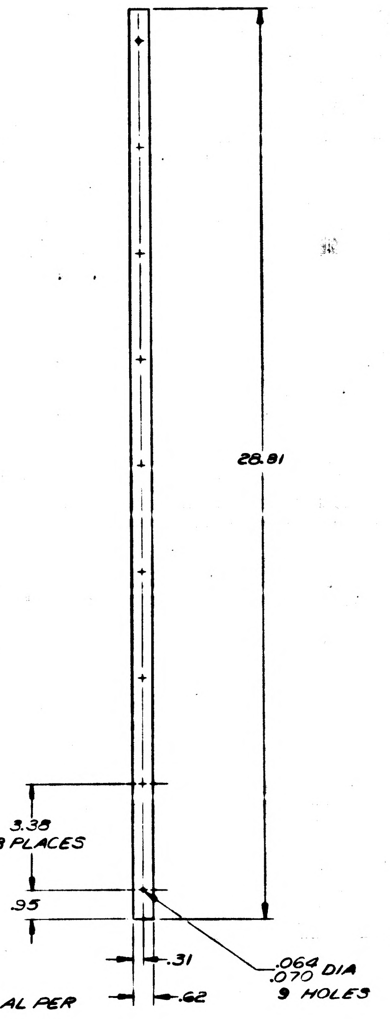
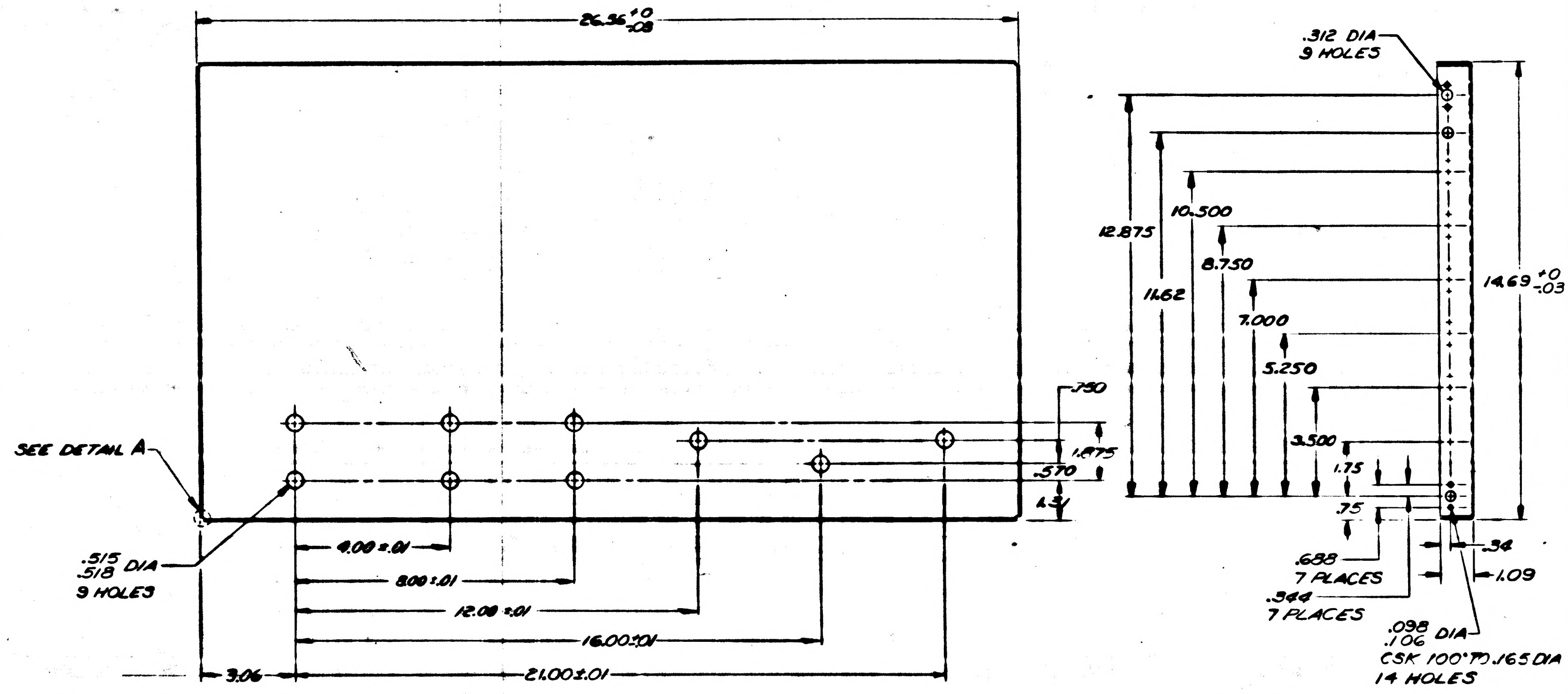
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO. 03143	9/11/6	
A	CL II CHANGE PER RD-R 5485 C. La Corti CHK J. Gifford APPD	8 NOV 63	
C	CHANGED PER TDRR 10301 DR. W. Darman CHK. APPD	29 June 64	

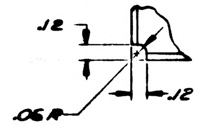

28.81
3.38
8 PLACES
.95
.31
.62
.064
.070 DIA
9 HOLES

NOTES
1. MAT'L: .190 THK 5052 H32 AL PER QQ-A-318
2. TOL; DECIMALS ±.02
3. REMOVE BURRS & SHARP EDGES

STRIP, FILLER
1014372-4

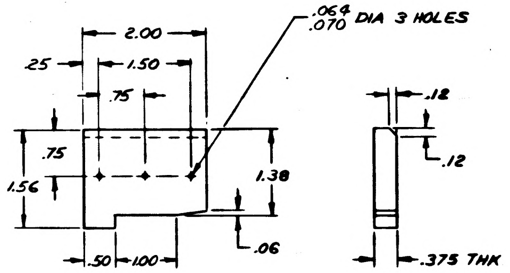

26.56 +0 -.03
SEE DETAIL A
.515
.518 DIA
9 HOLES
4.00±.01
8.00±.01
12.00±.01
16.00±.01
21.00±.01
3.06
.750
1.875
.570
1.31
.312 DIA
9 HOLES
12.875
10.500
11.62
8.750
7.000
5.250
3.500
1.75
.75
14.69 +0 -.03
.688
7 PLACES
.344
7 PLACES
.34
1.09
.098
.106 DIA
CSK 100° TO .165 DIA
14 HOLES

NOTES
1. MAT'L: .063 THK 5052 H32 AL PER QQ-A-318
2. INSIDE BEND RADII .03±.02
3. REMOVE BURRS & SHARP EDGES
4. TOL; DECIMALS ±.005, ±.02, ANGLES ±0°30'



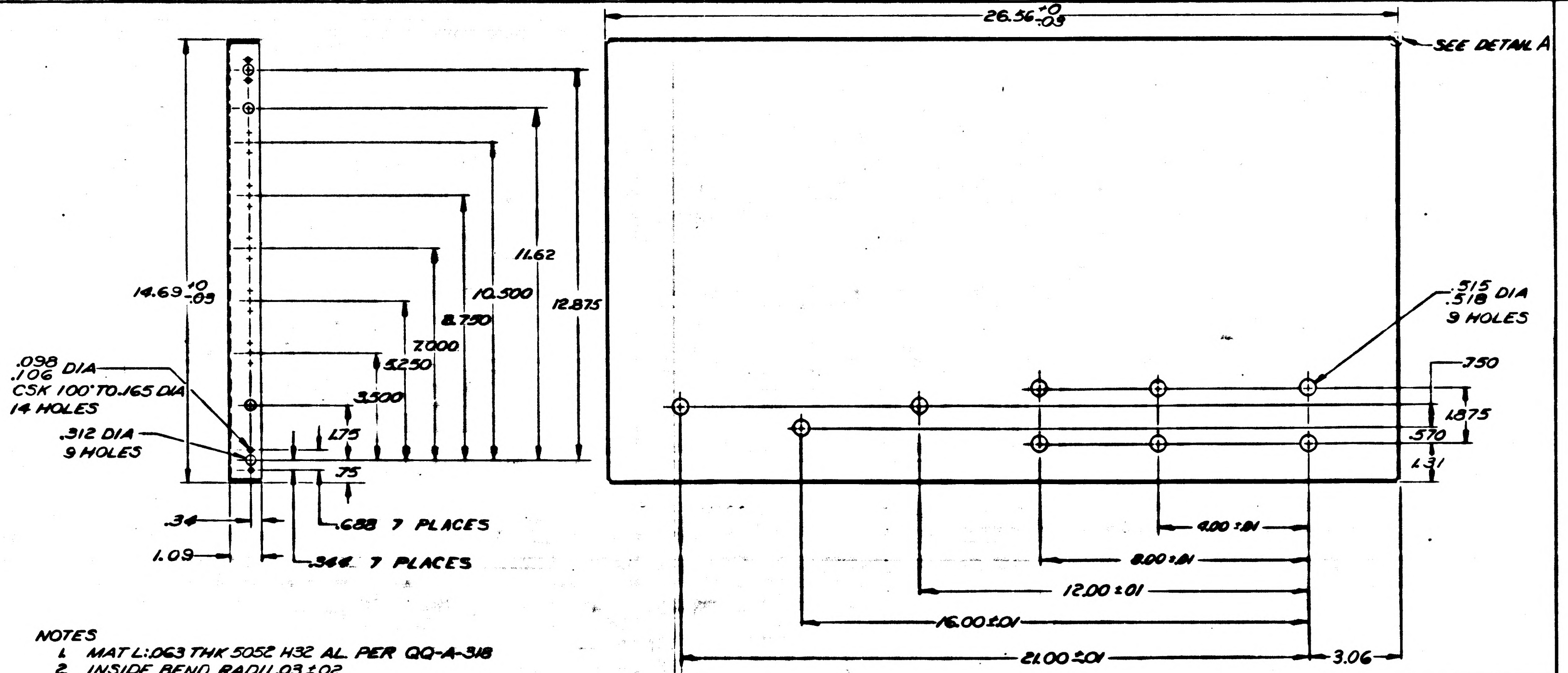
PANEL, SIDE, LH
1014372-2

DETAIL A
4 PLACES
SCALE 2/1

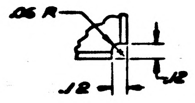

.064
.070 DIA 3 HOLES
2.00
1.50
.25
.75
.75
1.56
1.38
.06
.50
1.00
.12
.12
.375 THK

NOTES
1. MAT'L: NYLON PER MIL-P-17091B-2
2. REMOVE BURRS & SHARP EDGES
3. TOL; DECIMALS ±.005 ±.02
4. SCALE : 1/1

STRIKER
1014372-5


26.56 +0 -.03
SEE DETAIL A
14.69 +0 -.03
11.62
12.875
10.500
8.750
7.000
5.250
3.500
1.75
.75
.098
.106 DIA
CSK 100° TO .165 DIA
14 HOLES
.312 DIA
9 HOLES
.34
1.09
.688 7 PLACES
.344 7 PLACES
.515
.518 DIA
9 HOLES
.750
1.875
.570
1.31
4.00±.01
8.00±.01
12.00±.01
16.00±.01
21.00±.01
3.06

NOTES
1. MAT'L: .063 THK 5052 H32 AL PER QQ-A-318
2. INSIDE BEND RADII .03±.02
3. TOL; DECIMALS ±.005, ±.02, ANGLES ±0°30'
4. REMOVE BURRS & SHARP EDGES



PANEL, SIDE, RH
1014372-3

DETAIL A
4 PLACES
SCALE 2/1

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03143 DATE 9/11/67

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 4-498
DRAWN Ed Ellis DATE 17 JUN 63
CHECKED 20 Aug 63
APPROVAL
APPROVAL 9/3/63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 9/1/67

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY
COMPUTER COMPARTMENT
AGC/CTS OPERATION CONSOLE

CODE IDENT NO — SIZE J NASA DRAWING NO 1014372
SCALE 1/2 WT SHEET 3 OF 4

DRAFTING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014372

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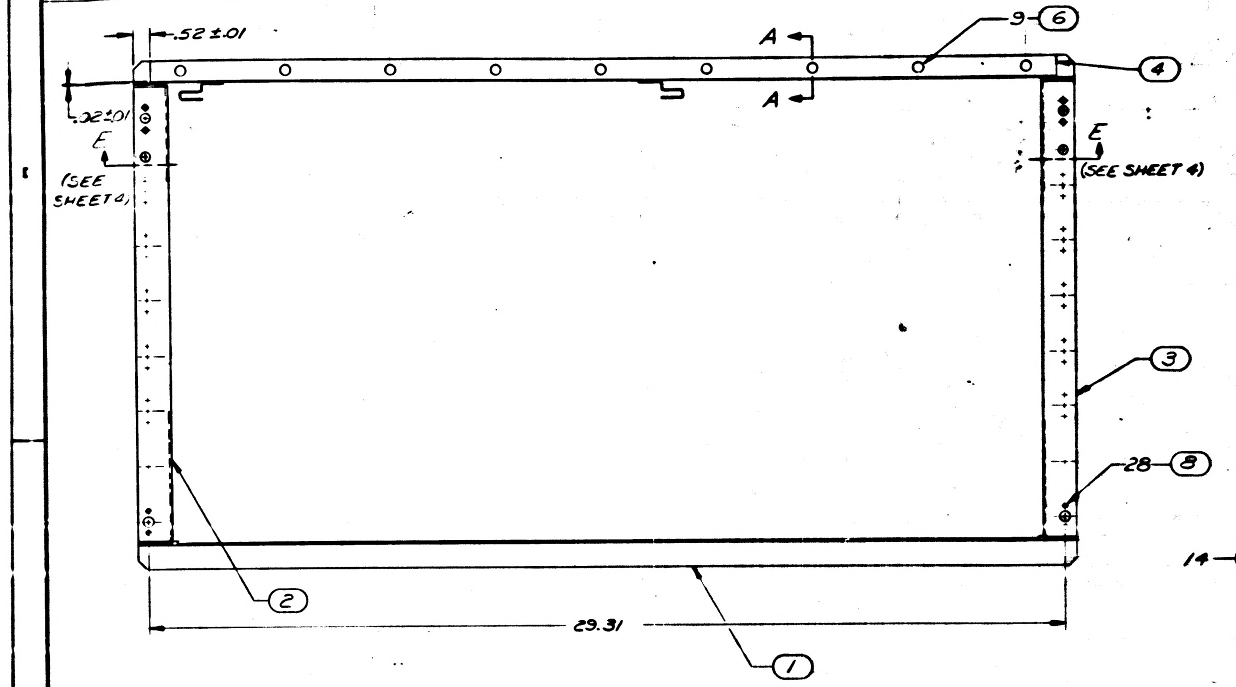
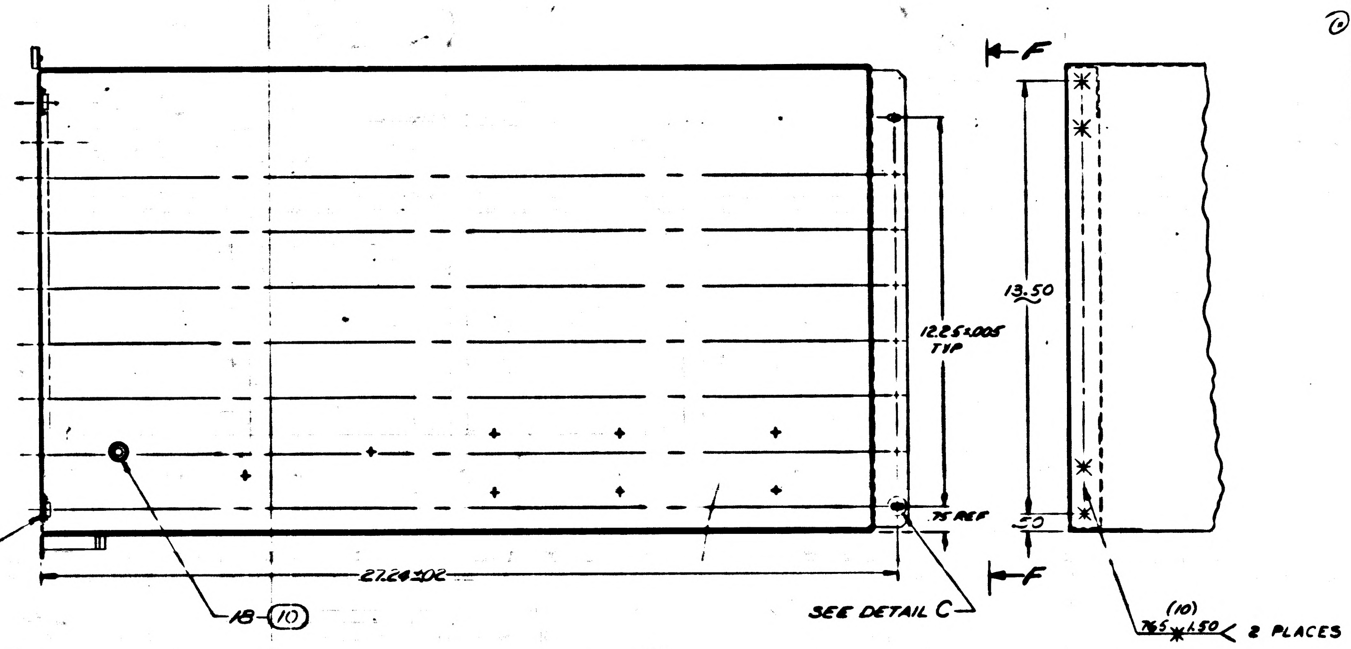
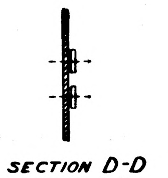
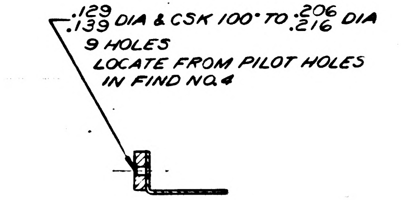
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO. 03143 9/12/63		
A	CL II CHANGE PER RD-R 5485 C. La Cost CHK W.J. Gifford APPD G. Bean	NOV 63	
B	CHANGE PER TDRR 05558 DR CHK APPD		
C	CHANGED PER TDRR 10301 DR. H. Dawson CHK APPD.	June 64	
D	CHANGED PER TDRR 11957 DR H. Jones CHK APPD	1 SEPT 64	A.E.F.


.52 ± .01
.22 ± .01
E
(SEE SHEET 4)
A
A
9 — ⑥
④
E
(SEE SHEET 4)
③
28 — ⑧
②
29.31
①

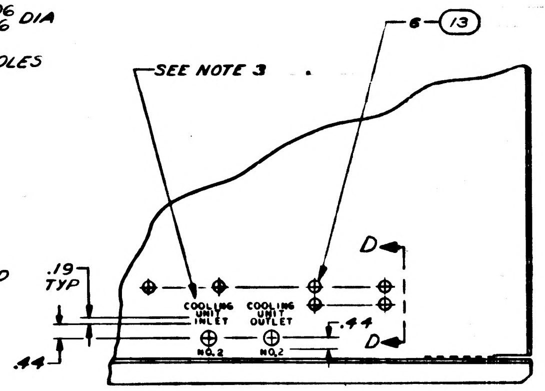

12.25 ± .005 TYP
13.50
.75 REF
.50
14 — ⑦
18 — ⑩
27.24 ± .02
SEE DETAIL C
F
F
(10)
.765 × .150 2 PLACES



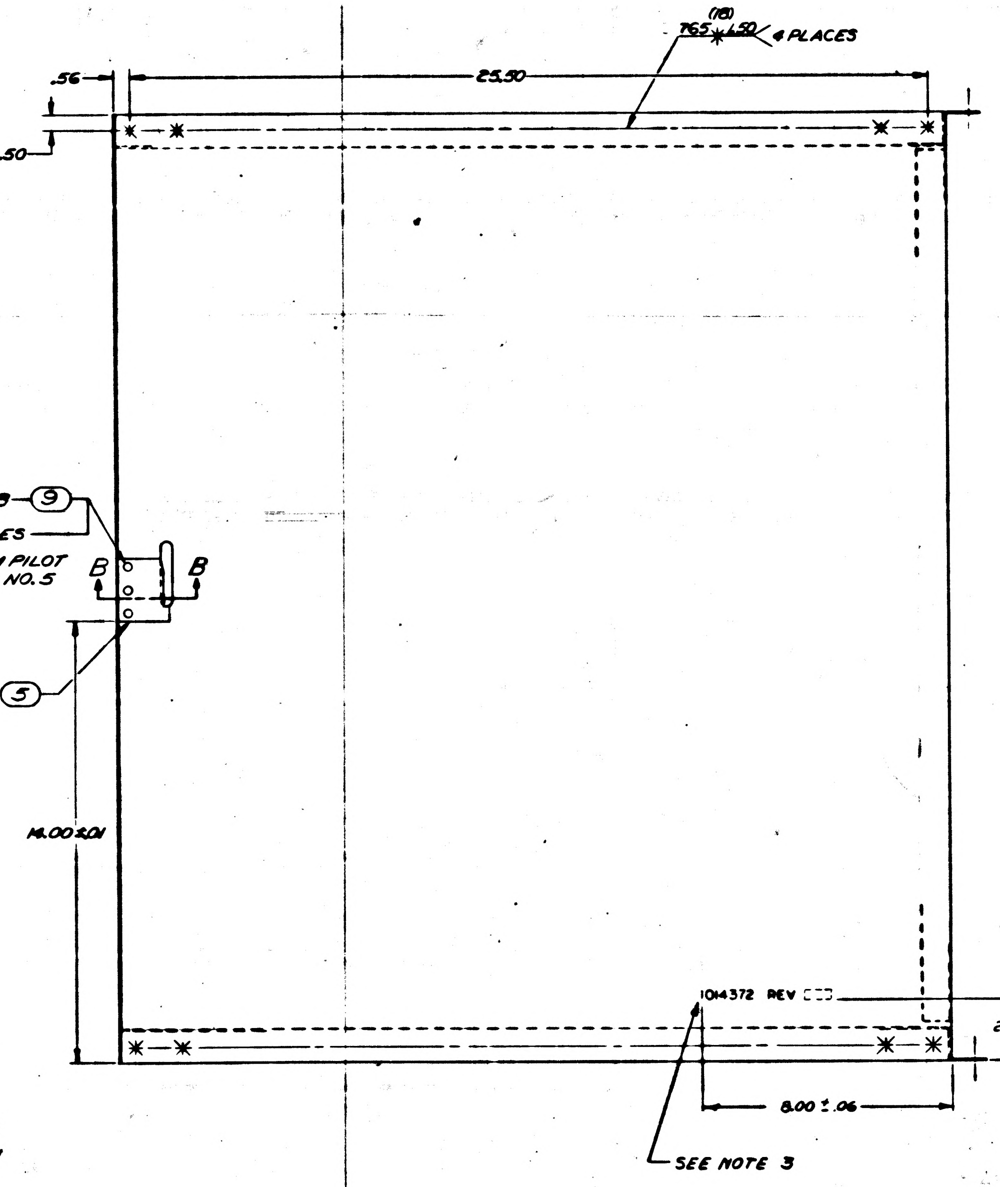
SECTION D-D
SCALE 2/1


.129/.139 DIA & CSK 100° TO .206/.216 DIA
9 HOLES
LOCATE FROM PILOT HOLES
IN FIND NO. 4

SECTION A-A
9 PLACES
SCALE 1/1
SHOWN WITH FIND NO. 11 REMOVED

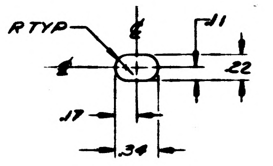

6 — ⑬
SEE NOTE 3
D
D
.19 TYP
COOLING UNIT INLET
COOLING UNIT OUTLET
NO. 2
NO. 2
.44
.44

PARTIAL VIEW F-F

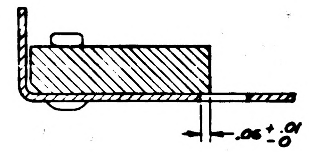

(18)
.765 × .150 4 PLACES
25.50
.56
.50
3 — ⑨
.161/.171 DIA 3 HOLES
LOCATE FROM PILOT HOLES IN FIND NO. 5
B
B
⑤
14.00 ± .01
1014372 REV
2.00 ± .06
8.00 ± .06
SEE NOTE 3

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03143 DATE 9/12/63

NOTES
1. WELD PER MIL-W-6858
2. CHROMATE FILM PER MIL-C-5541
3. MARK .12 HIGH BLACK CHARACTERS PER ND1002019


R TYP
.11
.22
.17
.34

DETAIL C
SCALE 2/1
16 PLACES



SECTION B-B
SCALE 2/1

REV STATUS OF PARTS	
PART NO.	REV SYMBOL
1014372-1	C
1014372-2	C
1014372-3	C
1014372-4	—
1014372-5	—
1014372-6	—
1014372-7	—

D	D	C	—
C	C	C	—
B	A	A	—
A	A	A	—
—	—	—	—
SH 1	SH 2	SH 3	SH 4
REV STATUS OF SHTS			

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
6	1006989-15	NUT, PLAIN, SELF CLINCHING	13
1	1014372-7	TRACK, RH	12
1	1014372-6	TRACK, LH	11
18	1006999-13	NUT, PLAIN, FLOATING	10
3	MS20470A5-12	RIVET, UNIVERSAL HEAD	9
28	MS20426A3-4	RIVET, SOLID, CSK 100°	8
14	NAS1031/C08	ANCHOR NUT	7
9	MS20426A4-6	RIVET, SOLID, CSK 100°	6
1	1014372-5	STRIKER	5
1	1014372-4	STRIP, FILLER	4
1	1014372-3	PANEL, SIDE, RH	3
1	1014372-2	PANEL, SIDE, LH	2
1	1014372-1	FRAME, CHASSIS	1

LIST OF MATERIALS

1014372

1014465	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±0°30'
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 4-498
DRAWN E.J. Belliveau DATE 21 JUNE 63
CHECKED A.J. Maimone 20 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY,
COMPUTER COMPARTMENT
AGC/CTS OPERATION CONSOLE

CODE IDENT NO — SIZE J NASA DRAWING NO 1014372
SCALE 1/2 WT SHEET 1 OF 4

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014372

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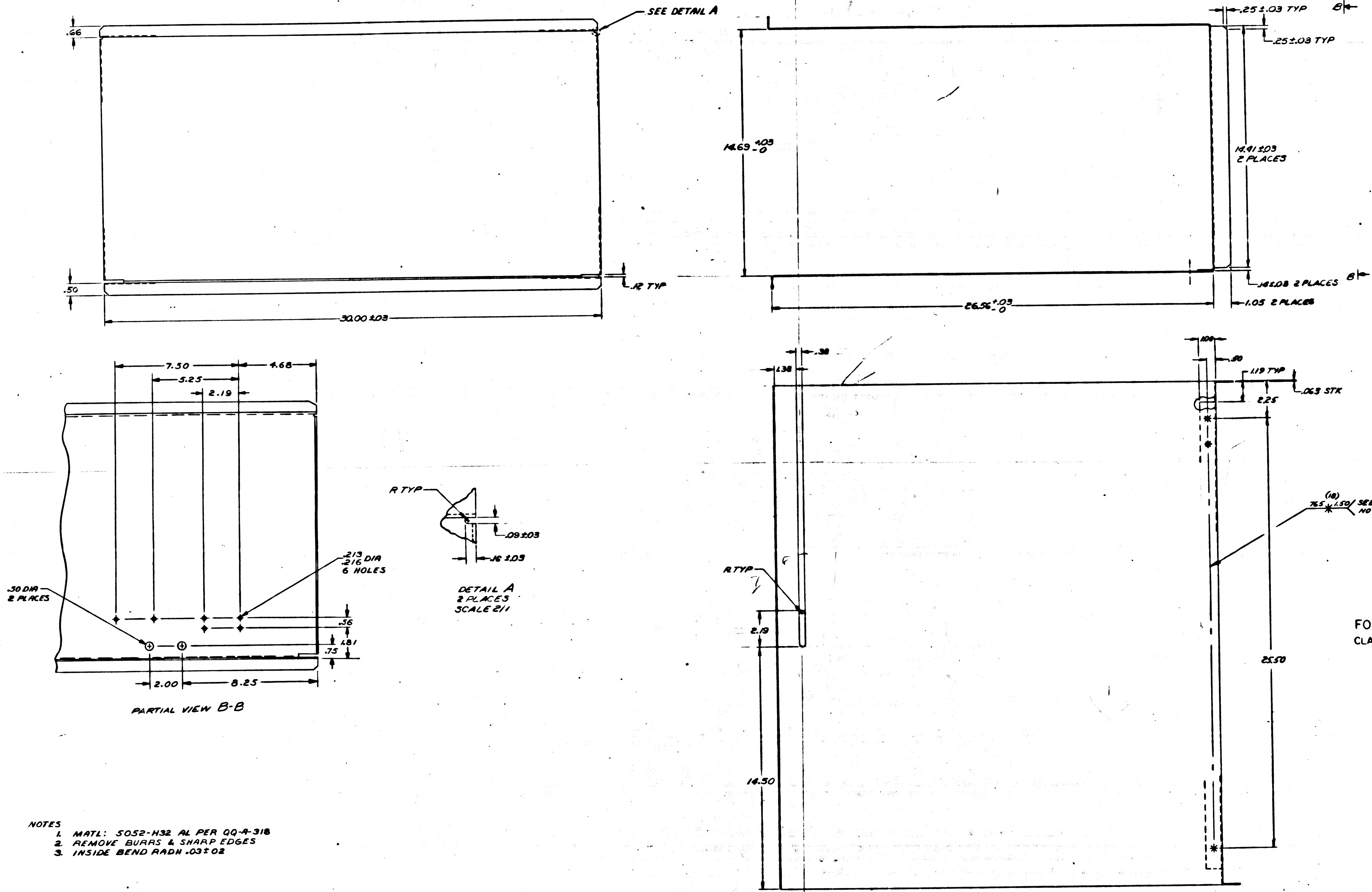
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO.		
A	CL II CHANGE PER RD-R 5485 C. Le Bat CHK W. J. Hoffman APPD	8 NOV 63	
C	CHANGED PER TDRR 10301 DR. CHK APPD	29 Jan 64	
D	CHANGED PER TDRR 11957 DR. CHK APPD	1 SEPT 64	



SEE DETAIL A
.66
.50
.12 TYP
30.00±.03
.25±.03 TYP
.25±.03 TYP
B
14.69 +.03 -0
14.91±.03
2 PLACES
.14±.08 2 PLACES
B
26.56 +.03 -0
1.05 2 PLACES
7.50
5.25
2.19
4.68
.213 .216 DIA
6 HOLES
.50 DIA
2 PLACES
.56
.81
.75
2.00
8.25
PARTIAL VIEW B-B
R TYP
.09±.03
.16±.03
DETAIL A
2 PLACES
SCALE 2/1
.38
1.38
.100
.50
1.19 TYP
.063 STK
2.25
(18)
.765 .150
SEE SHEET 1
NOTE 1
R TYP
2.19
25.50
14.50

NOTES
1. MATL: 5052-H32 AL PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. INSIDE BEND RADII .03±.02

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03143 DATE 9/12/63

FRAME, CHASSIS
1014372-1

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 4-498
DRAWN E. J. Hollis DATE 13 JUNE 63
CHECKED A. J. Marcucci 20 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 9/12/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY
COMPUTER COMPARTMENT
AGC/CTS OPERATION CONSOLE

CODE IDENT NO.
SIZE J
NASA DRAWING NO 1014372
SCALE 1/2
WT
SHEET 2 of 2

1014372

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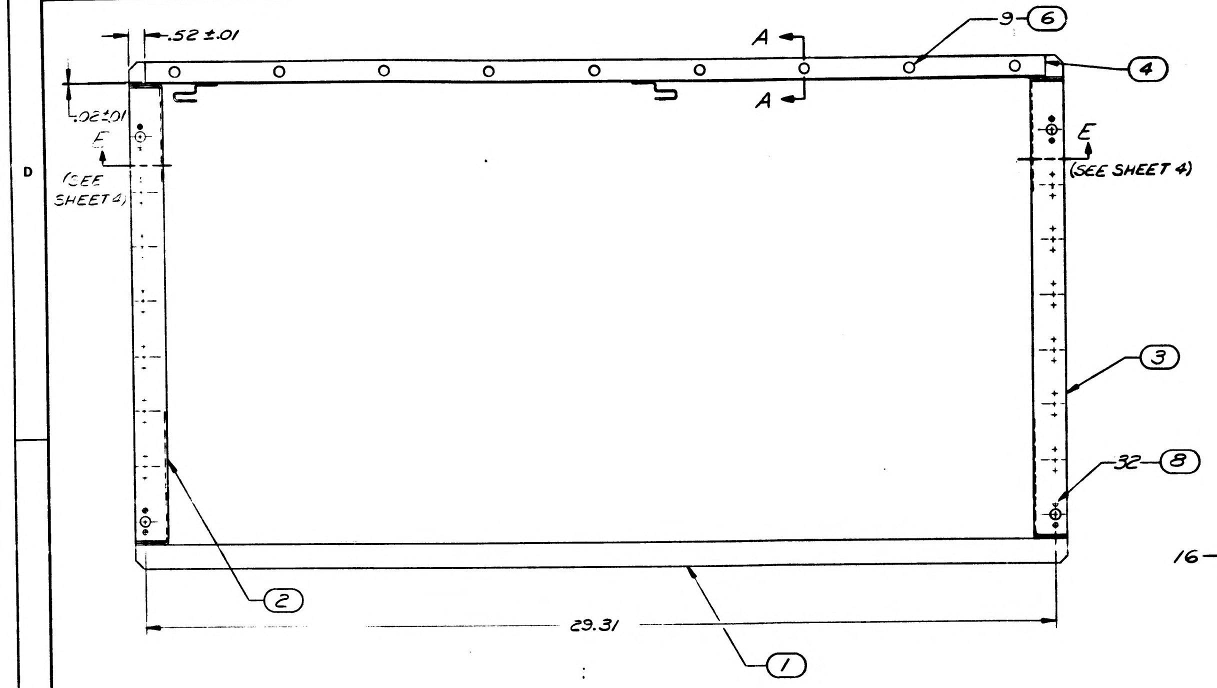
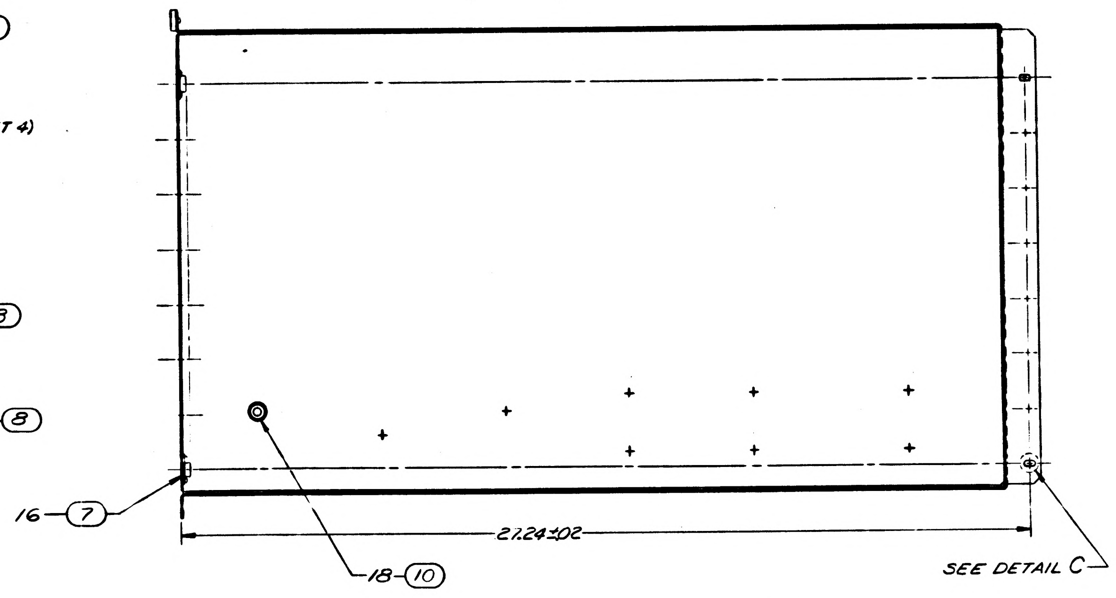
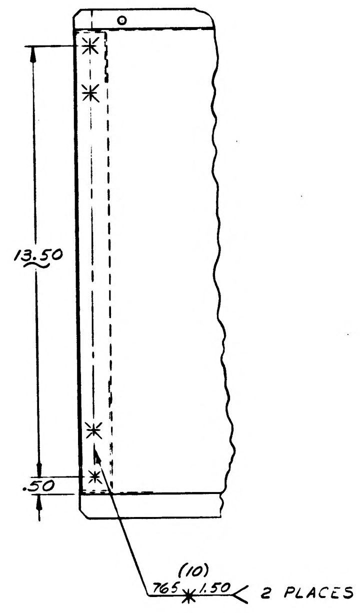
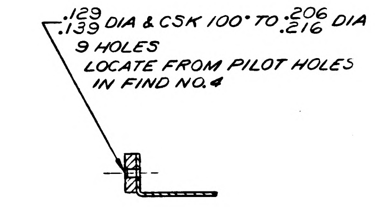
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO. 03143	9/14/63	

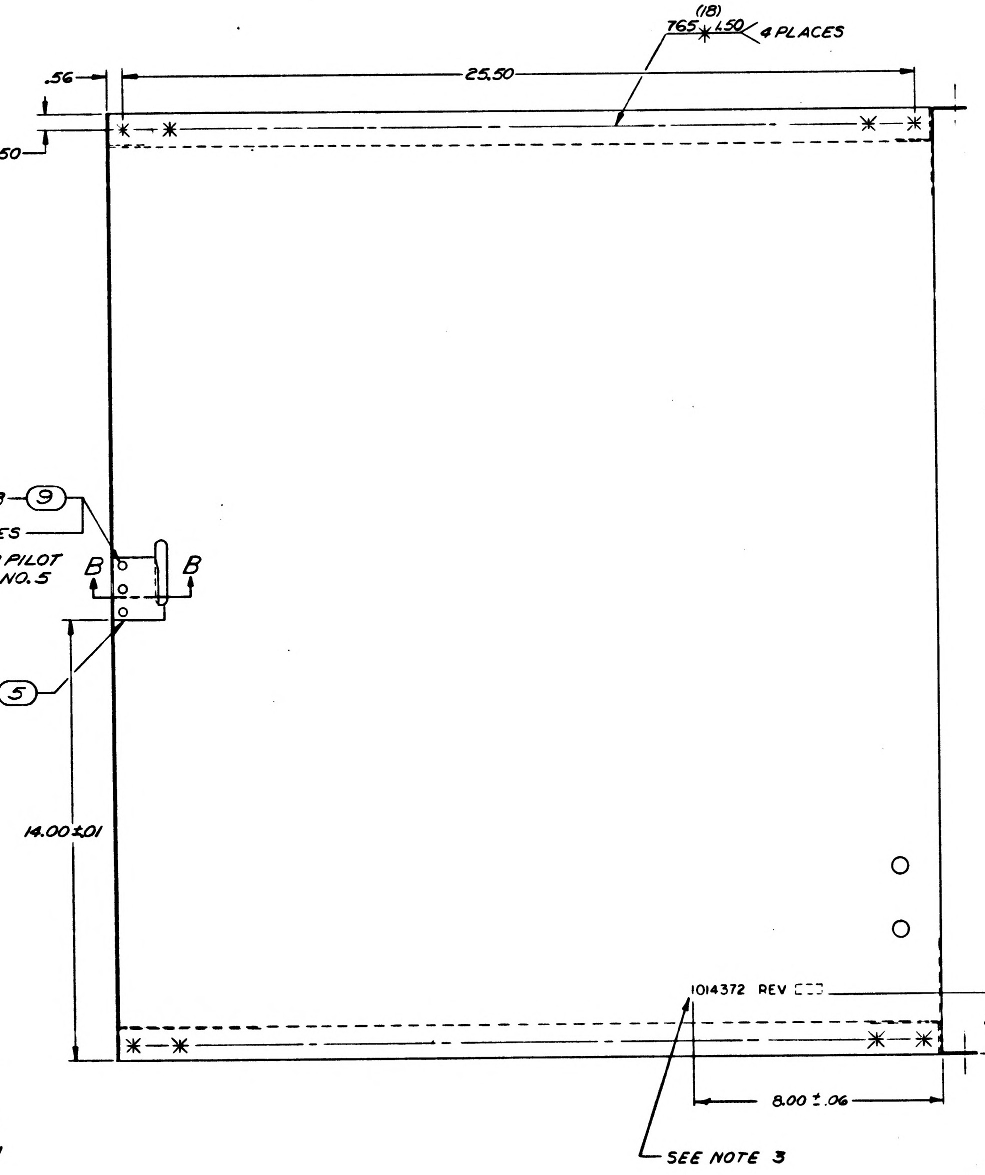

.52 ±.01
.02 ±.01
E
(SEE SHEET 4)
A
A
9 – ⑥
④
E
(SEE SHEET 4)
③
32 – ⑧
②
29.31
①


16 – ⑦
27.24 ±.02
18 – ⑩
SEE DETAIL C

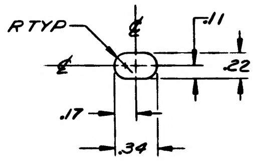

13.50
.50
(10)
765 * 1.50 2 PLACES


.129/.139 DIA & CSK 100° TO .206/.216 DIA
9 HOLES
LOCATE FROM PILOT HOLES
IN FIND NO.4

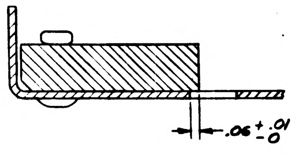
SECTION A-A
9 PLACES
SCALE 1/1
SHOWN WITH FIND NO.11 REMOVED


(18)
765 * 1.50 4 PLACES
.56
25.50
.50
3 – ⑨
.161/.171 DIA 3 HOLES
LOCATE FROM PILOT
HOLES IN FIND NO.5
B
B
⑤
14.00 ±.01
1014372 REV
2.00 ±.06
8.00 ±.06
SEE NOTE 3

NOTES
1. WELD PER MIL-W-6858
2. CHROMATE FILM PER MIL-C-5541
3. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019


R TYP
℄
.11
.22
℄
.17
.34

DETAIL C
SCALE 2/1
16 PLACES



SECTION B-B
3 PLACES
SCALE 2/1

(14)

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03143 DATE 9/14/63

REV STATUS OF PARTS	
PART NO.	REV SYMBOL
1014372-1	—
1014372-2	—
1014372-3	—
1014372-4	—
1014372-5	—
1014372-6	—
1014372-7	—

—	—	—	—
SH 1	SH 2	SH 3	SH 4
REV STATUS OF SHTS			

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014372-7	TRACK, RH	12
1	1014372-6	TRACK, LH	11
18	1006999-13	NUT, PLAIN, FLOATING	10
3	MS20470A5-12	RIVET, UNIVERSAL HEAD	9
32	MS20426A3-4	RIVET, SOLID, CSK 100°	8
16	1006125	ANCHOR NUT	7
9	MS20426A4-6	RIVET, SOLID, CSK 100°	6
1	1014372-5	STRIKER	5
1	1014372-4	STRIP, FILLER	4
1	1014372-3	PANEL, SIDE, RH	3
1	1014372-2	PANEL, SIDE, LH	2
1	1014372-1	FRAME, CHASSIS	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±0°30'
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 4-498
DRAWN E.J. Belliard DATE 21 JUN 63
CHECKED [illegible] 20 Aug 63
APPROVAL [illegible]
APPROVAL [illegible] 9/3/63
APPROVAL [illegible] 9/3/63
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY.
COMPUTER COMPARTMENT
AGC/CTS OPERATION CONSOLE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014372
SCALE 1/2
WT
SHEET 1 OF 4

1014372

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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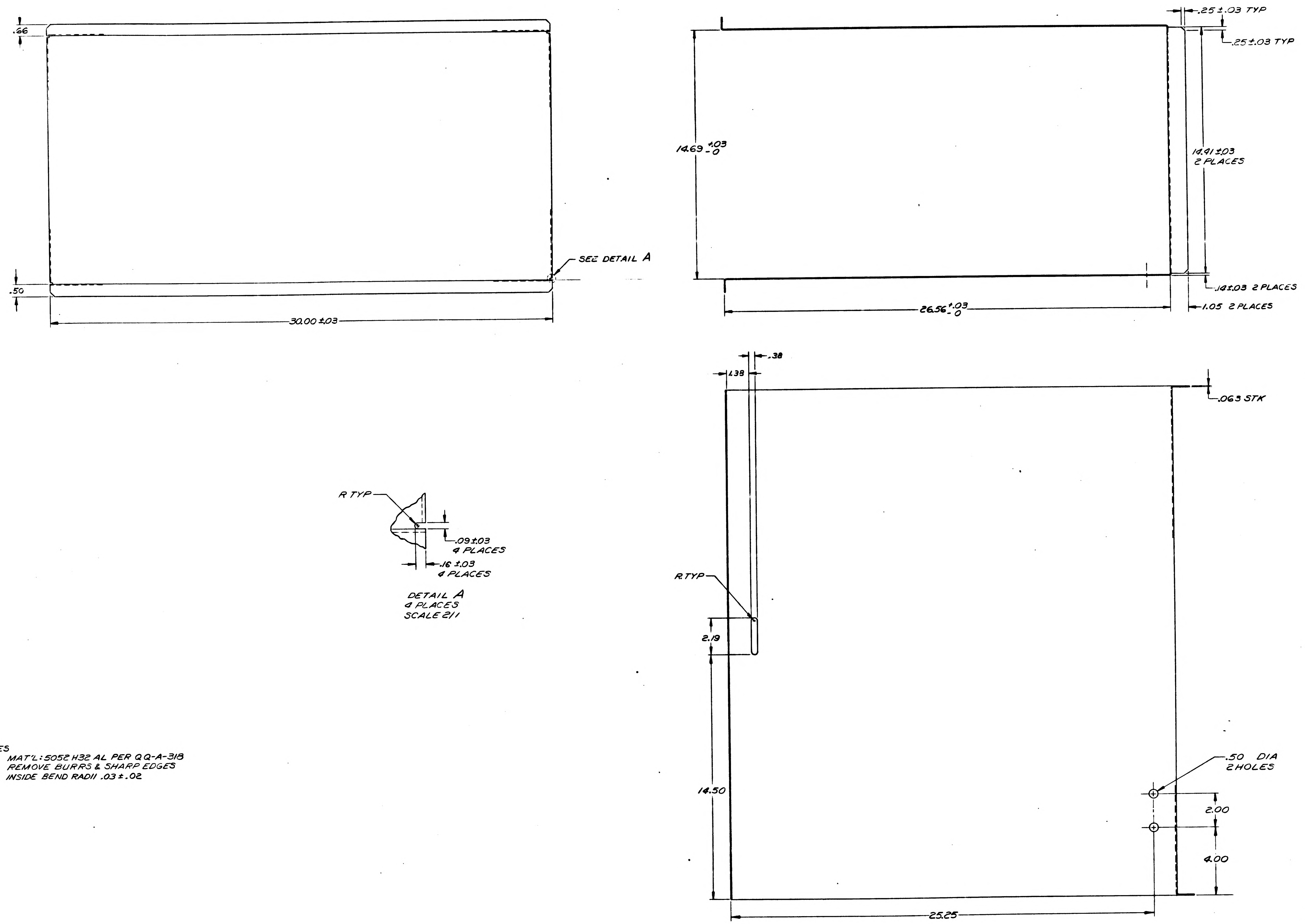
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO.		


.66
.50
30.00±.03
SEE DETAIL A
.25±.03 TYP
.25±.03 TYP
14.69 +.03 -0
14.91±.03
2 PLACES
.14±.03 2 PLACES
26.56 +.03 -0
1.05 2 PLACES
.38
1.38
.063 STK
R TYP
.09±.03
4 PLACES
.16±.03
4 PLACES
DETAIL A
4 PLACES
SCALE 2/1
R TYP
2.19
14.50
.50 DIA
2 HOLES
2.00
4.00
25.25

NOTES
1. MAT'L: 5052 H32 AL PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. INSIDE BEND RADII .03±.02

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03143 DATE 9/12/63

FRAME, CHASSIS
1014372-1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 4-498
DRAWN El Hillis DATE 13 JUN 63
CHECKED A. J. Mangano 20 Aug 63
APPROVAL
APPROVAL 9/3/63
APPROVAL 9/4/63
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 9/12/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY
COMPUTER COMPARTMENT
AGC/CTS OPERATION CONSOLE

CODE IDENT NO.
SIZE J
NASA DRAWING NO 1014372
SCALE 1/2
WT
SHEET 2 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014372

1014372

INCHES
0
PHOTOGRAPHIC SCALE ONLY

14

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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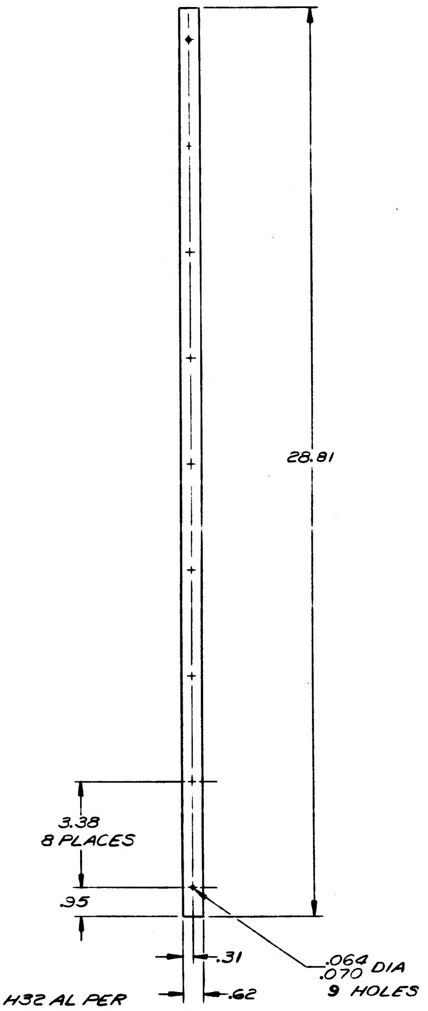
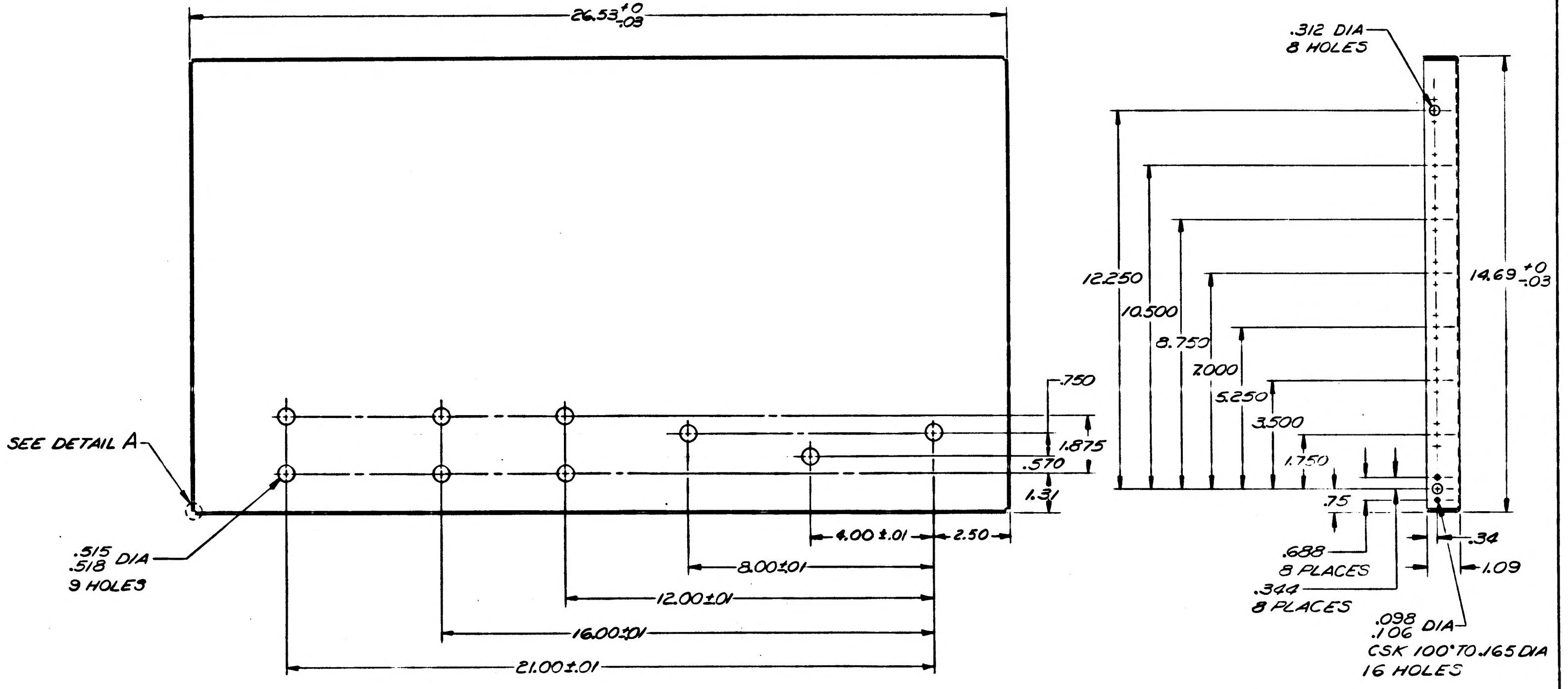
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO. 03143	[illegible]	


28.81
3.38
8 PLACES
.95
.31
.62
.064
.070 DIA
9 HOLES

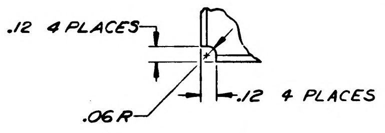
NOTES
1. MAT'L: .190 THK 5052 H32 AL PER QQ-A-318
2. TOL; DECIMALS ±.02
3. REMOVE BURRS & SHARP EDGES

STRIP, FILLER
1014372-4

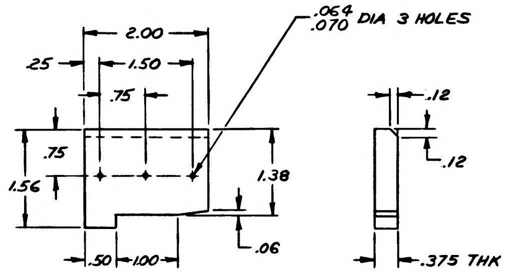

26.53 +0 -.03
SEE DETAIL A
.515
.518 DIA
9 HOLES
.750
1.875
.570
1.31
4.00 ±.01
2.50
8.00±.01
12.00±.01
16.00±.01
21.00±.01
.312 DIA
8 HOLES
12.250
10.500
8.750
7.000
5.250
3.500
1.750
.75
14.69 +0 -.03
.688
8 PLACES
.344
8 PLACES
.34
1.09
.098
.106 DIA
CSK 100° TO .165 DIA
16 HOLES

NOTES
1. MAT'L: .063 THK 5052 H32 AL PER QQ-A-318
2. INSIDE BEND RAD .03±.02
3. REMOVE BURRS & SHARP EDGES
4. TOL; DECIMALS ±.005, ±.02, ANGLES ±0°30'

PANEL, SIDE, LH
1014372-2

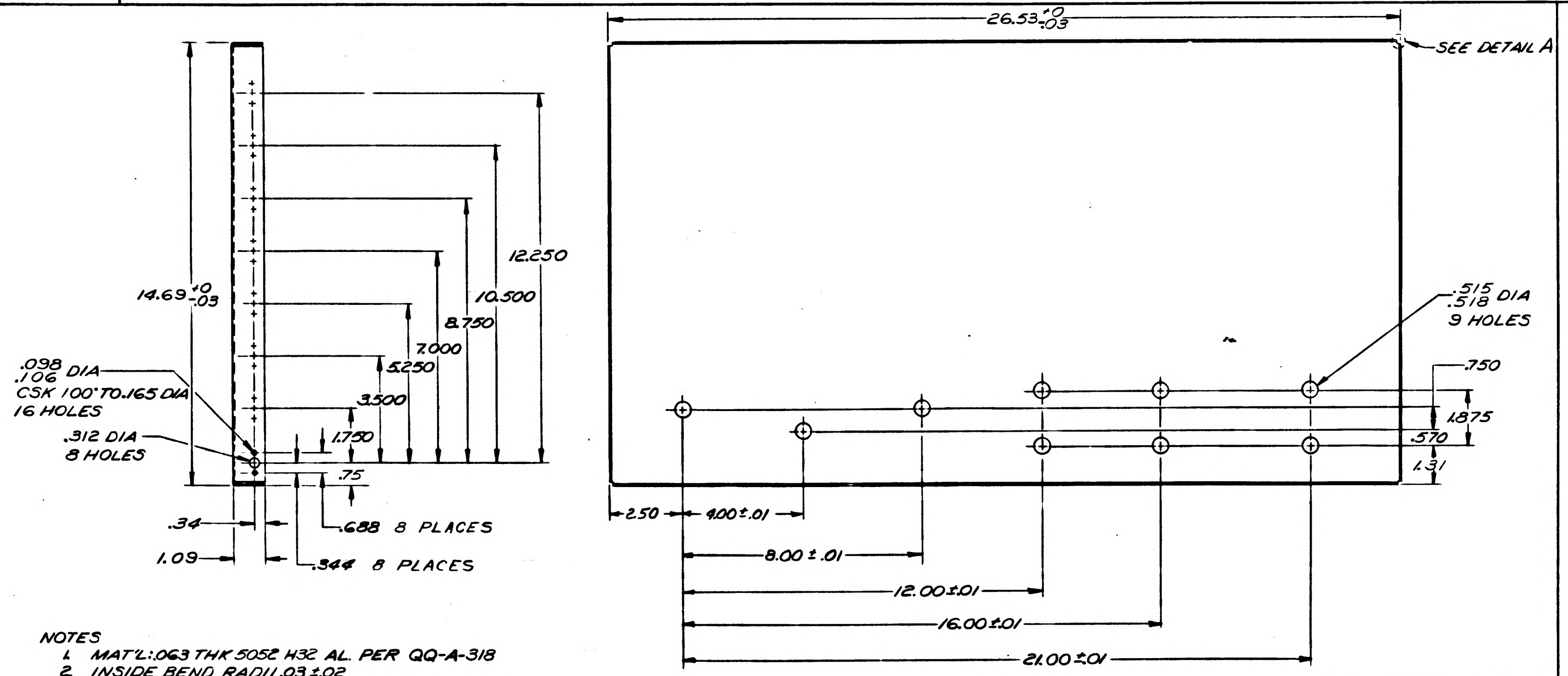

.12 4 PLACES
.12 4 PLACES
.06 R

DETAIL A
SCALE 2/1


.064
.070 DIA 3 HOLES
2.00
.25
1.50
.75
.75
1.56
1.38
.50
1.00
.06
.12
.12
.375 THK

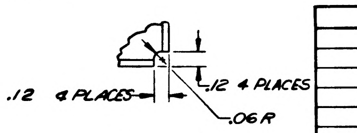
NOTES
1. MAT'L: NYLON PER MIL-P-17091B-2
2. REMOVE BURRS & SHARP EDGES
3. TOL; DECIMALS ±.005 ±.02
4. SCALE: 1/1

STRIKER
1014372-5


26.53 +0 -.03
SEE DETAIL A
14.69 +0 -.03
12.250
10.500
8.750
7.000
5.250
3.500
1.750
.75
.098
.106 DIA
CSK 100° TO .165 DIA
16 HOLES
.312 DIA
8 HOLES
.34
1.09
.688 8 PLACES
.344 8 PLACES
.515
.518 DIA
9 HOLES
.750
1.875
.570
1.31
2.50
4.00±.01
8.00±.01
12.00±.01
16.00±.01
21.00±.01

NOTES
1. MAT'L: .063 THK 5052 H32 AL PER QQ-A-318
2. INSIDE BEND RAD .03±.02
3. TOL; DECIMALS ±.005, ±.02, ANGLES ±0°30'
4. REMOVE BURRS & SHARP EDGES

PANEL, SIDE, RH
1014372-3


.12 4 PLACES
.12 4 PLACES
.06 R

DETAIL A
SCALE 2/1

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03143 DATE 9/11/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 4-498
DRAWN Ed [illegible] DATE 17 JUN 63
CHECKED [illegible] 20 Aug 63
APPROVAL [illegible]
APPROVAL [illegible] 9/3/63
APPROVAL [illegible] 9/3/63
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 9/11/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY
COMPUTER COMPARTMENT
AGC/CTS OPERATION CONSOLE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014372
SCALE 1/2
WT
SHEET 3 of 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

(14)

1014372

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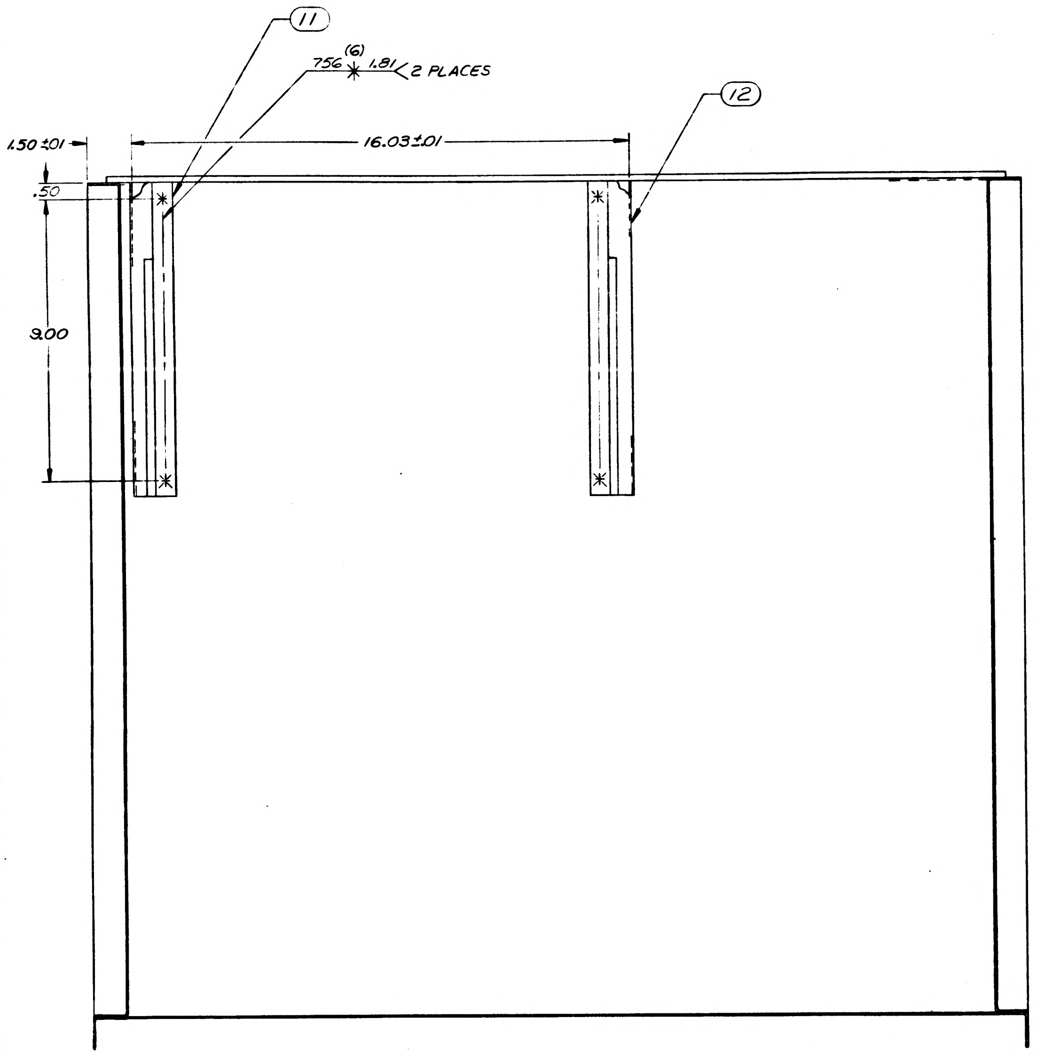
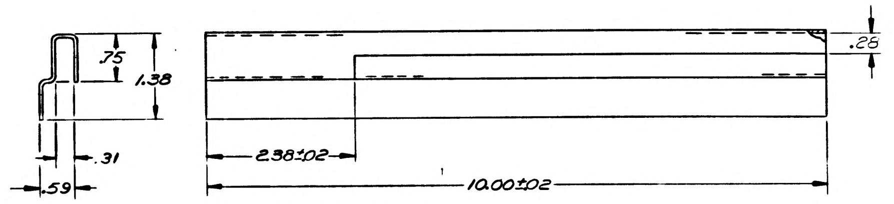
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO. 03143	9-63	

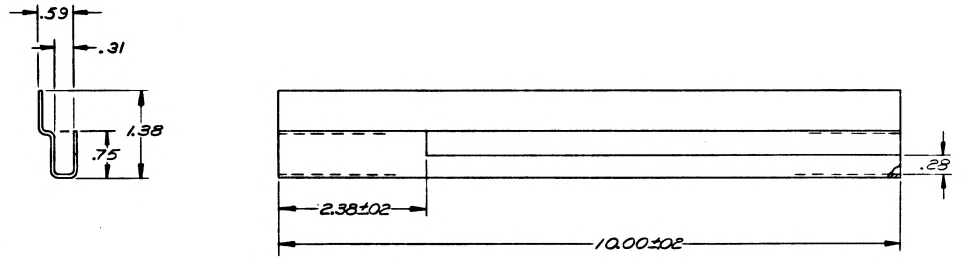


SECTION E-E
SCALE 1/2
SEE SHEET 1



NOTES
1. MAT'L: .063 THK 5052 H32 AL PER QQ-A-318
2. BEND RADII .06±.02
3. TOL: ±.03
4. REMOVE BURRS AND SHARP EDGES
5. SCALE: 1/1

TRACK, RH
1014372-7



NOTES
1. MAT'L: .063 THK 5052 H32 AL PER QQ-A-318
2. BEND RADII .06±.02
3. TOL ±.03
4. REMOVE BURRS AND SHARP EDGES
5. SCALE: 1/1

TRACK, LH
1014372-6

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03143 DATE 9/4/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
LIST OF MATERIALS		

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO
DRAWN E. Elliot DATE 3AUG63
CHECKED A. Primano 20AUG63
APPROVAL
APPROVAL 9/3/63
APPROVAL 9/3/63
NASA APPROVAL 9/13/63
MIT APPROVAL
MIT APPROVAL 9/12/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY,
COMPUTER COMPARTMENT
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014372
SCALE 1/2
WT
SHEET 4 OF 4

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

(14)

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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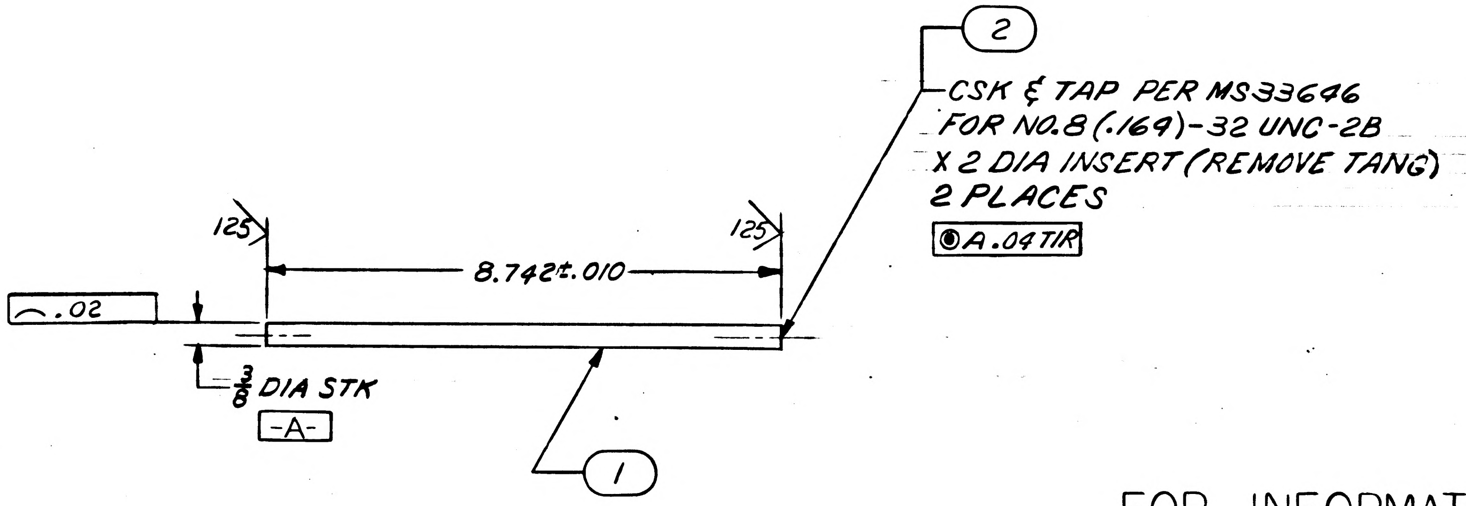
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		



FOR INFORMATON ONLY

CLASS B RELEASED TDRR NO. 03143 DATE 9/12/63

NOTES

1. MATL AL 2024-T4 PER QQ-A-268 TEMP T4
2. REMOVE BURRS & SHARP EDGES
3. CLEAR ANODIZE PER MIL-A-8625, TYPE II

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2	M21209C0820	INSERT, SCREW LOCK	2
1	1014373-1	GUARD	1

LIST OF MATERIALS

1014377	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE 19JUN63
CHECKED D. PERRONE 14 AUG 63
APPROVAL
APPROVAL 9/3/63
APPROVAL 9/3/63
NASA APPROVAL W. S. 9/12/63
MIT APPROVED 12 Sep 63
MIT APPROVAL 11 Sep 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

GUARD, SUPPORT

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014373
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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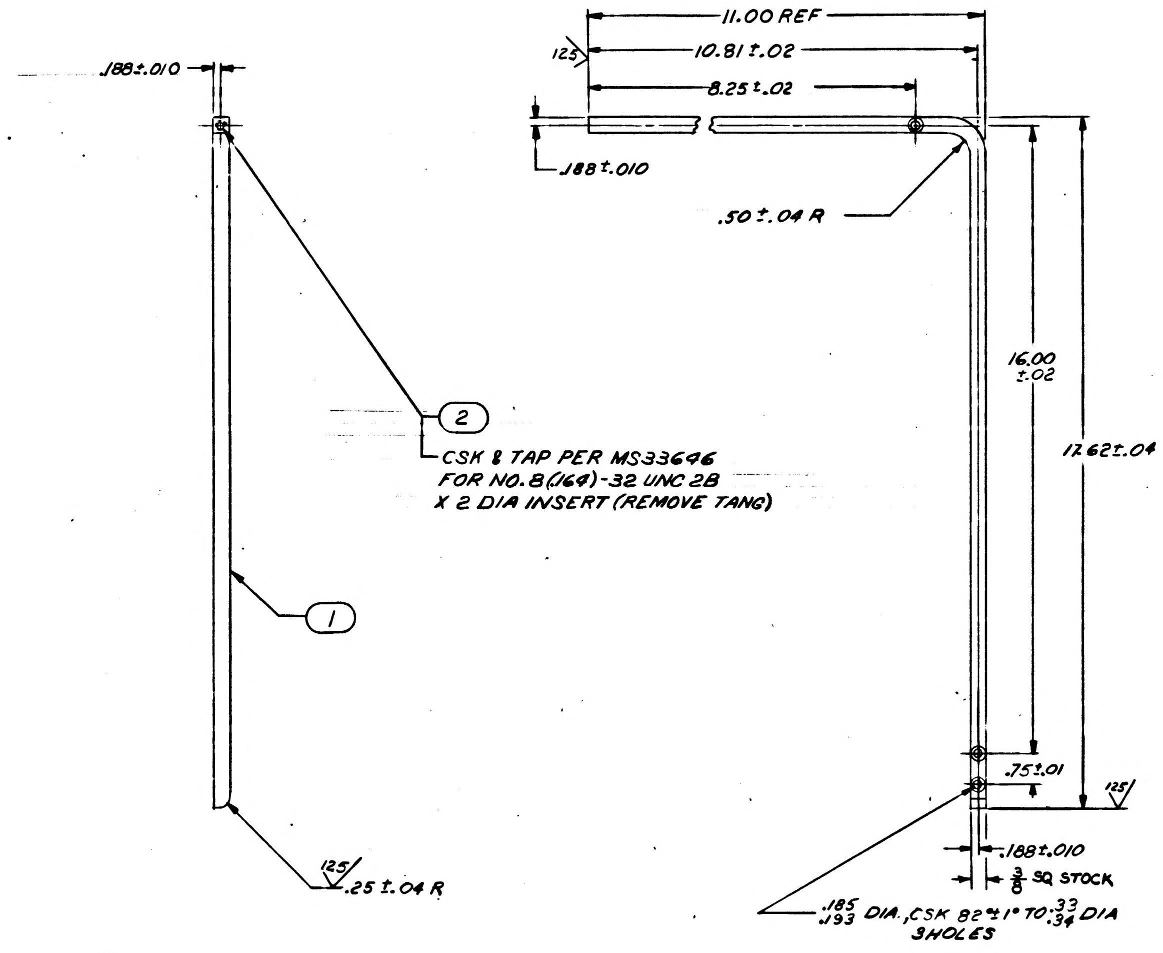
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03143 DATE 9/12/63

NOTES
1. MATL AL 2024-T4 PER QQ-A-267 TEMP T4
2. REMOVE BURRS & SHARP EDGES
3. CLEAR ANODIZE PER MIL-A-8625 TYPE II

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	MS21209 C0820	INSERT, SCREW LOCK	2
1	1014374-1	GUARD	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014377	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN G. Carter DATE 30 Jul 63
CHECKED A. Perrone 14 AUG 63
APPROVAL
APPROVAL 9/3/63
APPROVAL
NASA APPROVAL 9/12/63
MIT APPROVED 12 Sep 63
MIT APPROVAL 9/11/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

GUARD, PANEL LH

CODE IDENT NO. —— SIZE D NASA DRAWING NO. 1014374
SCALE 1/2 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 2
PHOTOGRAPHIC SCALE ONLY

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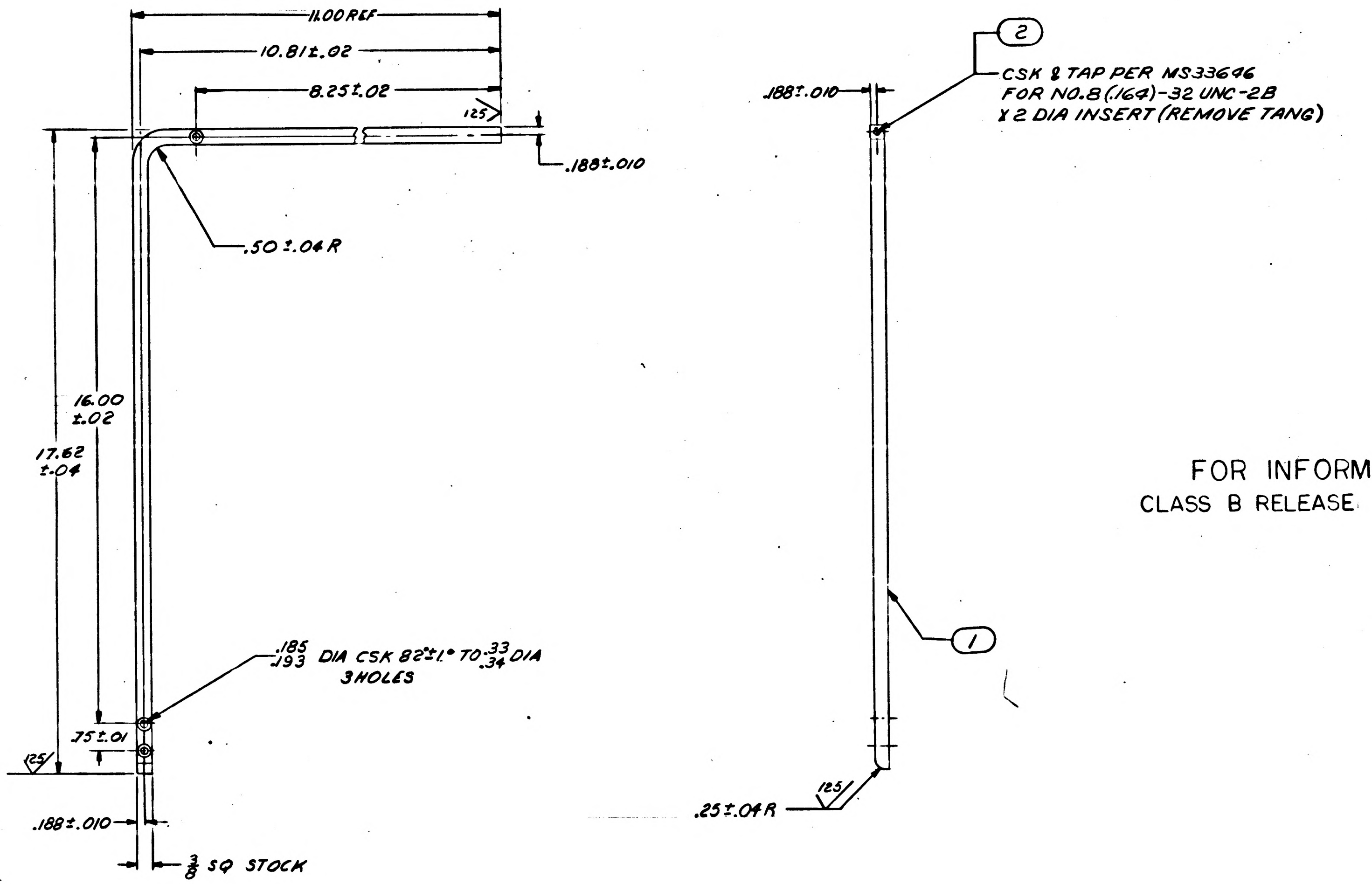
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		


11.00 REF
10.81±.02
8.25±.02
125
.188±.010
.50±.04 R
16.00 ±.02
17.62 ±.04
.185/.193 DIA CSK 82°±1° TO .33/.34 DIA 3 HOLES
.75±.01
125
.188±.010
3/8 SQ STOCK
2
CSK & TAP PER MS33646 FOR NO.8 (.164)-32 UNC-2B X 2 DIA INSERT (REMOVE TANG)
.188±.010
1
125
.25±.04 R

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO.03143 DATE 9/12/63

1014376

NOTES
1. MATL AL 2024-T4 PER QQ-A-267 TEMP T4
2. REMOVE BURRS & SHARP EDGES
3. CLEAR ANODIZE PER MIL-A-8625 TYPE II

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	MS21209C0820	INSERT, SCREW LOCK	2
1	1014375-1	GUARD	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014377	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 12 JUN 63
CHECKED 14 AUG 63
APPROVAL
APPROVAL 9/3/63
APPROVAL 9/3/63
NASA APPROVAL
MIT APPROVED
MIT APPROVAL 9/4/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

GUARD, PANEL RH

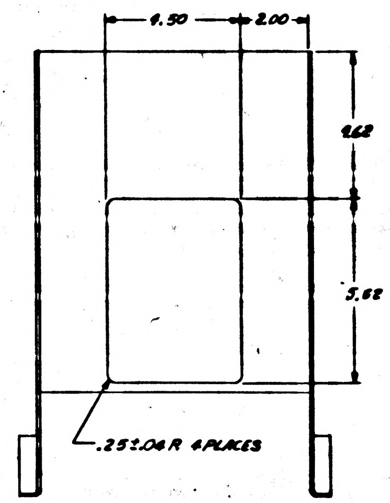
CODE IDENT NO. ______ SIZE D NASA DRAWING NO. 1014375
SCALE 1/2 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 2
PHOTOGRAPHIC SCALE ONLY

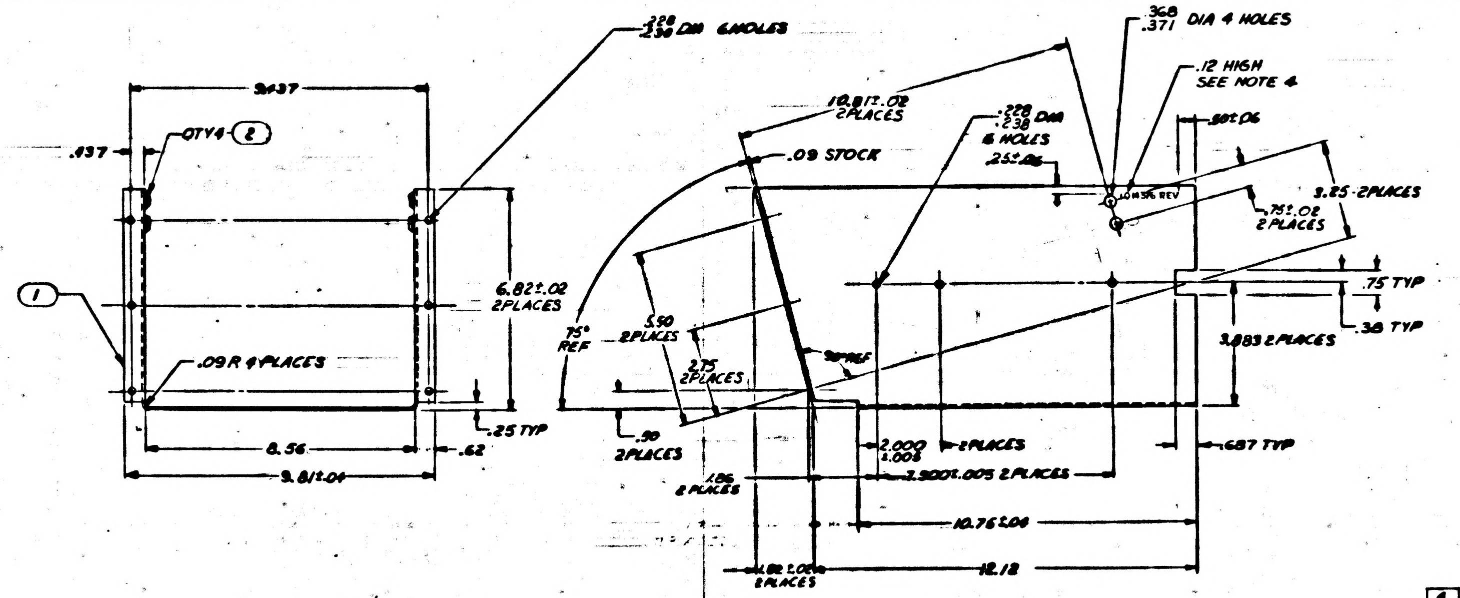
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R 5472 C. La Bat CHK W.J. Gifford APPD G.B.	23 OCT 63	
B	CHANGED PER TDRR 08115 DR H. Kelley CHK A. Capp APPD S.	20 MAY 64	NCB



4.50
2.00
2.62
5.62
.25±.04 R 4 PLACES

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03143 DATE 9/12/63



9.437
.437
QTY 4 (2)
(1)
.09 R 4 PLACES
6.82±.02 2PLACES
.25 TYP
8.56
.62
9.81±.04
.228 .238 DIA 6 HOLES
.368 .371 DIA 4 HOLES
.12 HIGH SEE NOTE 4
10.81±.02 2PLACES
.228 .238 DIA 6 HOLES
.09 STOCK
.25±.06
.90±.06
1014376 REV
3.25 2PLACES
.75±.02 2 PLACES
.75 TYP
.38 TYP
3.883 2PLACES
75° REF
5.50 2PLACES
2.75 2PLACES
90° REF
.90 2PLACES
2.000 2.005 2PLACES
.186 2 PLACES
2.900±.005 2 PLACES
.687 TYP
10.76±.04
1.82±.02 2PLACES
12.12

NOTES
(1)
1. MATL AL 5052 H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541, EXCEPT ELECT CONDUCTIVE
4. MARK BLACK PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	1006999-8	NUT, PLAIN, FLOATING	2
1	1014376-1	CHASSIS	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014377	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT -
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
UNIT APPROVED
UNIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY
MOUNTING FIXTURE MAIN DISKY

CODE IDENT NO. ——— SIZE F NASA DRAWING NO. 1014376
SCALE 1/2 WT SHEET 1 OF 1

1014376

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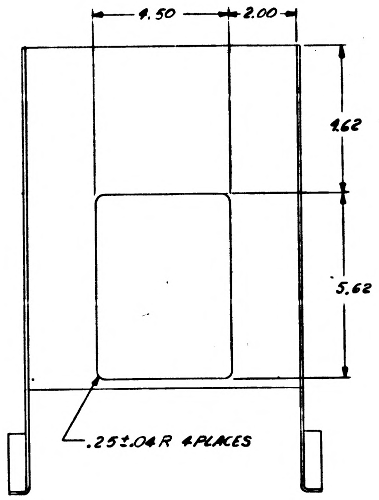
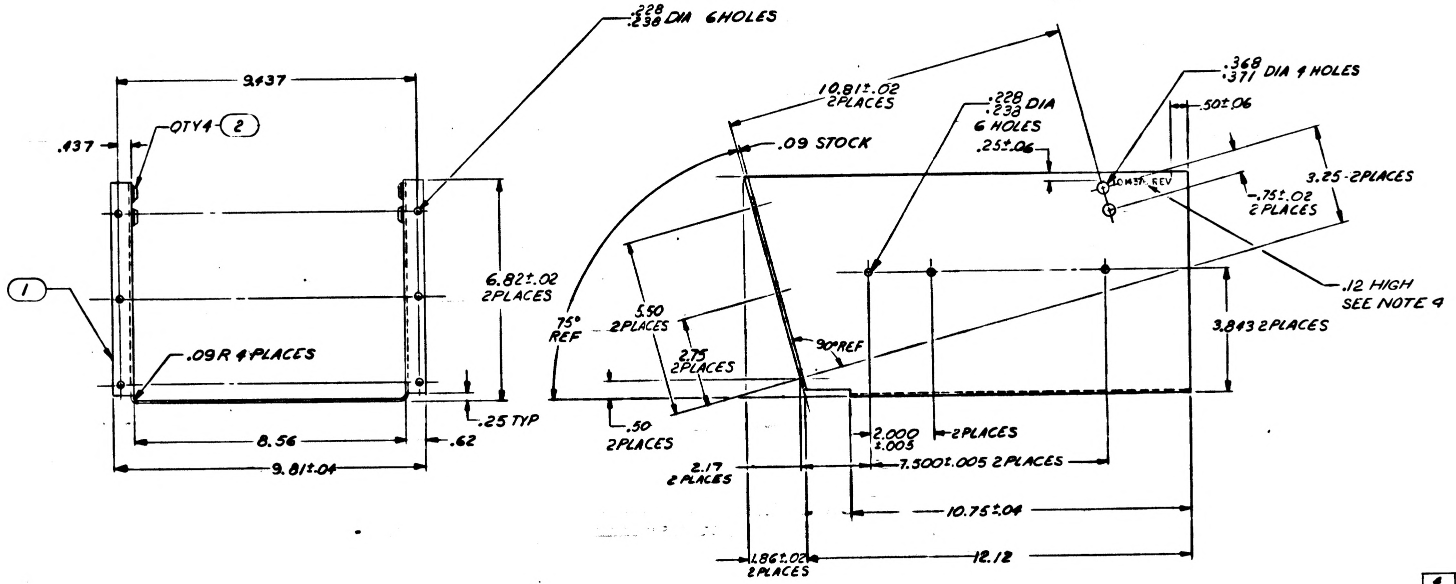
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR		


4.50
2.00
4.62
5.62
.25±.04R 4PLACES

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03143 DATE 9/12/63


.228
.238 DIA 6HOLES
9.437
.437
QTY4 ②
①
6.82±.02
2PLACES
.09R 4PLACES
.25 TYP
8.56
.62
9.81±.04
10.81±.02
2PLACES
.09 STOCK
.228
.238 DIA
6 HOLES
.25±.06
.368
.371 DIA 4 HOLES
.50±.06
1014376 REV
3.25-2PLACES
.75±.02
2PLACES
.12 HIGH
SEE NOTE 4
3.843 2PLACES
75°
REF
5.50
2PLACES
2.75
2PLACES
90°REF
.50
2PLACES
2.000
±.005
2PLACES
7.500±.005 2PLACES
2.17
2 PLACES
10.75±.04
1.86±.02
2PLACES
12.12

NOTES

①

1. MATL AL 5052 H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541, EXCEPT ELECT CONDUCTIVE
4. MARK BLACK PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	1006999-8	NUT, PLAIN, FLOATING	2
1	1014376-1	CHASSIS	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014377	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE [illegible]
CHECKED D. Perrons 16 AUG 63
APPROVAL [illegible] SPK
APPROVAL J. [illegible] 9/13/63
APPROVAL [illegible] 9/11/63
NASA APPROVAL [illegible] 9/12/63
MIT APPROVED [illegible]
MIT APPROVAL [illegible] 9/12/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY
MOUNTING FIXTURE MAIN DISKY

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	F	1014376

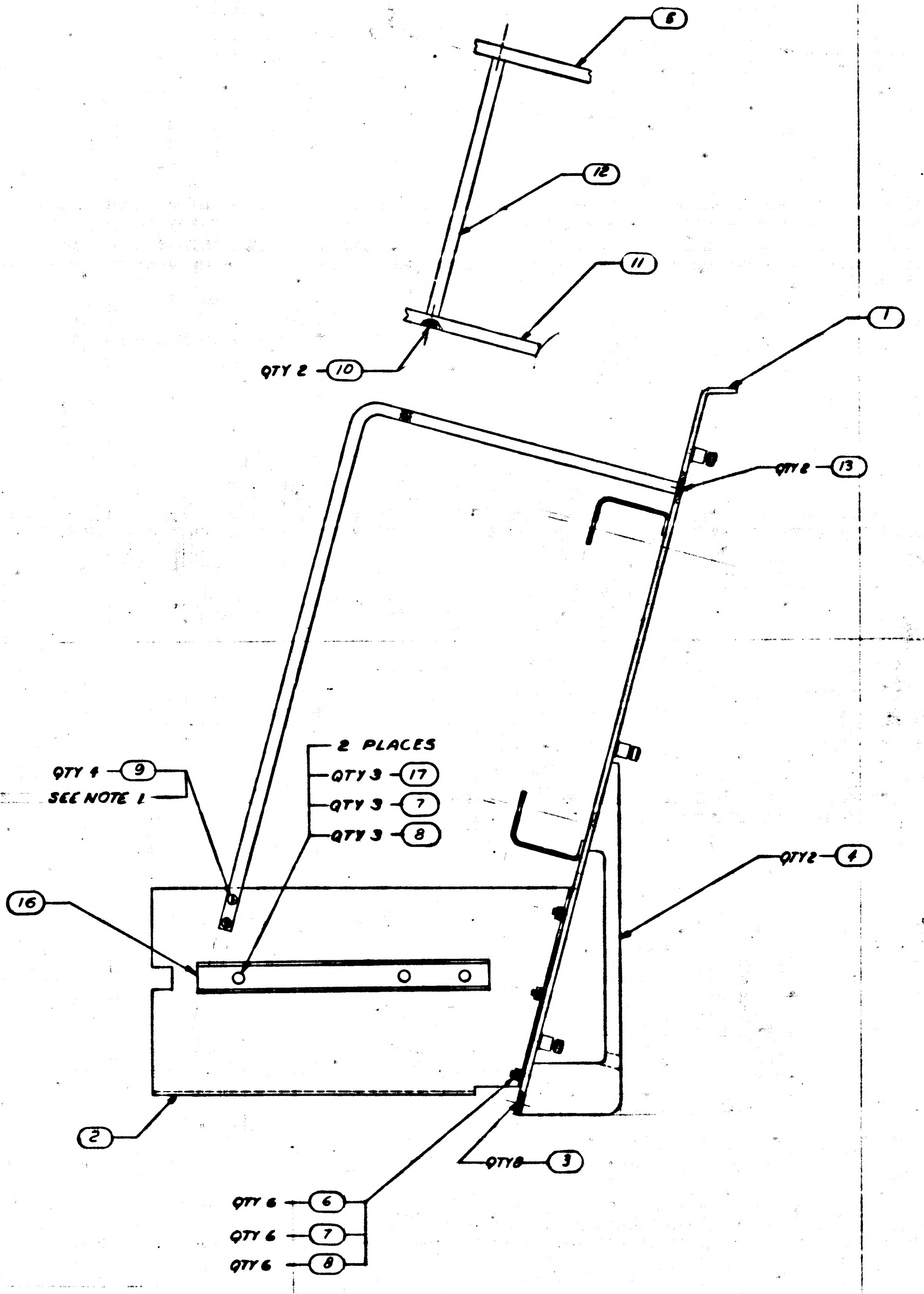
SCALE 1/2 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014376

SYM	DESCRIPTION	DATE	APPROVED
REVISIONS			
–	CL B RELEASED PER TDRR 03170	9/17/63	
A	CL II CHANGE PER RD-A 5483 C. L. Cox CHKW APPD	25 OCT 63	
B	CHANGED PER TDRR 08115 DR H. Kelley CHK APPD	20 MAY 64	



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03170 DATE 9/17/63

NOTES
1. ASSEMBLE FIND NO. 9 USING FIND NO. 14

NOT SHOWN

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
~~6~~	~~MS-35649-84~~	~~NUT, PLAIN~~	~~19~~
~~6~~	~~MS35337-80~~	~~WASHER, LOCK~~	~~18~~
6	MS35200-42	SCREW, MACHINE	17
1	1006665-2	SLIDE L H	16
1	1006665-1	SLIDE R H	15
AR	MIL-S-40083CL31	COMPOUND, SEALING	14
2	MS35200-40	SCREW MACH. FLAT CSK HD	13
1	1014373	GUARD, SUPPORT	12
1	1014374-3	GUARD, PANEL LH	11
2	MS35200-43	SCREW, MACHINE, FLAT CSK HD	10
4	MS35200-44	SCREW, MACHINE, FLAT CSK HD	9
12	MS35649-84	NUT, PLAIN, HEXAGON	8
12	MS35337-80	WASHER, LOCK, SPLIT	7
6	MS15795-307	WASHER, FLAT	6
1	1014375-3	GUARD, PANEL RH	5
2	1014333	HANDLE	4
8	MS35249-51	SCREW, MACHINE, FLAT CSK HD	3
1	1014376	CHASSIS ASSEMBLY	2
1	1020147	PANEL, FRONT	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1020106	1020014

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 63
CHECKED R. B 14 AUG 63
APPROVAL
APPROVAL 11/13/63
APPROVAL
NASA APPROVAL
MIT APPROVED
MIT APPROVAL 9-1-63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

MOUNTING FIXTURE ASSY
MAIN DISPLAY & KEYBOARD
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014377
SCALE 1/2
WT
SHEET 1 OF 1

1014377

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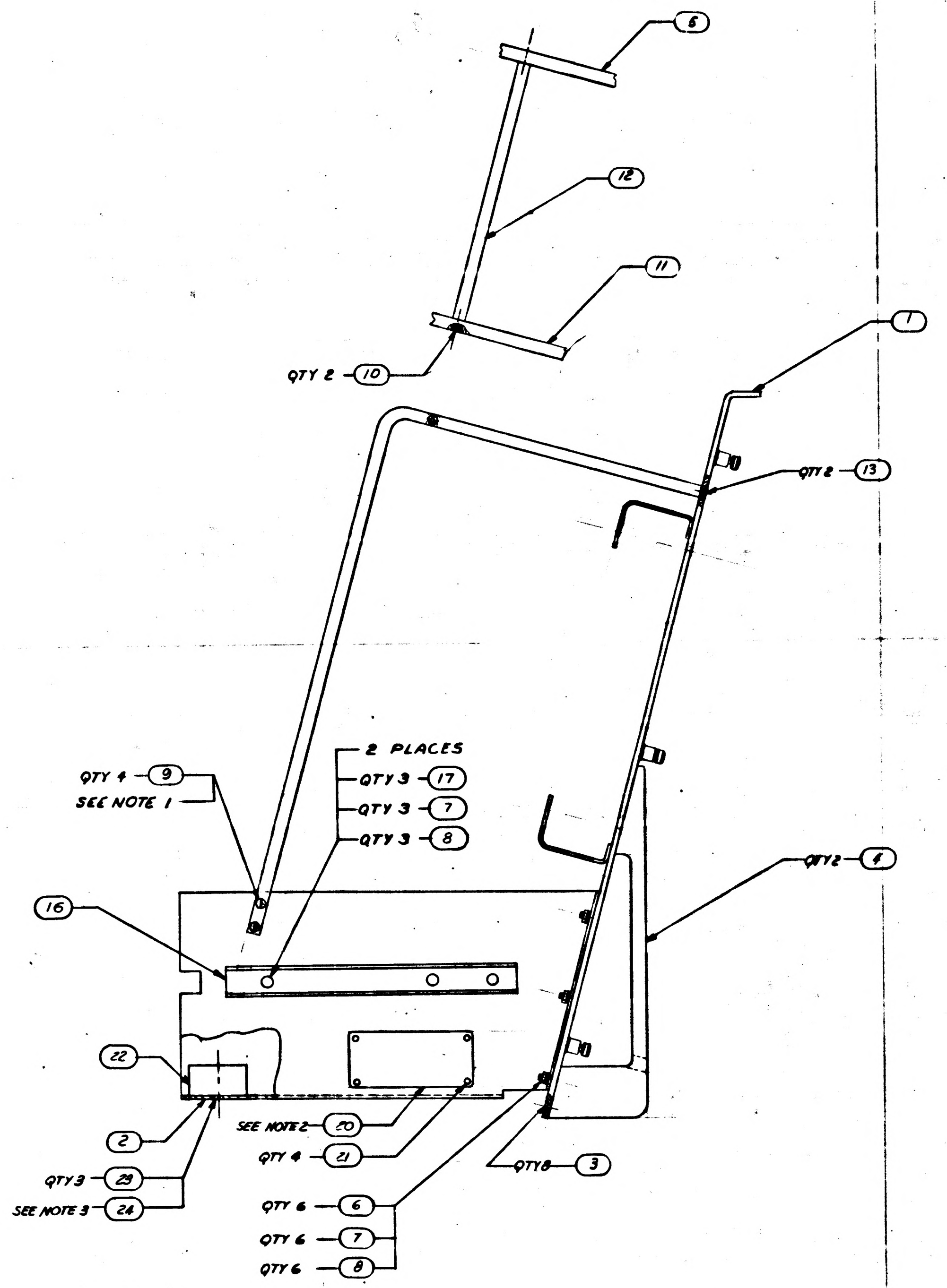
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 03170	9/17/63	
A	CL II CHANGE PER RD-A 5483 C. LaCost CHK APPD	25 OCT 63	
B	CHANGED PER TDRR 08115 DR CHK APPD		
C	CHANGED PER TDRR 10982 DR J J McConnell CHK JCJ APPD		KEB



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03170 DATE 9/17/63

NOT SHOWN

AR	MIL-S-40083-CL 31	SEALING COMPOUND	24
3	MS 35200-27	SCREW, MACH, FLAT CSK HD	23
1	1020201	COUNTERWEIGHT	22
4	MS20470B2-4	RIVET, SOLID UNIV. HD	21
1	1020086	PLATE, IDENTIFICATION	20
~~6~~	~~MS 35649-84~~	~~NUT, PLAIN~~	~~19~~
~~6~~	~~MS 35337-80~~	~~WASHER, LOCK~~	~~18~~
6	MS35200-42	SCREW, MACHINE	17
1	1006665-2	SLIDE LH	16
1	1006665-1	SLIDE RH	15
AR	MIL-S-40083CL31	COMPOUND, SEALING	14
2	MS35200-40	SCREW MACH, FLAT CSK HD	13
1	1014373	GUARD, SUPPORT	12
1	1014374-3	GUARD, PANEL LH	11
2	MS35200-43	SCREW, MACHINE, FLAT CSK HD	10
4	MS35200-44	SCREW, MACHINE, FLAT CSK HD	9
12	MS35649-84	NUT, PLAIN, HEXAGON	8
12	MS35337-80	WASHER, LOCK, SPLIT	7
6	MS15795-307	WASHER, FLAT	6
1	1014375-3	GUARD, PANEL RH	5
2	1014333	HANCLE	4
8	MS 35249-51	SCREW, MACHINE, FLAT CSK HD	3
1	1014376	CHASSIS ASSEMBLY	2
1	1020147	PANEL, FRONT	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NOTES
1. ASSEMBLE FIND NO. 9 USING FIND NO. 14
2. MARK APPLICABLE INFORMATION, .09 HIGH BLACK CHARACTERS PER ND 1002019 & ND 1002023
3. ASSEMBLE FIND NO. 22 TO FIND NO. 2 USING FIND NO 23 & FIND NO. 24

NEXT ASSY	USED ON
1020106	1020014

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 21 AUG 63
CHECKED 14 AUG 63
APPROVAL
APPROVAL 9/3/63
APPROVAL
NASA APPROVAL
MIT APPROVED
MIT APPROVAL 9-17-63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

MOUNTING FIXTURE ASSY
MAIN DISPLAY & KEYBOARD
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014377
SCALE 1/2
WT
SHEET 1 OF 1

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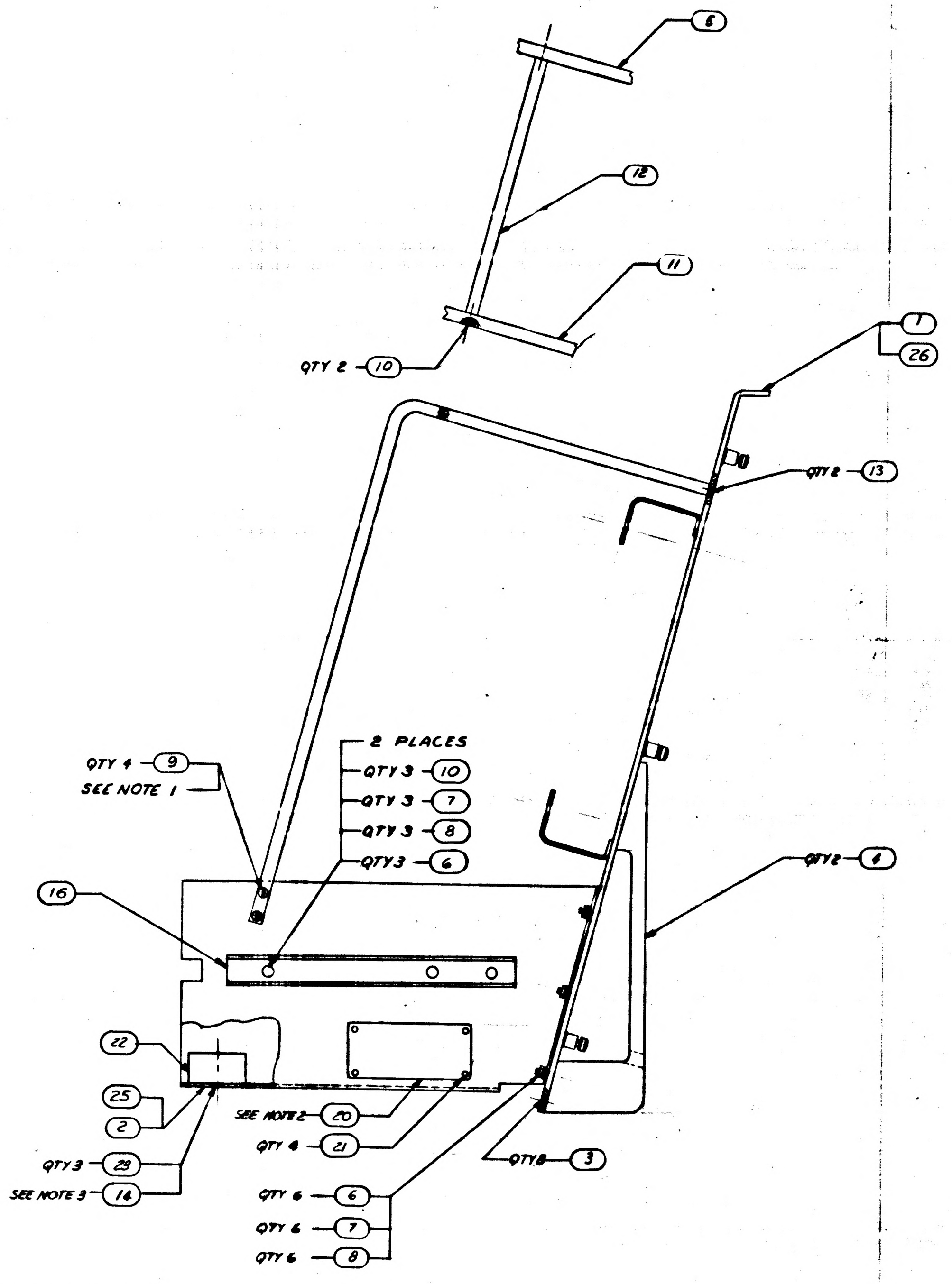
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 03170	4/17/63	
A	CL II CHANGE PER RD-A 5483 C. L. Cox CHK W. J. APPD	25 OCT 63	
B	CHANGED PER TDRR 08115 DR CHK APPD	20 MAY 64	
C	CHANGED PER TDRR 10982 DR J. J. McConnell CHK JCJ APPD		KCB
D	CHANGED PER TDRR 15100 UPGRADE TO CLASS A DR CHK APPD	18 JAN 65	
E	CHANGED PER TDRR 27333 DR CHK APPD	7/11/66	



NOT SHOWN

QTY REQD -011	QTY REQD -000	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	–	1020434	PANEL, FRONT	26
1	–	1020437	CHASSIS ASSY	25
	~~AR~~	~~MIL-S-[illegible] CL 31~~	~~SEALING COMPOUND~~	~~24~~
3	3	MS 35200-27	SCREW, MACH, FLAT CSK HD	23
1	1	1020201	COUNTERWEIGHT	22
4	4	MS20470B2-4	RIVET, SOLID UNIV. HD	21
1	1	1020086	PLATE, IDENTIFICATION	20
	~~6~~	~~MS 35649-84~~	~~NUT, PLAIN~~	~~19~~
	~~6~~	~~MS 35337-80~~	~~WASHER, LOCK~~	~~18~~
	~~6~~	~~MS [illegible]~~	~~SCREW, MACHINE~~	~~17~~
1	1	1006665-2	SLIDE LH	16
1	1	1006665-1	SLIDE RH	15
AR	AR	MIL-S-40083CL31	COMPOUND, SEALING	14
2	2	MS35200-40	SCREW MACH, FLAT CSK HD	13
1	1	1014373	GUARD, SUPPORT	12
1	1	1014374-3	GUARD, PANEL LH	11
8	8	MS35200-43	SCREW, MACHINE, FLAT CSK HD	10
4	4	MS35200-44	SCREW, MACHINE, FLAT CSK HD	9
12	12	MS35649-84	NUT, PLAIN, HEXAGON	8
12	12	MS35337-80	WASHER, LOCK, SPLIT	7
12	12	MS15795-307	WASHER, FLAT	6
1	1	1014375-3	GUARD, PANEL RH	5
2	2	1014333	HANDLE	4
8	8	MS35249-51	SCREW, MACHINE, FLAT CSK HD	3
–	1	1014376	CHASSIS ASSEMBLY	2
–	1	1020147	PANEL, FRONT	1

LIST OF MATERIALS

NOTES

1. ASSEMBLE FIND NO. 9 USING FIND NO. 14
2. MARK PART NO., SER NO. & REV LETTER .06 HIGH PER ND1002019 & ND1002023
3. ASSEMBLE FIND NO. 22 TO FIND NO. 2 USING FIND NO 23 & FIND NO. 14
4. THE ORIGINAL CONFIGURATION IS IDENTIFIED BY DRAWING NO. AND -000 SUFFIX

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1900030	
NEXT ASSY	USED ON
APPLICATION	

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO

DRAWN DATE 21 AUG 63
CHECKED 14 AUG 63
APPROVAL
APPROVAL 11/5/63
APPROVAL
NASA APPROVAL
MIT APPROVED
MIT APPROVAL 9-19-63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

MOUNTING FIXTURE ASSY
MAIN DISPLAY & KEYBOARD

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014377
SCALE 1/2
WT
SHEET 1 OF 1

1014377 E

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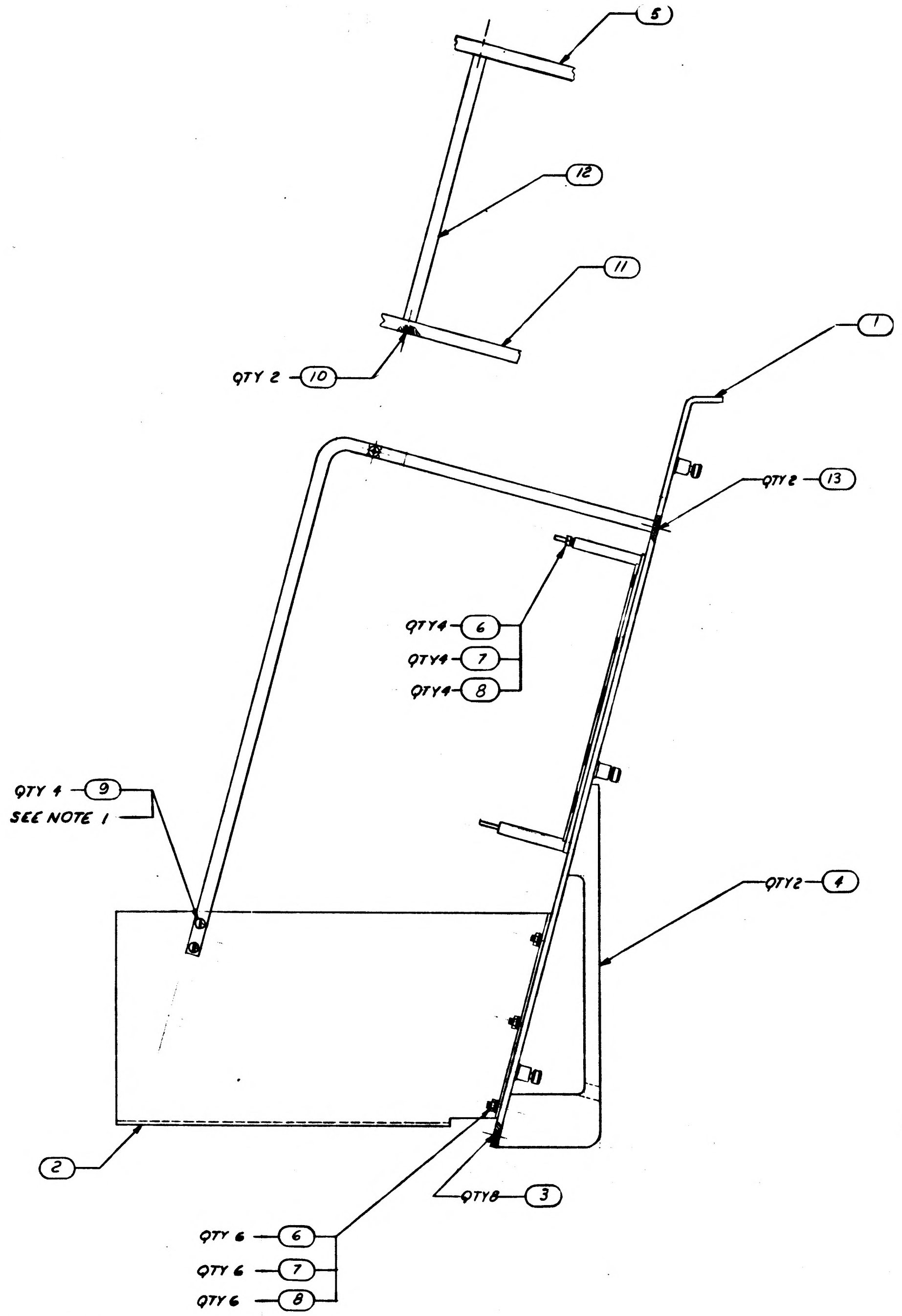
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 03170	9.17.63	



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03170 DATE 9/17/63

NOTES
1. ASSEMBLE FIND NO. 9 USING FIND NO. 14

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	MIL-S-40083CL31	COMPOUND, SEALING	14
2	MS35200-40	SCREW MACH. FLAT CSK HD	13
1	1014373	GUARD, SUPPORT	12
1	1014374	GUARD, PANEL LH	11
2	MS35200-43	SCREW, MACHINE, FLAT CSK HD	10
4	MS35200-44	SCREW, MACHINE, FLAT CSK HD	9
10	MS35649-84	NUT, PLAIN, HEXAGON	8
10	MS35337-80	WASHER, LOCK, SPLIT	7
10	MS15795-307	WASHER, FLAT	6
1	1014375	GUARD, PANEL RH	5
2	1014333	HANCLE	4
8	MS35249-51	SCREW, MACHINE, FLAT CSK HD	3
1	1014376	CHASSIS ASSEMBLY	2
1	1014378	PANEL, FRONT	1

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN C. Antos DATE 21 JUN 63
CHECKED A. Brown 14 AUG 63
APPROVAL
APPROVAL 1/3/63
APPROVAL
NASA APPROVAL
MIT APPROVED 9/17/63
MIT APPROVAL 9-17-63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

MOUNTING FIXTURE ASSY
MAIN DISPLAY & KEYBOARD
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. — SIZE F NASA DRAWING NO. 1014377
SCALE 1/2 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014377

INCHES
PHOTOGRAPHIC SCALE ONLY

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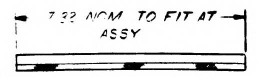
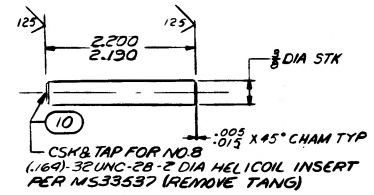
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 03170	[illegible]	[illegible]
A	CHANGED PER TDRR 05809 DR. H. Matz CHK REA APPD	4 FEB 64	[illegible]


7.32 NOM TO FIT AT ASSY

NOTES
1. MATL MAKE FROM FIND NO.8
2. SCALE 1/2

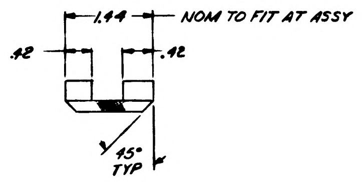
SHIELD, HORIZONTAL
1014378-3



125
125
2.200
2.190
3/8 DIA STK
10
.005
.015 X 45° CHAM TYP
CSK & TAP FOR NO.8 (.164)-32UNC-2B-2 DIA HELICOIL INSERT PER MS33537 (REMOVE TANG)

NOTES
1. MATL AL 6061-T6 PER QQ-A-325
2. CONCENTRICITY .005 TIR
3. SQUARENESS & PARALLELISM .005 IN./IN.
4. REMOVE BURRS & SHARP EDGES
~~5. ANODIZE PER MIL-A-8625, TYPE II~~

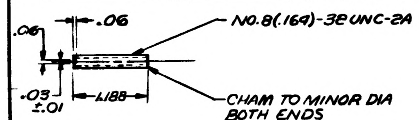
SPACER, STUD
1014378-5



1.44
NOM TO FIT AT ASSY
.42
.42
45°
TYP

NOTES
1. MATL MAKE FROM FIND NO.8

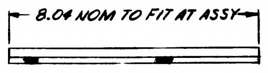
SHIELD, CORNER
1014378-4



.06
.06
NO.8(.164)-32UNC-2A
.03
±.01
1.188
CHAM TO MINOR DIA BOTH ENDS

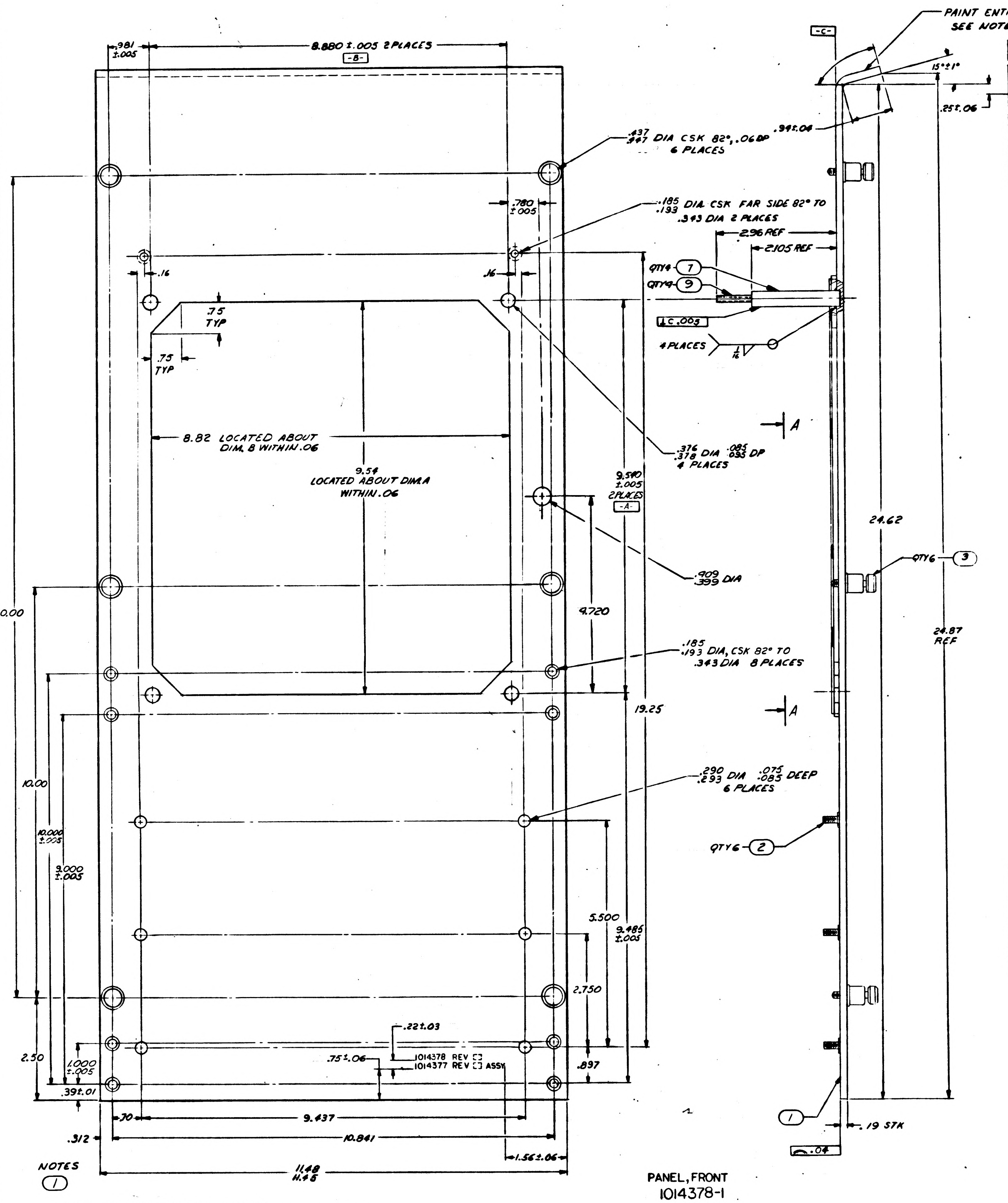
NOTES
1. MATL 303 CRES PER QQ-S-763, COND A
2. REMOVE BURRS & SHARP EDGES

ROD, THREADED
1014378-6


8.04 NOM TO FIT AT ASSY

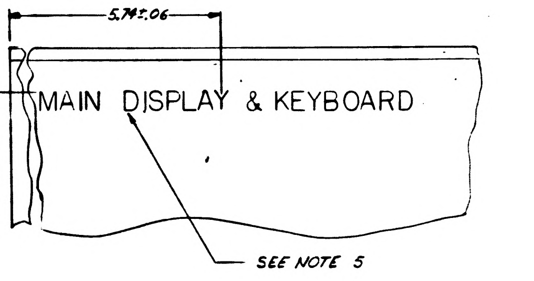
NOTES
1. MATL MAKE FROM FIND NO.8

SHIELD, VERTICAL
1014378-2



.981
±.005
8.880 ±.005 2 PLACES
-B-
.437
.447 DIA CSK 82°, .06 DP
6 PLACES
.780
±.005
.185
.193 DIA CSK FAR SIDE 82° TO
.343 DIA 2 PLACES
2.96 REF
2.105 REF
.16
.16
.75
TYP
.75
TYP
QTY4 7
QTY4 9
⊥ C .005
4 PLACES
1/16
8.82 LOCATED ABOUT DIM. B WITHIN .06
9.54 LOCATED ABOUT DIM. A WITHIN .06
.376
.378 DIA .085
.095 DP
4 PLACES
9.540
±.005
2 PLACES
-A-
A
.909
.399 DIA
9.720
20.00
.185
.193 DIA, CSK 82° TO
.343 DIA 8 PLACES
19.25
A
10.00
.290
.293 DIA .075
.085 DEEP
6 PLACES
10.000
±.005
9.000
±.005
5.500
9.485
±.005
2.750
.22±.03
.75±.06
1014378 REV
1014377 REV ASSY
.897
2.50
1.000
±.005
.39±.01
.70
9.437
.312
10.841
1.56±.06
11.48
11.45
-C-
15°±1°
.94±.04
.25±.06
24.62
24.87
REF
QTY6 3
QTY6 2
1
.19 STK
.04

PAINT ENTIRE SURFACE WITHIN AREA INDICATED SEE NOTE 4

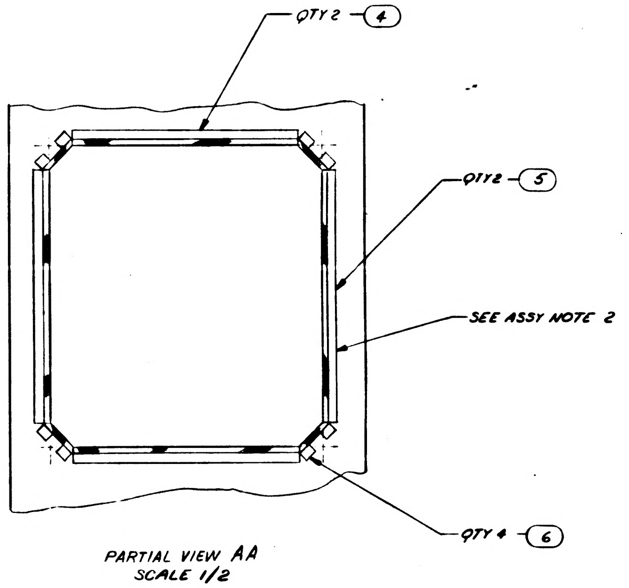


5.74±.06
MAIN DISPLAY & KEYBOARD
SEE NOTE 5

NOTES ①
1. MATL AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE PER MIL-C-5541, EXCEPT ELEC CONDUCTIVE
4. PAINT (FRONT & EDGES, AREA INDICATED) 1 COAT TT-E-529 CLASS B FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
5. SILK SCREEN (FRONT OF PANEL) .31 HIGH BLACK CHARACTERS PER ND1002019
6. MARK (REAR OF PANEL) .12 HIGH BLACK CHARACTERS PER ND1002019

PANEL, FRONT
1014378-1

ASSY NOTES
1. WELD PER MIL-W-6804
2. BOND FIND NO. 4, 5 & 6 TO FIND NO. 1 PER ND1002004



QTY 2 4
QTY 2 5
SEE ASSY NOTE 2
QTY 4 6

PARTIAL VIEW AA
SCALE 1/2

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03170 DATE 9/17/63

REV STATUS OF PARTS	
PART NO	REV SYM
1014378-1	A
1014378-2	—
1014378-3	—
1014378-4	—
1014378-5	A
1014378-6	—

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	MS21209-C0820	INSERT, SCREW THREAD	10
4	1014378-6	ROD, THREADED	9
AR	1006651-1	RFI SHIELD	8
4	1014378-5	SPACER	7
4	1014378-4	SHIELD, CORNER	6
2	1014378-2	SHIELD, VERTICAL	5
2	1014378-3	SHIELD, HORIZONTAL	4
6	1006942	FASTENER ASSY, CAPTIVE	3
6	1006951-007	STUD, CAPTIVE SELF-CLINCHING	2
1	1014378-1	PANEL	1

1014377	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.010 ±.02 ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN [illegible] DATE [illegible]
CHECKED D. Perrins 14 AUG 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVED [illegible] 9/12/63
MIT APPROVAL [illegible] 9/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRONT PANEL ASSY
MAIN DISPLAY & KEYBOARD
MOUNTING FIXTURE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014378
SCALE 1/1 WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014378

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

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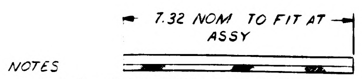
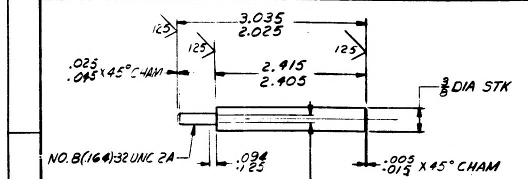
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 03170	9/16	


7.32 NOM TO FIT AT ASSY

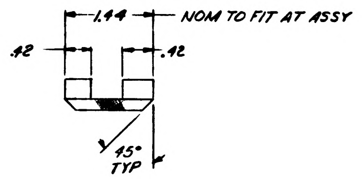
NOTES
1. MATL MAKE FROM FIND NO.8
2. SCALE 1/2

SHIELD, HORIZONTAL
1014378-3


3.035
2.025
125
2.415
2.405
.025
.045 X 45° CHAM
3/8 DIA STK
NO.8(164)32 UNC 2A
.094
.125
.005
.015 X 45° CHAM
.122
.102 DIA

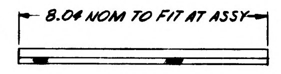
NOTES
1. MATL AL 6061-T6 PER QQ-A-325
2. REMOVE BURRS & SHARP EDGES
3. CONCENTRICITY .005 TIR
4. SQUARENESS & PARALLELISM .005 IN./IN.
5. ANODIZE PER MIL-A-8625, TYPE II

SPACER, STUD
1014378-5


1.44 NOM TO FIT AT ASSY
.42
.42
45° TYP

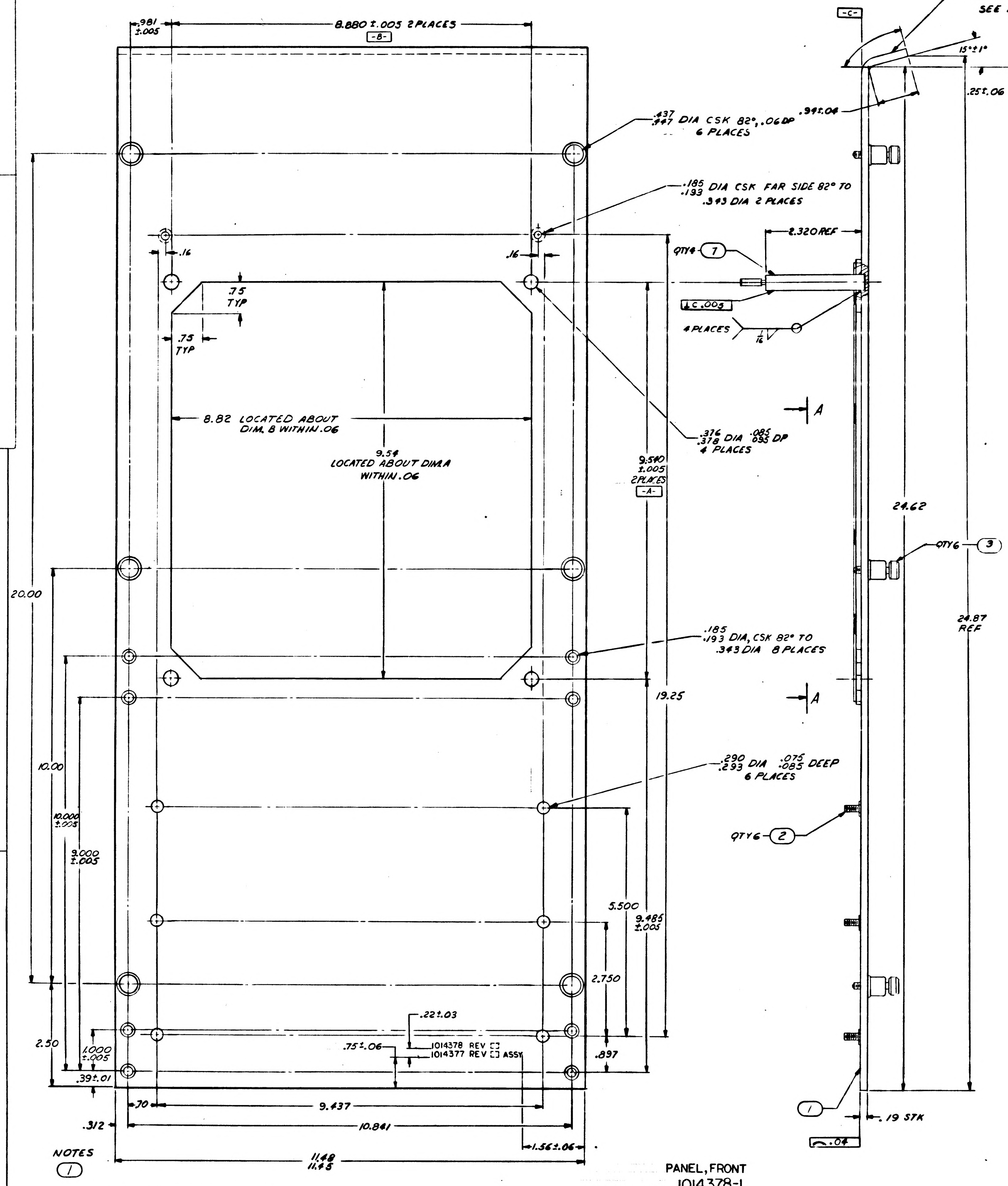
NOTES
1. MATL MAKE FROM FIND NO.8

SHIELD, CORNER
1014378-4


8.04 NOM TO FIT AT ASSY

NOTES
1. MATL MAKE FROM FIND NO.8

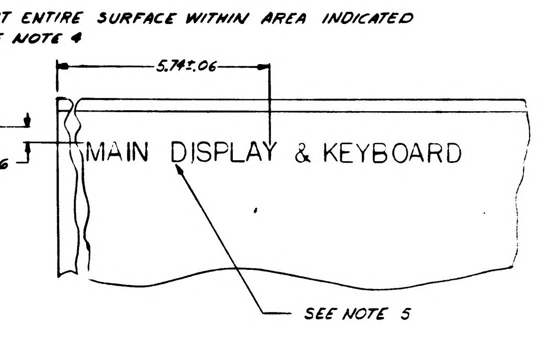
SHIELD, VERTICAL
1014378-2

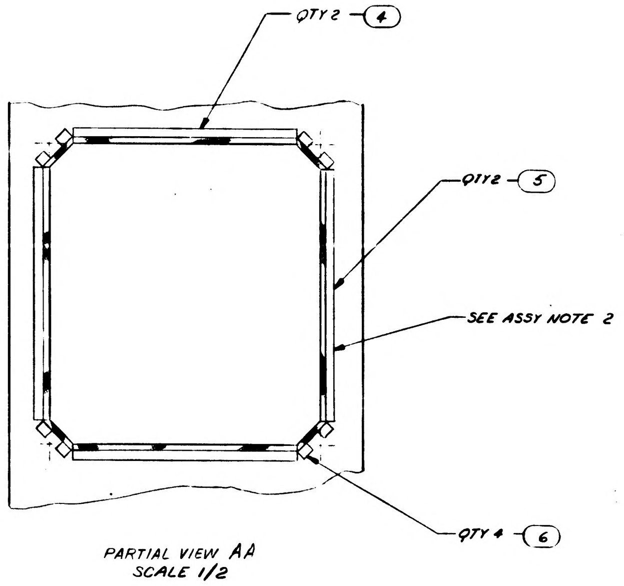

.981
±.005
8.880±.005 2 PLACES
-B-
.437
.447 DIA CSK 82°, .06 DP 6 PLACES
.185
.193 DIA CSK FAR SIDE 82° TO .343 DIA 2 PLACES
.16
.16
.75 TYP
.75 TYP
8.82 LOCATED ABOUT DIM. B WITHIN .06
9.54 LOCATED ABOUT DIM A WITHIN .06
.376
.378 DIA .085 .095 DP 4 PLACES
9.540 ±.005 2 PLACES
-A-
20.00
.185
.193 DIA, CSK 82° TO .343 DIA 8 PLACES
19.25
10.00
10.000 ±.005
9.000 ±.005
.290
.293 DIA .075 .085 DEEP 6 PLACES
5.500
9.485 ±.005
2.750
2.50
1.000 ±.005
.39±.01
.22±.03
.75±.06
1014378 REV
1014377 REV ASSY
.897
.70
9.437
.312
10.841
1.56±.06
11.48
11.45
-C-
15°±1°
.25±.06
.94±.06
2.320 REF
QTY 4 ⑦
⊥ C .003
4 PLACES 1/16
A
A
24.62
QTY 6 ③
24.87 REF
QTY 6 ②
①
.19 STK
⌒ .04

NOTES
①

1. MATL AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE PER MIL-C-5541, EXCEPT ELEC CONDUCTIVE
4. PAINT (FRONT & EDGES, AREA INDICATED) 1 COAT TT-E-529 CLASS B FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
5. SILK SCREEN (FRONT OF PANEL) .31 HIGH BLACK CHARACTERS PER ND1002019
6. MARK (REAR OF PANEL) .12 HIGH BLACK CHARACTERS PER ND1002019

PANEL, FRONT
1014378-1


PAINT ENTIRE SURFACE WITHIN AREA INDICATED SEE NOTE 4
5.74±.06
MAIN DISPLAY & KEYBOARD
SEE NOTE 5


QTY 2 ④
QTY 2 ⑤
SEE ASSY NOTE 2
QTY 4 ⑥

PARTIAL VIEW AA
SCALE 1/2

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03170 DATE 9/17/63

ASSY NOTES
1. WELD PER MIL-W-6804
2. BOND FIND NO. 4, 5 & 6 TO FIND NO. 1 PER ND1002004

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	1006651	RFI SHIELD	8
4	1014378-5	SPACER	7
4	1014378-4	SHIELD, CORNER	6
2	1014378-2	SHIELD, VERTICAL	5
2	1014378-3	SHIELD, HORIZONTAL	4
6	1006942	FASTENER ASSY, CAPTIVE	3
6	1006951-007	STUD, CAPTIVE SELF-CLINCHING	2
1	1014378-1	PANEL	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014377	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 ±.02 ANGLES ±2
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-4[illegible]

DRAWN [illegible] DATE 19 AUG 63
CHECKED D. Perrone 14 AUG 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 9/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRONT PANEL ASS'Y
MAIN DISPLAY & KEYBOARD
MOUNTING FIXTURE

CODE IDENT NO ——
SIZE J
NASA DRAWING NO 1014378
SCALE 1/1 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

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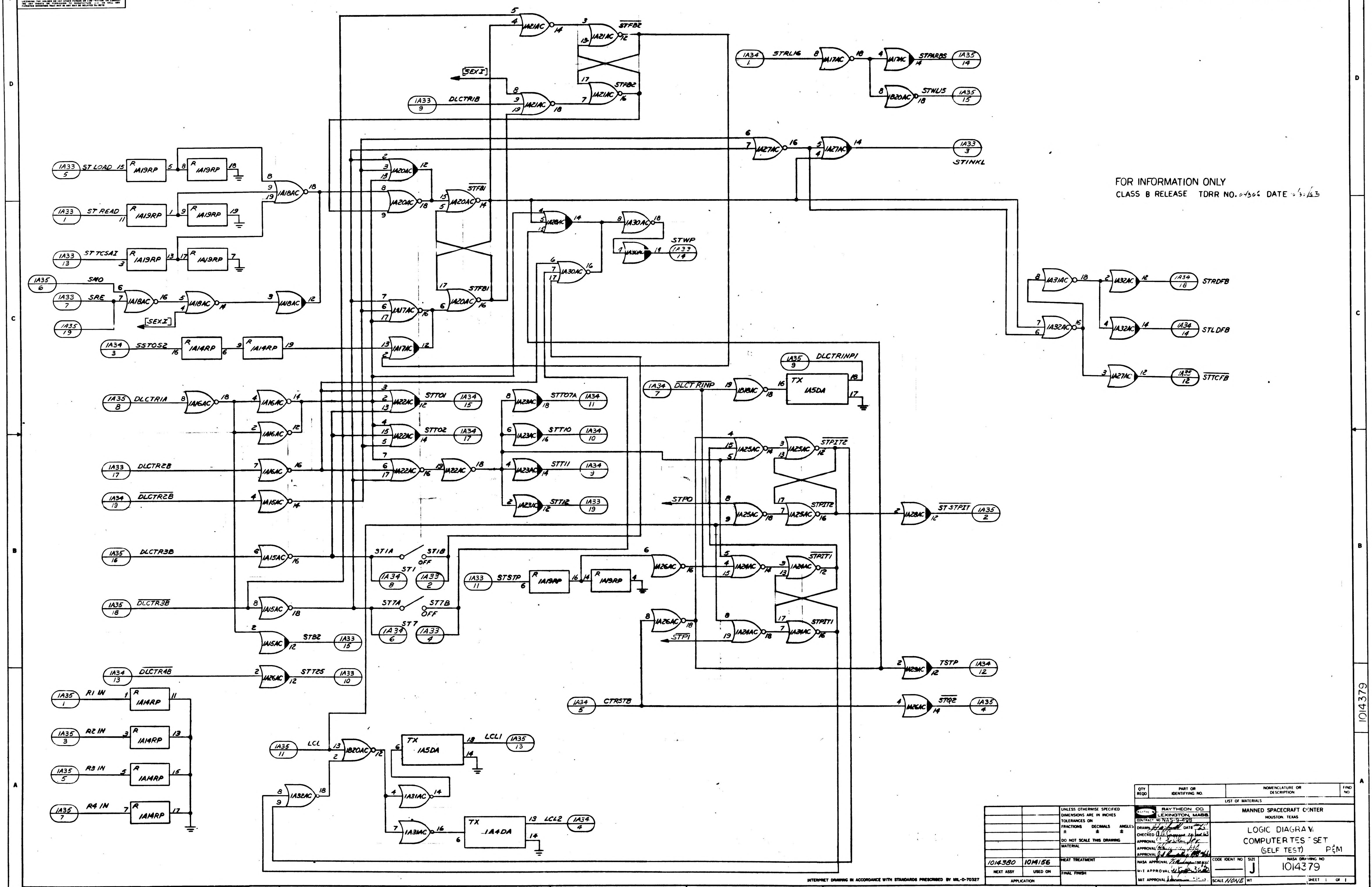
1014379

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04306 DATE 6/30/63



1A33 5 ST LOAD
1A19RP
1A18AC
1A33 1 ST READ
1A33 13 ST TCSAI
1A35 6 SMO
1A33 7 SRE
1A35 19
SEX I
1A34 3 SSTOS2
1A14RP
1A33 9 DLCTRIB
1A21AC
STFB2
1A20AC
STFB1
1A17AC
1A27AC
1A33 3 STINKL
1A28AC
1A30AC
STWP 1A33 14
1A34 1 STRL16
STPARBS 1A35 14
1B20AC
STWL15 1A35 15
1A31AC
1A32AC
STRDFB 1A34 18
STLDFB 1A34 14
STTCFB 1A35 12
1A35 8 DLCTR1A
1A16AC
1A22AC
STT01 1A34 15
STT02 1A34 17
1A23AC
STT07A 1A34 11
STT10 1A34 10
STT11 1A34 9
STT12 1A33 19
1A33 17 DLCTR2B
1A34 19 DLCTR2B
1A15AC
1A35 16 DLCTR3B
1A35 18 DLCTR3B
ST1A ST1B OFF ST1 1A34 8 1A33 2
ST7A ST7B OFF ST7 1A34 6 1A33 4
STB2 1A33 15
1A34 13 DLCTR4B
1A26AC
STT25 1A33 10
1A35 9 DLCTRINP1
1A34 7 DLCTRINP
1B18AC
TX 1A5DA
1A25AC
STPIT2
STPO
ST STPIT 1A35 2
1A33 11 STSTP
1A19RP
1A24AC
STPIT1
STP1
1A29AC
TSTP 1A34 12
1A34 5 CTRSTB
STRQ2 1A35 4
1A35 1 R1 IN
1A35 3 R2 IN
1A35 5 R3 IN
1A35 7 R4 IN
1A14RP
1A35 11 LCL
1B20AC
TX 1A5DA
LCL1 1A35 13
1A32AC
1A31AC
TX 1A4DA
LCL2 1A34 4

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014380	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE 63
CHECKED A.G. 24 Jul 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(SELF TEST) P&M

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014379
SCALE NONE WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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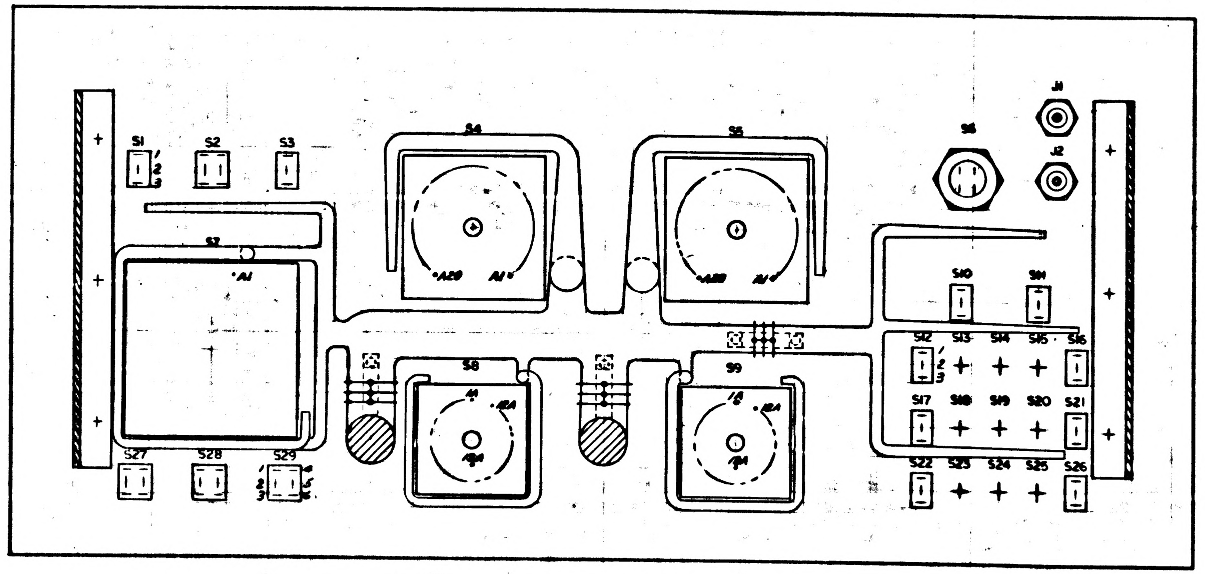
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO [illegible]

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 03430	[illegible]	[illegible]
B	CLASS II CHANGE PER RD-R 5673 DR. [illegible] CHK [illegible] APPD [illegible]	[illegible]	[illegible]



SECTION C-C
ROTATED 180°
SEE SHEET 1

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03430 DATE 26 Jy 63

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 26 JUL 63
CHECKED D. Perrone 29 JUL 63
APPROVAL C. Sperling [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL D. Sachs [illegible]

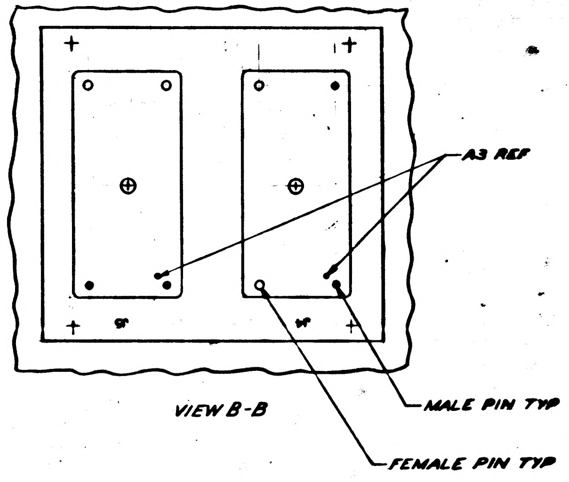
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SELF TEST ASSEMBLY

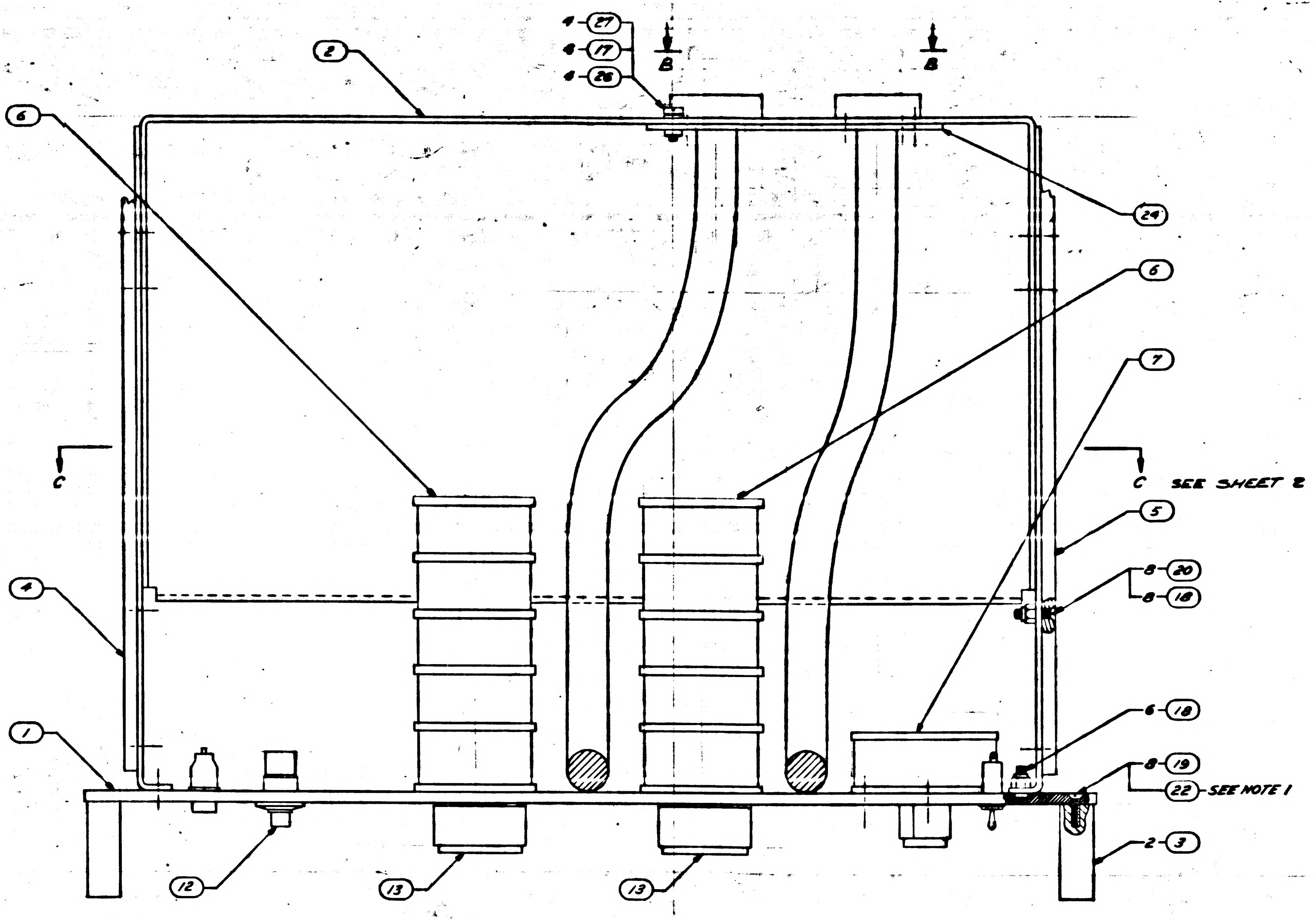
CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014380
SCALE 1/1
WT
SHEET 2 OF 2

1014380

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 03430	[illegible]	
A	CLASS II CHANGE PER RD-R 5496A DR C. [illegible] CHK J. [illegible] APPD [illegible]	[illegible]-5-63	JJB
B	CLASS II CHANGE PER RD-R 5673 DR. [illegible] CHK [illegible] APPD [illegible]	1-8-64	JJB
C	CLASS II CHANGE PER RD R 5692 DR [illegible] CHK J. [illegible] APPD [illegible]	1-21-64	JJB
D	CHANGED PER TDRR 06091 DR. W. Brown CHK. [illegible] APPD. [illegible]	3 MAR 64	KEB


A3 REF
MALE PIN TYP
FEMALE PIN TYP

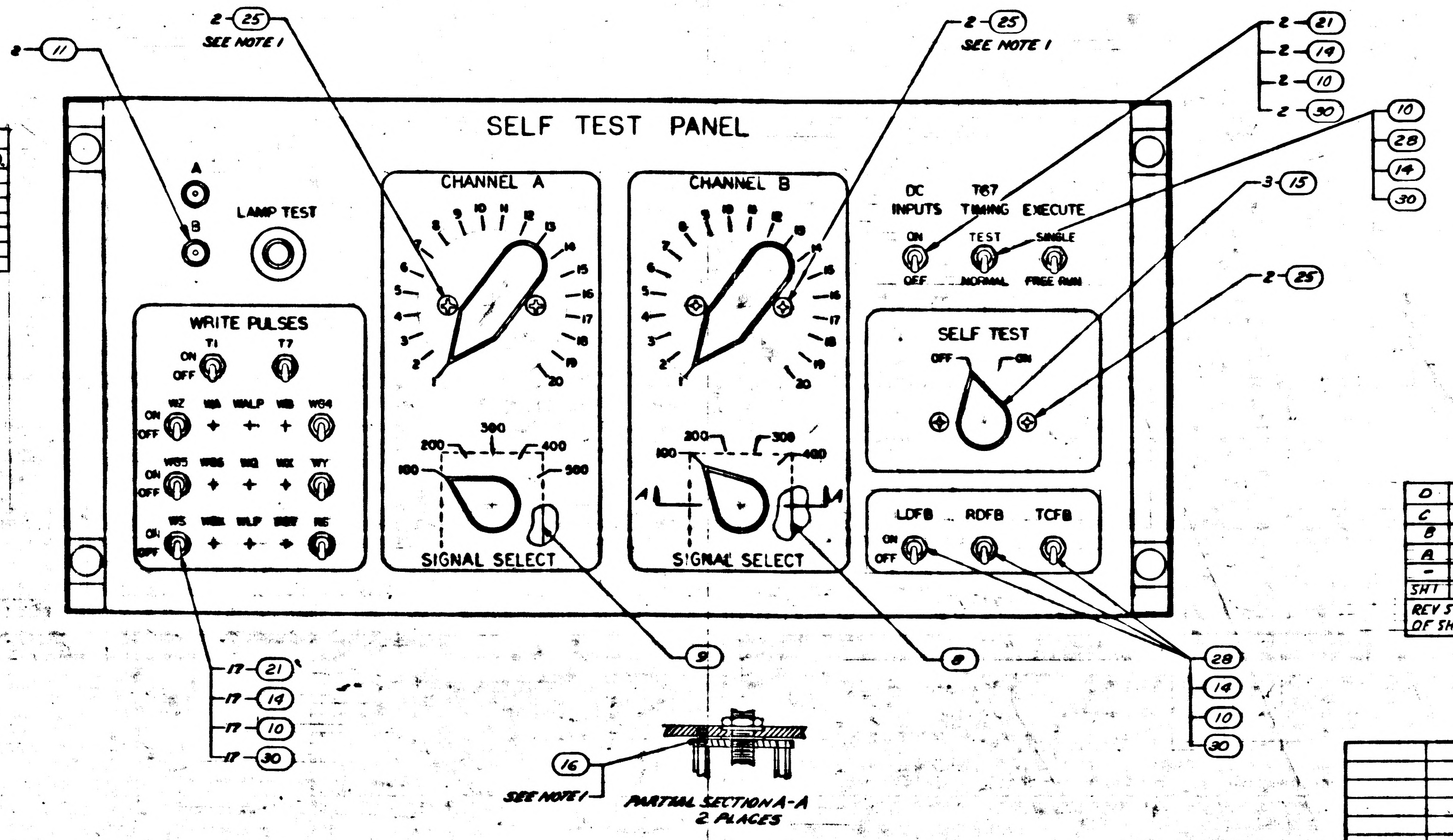
VIEW B-B


4-27
4-17
4-26
B
B
2
6
24
6
7
C
C SEE SHEET 2
5
4
8-20
8-18
6-18
1
8-19
22-SEE NOTE 1
2-3
12
13
13

FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. 03430 DATE 26 Sep 63

JUMPER LIST			
FROM	TO	LENGTH	FIND NO.
S24-3	S23-3	2.00	23
S23-3	S22-3	2.00	23
S22-3	S21-3	5.00	23
S21-3	S19-3	2.50	23
S19-3	S17-3	2.50	23
S17-3	S16-3	5.00	23
S16-3	S15-3	2.00	23
S26-3	S25-3	2.00	23
S25-3	S20-3	3.00	23
S20-3	S18-3	2.50	23
S18-3	S14-3	3.00	23
S14-3	S13-3	2.00	23
S13-3	S12-3	2.00	23
S2-3	S2-4	1.75	23
S7E-ARM	S7F-ARM	2.00	23
S7G-ARM	S7H-ARM		23
S22-1	S23-1		29
S23-1	S24-1		
S24-1	S25-1		
S25-1	S26-1		
S26-1	S21-1		
S21-1	S20-1		
S20-1	S19-1	2.00	29

JUMPER LIST			
FROM	TO	LENGTH	FIND NO.
S18-1	S17-1	2.00	29
S17-1	S12-1		
S12-1	S13-1		
S13-1	S14-1		
S14-1	S15-1		
S15-1	S16-1		
S28-4	S29-4	2.00	29


2-11
2-25
SEE NOTE 1
2-25
SEE NOTE 1
2-21
2-14
2-10
2-30
10
28
14
30
3-15
2-25
SELF TEST PANEL
A
B
LAMP TEST
CHANNEL A
CHANNEL B
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
WRITE PULSES
T1
T7
ON
OFF
WZ
WA
WALP
WB
WG4
WG5
WG6
WQ
WX
WY
WS
WBK
WLP
WBY
RE
100
200
300
400
500
SIGNAL SELECT
SIGNAL SELECT
DC INPUTS
T67 TIMING
EXECUTE
ON
OFF
TEST
NORMAL
SINGLE
FREE RUN
SELF TEST
OFF
ON
LDFB
RDFB
TCFB
ON
OFF
17-21
17-14
17-10
17-30
9
8
28
14
10
30
16
SEE NOTE 1

PARTIAL SECTION A-A
2 PLACES

NOTES

1. ASSEMBLE FIND NO. 19, FIND NO. 16 & FIND NO. 25 USING FIND NO. 22
2. FOR SYMBOLS, FABRICATION & REQUIRED TEST SEE ND 1002032
3. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
4. SOLDER PER MIL-S-6872
5. MARK APPLICABLE REV NUMBER PER ND1002019

D	B
C	B
B	B
A	—
—	—
SHT	SH 2
REV STATUS OF SHEETS	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
—	1020050	SCHEMATIC	REF
23	AN960C516	WASHER, FLAT	30
A/R	MIL-W-16878/1 TYPE E 22 BLK	WIRE, ELEC	29
4	MS24656-23	SWITCH, TOGGLE	28
4	MS15795-307	WASHER, FLAT	27
4	MS35338-80	WASHER, LOCK	26
6	MS35200-41	SCREW, MACHINE, FH	25
1	1020006	HARNESS	24
A/R	MIL-W-16878/1 TYPE E 22 WHT	WIRE, ELEC	23
A/R	MIL-S-40083 CL 31	COMPOUND, SEALING	22
19	MS24655-23	SWITCH, TOGGLE	21
8	MS35249-54	SCREW, MACHINE, FH	20
8	MS35200-42	SCREW, FH	19
14	MS21045-C08	NUT, SELF-LOCKING	18
4	MS35233-45	SCREW, MACHINE, PAN HD	17
2	MS51022-23	SETSCREW, HEX SOCKET	16
3	MS91528-2K2B	KNOB, CONTROL	15
23	MS35333-40	WASHER, LOCK	14
2	1006928	KNOB, BAR	13
1	MS25089-3C	SWITCH, PUSH	12
2	MS35179-1094A	CONNECTOR, RECEPTACLE	11
23	1006917-3	NUT, ADAPTER	10
1	1006953-5	SWITCH, ROTARY	9
1	1006953-4	SWITCH, ROTARY	8
1	1006886-2	SWITCH, ROTARY	7
2	1006892-2	SWITCH, ROTARY	6
1	1006930-1	SLIDE, RH	5
1	1006930-2	SLIDE, LH	4
2	1014215-4	HANDLE	3
1	1014382	CHASSIS, SELF TEST	2
1	1014381	PANEL	1

LIST OF MATERIALS

1014380

NEXT ASSY	USED ON
MV4156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.12 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN P. Winfield DATE 26 [illegible]
CHECKED [illegible] 29 JUL 63
APPROVAL C. [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

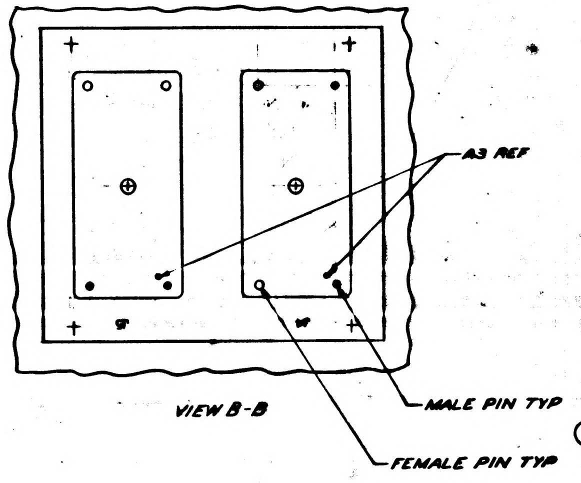
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SELF TEST ASSEMBLY

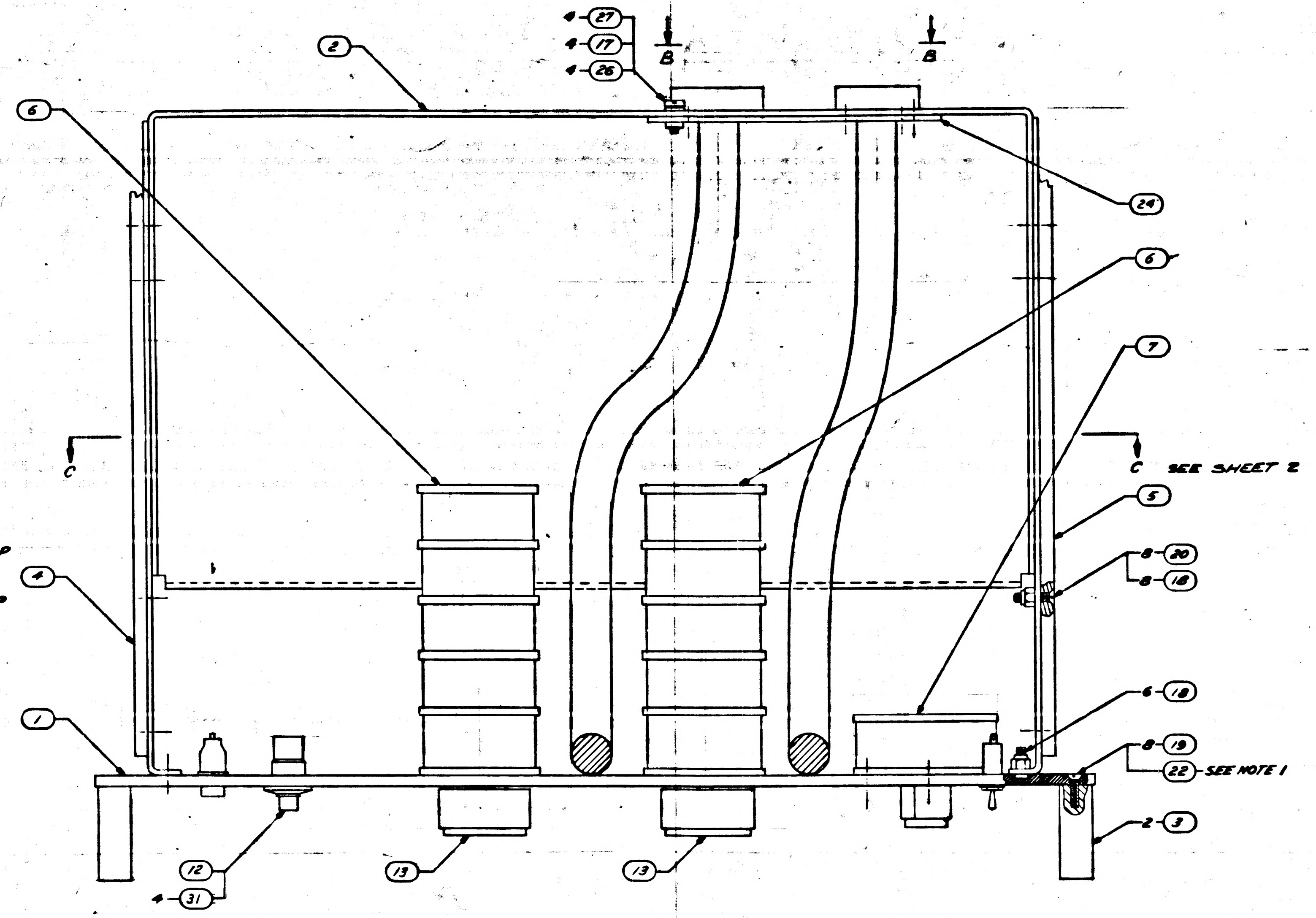
CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014380
SCALE 1/1
WT
SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 03430		
A	CLASS II CHANGE PER RD-R 5496A DR C. [illegible] CHK [illegible] APPD [illegible]	11-5-63	JJB
B	CLASS II CHANGE PER RD-R 5673 DR. [illegible] CHK [illegible] APPD [illegible]	1-8-64	JJB
C	CLASS II CHANGE PER RD R 5692 DR [illegible] CHK [illegible] APPD [illegible]	1-21-64	JJB
D	CHANGED PER TDRR 06091 DR. W. Brown CHK. [illegible] APPD. [illegible]	3 MAR 64	KEB
E	CLASS II CHANGE PER RD R5881 DR J.P. [illegible] CHK [illegible] APPD [illegible]	8 APR 64	KEB
F	CHANGED PER TDRR 09759 DR [illegible] CHK J.C.J. APPD [illegible]	9 JUNE 64	[illegible]



A3 REF
MALE PIN TYP
FEMALE PIN TYP
VIEW B-B

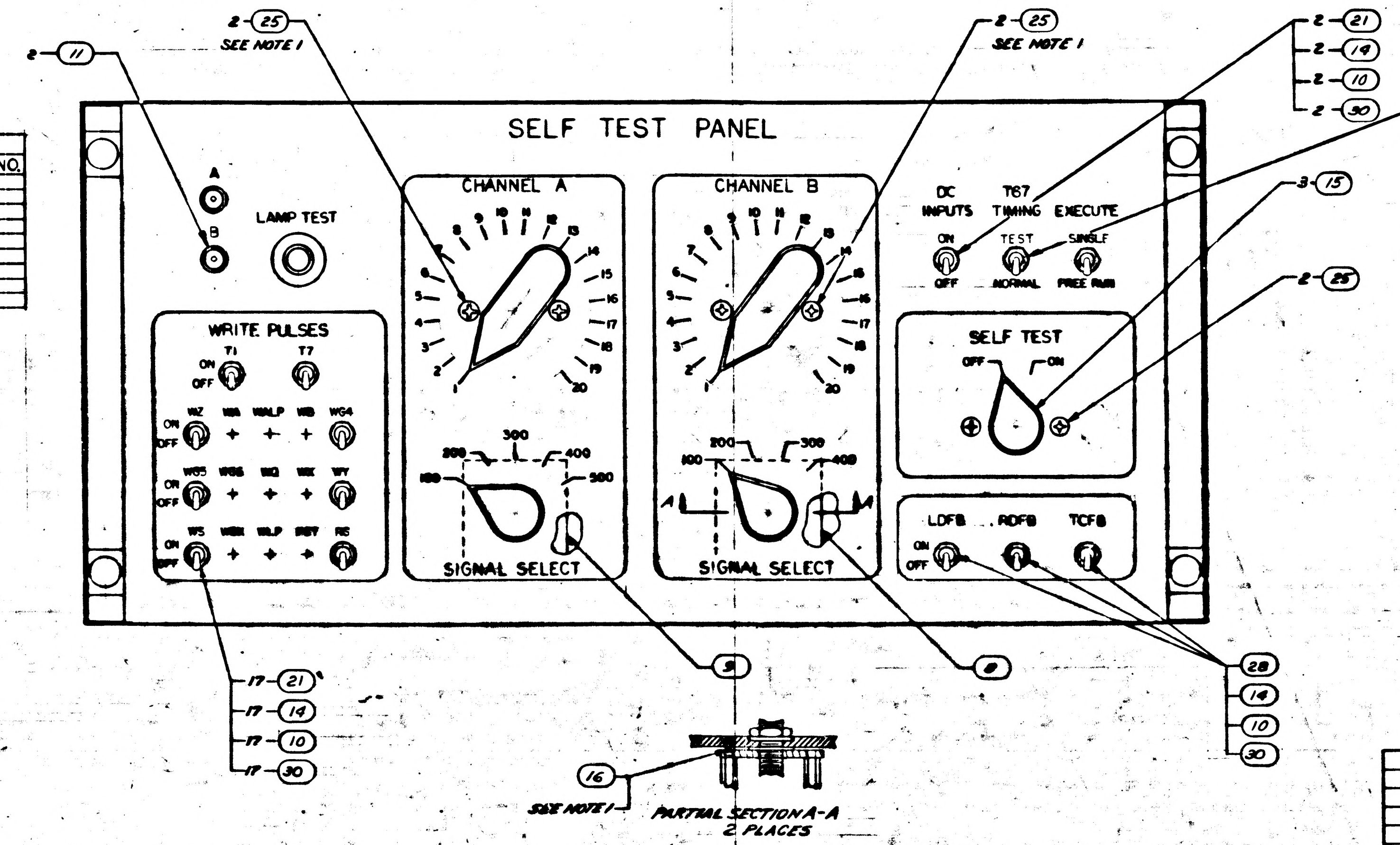


4-27
4-17
4-26
B
B
2
6
24
6
7
C
C SEE SHEET 2
5
4
8-20
8-18
1
6-18
8-19
22-SEE NOTE 1
2-3
12
4-31
13
13

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03430 DATE 26 Sep 63

JUMPER LIST			
FROM	TO	LENGTH	FIND NO.
S24-3	S23-3	2.00	23
S23-3	S22-3	2.00	23
S22-3	S21-3	5.00	23
S21-3	S19-3	2.50	23
S19-3	S17-3	2.50	23
S17-3	S16-3	5.00	23
S16-3	S15-3	2.00	23
S26-3	S25-3	2.00	23
S25-3	S20-3	3.00	23
S20-3	S18-3	2.50	23
S18-3	S14-3	3.00	23
S14-3	S13-3	2.00	23
S13-3	S12-3	2.00	23
S2-3	S2-4	1.75	23
~~[illegible]~~	~~[illegible]~~	~~2.00~~	~~23~~
~~[illegible]~~	~~[illegible]~~		~~23~~
S22-1	S23-1	2.00	29
S23-1	S24-1		
S24-1	S25-1		
S25-1	S26-1		
S26-1	S21-1		
S21-1	S20-1		
S20-1	S19-1	2.00	29

JUMPER LIST			
FROM	TO	LENGTH	FIND NO.
S18-1	S17-1	2.00	29
S17-1	S12-1		
S12-1	S13-1		
S13-1	S14-1		
S14-1	S15-1		
S15-1	S16-1		
S28-4	S29-4	2.00	
S18-1	S10-3	3.00	
S11-3	S10-3	2.25	29



2-11
2-25
SEE NOTE 1
2-25
SEE NOTE 1
2-21
2-19
2-10
2-30
10
28
14
30
3-15
2-25
SELF TEST PANEL
A
B
LAMP TEST
CHANNEL A
CHANNEL B
DC INPUTS
T67 TIMING
EXECUTE
ON
OFF
TEST
NORMAL
SINGLE
FREE RUN
SELF TEST
OFF
ON
WRITE PULSES
T1
T7
ON
OFF
SIGNAL SELECT
SIGNAL SELECT
LDFB
RDFB
TCFB
9
8
28
14
10
30
17-21
17-14
17-10
17-30
16
SEE NOTE 1
PARTIAL SECTION A-A
2 PLACES

NOTES
1. ASSEMBLE FIND NO. 19, FIND NO. 16 & FIND NO. 25 USING FIND NO. 22
2. FOR SYMBOLS, FABRICATION & REQUIRED TEST SEE ND 1002032
3. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
4. SOLDER PER MIL-S-6872
5. MARK APPLICABLE REV NUMBER PER ND1002019
6. FIND NO. 31 IS TO BE USED IN PLACE OF EXISTING LUG WHEN MORE THAN ONE LEAD IS REQUIRED TO BE SOLDERED TO TERMINAL

F	F
E	B
D	B
C	B
B	B
A	—
—	—
SH1	SH2
REV STATUS OF SHEETS	

—	1020050	SCHEMATIC	REF
AR	1006236-1	TERMINAL, LUG	31
23	AN960C516	WASHER, FLAT	30
A/R	MIL-W-16878/4 TYPE E 22 BLK	WIRE, ELEC	29
4	MS24656-23	SWITCH, TOGGLE	28
4	MS15795-307	WASHER, FLAT	27
4	MS35338-80	WASHER, LOCK	26
6	MS35200-41	SCREW, MACHINE, FH	25
1	1020C06	HARNESS	24
A/R	MIL-W-16878/4 TYPE E 22 WHT	WIRE, ELEC	23
AR	MIL-S-40083 CL 31	COMPOUND, SEALING	22
19	MS24655-23	SWITCH, TOGGLE	21
8	MS35249-54	SCREW, MACHINE, FH	20
8	MS35200-42	SCREW, FH	19
14	MS21045-C08	NUT, SELF-LOCKING	18
4	MS35233-45	SCREW, MACHINE, PAN HD	17
2	MS51022-23	SETSCREW, HEX SOCKET	16
3	MS91528-2K2B	KNOB, CONTROL	15
23	MS35333-40	WASHER, LOCK	14
2	1006928	KNOB, BAR	13
1	MS25089-3C	SWITCH, PUSH	12
2	MS35179-1094A	CONNECTOR, RECEPTACLE	11
23	1006917-3	NUT, ADAPTER	10
1	1006953-5	SWITCH, ROTARY	9
1	1006953-4	SWITCH, ROTARY	8
1	1006886-2	SWITCH, ROTARY	7
2	1006892-2	SWITCH, ROTARY	6
1	1006930-1	SLIDE, RH	5
1	1006930-2	SLIDE, LH	4
2	1014215-4	HANDLE	3
1	1014382	CHASSIS, SELF TEST	2
1	1014381	PANEL	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

SEE NOTE 6

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.12 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 26 JUN 63
CHECKED [illegible] 29 JUL 63
APPROVAL C. [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SELF TEST ASSEMBLY

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014380
SCALE 1/1
WT
SHEET 1 OF 2

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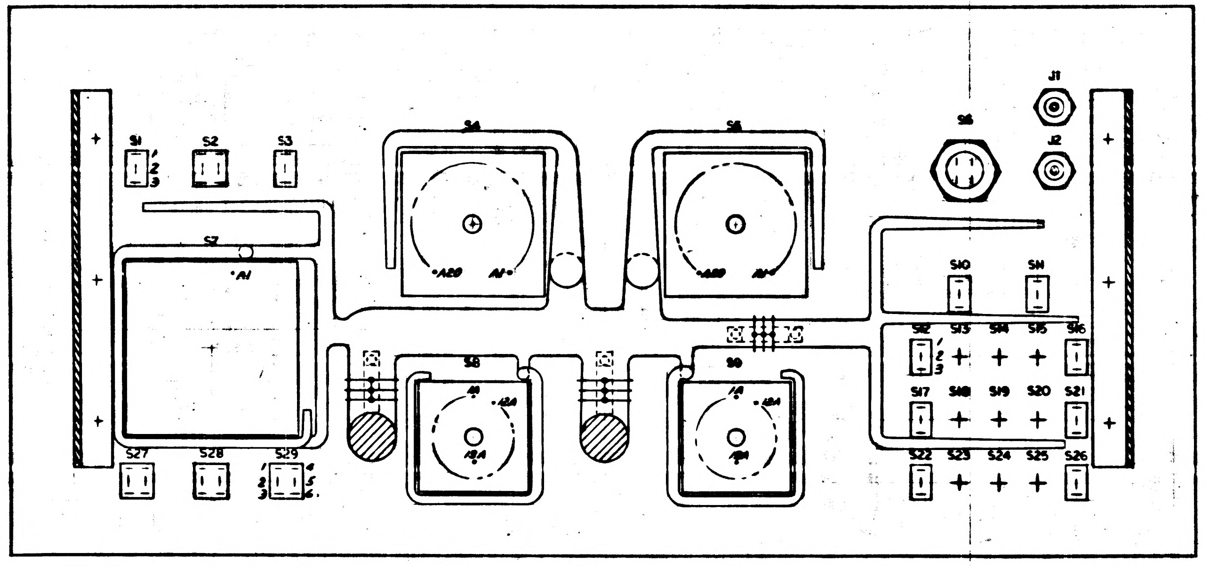
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 03430	26 Jul 63	
B	CLASS II CHANGE PER RD-R5673 DR. Kimball CHK APPD	1-7-64	JJB
F	CHANGED PER TDRR 09759 DR. CHK J.C.S. APPD	9 JUNE 64	



SECTION C-C
ROTATED 180°
SEE SHEET 1

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03430 DATE 26 Jul 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN P. Winfield DATE 26 JUN 63
CHECKED D. Perrone 29 JUL 63
APPROVAL C. Spaulding
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SELF TEST ASSEMBLY

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014380
SCALE 1/1
WT
SHEET 2 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014380

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SIBILITY NOR ANY OBLIGATION WHATSOEVER
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HER PERSON OR CORPORATION, OR CONVEY-
S TO MANUFACTURE, USE, OR SELL ANY
ANY WAY BE RELATED THERETO.

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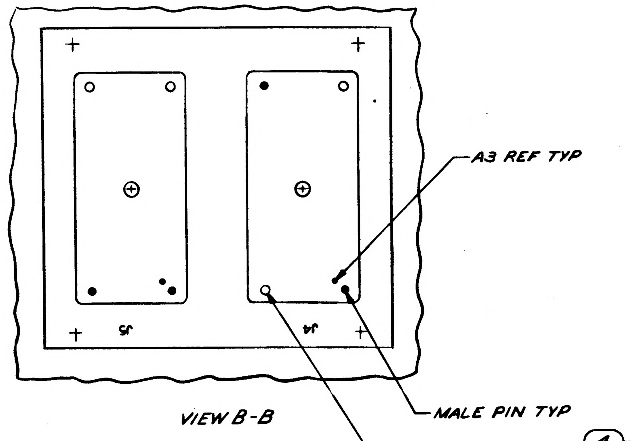
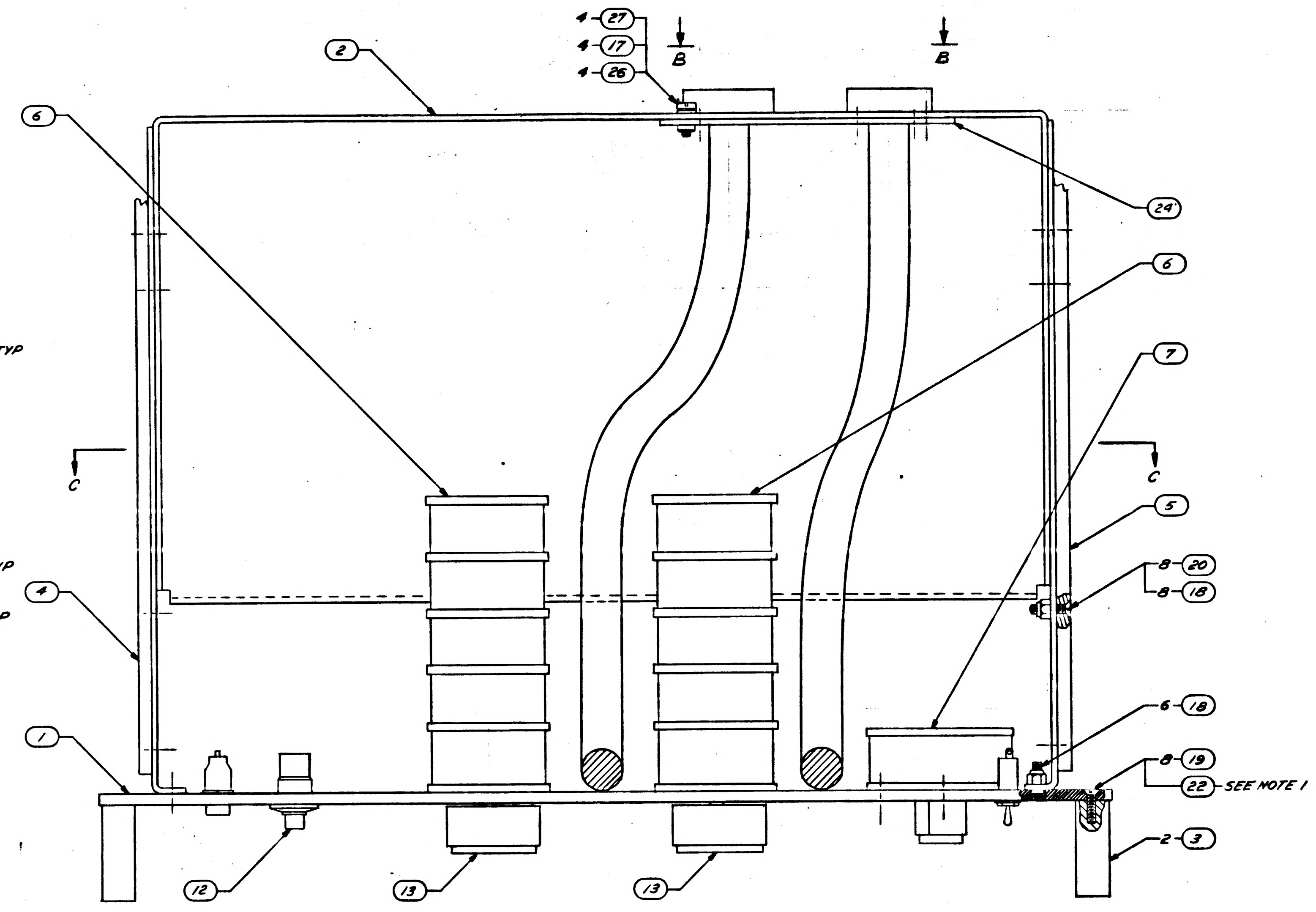
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 03430	26Sep63	

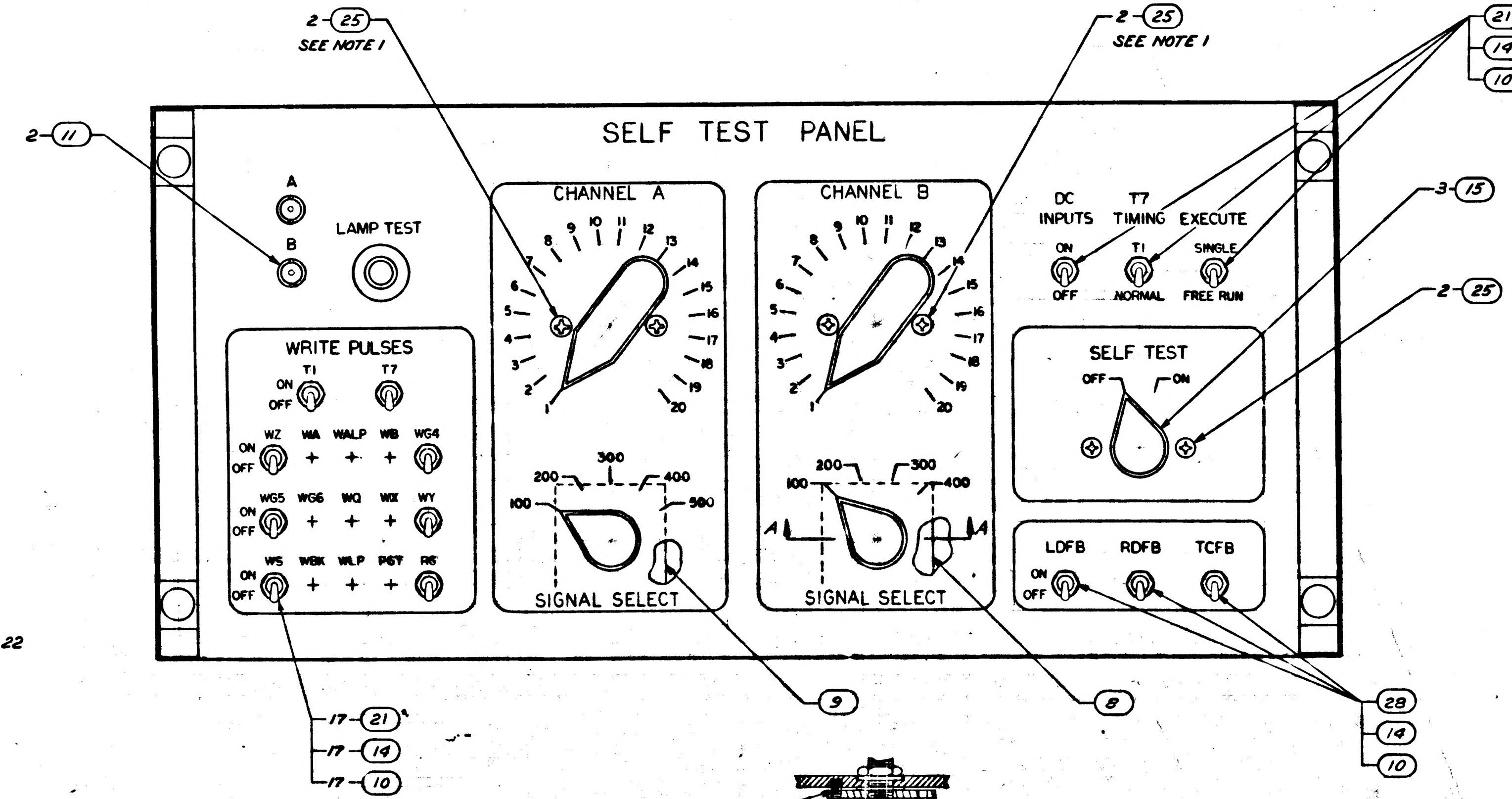

A3 REF TYP
MALE PIN TYP
FEMALE PIN TYP
J5
J4

VIEW B-B

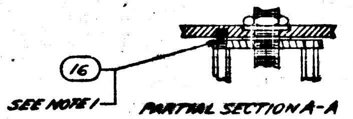

2
4-27
4-17
4-26
B
B
6
24
6
7
C
C
5
8-20
8-18
4
6-18
8-19
22 SEE NOTE 1
1
2-3
12
13
13

JUMPER LIST			
FROM	TO	LENGTH	FIND NO.
J1-GRD	J2-GRD	2.38	29
S7-E-ARM	S7-F-ARM	3.12	23
S7-F-ARM	S7-G-ARM	3.12	
S7-G-ARM	S7-H-ARM	3.12	
S12-2	S13-2	1.75	
S13-2	S14-2	1.75	
S15-1	S16-1	1.75	
S15-2	S16-2	1.75	
S17-1	S19-1	2.38	
S19-1	S21-1	2.38	
S17-2	S19-2	2.38	
S19-2	S21-2	2.38	
S18-2	S20-2	2.38	
S22-1	S23-1	1.75	
S23-1	S24-1	1.75	
S22-2	S3-2	1.75	
S23-2	S24-2	1.75	
S25-2	S26-2	1.75	23

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03430 DATE 26 Sep 63


2-25
SEE NOTE 1
2-25
SEE NOTE 1
21
14
10
2-11
SELF TEST PANEL
A
B
LAMP TEST
CHANNEL A
CHANNEL B
DC INPUTS
T7 TIMING
EXECUTE
ON
OFF
T1
NORMAL
SINGLE
FREE RUN
3-15
2-25
WRITE PULSES
T1
T7
ON
OFF
WZ
WA
WALP
WB
WG4
WG5
WG6
WQ
WX
WY
W5
WBK
WLP
PST
RS
SELF TEST
OFF
ON
200
300
400
100
500
A
SIGNAL SELECT
SIGNAL SELECT
LDFB
RDFB
TCFB
17-21
17-14
17-10
9
8
28
14
10

NOTES
1. ASSEMBLE FIND NO.19, FIND NO.16 & FIND NO.25 USING FIND NO.22
2. FOR SYMBOLS, FABRICATION & REQUIRED TEST SEE ND 1002032
3. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
4. SOLDER PER MSFC-PROC-158B
5. MARK APPLICABLE REV NUMBER PER ND1002019


16
SEE NOTE 1

PARTIAL SECTION A-A
2 PLACES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
—	1020050	SCHEMATIC	REF
A/R	ND1002181 TYPE I CL 1	WIRE, ELEC, AWG 22 BLK	29
3	MS24656-23	SWITCH, TOGGLE	28
4	MS15795-307	WASHER, FLAT	27
4	MS35338-80	WASHER, LOCK	26
6	MS35200-41	SCREW, MACHINE, FH	25
1	1020006	HARNESS	24
A/R	ND1002181 TYPE I CL 1	WIRE, ELEC, AWG 22 WHT	23
A/R	MIL-S-40083CL 31	COMPOUND, SEALING	22
20	MS24655-23	SWITCH, TOGGLE	21
8	MS35249-54	SCREW, MACHINE, FH	20
8	MS35249-53	SCREW, MACHINE, FH	19
14	MS21045-C08	NUT, SELF-LOCKING	18
4	MS 35233-45	SCREW, MACHINE, PAN HD	17
3	MS51022-23	SETSCREW, HEX SOCKET	16
3	MS91528-2K2B	KNOB, CONTROL	15
23	MS35333-40	WASHER, LOCK	14
2	1006928	KNOB, BAR	13
1	MS25089-3C	SWITCH, PUSH	12
2	MS35179-1094A	CONNECTOR, RECEPTACLE	11
23	1006917-3	NUT, ADAPTER	10
1	1006953-5	SWITCH, ROTARY	9
1	1006953-4	SWITCH, ROTARY	8
1	1006886-2	SWITCH, ROTARY	7
2	1006892-2	SWITCH, ROTARY	6
1	1006930-1	SLIDE, RH	5
1	1006930-2	SLIDE, LH	4
2	1014215-4	HANDLE	3
1	1014382	CHASSIS, SELF TEST	2
1	1014381	PANEL	1

LIST OF MATERIALS

1014380

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.12 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN P. Winfield DATE 26 JUN 63
CHECKED D. Ferrari 29 JUL 63
APPROVAL C. Spalding
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SELF TEST ASSEMBLY

CODE IDENT NO —
SIZE J
NASA DRAWING NO. 1014380
SCALE 1/1
WT
SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

F-2

1014380

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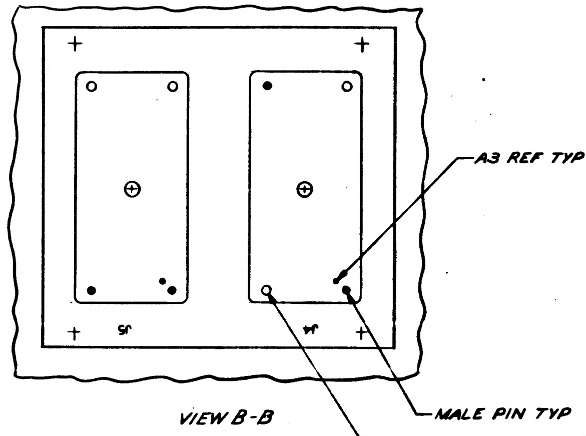
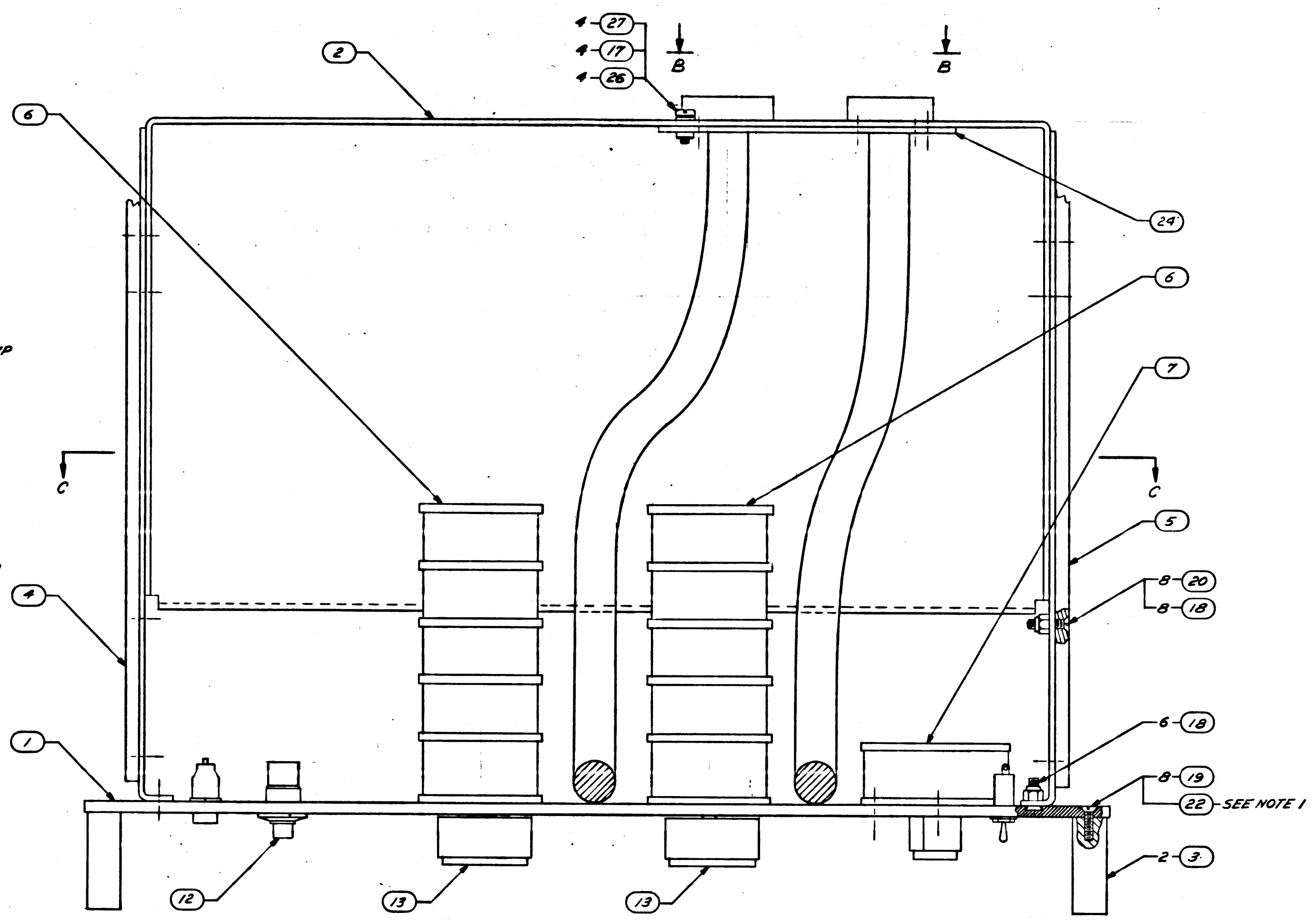
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS

REVISIONS	
SYM	DESCRIPTION
—	CLASS B RELEASED PER TDRR NO.



+
+
J5
J4
A3 REF TYP
MALE PIN TYP
FEMALE PIN TYP

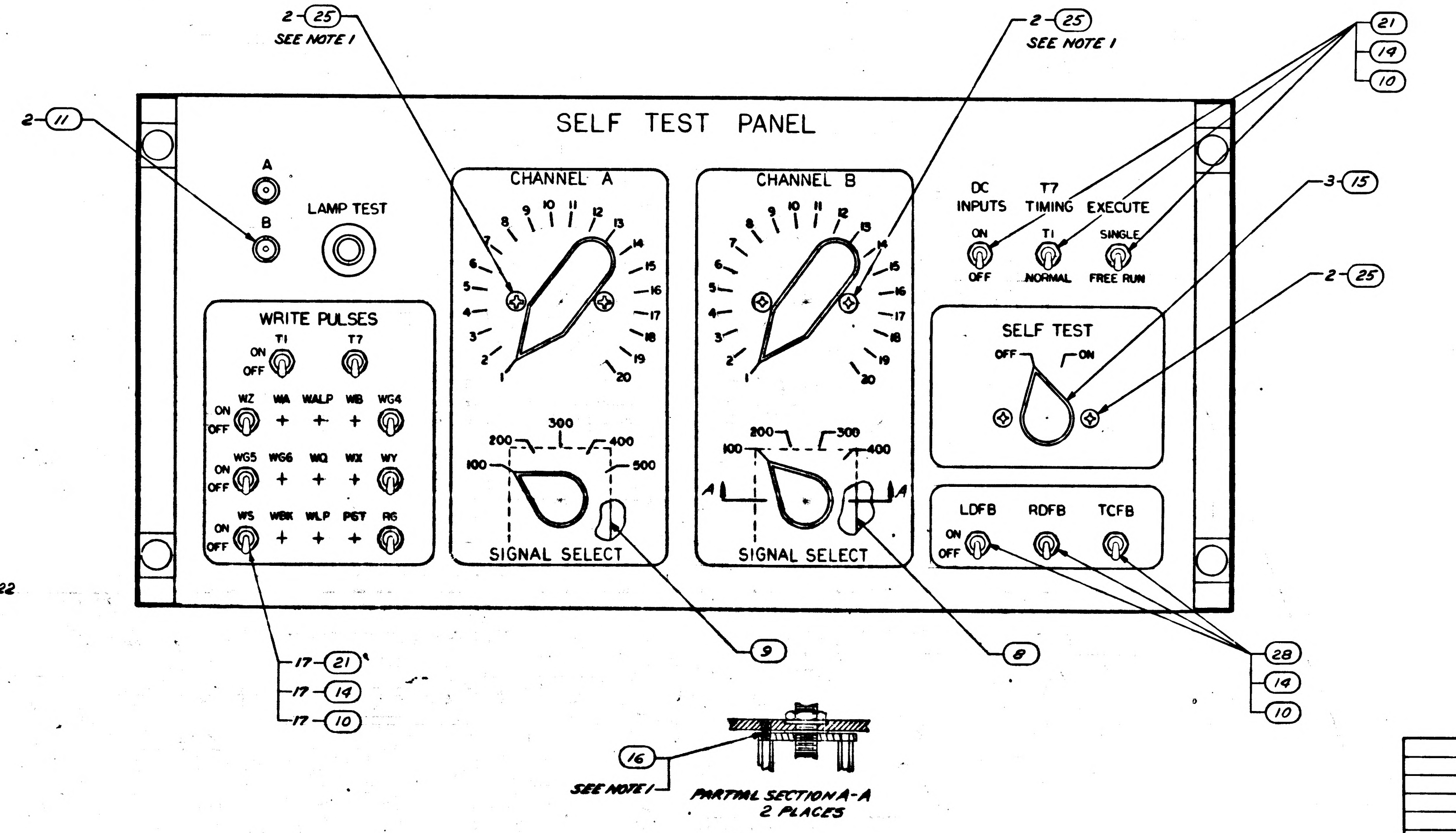
VIEW B-B



2
4-27
4-17
4-26
B
B
6
29
6
7
C
C
5
8-20
8-18
4
1
6-18
8-19
22 SEE NOTE 1
2-3
12
13
13

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03430 DATE 26 Sep 63

JUMPER LIST			
FROM	TO	LENGTH	FIND NO.
J1-GRD	J2-GRD	2.38	29
S7-E-ARM	S7-F-ARM	3.12	23
S7-F-ARM	S7-G-ARM	3.12	
S7-G-ARM	S7-H-ARM	3.12	
S12-2	S13-2	1.75	
S13-2	S14-2	1.75	
S15-1	S16-1	1.75	
S15-2	S16-2	1.75	
S17-1	S19-1	2.38	
S19-1	S21-1	2.38	
S17-2	S19-2	2.38	
S19-2	S21-2	2.38	
S18-2	S20-2	2.38	
S22-1	S23-1	1.75	
S23-1	S24-1	1.75	
S22-2	S3-2	1.75	
S23-2	S24-2	1.75	
S25-2	S26-2	1.75	23



2-25
SEE NOTE 1
2-25
SEE NOTE 1
21
19
10
SELF TEST PANEL
2-11
A
B
LAMP TEST
CHANNEL A
CHANNEL B
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
DC INPUTS
ON
OFF
T7 TIMING
T1
NORMAL
EXECUTE
SINGLE
FREE RUN
3-15
2-25
WRITE PULSES
T1
T7
ON
OFF
WZ
WA
WALP
WB
WG4
WG5
WG6
WQ
WX
WY
WS
WBK
WLP
PST
RG
SELF TEST
OFF
ON
100
200
300
400
500
SIGNAL SELECT
A
LDFB
RDFB
TCFB
17-21
17-14
17-10
9
8
28
14
10
16
SEE NOTE 1
PARTIAL SECTION A-A
2 PLACES

NOTES
1. ASSEMBLE FIND NO. 19, FIND NO. 16 & FIND NO. 25 USING FIND NO. 22
2. FOR SYMBOLS, FABRICATION & REQUIRED TEST
SEE ND 1002032
3. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
4. SOLDER PER MSFC-PROC-158B
5. MARK APPLICABLE REV NUMBER PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	
—	1020050	SCHEMATIC
A/R	ND1002181 TYPE I CL 1	WIRE, ELEC, AW
3	MS24656-23	SWITCH, TO
4	MS15795-307	WASHER, FLA
4	MS35338-80	WASHER, LOCK
6	MS35200-41	SCREW, MACHINE
1	1020006	HARNESS
A/R	ND1002181 TYPE I CL 1	WIRE, ELEC, AW
A/R	MIL-S-40083CL 3,	COMPOUND, SE
20	MS24655-23	SWITCH, TOGG
8	MS35249-54	SCREW, MACHIN
8	MS35249-53	SCREW, MACHIN
14	MS21045-C08	NUT, SELF-LOC
4	MS35233-45	SCREW, MACHINE
3	MS51022-23	SETSCREW, H
3	MS91528-2K2B	KNOB, CONTROL
23	MS35333-40	WASHER, LOCK
2	1006928	KNOB, BAR
1	MS25089-3C	SWITCH, PUSH
2	MS35179-1094A	CONNECTOR, RE
23	1006917-3	NUT, ADAPTE
1	1006953-5	SWITCH, ROTA
1	1006953-4	SWITCH, ROTA
1	1006886-2	SWITCH, ROTA
2	1006892-2	SWITCH, ROTA
1	1006930-1	SLIDE, RH
1	1006930-2	SLIDE, LH
2	1014215-4	HANDLE
1	1014382	CHASSIS, SELF
1	1014381	PANEL

LIST OF MATERIALS

1014156	1020002	
NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.12 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN P. Winfield DATE 26 JUN 63
CHECKED D. R. Perrone 29 JUL 63
APPROVAL C. Spa
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPAC

SELF TEST

CODE IDENT NO.
J
SCALE 1/1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

5 4 3 2 1

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
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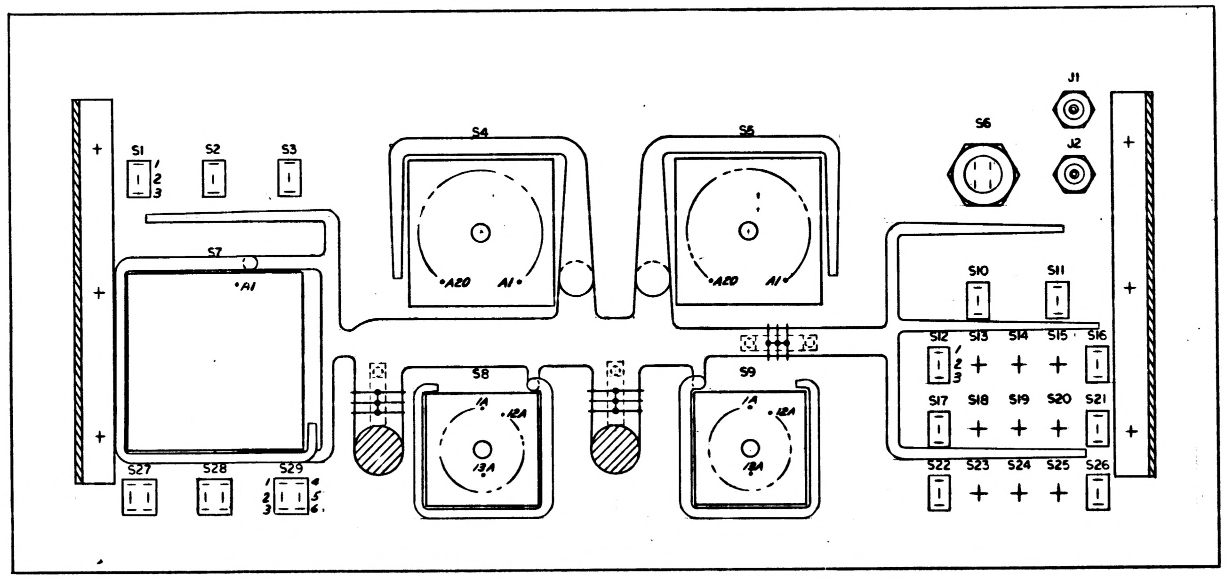

SECTION C-C
ROTATED 180°

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03430 DATE 26 Jul 63

D C B A

1014380

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN P. Winfield DATE 26JUL63
CHECKED D. Perrone 29JUL63
APPROVAL C. Sperling
APPROVAL
APPROVAL
NASA APPROVAL 9/24/63
MIT APPROVAL 9/26/63
MIT APPROVAL J. Sedman 9/24/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SELF TEST ASSEMBLY

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014380
SCALE 1/1
WT
SHEET 2 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

F2 1014380

1014380

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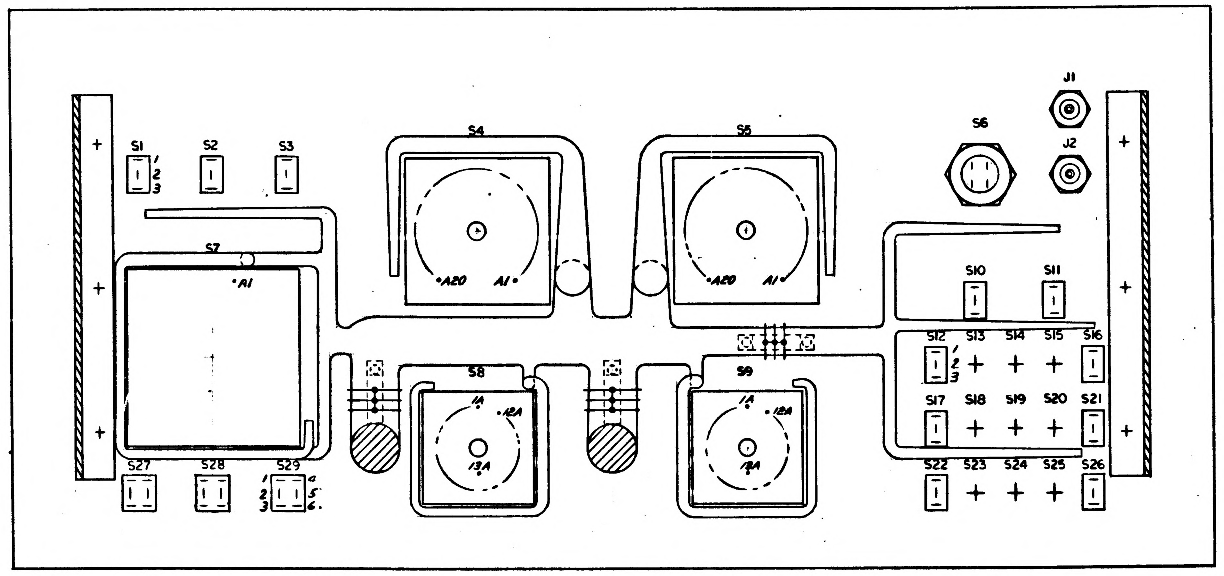
ANY USE OF THIS DOCUMENT FOR OTHER THA GOVERNMENTAL PURPOSES IS

REVISIONS	
SYM	DESCRIPTION
—	CLASS B RELEASED PER TDRR NO.



SECTION C-C
ROTATED 180°

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03430 DATE 26 Jly 63

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO
LIST OF MATERIALS	

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO NAS 9-498
DRAWN P. Winfield DATE 26 ...
CHECKED D. Perrone 29 JUL
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

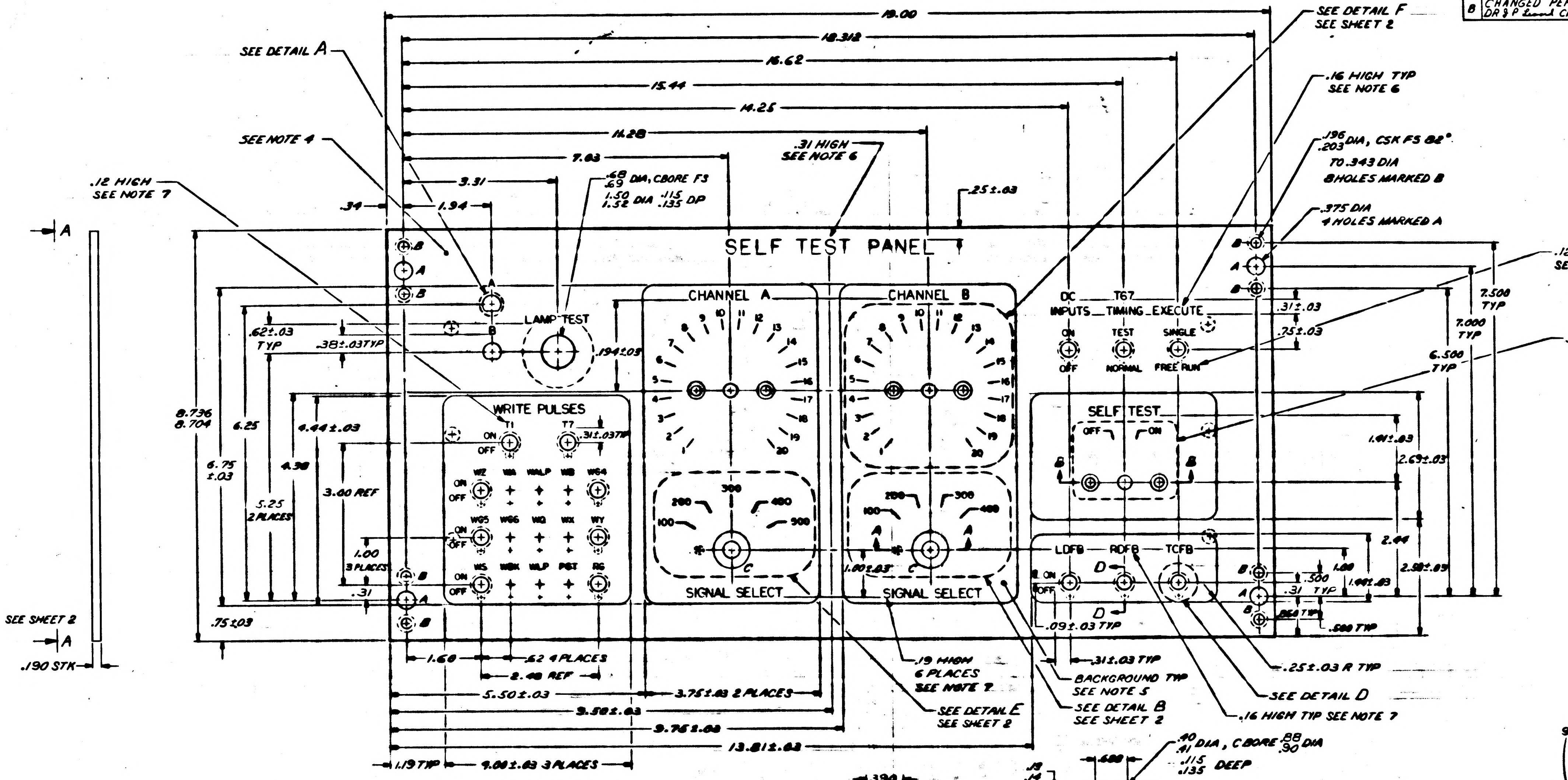
MANNED S
SELF TES

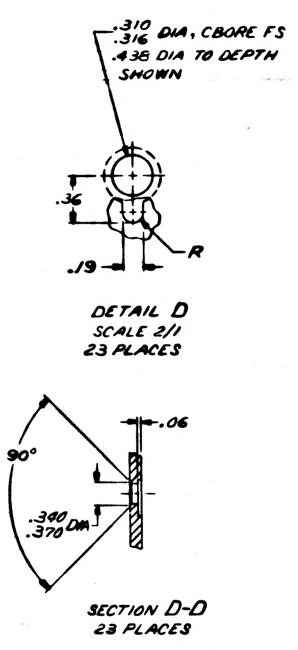
CODE IDENT NO —
SIZE J
SCALE 1/1

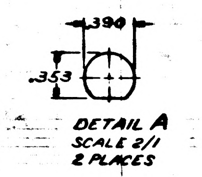
INCHES
0 2
PHOTOGRAPHIC SCALE ONLY

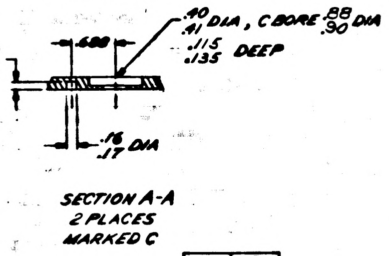
F1 1014380

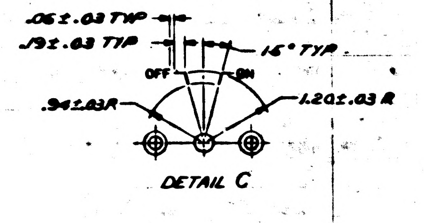
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO.		
A	CLASS II CHANGE PER RD-R5673 DR J.P. Leonard CHK		JJS
B	CHANGED PER TDRR NO. 10463 DR J P Leonard CHK G. G. C. APPD	7-1-64	JB

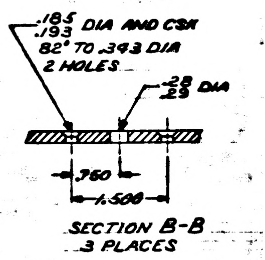

SELF TEST PANEL
CHANNEL A
CHANNEL B
LAMP TEST
WRITE PULSES
T1
T7
ON
OFF
WZ
WA
WALP
WB
W64
WG5
WG6
WQ
WX
WY
WS
WBK
WLP
PST
RG
SIGNAL SELECT
DC INPUTS
T67 TIMING
EXECUTE
TEST
NORMAL
SINGLE
FREE RUN
SELF TEST
LDFB
RDFB
TCFB
SEE DETAIL A
SEE NOTE 4
.12 HIGH SEE NOTE 7
.31 HIGH SEE NOTE 6
SEE DETAIL F SEE SHEET 2
.16 HIGH TYP SEE NOTE 6
.196/.203 DIA, CSK FS 82° TO .343 DIA 8 HOLES MARKED B
.375 DIA 4 HOLES MARKED A
.12 HIGH TYP SEE NOTE 6
SEE DETAIL C
.68/.69 DIA, CBORE FS 1.50/1.52 DIA .115/.135 DP
19.00
18.312
16.62
15.44
14.25
11.28
7.03
3.31
1.94
.34
.25±.03
.62±.03 TYP
.38±.03TYP
.194±.03
8.736/8.704
6.25
6.75 ±.03
5.25 2 PLACES
4.44±.03
4.38
3.00 REF
1.00 3 PLACES
.31
.75±.03
.31±.03TYP
.31±.03
.75±.03
7.500 TYP
7.000 TYP
6.500 TYP
1.41±.03
2.69±.03
2.44
2.38±.03
1.00
1.41±.03
.500
.31 TYP
.500 TYP
.09±.03 TYP
.31±.03 TYP
.25±.03 R TYP
1.60
.62 4 PLACES
2.48 REF
5.50±.03
3.75±.03 2 PLACES
3.50±.03
9.76±.03
13.81±.03
1.19 TYP
9.00±.03 3 PLACES
.19 HIGH 6 PLACES SEE NOTE 7
BACKGROUND TYP SEE NOTE 5
SEE DETAIL B SEE SHEET 2
SEE DETAIL E SEE SHEET 2
SEE DETAIL D
.16 HIGH TYP SEE NOTE 7
SEE SHEET 2
.190 STK
A


.310/.316 DIA, CBORE FS .438 DIA TO DEPTH SHOWN
.36
.19
R
DETAIL D SCALE 2/1 23 PLACES
90°
.06
.340/.370 DIA
SECTION D-D 23 PLACES


.390
.353
DETAIL A SCALE 2/1 2 PLACES


.40/.41 DIA, CBORE .88/.90 DIA .115/.135 DEEP
.15/.14
.688
.16/.17 DIA
SECTION A-A 2 PLACES MARKED C


.06±.03 TYP
.19±.03 TYP
15° TYP
OFF
ON
.94±.03R
1.20±.03 R
DETAIL C


.185/.193 DIA AND CSK 82° TO .343 DIA 2 HOLES
.28/.29 DIA
.750
1.500
SECTION B-B 3 PLACES

NOTES

①

1. MATL: AL 6061-T6 PER QQ-A-327, TEMP T6
2. REMOVE BURRS & SHARP EDGES
3. ELECTRICALLY CONDUCTIVE CHROMATE PER MIL-C-5541
4. PAINT FRONT & EDGES 1 COAT TT-E-529, CLASS B, FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
5. PAINT 1 COAT TT-E-529, CLASS B, FED-STD-595 COLOR NO. 26251 PER MIL-F-14072 P513 TYPE II
6. SILKSCREEN (FRONT OF PANEL) BLACK PER ND1002019
7. SILKSCREEN (FRONT OF PANEL) WHITE PER ND1002019
8. MARK (REAR OF PANEL) .12 HIGH BLACK PER ND1002019

B	B
A	A
—	—
SH1	SH2
REV STATUS OF SHEETS	

FOR INFORMATION ONLY

CLASS B RELEASE PER TDRR NO. 03431 DATE 26 Sep 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
3	1006906-2	BRACKET, CABLE	4
6	MS20426A2-6	RIVET, FLAT HD	3
6	1006951-007	STUD, CAPTIVE	2
1	1014381-1	PANEL	1

LIST OF MATERIALS

1014380	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 .02 ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN C. Winfield DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
APPROVAL
APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL, TEST, ELECTRICAL
SELF TEST

CODE IDENT NO —
SIZE F
NASA DRAWING NO. 1014381
SCALE 1/1
WT
SHEET 1 OF 2

1014381

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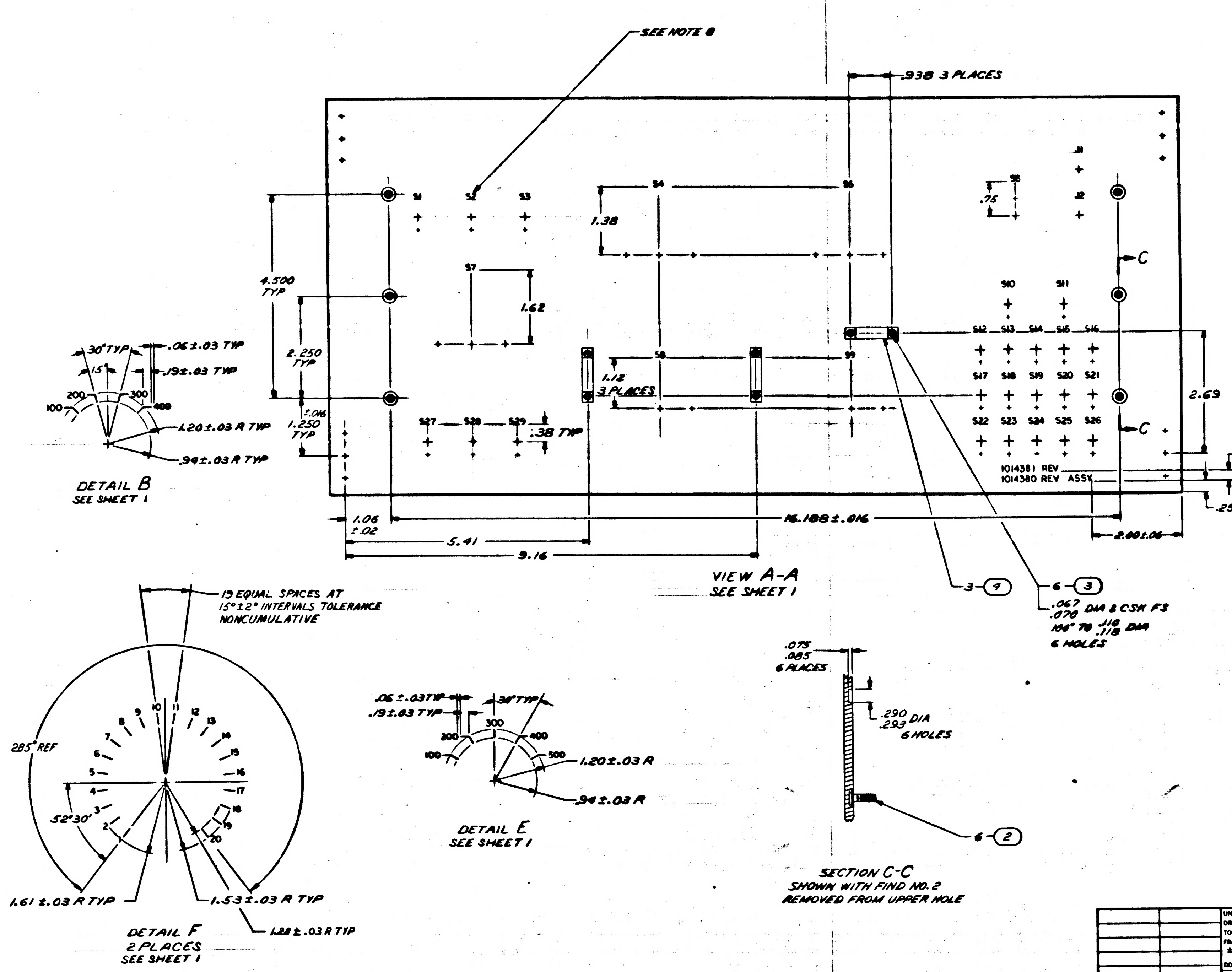
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO.		
A	CLASS II CHANGE PER RD-R5673 DR&P Leonard CHK G. G. Kegan APPD	1-8-64	JJB
B	CHANGED PER TDRR NO. 10463 DR&P Leonard CHK G G G APPD	7-1-64	JJB



SEE NOTE 8
.938 3 PLACES
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
S16
S17
S18
S19
S20
S21
S22
S23
S24
S25
S26
S27
S28
S29
J1
J2
.75
1.38
1.62
4.500 TYP
2.250 TYP
1.250 ±.016 TYP
1.12 3 PLACES
.38 TYP
2.69
.22
.25±.06
1014381 REV
1014380 REV ASSY
1.06 ±.02
5.41
9.16
16.188±.016
2.00±.06
C
VIEW A-A
SEE SHEET 1
3-④
6-③
.067 .070 DIA & CSK F3 100° TO .110 .118 DIA 6 HOLES
30° TYP
15°
.06±.03 TYP
.19±.03 TYP
100
200
300
400
1.20±.03 R TYP
.94±.03 R TYP
DETAIL B
SEE SHEET 1
19 EQUAL SPACES AT 15°±2° INTERVALS TOLERANCE NONCUMULATIVE
285° REF
52°30'
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
1.61±.03 R TYP
1.53±.03 R TYP
1.28±.03 R TYP
DETAIL F
2 PLACES
SEE SHEET 1
.06±.03 TYP
.19±.03 TYP
30° TYP
100
200
300
400
500
1.20±.03 R
.94±.03 R
DETAIL E
SEE SHEET 1
.075 .085 6 PLACES
.290 .293 DIA 6 HOLES
6-②
SECTION C-C
SHOWN WITH FIND NO. 2 REMOVED FROM UPPER HOLE

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03431 DATE 26 Jul 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014380	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.08 ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN P. Winfield DATE
CHECKED D. Perez 29 JUL 63
APPROVAL
APPROVAL 7/12/63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

PANEL, TEST, ELECTRICAL
SELF TEST

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014381
SCALE 1/1
WT
SHEET 2 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014381

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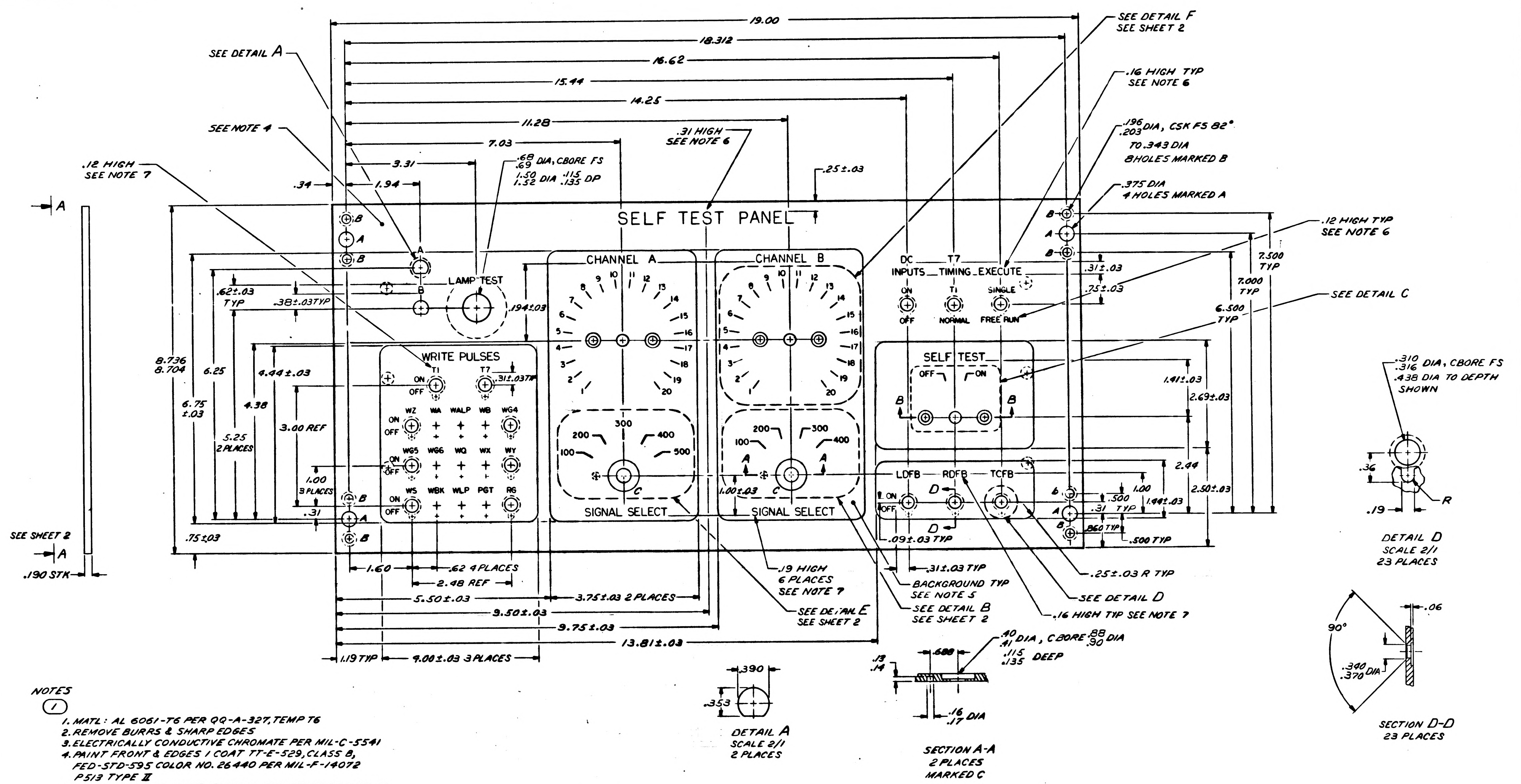
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO.		

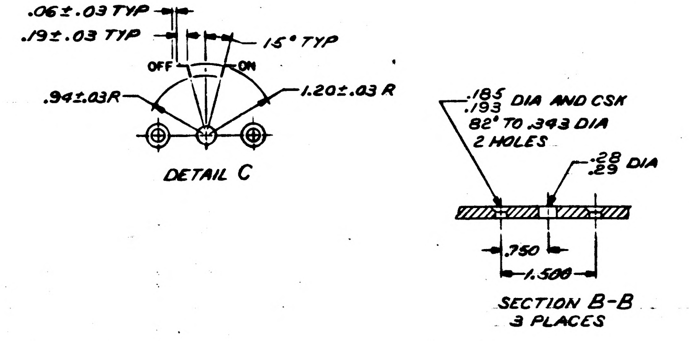


SELF TEST PANEL
CHANNEL A
CHANNEL B
LAMP TEST
WRITE PULSES
T1
T7
ON
OFF
WZ WA WALP WB WG4
WG5 WG6 WQ WX WY
WS WBK WLP PGT RG
SIGNAL SELECT
100 200 300 400 500
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
DC INPUTS
T7 TIMING
EXECUTE
SINGLE
FREE RUN
NORMAL
SELF TEST
LDFB
RDFB
TCFB
SEE DETAIL A
SEE NOTE 4
.12 HIGH SEE NOTE 7
.31 HIGH SEE NOTE 6
.68/.69 DIA, CBORE FS 1.50/1.52 DIA .115/.135 DP
SEE DETAIL F SEE SHEET 2
.16 HIGH TYP SEE NOTE 6
.196/.203 DIA, CSK FS 82° TO .343 DIA 8 HOLES MARKED B
.375 DIA 4 HOLES MARKED A
.12 HIGH TYP SEE NOTE 6
SEE DETAIL C
19.00
18.312
16.62
15.44
14.25
11.28
7.03
3.31
1.94
.34
.25±.03
8.736/8.704
6.75±.03
6.25
5.25 2 PLACES
4.44±.03
4.38
3.00 REF
1.00 3 PLACES
.31
.62±.03 TYP
.38±.03 TYP
.194±.03
.75±.03
.31±.03 TYP
.75±.03
7.500 TYP
7.000 TYP
6.500 TYP
1.41±.03
2.69±.03
2.44
2.50±.03
1.00
1.44±.03
.500
.31 TYP
.860 TYP
.500 TYP
1.00±.03
.09±.03 TYP
.31±.03 TYP
1.60
.62 4 PLACES
2.48 REF
5.50±.03
3.75±.03 2 PLACES
9.50±.03
9.75±.03
13.81±.03
1.19 TYP
9.00±.03 3 PLACES
A
SEE SHEET 2
.190 STK
.19 HIGH 6 PLACES SEE NOTE 7
SEE DETAIL E SEE SHEET 2
BACKGROUND TYP SEE NOTE 5
SEE DETAIL B SEE SHEET 2
.16 HIGH TYP SEE NOTE 7
SEE DETAIL D
.25±.03 R TYP
.390
.353
DETAIL A SCALE 2/1 2 PLACES
.40/.41 DIA, CBORE .88/.90 DIA .115/.135 DEEP
.688
.13/.14
.16/.17 DIA
SECTION A-A 2 PLACES MARKED C
.310/.316 DIA, CBORE FS .438 DIA TO DEPTH SHOWN
.36
.19
R
DETAIL D SCALE 2/1 23 PLACES
.06
90°
.340/.370 DIA
SECTION D-D 23 PLACES

NOTES

①

1. MATL: AL 6061-T6 PER QQ-A-327, TEMP T6
2. REMOVE BURRS & SHARP EDGES
3. ELECTRICALLY CONDUCTIVE CHROMATE PER MIL-C-5541
4. PAINT FRONT & EDGES 1 COAT TT-E-529, CLASS B, FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
5. PAINT 1 COAT TT-E-529, CLASS B, FED-STD-595 COLOR NO. 26251 PER MIL-F-14072 P513 TYPE II
6. SILKSCREEN (FRONT OF PANEL) BLACK PER ND1002019
7. SILKSCREEN (FRONT OF PANEL) WHITE PER ND1002019
8. MARK (REAR OF PANEL) .12 HIGH BLACK PER ND1002019



.06±.03 TYP
.19±.03 TYP
15° TYP
OFF
ON
.94±.03R
1.20±.03 R
DETAIL C
.185/.193 DIA AND CSK 82° TO .343 DIA 2 HOLES
.28/.29 DIA
.750
1.500
SECTION B-B 3 PLACES

FOR INFORMATION ONLY

CLASS B RELEASE PER TDRR NO. 03431 DATE 26 Sep 63

—	—
SH1	SH2
REV STATUS OF SHEETS	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
3	1006906-2	BRACKET, CABLE	4
6	MS20426 A2-6	RIVET, FLAT HD	3
6	1006951-007	STUD, CAPTIVE	2
1	1014381-1	PANEL	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014380	
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS ± DECIMALS ±.005 .02 ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO. LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 29 Jul 63
CHECKED D. Perrone 29 Jul 63
APPROVAL C Swaly
APPROVAL J. Yakaich 9/12/63
APPROVAL J. J. Rudstone 9/16/63
NASA APPROVAL W. Mitchell 9/19/63
MIT APPROVAL
MIT APPROVAL D. Solomon

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL, TEST, ELECTRICAL
SELF TEST

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014381
SCALE 1/1
WT
SHEET 1 OF 2

1014381

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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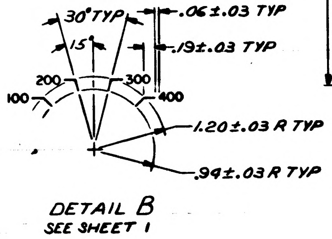
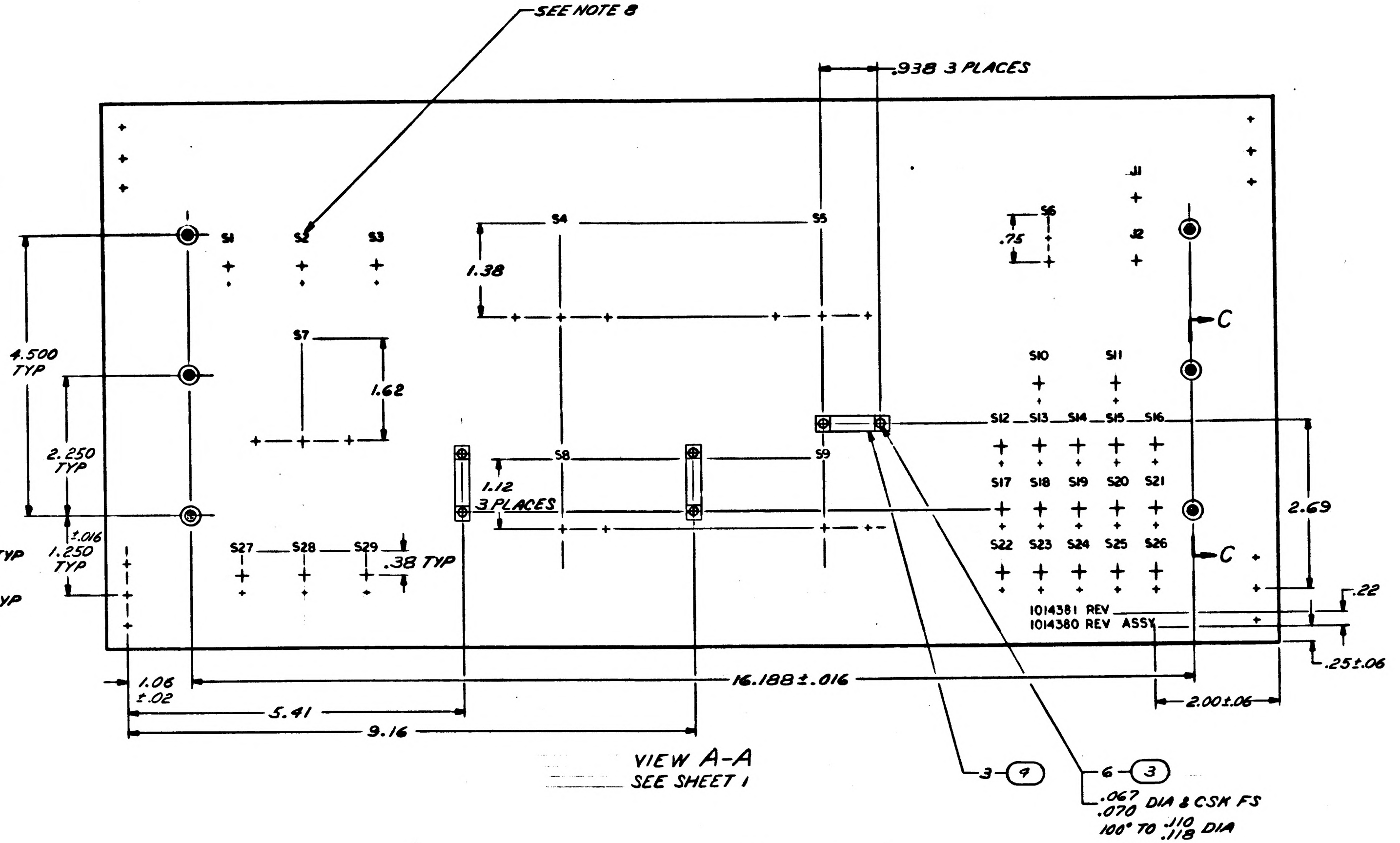
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO.		



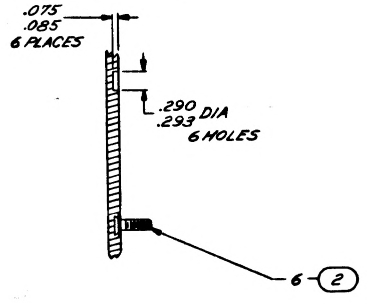
30° TYP
15°
.06±.03 TYP
.19±.03 TYP
100
200
300
400
1.20±.03 R TYP
.94±.03 R TYP

DETAIL B
SEE SHEET 1



SEE NOTE 8
.938 3 PLACES
S1
S2
S3
S4
S5
S6
.75
J1
J2
1.38
4.500 TYP
2.250 TYP
S7
1.62
S8
S9
1.12 3 PLACES
S10
S11
S12
S13
S14
S15
S16
S17
S18
S19
S20
S21
S22
S23
S24
S25
S26
S27
S28
S29
.38 TYP
1.016
1.250 TYP
C
C
2.69
.22
1014381 REV
1014380 REV ASSY
.25±.06
1.06 ±.02
16.188±.016
2.00±.06
5.41
9.16
3-⑨
6-③
.067 .070 DIA & CSK FS 100° TO .110 .118 DIA
6 HOLES

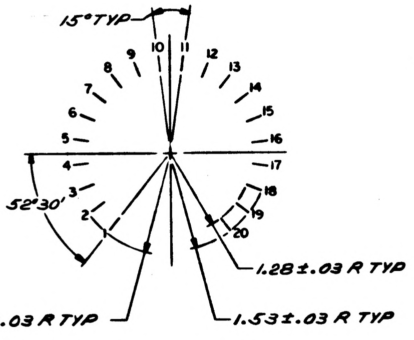
VIEW A-A
SEE SHEET 1



.075 .085
6 PLACES
.290 .293 DIA
6 HOLES
6-②

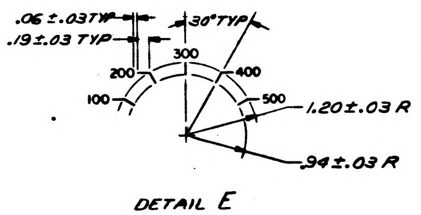
SECTION C-C
SHOWN WITH FIND NO. 2
REMOVED FROM UPPER HOLE

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03431 DATE 26 Sep 63



15° TYP
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
52°30'
1.28±.03 R TYP
1.61±.03 R TYP
1.53±.03 R TYP

DETAIL F
2 PLACES
SEE SHEET 1



.06±.03 TYP
.19±.03 TYP
30° TYP
100
200
300
400
500
1.20±.03 R
.94±.03 R

DETAIL E
SEE SHEET 1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014380	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE
CHECKED P. Perrone 29 JUL 63
APPROVAL
APPROVAL 7/12/63
APPROVAL
NASA APPROVAL 7/24/63
MIT APPROVAL 9/26/63
MIT APPROVAL 9/26/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL, TEST, ELECTRICAL
SELF TEST

CODE IDENT NO. —— SIZE F NASA DRAWING NO. 1014381
SCALE 1/1 WT SHEET 2 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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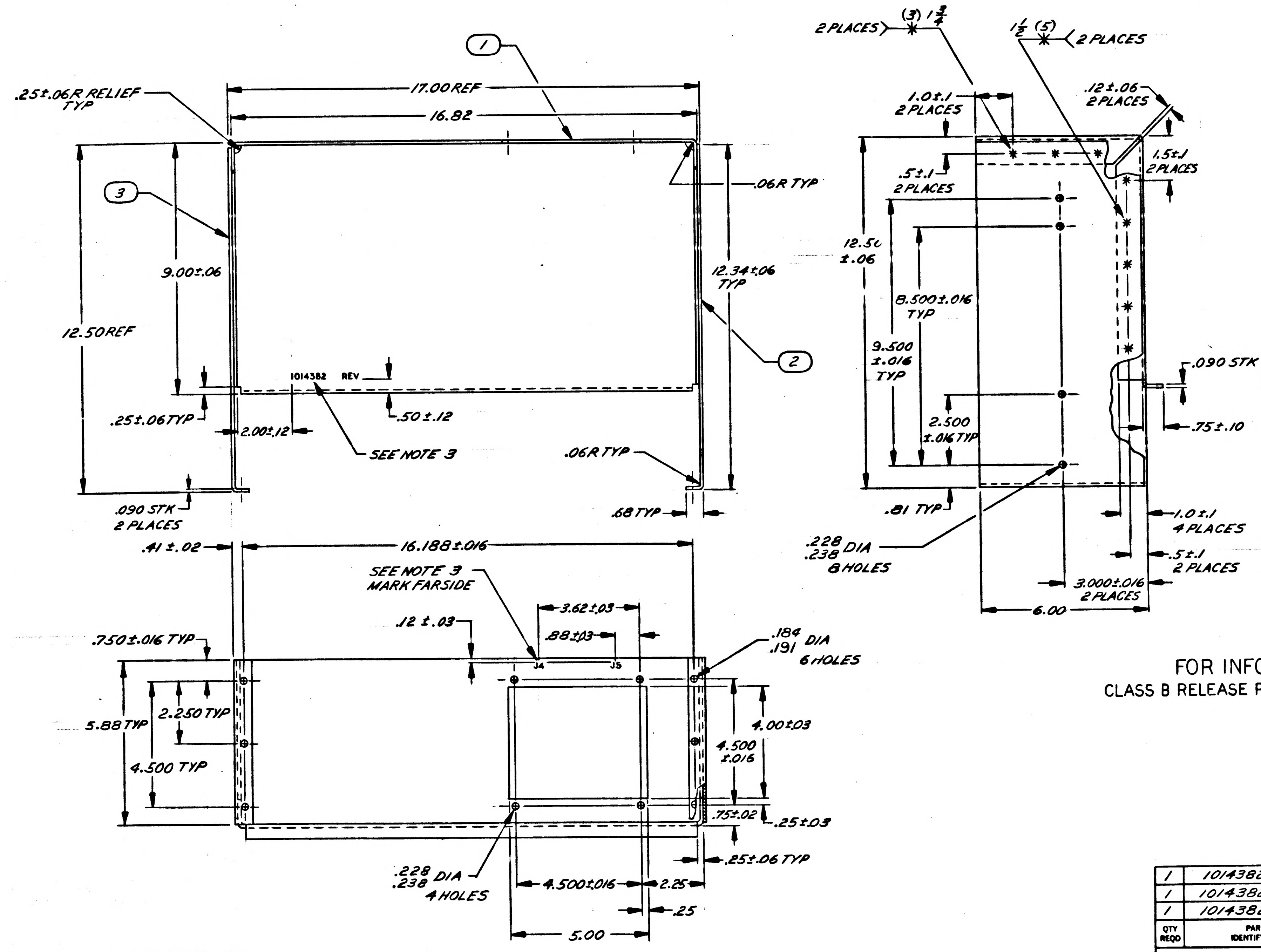
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO.		


①
17.00 REF
16.82
.25±.06R RELIEF TYP
③
9.00±.06
12.50 REF
.06R TYP
12.34±.06 TYP
②
1014382 REV
.50±.12
.25±.06 TYP
2.00±.12
SEE NOTE 3
.06R TYP
.090 STK 2 PLACES
.68 TYP
2 PLACES (3) 1 3/4
1 1/2 (5) 2 PLACES
1.0±.1 2 PLACES
.12±.06 2 PLACES
1.5±.1 2 PLACES
.5±.1 2 PLACES
12.50 ±.06
8.500±.016 TYP
9.500 ±.016 TYP
2.500 ±.016 TYP
.090 STK
.75±.10
.81 TYP
.228 .238 DIA 8 HOLES
1.0±.1 4 PLACES
.5±.1 2 PLACES
3.000±.016 2 PLACES
6.00
.41±.02
16.188±.016
SEE NOTE 3 MARK FARSIDE
3.62±.03
.88±.03
.12±.03
J4
J5
.184 .191 DIA 6 HOLES
.750±.016 TYP
5.88 TYP
2.250 TYP
4.500 TYP
4.00±.03
4.500 ±.016
.75±.02
.25±.03
.25±.06 TYP
.228 .238 DIA 4 HOLES
4.500±.016
2.25
.25
5.00

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03431 DATE 26 Sep 63

NOTES

①

②

③

1. MATL: AL 5052-H32 PER QQ-A-318, TEMP H32
2. REMOVE BURRS & SHARP EDGES

ASSY NOTES

1. SPOT WELD PER MIL-W-6858, CLASS C
2. CHROMATE TREAT PER MIL-C-5541
3. MARK .12 HIGH BLACK PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014382-3	SIDE, LEFT	3
1	1014382-2	SIDE, RIGHT	2
1	1014382-1	BODY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014380	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.04 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE [illegible]
CHECKED [illegible] 29/10/63
APPROVAL [illegible]
APPROVAL [illegible] 9/12/63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 9/26/63
MIT APPROVAL [illegible] 9/16/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS
SELF TEST

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014382
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014383

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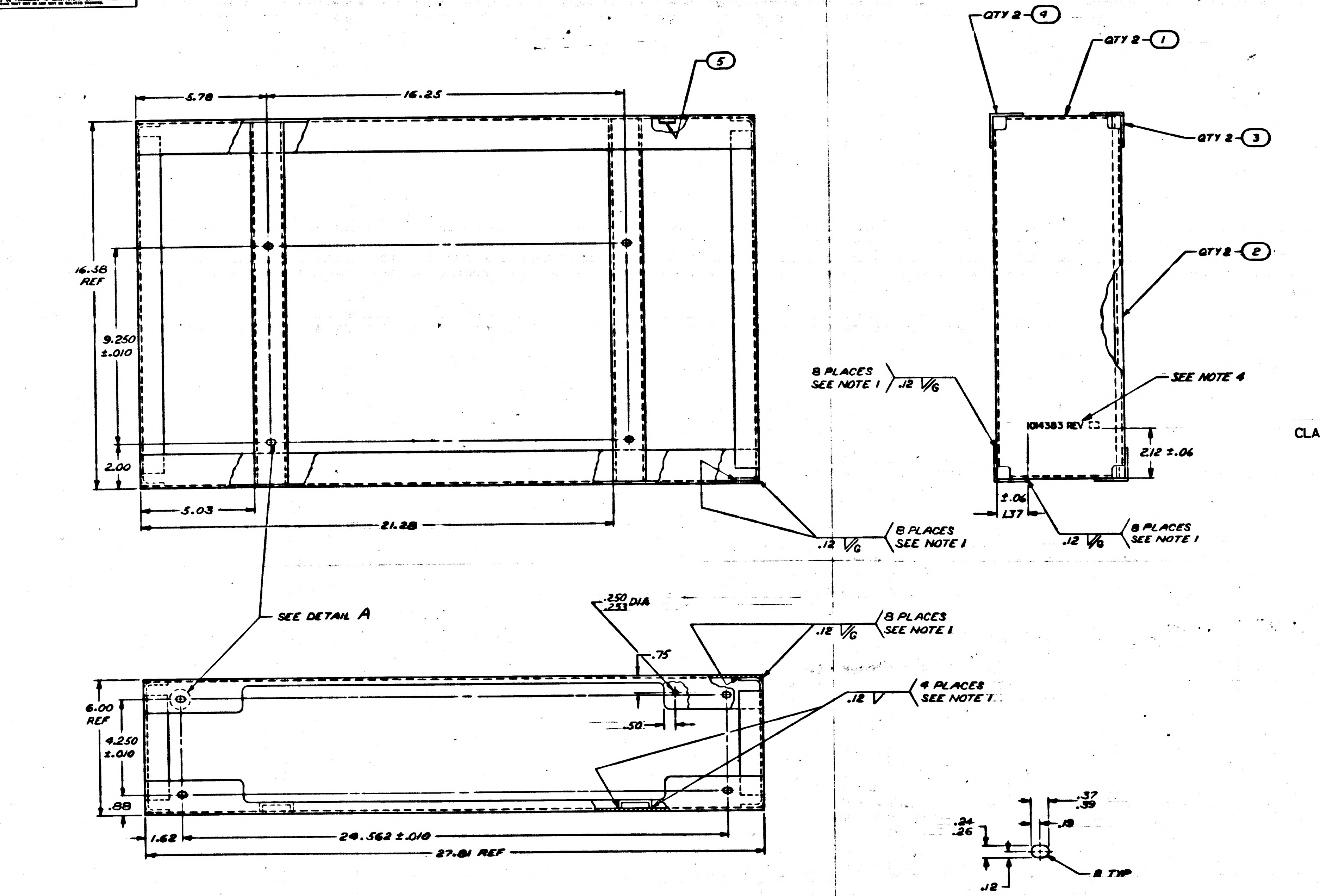
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASED PER TDRR NO.		
A	CL 2 CHANGE PER RD-R 5458 C. L. Cote CHK J.S.L. APPD	10-17-63	JJB
B	CHANGED PER TDRR NO.09780 DR J.P. Leonard CHK APPD	3 June 64	



QTY 2 - 4
QTY 2 - 1
QTY 2 - 3
QTY 2 - 2
5
5.78
16.25
16.38 REF
9.250 ±.010
2.00
5.03
21.28
8 PLACES SEE NOTE 1
.12
SEE NOTE 4
1014383 REV
2.12 ±.06
±.06
1.37
SEE DETAIL A
.250 DIA
.253
.75
.50
4 PLACES SEE NOTE 1
6.00 REF
4.250 ±.010
.88
1.62
24.562 ±.010
27.81 REF
.37
.39
.19
.24
.26
.12
R TYP
DETAIL A
SCALE 1/1
8 PLACES

FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO.06910 DATE 9-5-63

NOTES
1. WELD PER MIL-W-8604
2. REMOVE BURRS
3. CHROMATE TREAT PER MIL-C-5541 EXCEPT ELECTRICALLY CONDUCTIVE
4. MARK .12 HIGH BLACK PER ND1002019

B	—
A	—
—	—
SH1	SH2
REV STATUS OF SHEETS	

REV STATUS OF PARTS	
PART NO.	REV SYM
1014383-1	—
1014383-2	—
1014383-3	—
1014383-4	—

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1006989-20	NUT, PLAIN, SELF-CLINCHING	5
2	1014383-4	ANGLE, SUPPORT, TOP	4
2	1014383-3	ANGLE, SUPPORT, BOTTOM	3
2	1014383-2	CHANNEL, SUPPORT	2
2	1014383-1	PLATE, SIDE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014404	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRAME, ASSEMBLY

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014383
SCALE 1/2
WT
SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014383

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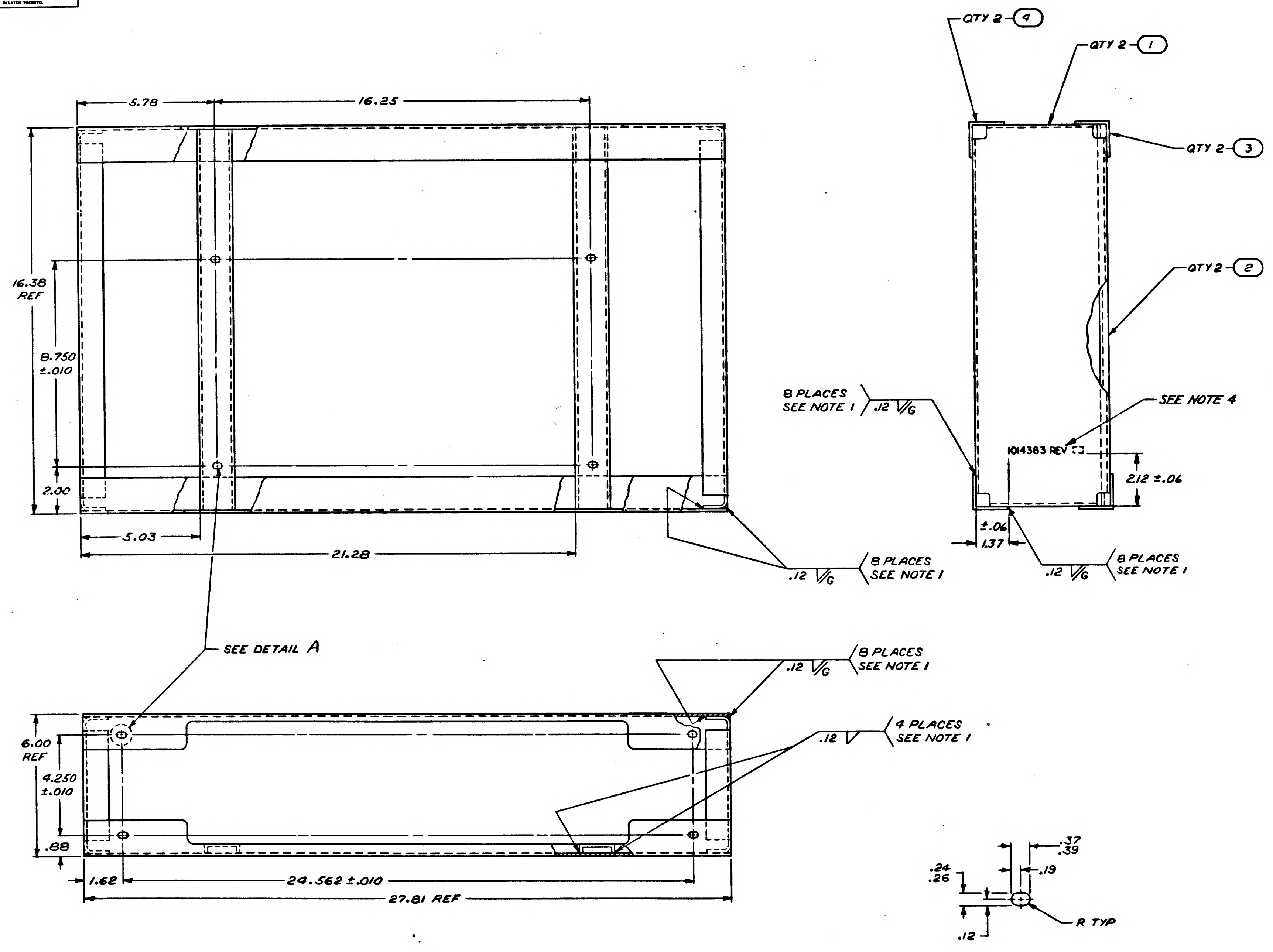
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASED PER TDRR NO.		



QTY 2 - 4
QTY 2 - 1
QTY 2 - 3
QTY 2 - 2
5.78
16.25
16.38 REF
8.750 ±.010
2.00
5.03
21.28
8 PLACES SEE NOTE 1 .12 G
.12 G 8 PLACES SEE NOTE 1
SEE NOTE 4
1014383 REV [ ]
2.12 ±.06
±.06 1.37
.12 G 8 PLACES SEE NOTE 1
SEE DETAIL A
.12 G 8 PLACES SEE NOTE 1
.12 4 PLACES SEE NOTE 1
6.00 REF
4.250 ±.010
.88
1.62
24.562 ±.010
27.81 REF
.37 .39
.19
.24 .26
.12
R TYP

FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO.02910 DATE 9-5-63

DETAIL A
SCALE 1/1
8 PLACES

NOTES
1. WELD PER MIL-W-8604
2. REMOVE BURRS
3. CHROMATE TREAT PER MIL-C-5541 EXCEPT ELECTRICALLY CONDUCTIVE
4. MARK J2 HIGH BLACK PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
2	1014383-4	ANGLE, SUPPORT, TOP	4
2	1014383-3	ANGLE, SUPPORT, BOTTOM	3
2	1014383-2	CHANNEL, SUPPORT	2
2	1014383-1	PLATE, SIDE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014404	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN [illegible] DATE 20 JUNE 63
CHECKED [illegible] 8 AUG 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRAME, ASSEMBLY

CODE IDENT NO. —
SIZE F
NASA DRAWING NO 1014383
SCALE 1/2
WT
SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

1014383

1014383

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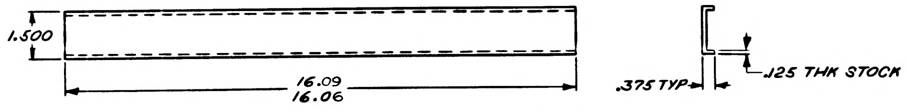
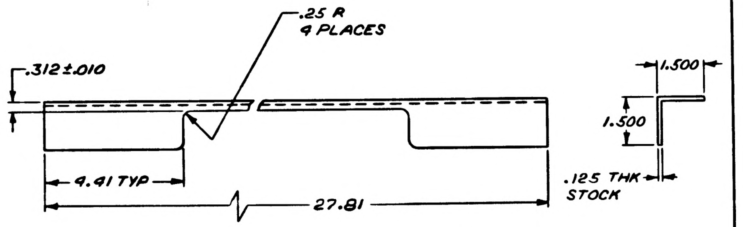
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR NO.		



CHANNEL, SUPPORT
SCALE 1/2
2 REQ'D

NOTES
1. TOL: DEC ±.005 ±.02
2. MAT'L: 6063-T5, PER QQ-A-274
3. BREAK SHARP EDGES

1014383-2

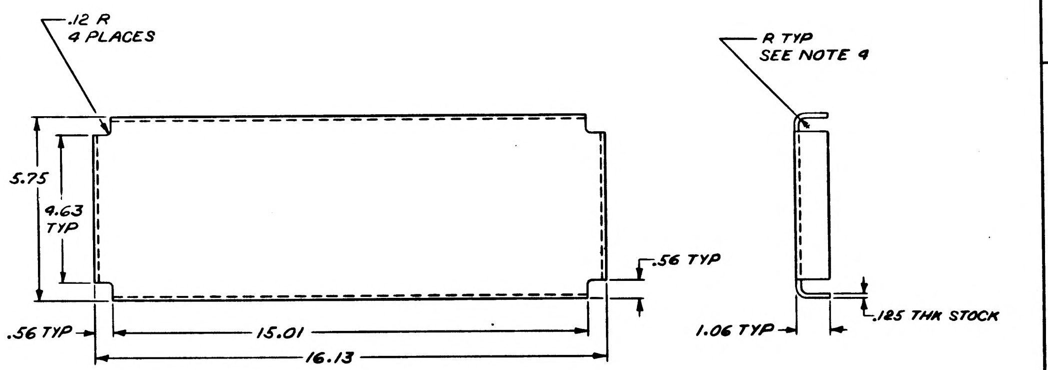


ANGLE, SUPPORT
TOP
SCALE 1/2
2 REQ'D

NOTES
1. TOL: DEC ±.02 ±.005
2. MAT'L: 6063-T5 AL, PER QQ-A-274
3. BREAK SHARP EDGES

1014383-3

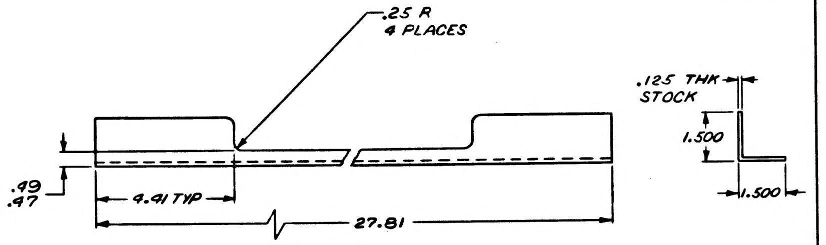
FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. 02910 DATE 9-5-63



PLATE, SIDE
SCALE 1/2
2 REQ'D

NOTES
1. TOL: DEC ±.02 ±.005
2. MAT'L: 5052-H32 AL, PER QQ-A-318, TEMP H32
3. BREAK SHARP EDGES
4. ALL BEND RADII TO BE .19 R ±.03

1014383-1



ANGLE, SUPPORT
BOTTOM
SCALE 1/2
2 REQ'D

NOTES
1. TOL: DEC ±.02 ±.005
2. MAT'L: 6063-T5 AL, PER QQ-A-274
3. BREAK SHARP EDGES

1014383-4

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
1014404	1019465
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN L. Whitnt DATE 26 JUN 63
CHECKED A.J. Marmaro 8 Aug 63
APPROVAL J. Blackney
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRAME, ASSEMBLY

CODE IDENT NO. —
SIZE F
NASA DRAWING NO 1014383
SCALE 1/2
WT
SHEET 2 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
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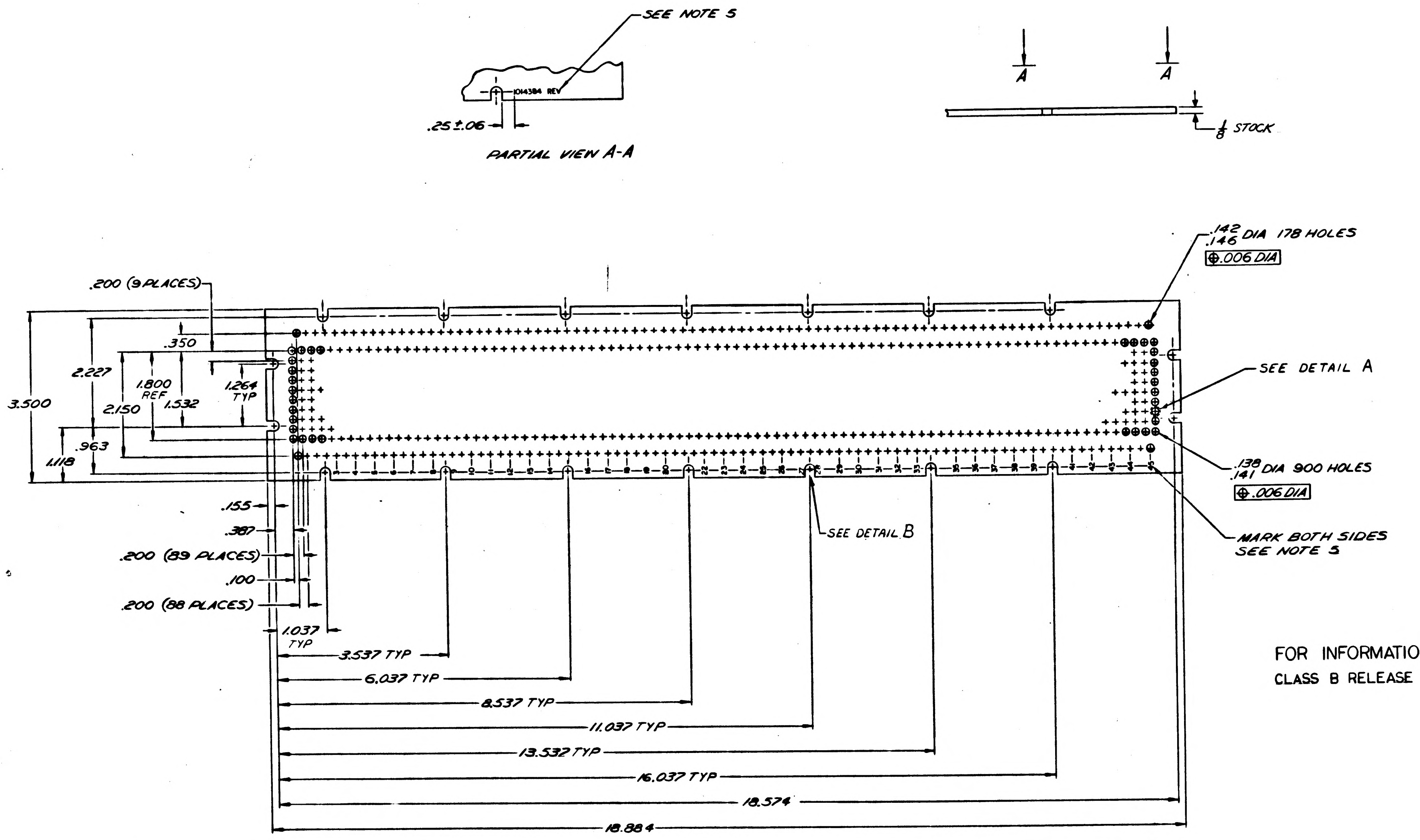
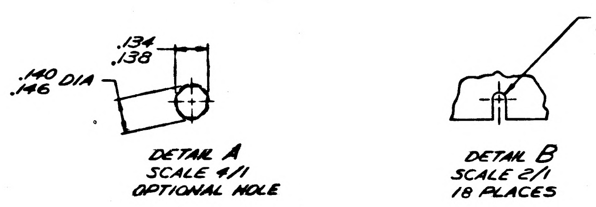
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		


SEE NOTE 5
1014384 REV
.25±.06
PARTIAL VIEW A-A
A
A
1/8 STOCK
.142 .146 DIA 178 HOLES
⊕ .006 DIA
.200 (9 PLACES)
.350
2.227
1.800 REF
1.264 TYP
3.500
2.150
1.532
.963
1.118
SEE DETAIL A
.138 .141 DIA 900 HOLES
⊕ .006 DIA
SEE DETAIL B
MARK BOTH SIDES SEE NOTE 5
.155
.387
.200 (89 PLACES)
.100
.200 (88 PLACES)
1.037 TYP
3.537 TYP
6.037 TYP
8.537 TYP
11.037 TYP
13.532 TYP
16.037 TYP
18.574
18.884

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 02693 DATE 2 Aug 63


.134 .138
.140 .146 DIA
.098 .102 R

DETAIL A
SCALE 4/1
OPTIONAL HOLE

DETAIL B
SCALE 2/1
18 PLACES

NOTES
1. MATL 1100 AL PER QQ-A-561, TEMP H14
2. REMOVE BURRS AND SHARP EDGES
3. CHROMATE FILM PER MIL-C-5541, EXCEPT TO BE ELECTRICALLY CONDUCTIVE
4. DIMENSIONS LOCATING TRUE POSITION ARE BASIC
5. MARK .08 HIGH BLACK CHARACTERS PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014402	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 27 Aug 63
CHECKED 5 AUG 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, CONNECTOR

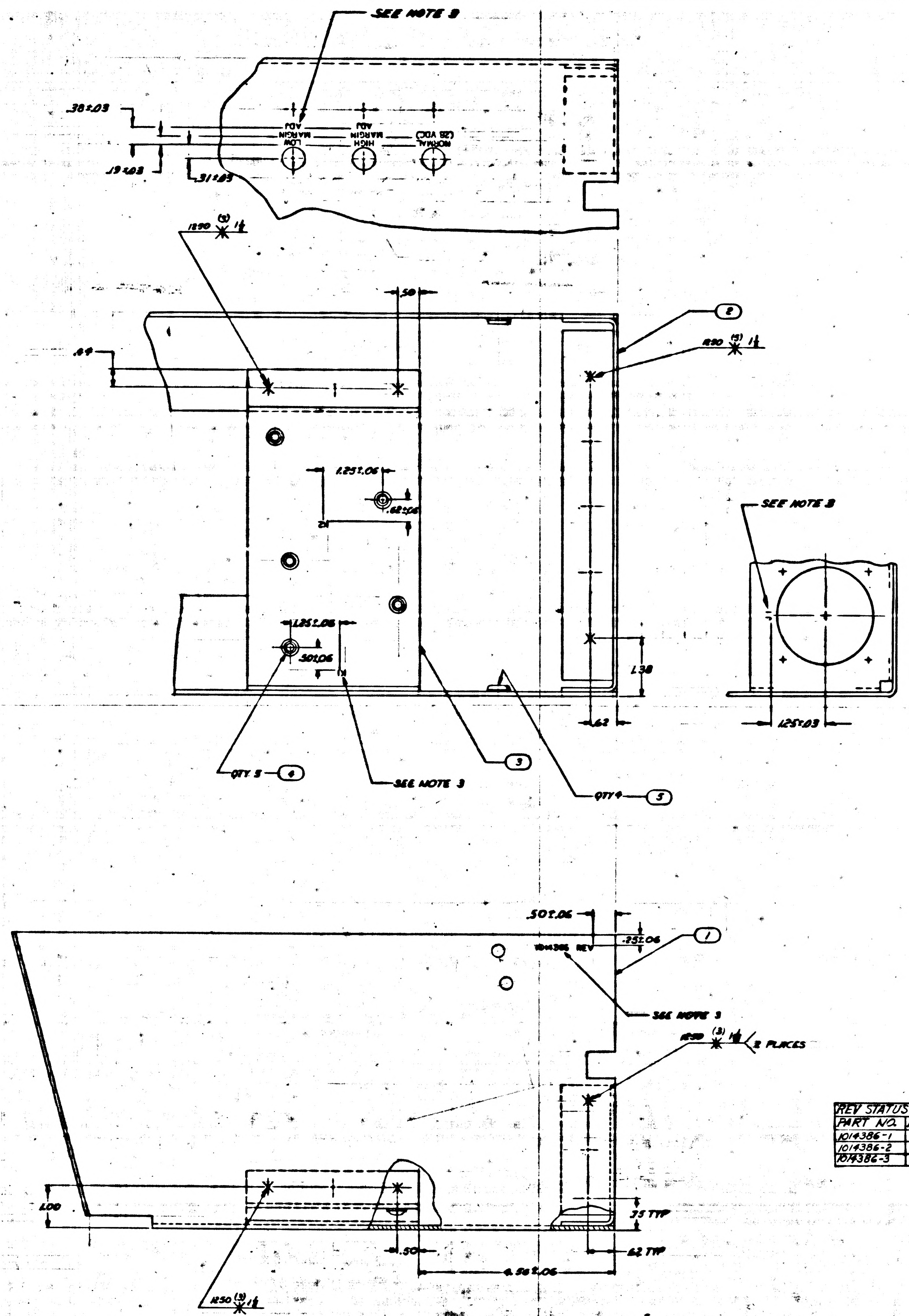
CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014384
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

1014384

SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASED PER TDRR 03143	9/12/63	
A	CL II CHANGE PER AD-R 5486 C. LaCost CHK T. Duval APPD		
B	CHANGED PER TDRR 08115 W. Brown CHK A. Cyprus APPD	MAY 64	



SEE NOTE 3
.38±.03
.19±.03
.31±.03
LOW MARGIN ADJ
HIGH MARGIN ADJ
NORMAL (28 VDC)
1250 (3) 1/8
.50
.69
1.25±.06
.62±.06
1.25±.06
.50±.06
1.38
.62
SEE NOTE 3
1.25±.03
QTY 5 4
SEE NOTE 3
3
QTY 4 5
2
1250 (3) 1/8
.50±.06
.25±.06
1
1014386 REV
SEE NOTE 3
1250 (3) 1/8 2 PLACES
1.00
.35 TYP
.62 TYP
.50
6.50±.06
1250 (3) 1/8

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO.03143 DATE 9/12/63

NOTES
③
②
①
1. MATL AL 5052 H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES

ASSY NOTES
1. WELD PER MIL-W-6858, CLASS C
2. CHROMATE TREAT PER MIL-C-5541, EXCEPT ELECT CONDUCTIVE
3. MARK .12 HIGH BLACK CHARACTERS PER ND1002019

REV STATUS OF PARTS	
PART NO.	REV SYMBOL
1014386-1	B
1014386-2	—
1014386-3	—

B	B
A	A
—	—
SH 1	SH 2
REV STATUS OF SHEETS	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
4	1006999-8	NUT, PLAIN, FLOATING	5
5	1006999-6	NUT, PLAIN, FLOATING	4
1	1014386-3	BRACKET, RELAY	3
1	1014386-2	BRACKET, CONNECTOR	2
1	1014386-1	CHASSIS	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014388	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.12 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE [illegible]
CHECKED [illegible] 14 AUG 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
UNIT APPROVAL [illegible]
UNIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

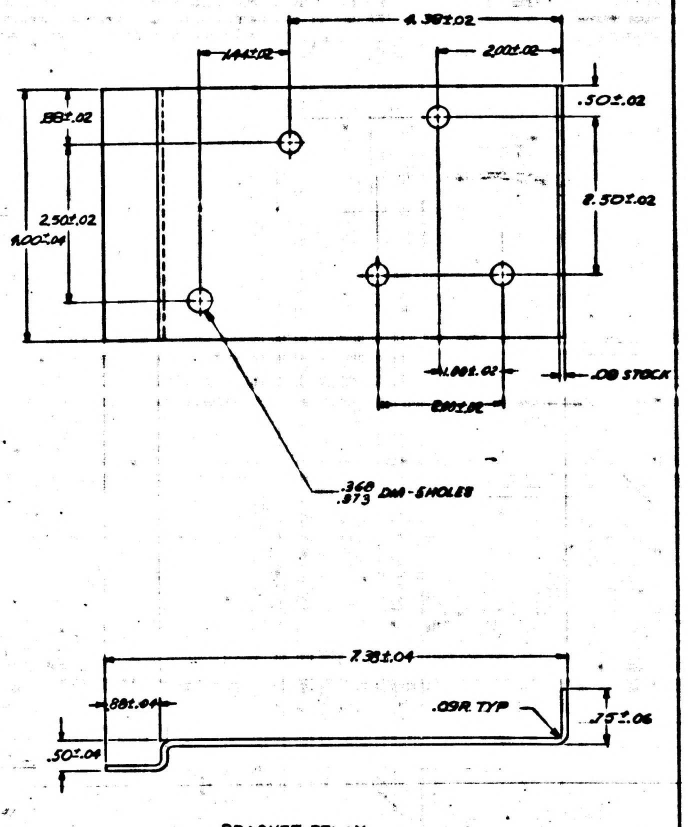
CHASSIS ASSY
POWER CONTROL

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014386
SCALE 1/1
WT
SHEET 1 OF 2

1014386

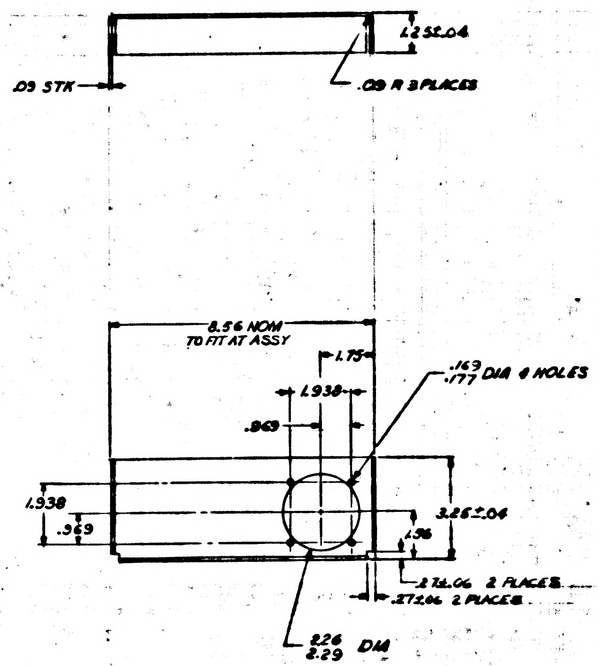
1014386

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TORR 03143	9/12/63	
A	CL II CHANGE PER RD-F 5486 C. Le Cort CHK T. Durel APPD	10-31-63	
B	CHANGED PER TORR 08115 DR R Kelley CHK A. Cooper APPD	11 MAY 64	KCB

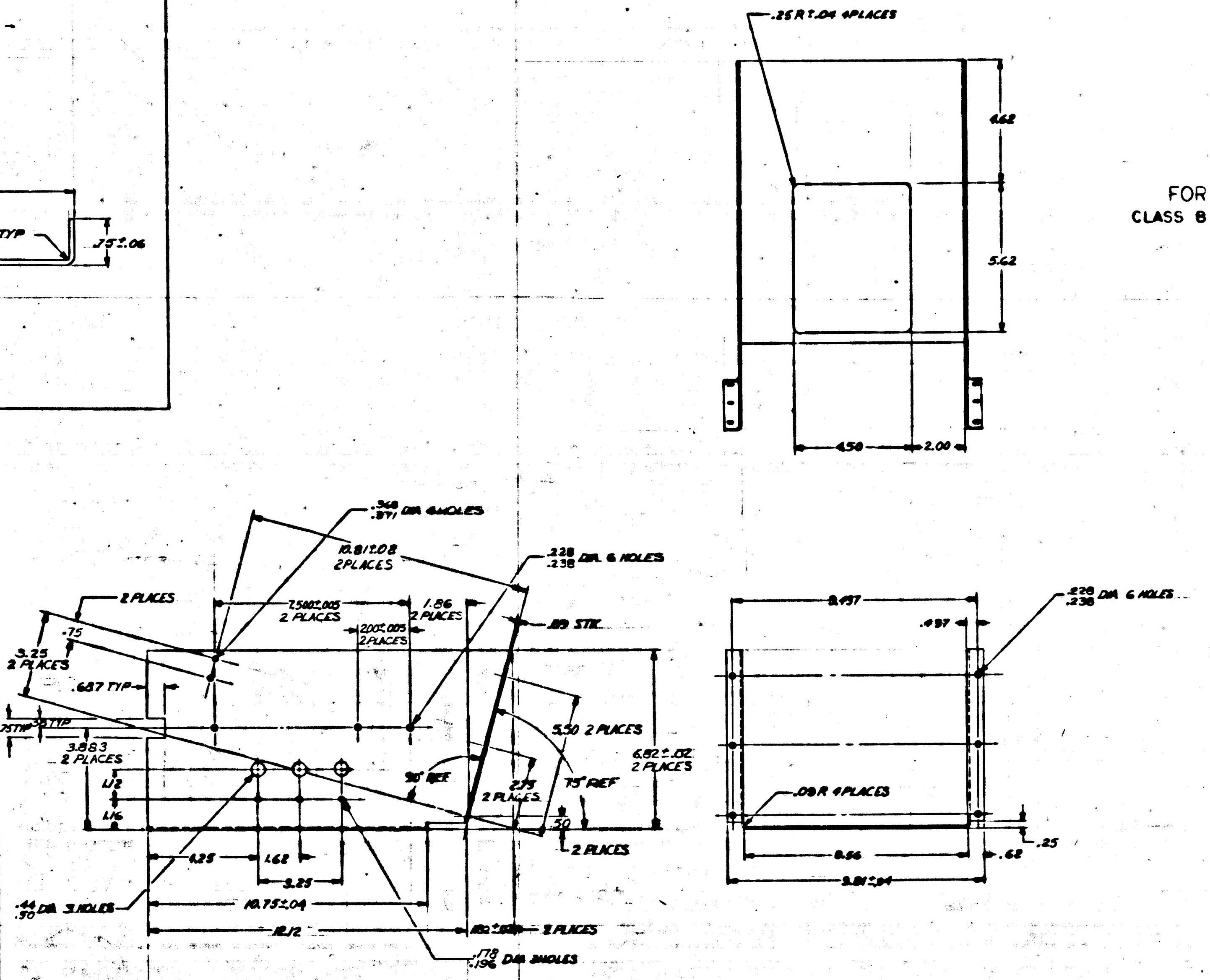

4.38±.02
1.44±.02
2.00±.02
.50±.02
.88±.02
2.50±.02
4.00±.04
2.50±.02
1.88±.02
2.20±.02
.09 STOCK
.368 .373 DIA-5HOLES
7.38±.04
.88±.04
.09R TYP
.75±.06
.50±.04

NOTES
1. SCALE 1/1

BRACKET, RELAY
1014386-3


1.25±.04
.09 STK
.09 R 3 PLACES
8.56 NOM TO FIT AT ASSY
1.75
.163 .177 DIA 4 HOLES
1.938
.969
1.938
.969
3.25±.04
.56
.27±.06 2 PLACES
.27±.06 2 PLACES
2.26 2.29 DIA

BRACKET, CONNECTOR
1014386-2


.25 R ±.04 4 PLACES
4.62
5.62
4.50
2.00
.368 .371 DIA 4 HOLES
10.81±.08 2 PLACES
.228 .238 DIA 6 HOLES
2 PLACES
7.560±.005 2 PLACES
1.86 2 PLACES
2.00±.005 2 PLACES
.09 STK
3.25 2 PLACES
.75
.687 TYP
.75 TYP
.38 TYP
3.883 2 PLACES
1/2
1.16
5.50 2 PLACES
6.82±.02 2 PLACES
90° REF
2.75 2 PLACES
75° REF
.50
2 PLACES
4.25
1.62
3.25
10.75±.04
12.12
.44 .50 DIA 3 HOLES
2 PLACES
.178 .196 DIA 3 HOLES
8.437
.437
.228 .238 DIA 6 HOLES
.09 R 4 PLACES
8.56
9.81±.04
.25
.62

FOR INFORMATION ONLY
CLASS B RELEASE PER TORR NO.03143 DATE 9/12/63

CHASSIS
1014386-1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014388	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE SHEET 1
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN A. Untman DATE 12 Aug 63
CHECKED R. Pearson 13 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
UNIT APPROVED
UNIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY
POWER CONTROL

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014386
SCALE 1/2
WT
SHEET 2 OF 2

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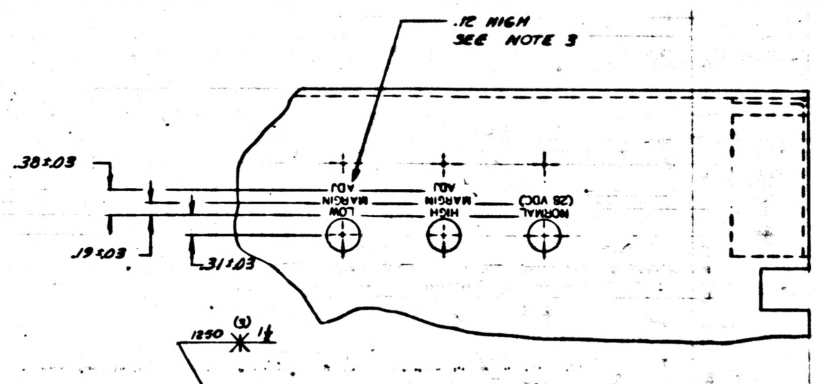
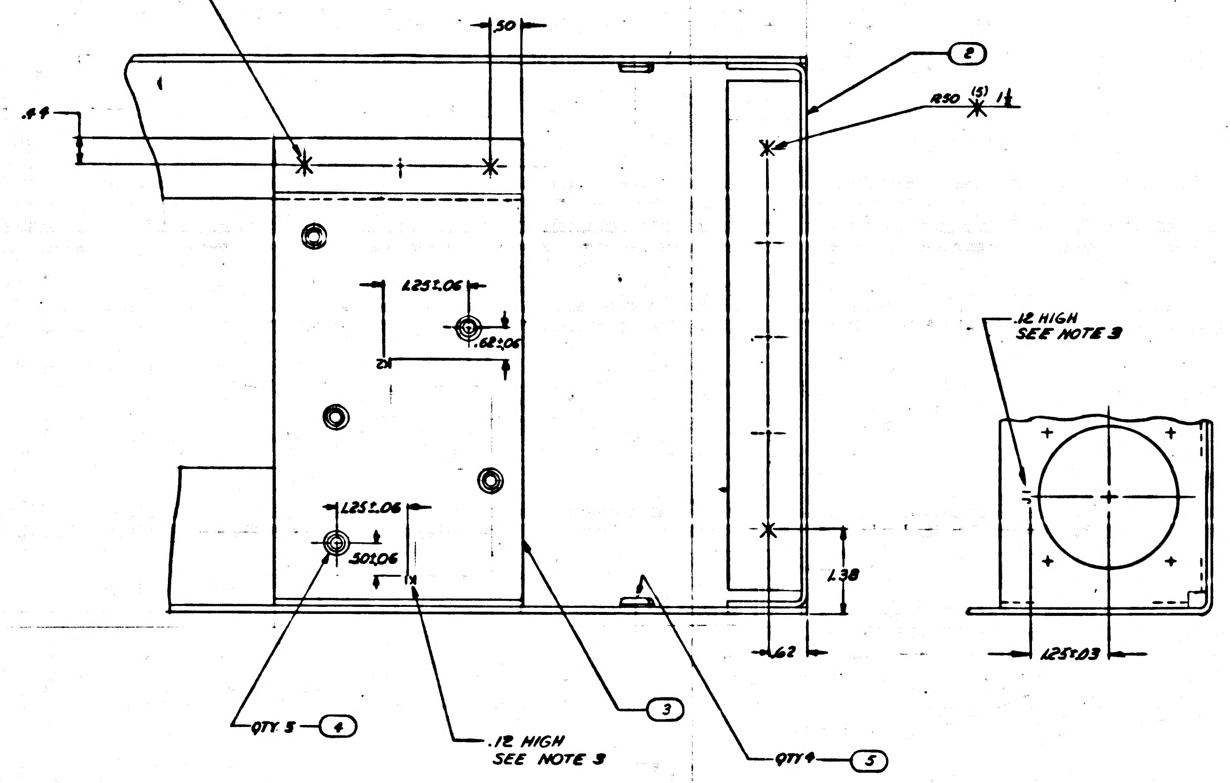
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS

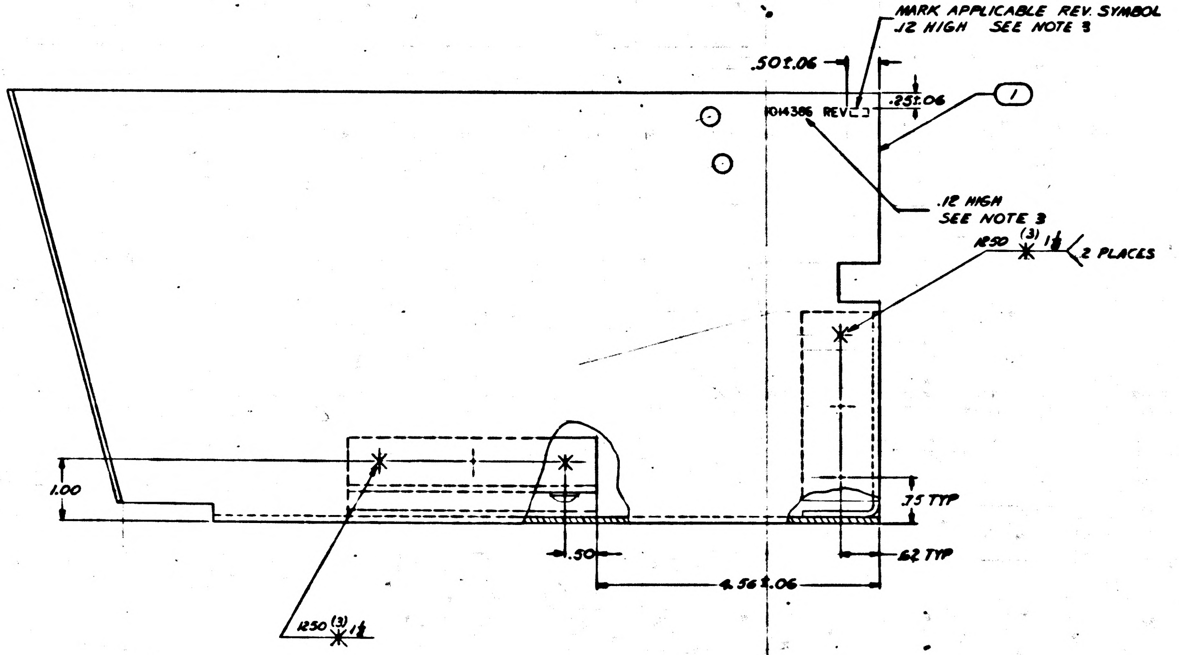
SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASED PER TDRR 03143	9/14/63	
A	CL II CHANGE PER AD-R 5486 C. LaCort CHK T. Duval APPD	10-28-63	JJB
B	CHANGED PER TDRR 08115 W. Brown CHK G. Cyprus APPD	11 MAY 64	FCB
C	UPGRADED TO CLASS A WITH CHANGE PER TDRR 15722 DR B. Kalanda CHK APPD	9 FEB 65	KB



.12 HIGH
SEE NOTE 3
.38±.03
.19±.03
.31±.03
LOW MARGIN ADJ
HIGH MARGIN ADJ
NORMAL (28 VDC)



1250 (5) 1½
.50
.44
1.25±.06
.62±.06
12
1.25±.06
.50±.06
QTY 5 (4)
.12 HIGH
SEE NOTE 3
(3)
QTY 4 (5)
(2)
1250 (5) 1½
1.38
.62
.12 HIGH
SEE NOTE 3
1.25±.03



MARK APPLICABLE REV. SYMBOL
.12 HIGH SEE NOTE 3
.50±.06
.25±.06
1014386 REV
(1)
.12 HIGH
SEE NOTE 3
1250 (3) 1½ 2 PLACES
1.00
.75 TYP
.50
4.56±.06
.62 TYP
1250 (3) 1½

NOTES

(3)

(2)

(1)

1. MATL AL 5052 H32 PER QQ-A-250/8
2. REMOVE BURRS & SHARP EDGES

ASSY NOTES

1. WELD PER MIL-W-6858, CLASS C
2. CHROMA E TREAT PER MIL-C-5541, EXCEPT ELECT CONDUCTIVE
3. MARK GOTHIC CHARACTERS, AS SHOWN, PER ND1002019, USING MARKING INK 1006271-10

REV STATUS OF PARTS	
PART NO.	REV SYMBOL
1014386-1	C
1014386-2	—
1014386-3	—

C	C
B	B
A	A
—	—
SH 1	SH 2
REV STATUS OF SHEETS	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	1006999-8	NUT, PLAIN, FLOATING	5
5	1006999-6	NUT, PLAIN, FLOATING	4
1	1014386-3	BRACKET, RELAY	3
1	1014386-2	BRACKET, CONNECTOR	2
1	1014386-1	CHASSIS	1

LIST OF MATERIALS

1014388	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.12 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-495
DRAWN W. Austin DATE
CHECKED B. Perrons 14 AUG 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVED
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY
POWER CONTROL

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014386
SCALE 1/1
WT
SHEET 1 OF 2

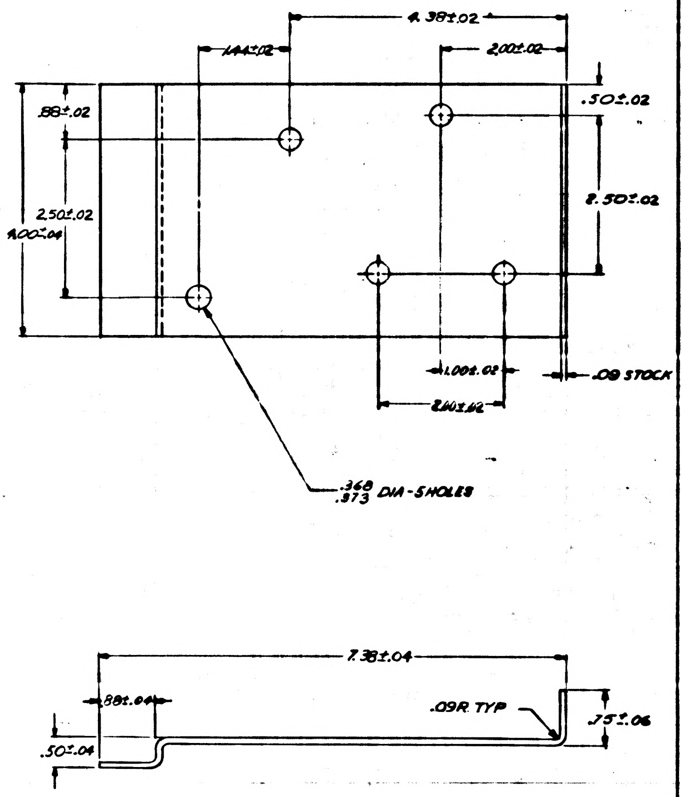
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TORR 03143	7/14/6	
A	CL II CHANGE PER RD-R 5486 C. La Cort CHK T Duval APPD	10-29-63	JJB
B	CHANGED PER TORR 08115 DR W Kelley CHK B. Cugino APPD	11 MAY 64	KCB
C	UPGRADE TO CLASS A WITH CHANGE PER TORR 15722 DR. B Katz CHK APPD	9 FEB 65	KCB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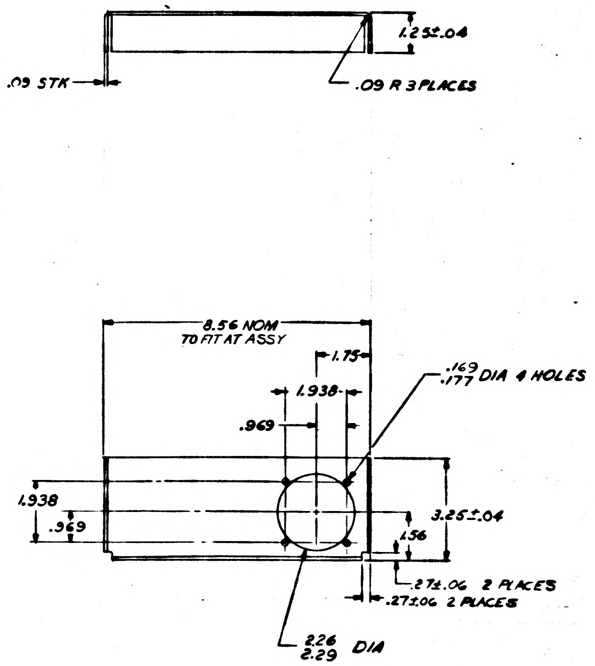
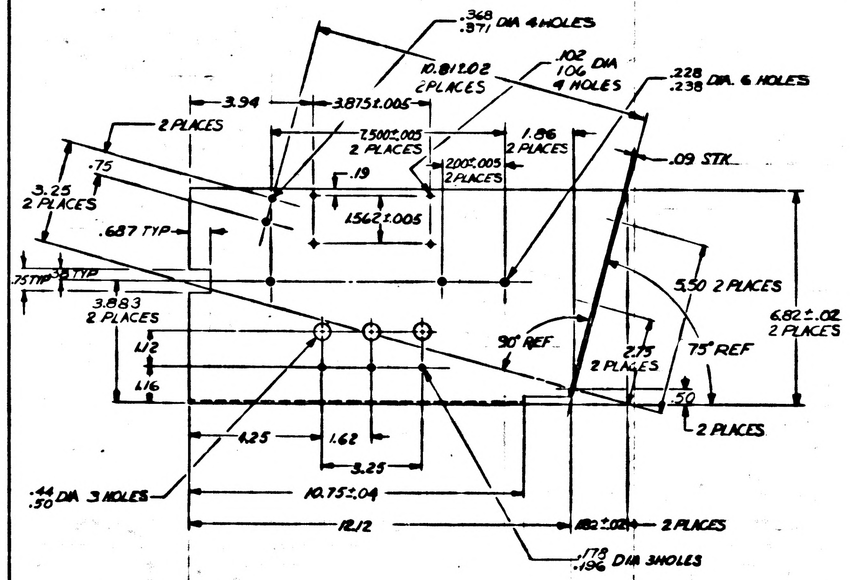
1.44±.02
2.00±.02
.88±.02
.50±.02
2.50±.02
4.00±.04
2.50±.02
1.00±.02
2.40±.02
.09 STOCK
.368 .373 DIA-5 HOLES
7.38±.04
.88±.04
.09R TYP
.75±.06
.50±.04

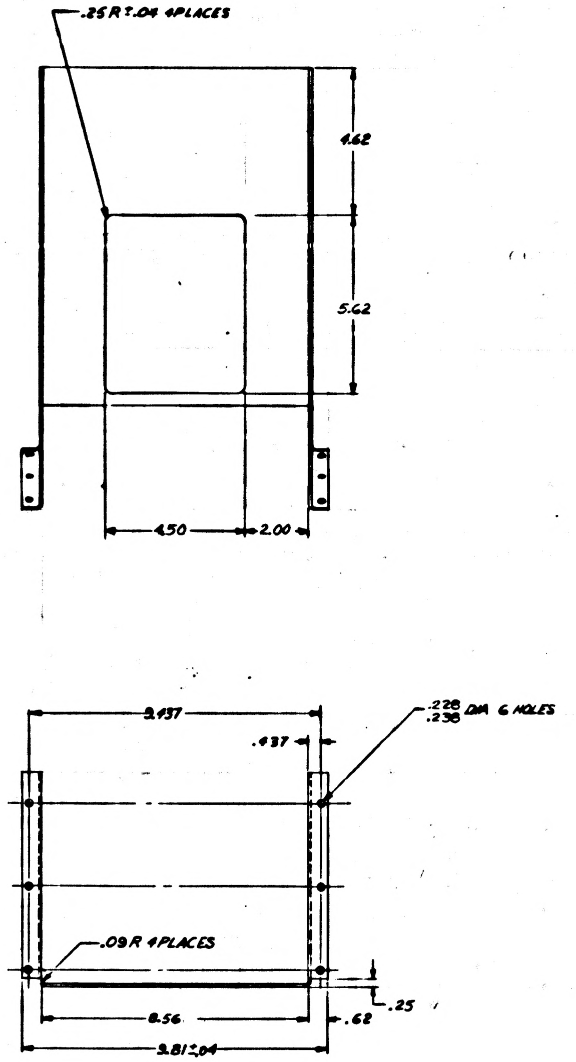
NOTES
1. SCALE 1/1

BRACKET, RELAY
1014386-3


1.25±.04
.09 STK
.09 R 3 PLACES
8.56 NOM TO FIT AT ASSY
1.75
1.938
.969
.169 .177 DIA 4 HOLES
1.938
.969
3.25±.04
1.56
.27±.06 2 PLACES
.27±.06 2 PLACES
2.26 2.29 DIA

BRACKET, CONNECTOR
1014386-2


.368 .371 DIA 4 HOLES
10.81±.02 2 PLACES
.102 .106 DIA 4 HOLES
.228 .238 DIA. 6 HOLES
3.94
3.875±.005
2 PLACES
7.500±.005 2 PLACES
1.86 2 PLACES
.09 STK
.75
3.25 2 PLACES
.19
2.00±.005 2 PLACES
1.562±.005
.687 TYP
.75 TYP
.38 TYP
3.883 2 PLACES
5.50 2 PLACES
6.82±.02 2 PLACES
1.12
1.16
90° REF
2.75 2 PLACES
75° REF
.50
2 PLACES
4.25
1.62
3.25
.44 .50 DIA 3 HOLES
10.75±.04
12.12
1.82±.02 2 PLACES
.178 .196 DIA 3 HOLES


.25 R±.04 4 PLACES
4.62
5.62
4.50
2.00
9.437
.437
.228 .238 DIA 6 HOLES
.09 R 4 PLACES
8.56
.62
.25
9.81±.04

CHASSIS
1014386-1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	1014388
USED ON	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE SHEET 1
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-438
DRAWN A. Antonio DATE 19 JUNE 63
CHECKED R. Perrone 18 AUG 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVED
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY
POWER CONTROL

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014386
SCALE 1/2
WT
SHEET 2 OF 2

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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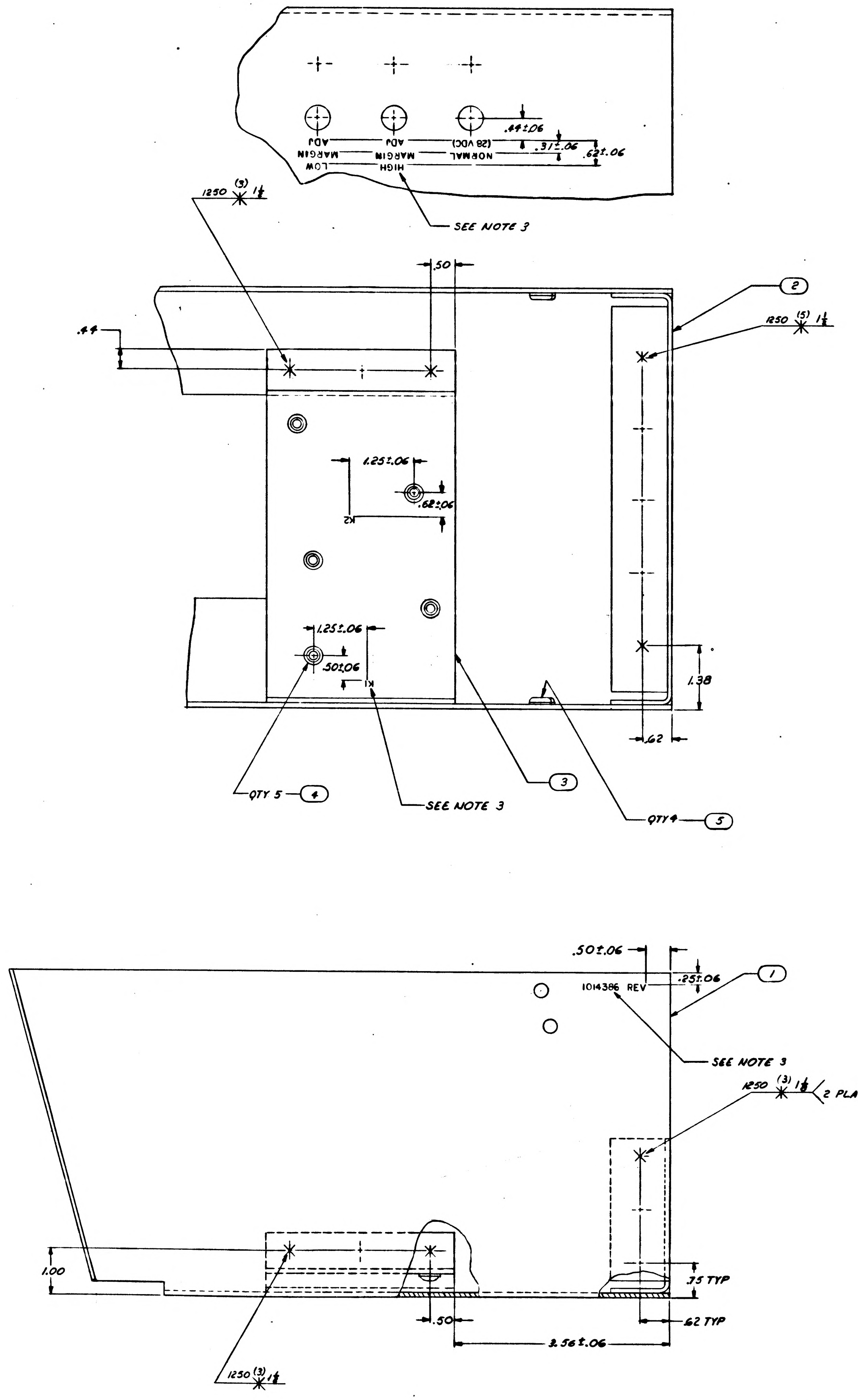
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASED PER TDRR 03143	9-13-63	

1014386



FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO.03143 DATE 9/12/63

NOTES
③
②
①
1. MATL AL 5052 H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES

ASSY NOTES
1. WELD PER MIL-W-6858, CLASS C
2. CHROMATE TREAT PER MIL-C-5541, EXCEPT ELECT CONDUCTIVE
3. MARK .12 HIGH CHARACTERS PER ND1002019

REV STATUS OF PARTS	
PART NO.	REV SYMBOL
1014386-1	—
1014386-2	—
1014386-3	—

—	—
SH 1	SH 2
REV STATUS OF SHEETS	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
4	1006999-8	NUT, PLAIN, FLOATING	5
5	1006999-6	NUT, PLAIN, FLOATING	4
1	1014386-3	BRACKET, RELAY	3
1	1014386-2	BRACKET, CONNECTOR	2
1	1014386-1	CHASSIS	1

LIST OF MATERIALS

1014388	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.12 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-495
DRAWN [illegible] DATE 26 Jul 63
CHECKED A. Perrone 14 Aug 63
APPROVAL C. Sparlin Jr.
APPROVAL [illegible] 9/13/63
APPROVAL [illegible] 9/13/63
NASA APPROVAL [illegible]
MIT APPROVED [illegible]
MIT APPROVAL [illegible] 9/13/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSY
POWER CONTROL

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014386
SCALE 1/1
WT
SHEET

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014386

(14)

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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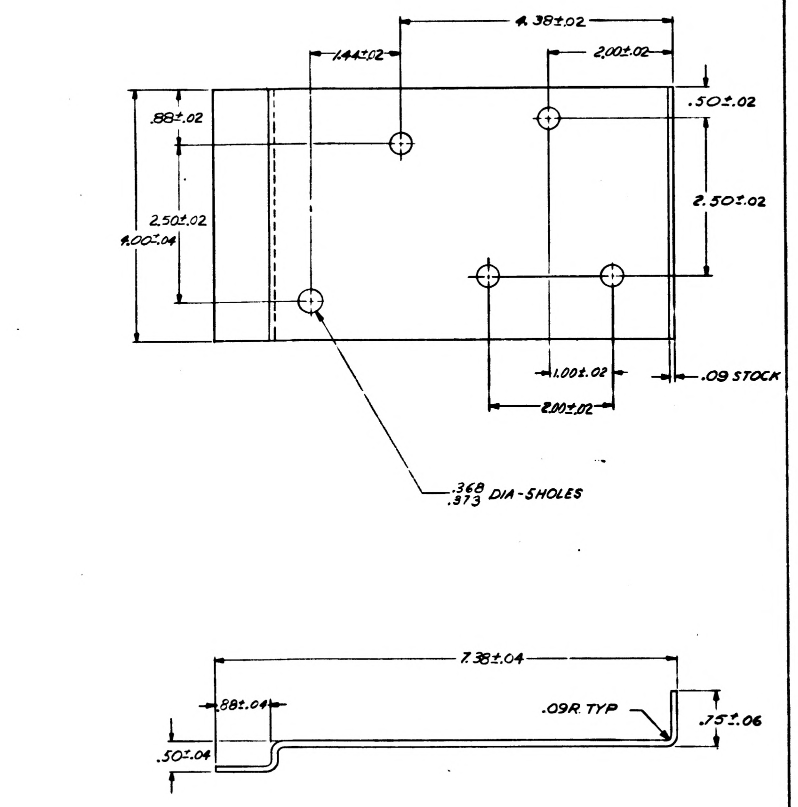
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TORR 03143	[illegible]	

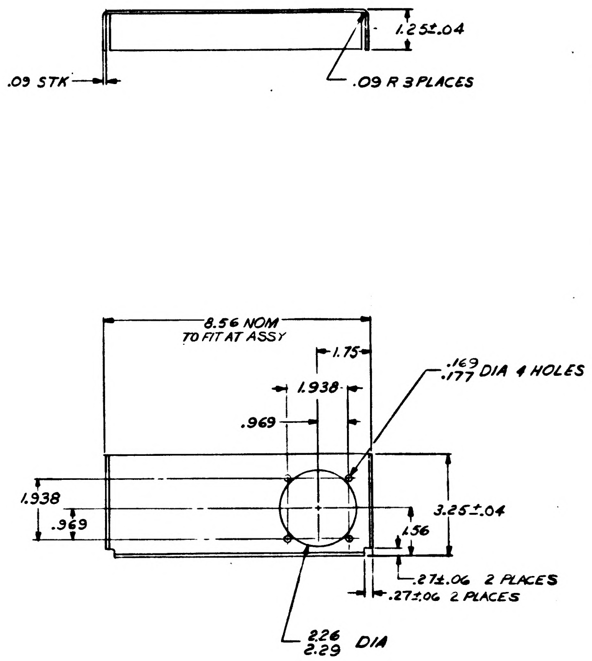
1014386P



4.38±.02
1.44±.02
2.00±.02
.88±.02
.50±.02
2.50±.02
4.00±.04
2.50±.02
1.00±.02
2.00±.02
.09 STOCK
.368
.373 DIA-5HOLES
7.38±.04
.88±.04
.09R TYP
.75±.06
.50±.04

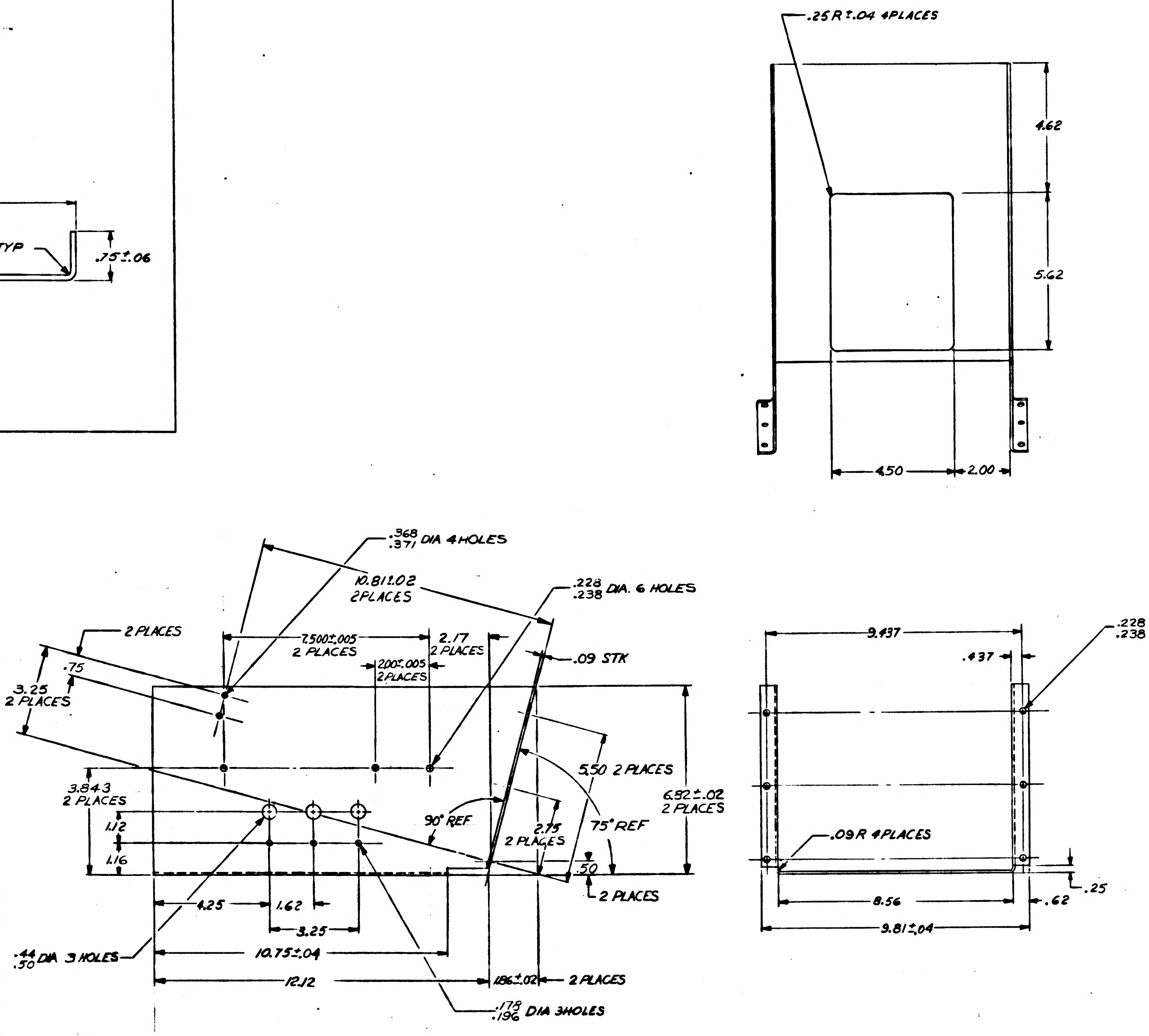
NOTES
1. SCALE 1/1

BRACKET, RELAY
1014386-3



1.25±.04
.09 STK
.09 R 3 PLACES
8.56 NOM
TO FIT AT ASSY
1.75
.169
.177 DIA 4 HOLES
1.938
.969
1.938
.969
3.25±.04
1.56
.27±.06 2 PLACES
.27±.06 2 PLACES
2.26
2.29 DIA

BRACKET, CONNECTOR
1014386-2



.25R±.04 4PLACES
4.62
5.62
4.50
2.00
.368
.371 DIA 4 HOLES
10.81±.02
2PLACES
.228
.238 DIA. 6 HOLES
2 PLACES
7.500±.005
2 PLACES
2.17
2 PLACES
.09 STK
.75
3.25
2 PLACES
2.00±.005
2 PLACES
5.50 2 PLACES
3.843
2 PLACES
1.12
1.16
90° REF
2.75
2 PLACES
75° REF
6.92±.02
2 PLACES
.50
2 PLACES
4.25
1.62
3.25
.44
.50 DIA 3 HOLES
10.75±.04
12.12
.186±.02 2 PLACES
.178
.192 DIA 3HOLES
9.437
.437
.228
.238 DIA 6 HOLES
.09R 4 PLACES
8.56
9.81±.04
.62
.25

CHASSIS
1014386-1

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO.03143 DATE 9/12/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014388	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE SHEET 1
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-436
DRAWN DATE
CHECKED A. Perrone 13Aug63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVED
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

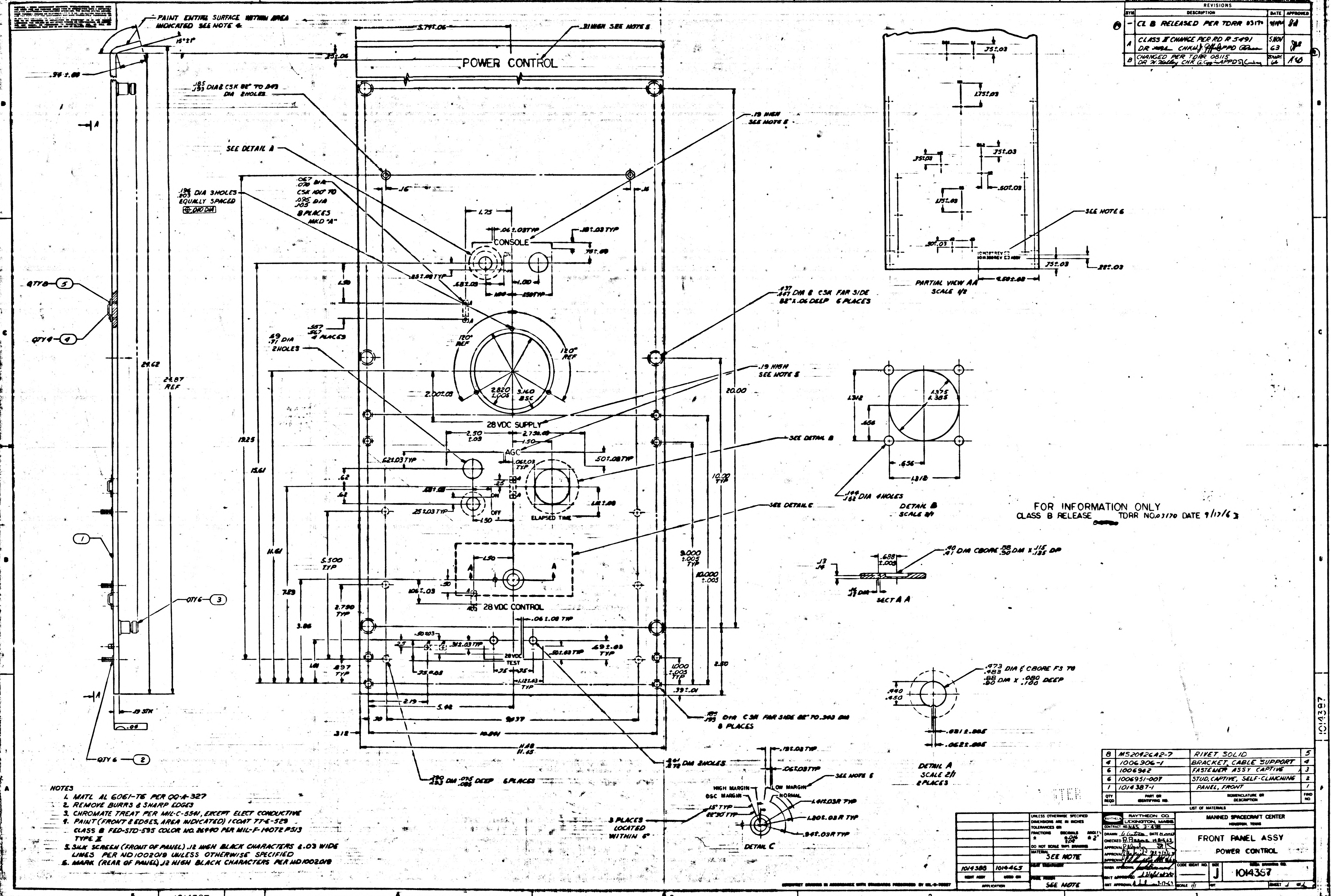
CHASSIS ASSY
POWER CONTROL

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014386
SCALE 1/2
WT
SHEET 2 OF

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014386

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY


1014387
POWER CONTROL
PAINT ENTIRE SURFACE WITHIN AREA INDICATED SEE NOTE 4
.3.75±.06
SILKSCREEN SEE NOTE 5
SEE DETAIL B
.19 HIGH SEE NOTE 5
.185 .193 DIA & CSK 82° TO .343 DIA 2 HOLES
.196 .203 DIA 3 HOLES EQUALLY SPACED
CONSOLE
ON
28 VDC SUPPLY
AGC
ON
OFF
ELAPSED TIME
28 VDC CONTROL
28 VDC TEST
.437 .447 DIA & CSK FAR SIDE 82°±.06 DEEP 6 PLACES
SEE DETAIL B
SEE DETAIL C
.69 .71 DIA 2 HOLES
120° REF
2.820 ±.005
3.160 BSC
20.00
19.25
15.61
11.61
7.23
3.86
1.61
24.62
24.87 REF
11.65
10.841
9.637
.312
.187 .193 DIA CSK FAR SIDE 82° TO .343 DIA 8 PLACES
.266 .281 DIA .075 .085 DEEP 6 PLACES
.261 .276 DIA 2 HOLES
QTY 8 ⑤
QTY 4 ④
①
QTY 6 ③
QTY 6 ②
A
A
PARTIAL VIEW AA SCALE 1/2
SEE NOTE 6
DETAIL B SCALE 1/1
.144 .152 DIA 4 HOLES
1.375 1.385
1.312
.656
SECT A A
DETAIL A SCALE 2/1 2 PLACES
.473 .483 DIA & CBORE FS TO .68 .80 DIA X .080 .100 DEEP
.90 .91 DIA CBORE .88 .90 DIA X .115 .125 DP
HIGH MARGIN
OSC MARGIN
LOW MARGIN
NORMAL
SEE NOTE 6
3 PLACES LOCATED WITHIN 6°
DETAIL C

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO.03170 DATE 9/17/63

NOTES
1. MATL AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541, EXCEPT ELECT CONDUCTIVE
4. PAINT (FRONT & EDGES, AREA INDICATED) 1 COAT TT-E-529 CLASS B FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
5. SILK SCREEN (FRONT OF PANEL) .12 HIGH BLACK CHARACTERS & .03 WIDE LINES PER ND1002019 UNLESS OTHERWISE SPECIFIED
6. MARK (REAR OF PANEL) .12 HIGH BLACK CHARACTERS PER ND1002018

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 03170		
A	CLASS II CHANGE PER RD R 5491 DR CHK J. APPD	5 NOV 63	
B	CHANGED PER TDRR 08115 DR H. Kelley CHK APPD	20 MAY 64	

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
8	MS20426A2-7	RIVET, SOLID	5
4	1006906-1	BRACKET, CABLE SUPPORT	4
6	1006942	FASTENER ASSY CAPTIVE	3
6	1006951-007	STUD, CAPTIVE, SELF-CLINCHING	2
1	1014387-1	PANEL, FRONT	1

NEXT ASSY	USED ON
1014388	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 ±.02 ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED D. Perrone 19 AUG 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVED
MIT APPROVAL 9-17-63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRONT PANEL ASSY
POWER CONTROL

CODE IDENT NO.
SIZE J
NASA DRAWING NO. 1014387
SCALE 1/1
SHEET 1 OF 1

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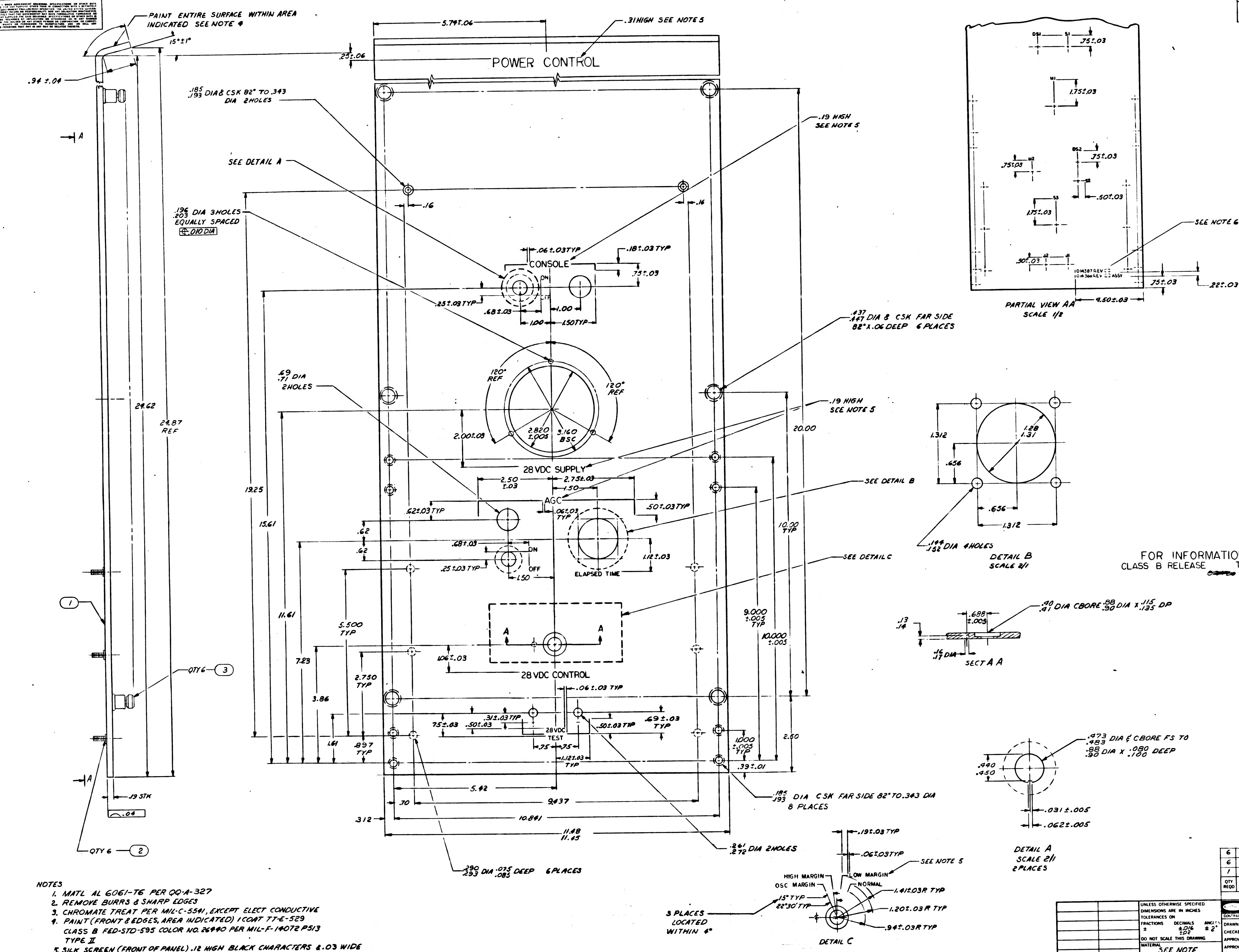
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 0317	9/17	


1014387
PAINT ENTIRE SURFACE WITHIN AREA INDICATED SEE NOTE 4
15°±1°
.94±.04
29.62
24.87 REF
A
QTY 6 — 3
QTY 6 — 2
1
.19 STK
.04
5.74±.06
.31 HIGH SEE NOTE 5
.25±.06
POWER CONTROL
.185/.193 DIA & CSK 82° TO .343 DIA 2 HOLES
.19 HIGH SEE NOTE 5
SEE DETAIL A
.16
.196/.203 DIA 3 HOLES EQUALLY SPACED
⊕ .010 DIA
.06±.03 TYP
.18±.03 TYP
CONSOLE
ON
OFF
.75±.03
.25±.03 TYP
.68±.03
1.00
1.00
1.50 TYP
.437/.447 DIA & CSK FAR SIDE 82° X .06 DEEP 6 PLACES
.69/.71 DIA 2 HOLES
120° REF
120° REF
2.00±.03
2.820/2.005
3.160 BSC
.19 HIGH SEE NOTE 5
20.00
28 VDC SUPPLY
2.50/±.03
2.75±.03
1.50
AGC
.62±.03 TYP
.06±.03 TYP
.50±.03 TYP
SEE DETAIL B
19.25
15.61
.62
.62
.68±.03
ON
OFF
.25±.03 TYP
.150
1.12±.03
ELAPSED TIME
10.00 TYP
SEE DETAIL C
11.61
5.500 TYP
9.000 ±.005 TYP
10.000 ±.005
A
A
1.06±.03
7.23
28 VDC CONTROL
2.750 TYP
3.86
.06±.03 TYP
.31±.03 TYP
.75±.03
.50±.03
28 VDC TEST
.50±.03 TYP
.69±.03 TYP
1.61
.897 TYP
.75
.75
1.12±.03 TYP
1.000 ±.005 TYP
2.50
.39±.01
5.42
.70
9.437
.312
10.841
11.48/11.45
.185/.193 DIA CSK FAR SIDE 82° TO .343 DIA 8 PLACES
.261/.272 DIA 2 HOLES
.290/.293 DIA .075/.085 DEEP 6 PLACES
.75±.03
1.75±.03
.75±.03
.75±.03
.50±.03
1.75±.03
.50±.03
1014387 REV
1014388 REV ASSY
SEE NOTE 6
.75±.03
.22±.03
9.50±.03
PARTIAL VIEW AA SCALE 1/2
1.312
.656
1.28/1.31
.656
1.312
.144/.152 DIA 4 HOLES
DETAIL B SCALE 2/1
.40/.41 DIA CBORE .88/.90 DIA X .115/.135 DP
.688 ±.005
.13/.14
.16/.17 DIA
SECT A A
.473/.483 DIA & CBORE FS TO .88/.90 DIA X .080/.100 DEEP
.440/.450
.031±.005
.062±.005
DETAIL A SCALE 2/1 2 PLACES
.19±.03 TYP
.06±.03 TYP
SEE NOTE 5
HIGH MARGIN
OSC MARGIN
LOW MARGIN
NORMAL
1.41±.03R TYP
1.20±.03R TYP
.94±.03R TYP
15° TYP
22°30' TYP
3 PLACES LOCATED WITHIN 4°
DETAIL C

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO.03170 DATE 9/17/63

NOTES
1. MATL AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541, EXCEPT ELECT CONDUCTIVE
4. PAINT (FRONT & EDGES, AREA INDICATED) 1 COAT TT-E-529 CLASS B FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
5. SILK SCREEN (FRONT OF PANEL) .12 HIGH BLACK CHARACTERS & .03 WIDE LINES PER ND1002019 UNLESS OTHERWISE SPECIFIED
6. MARK (REAR OF PANEL) .12 HIGH BLACK CHARACTERS PER ND1002019

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	
6	1006942	FASTENER ASSY CAPTIVE	3
6	1006951-007	STUD, CAPTIVE, SELF-CLINCHING	2
1	1014387-1	PANEL, FRONT	

LIST OF MATERIALS

NEXT ASSY	USED ON
1014388	101465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 ±.02 ANGLES ±2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 26 JUN 63
CHECKED D. Parsons 19 Aug 63
APPROVAL [illegible]
APPROVAL [illegible] 9/13/63
APPROVAL [illegible] 9/13/63
NASA APPROVAL [illegible]
MIT APPROVED [illegible] 9/17/63
MIT APPROVAL [illegible] 9-17-63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRONT PANEL ASSY
POWER CONTROL

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014387
SCALE 1/1
WT
SHEET

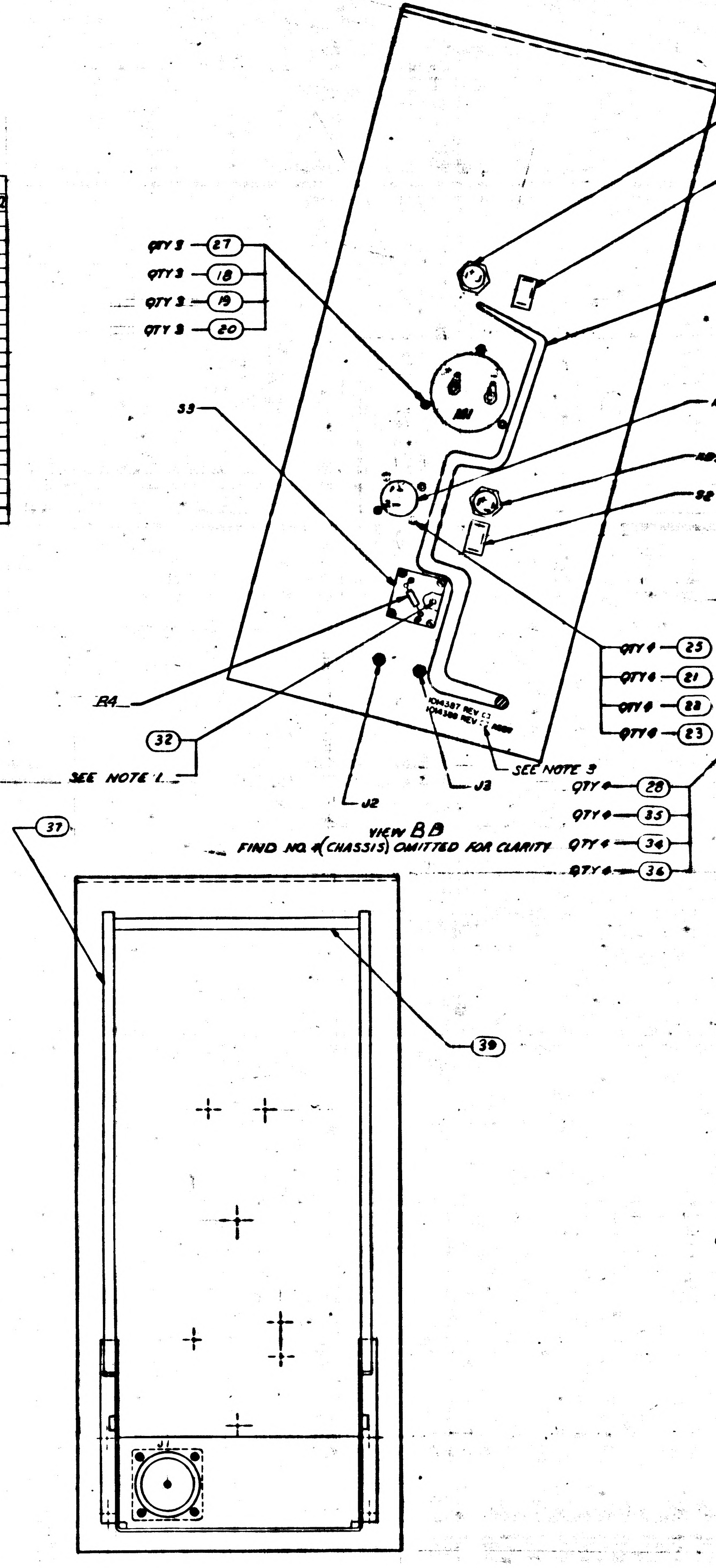
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

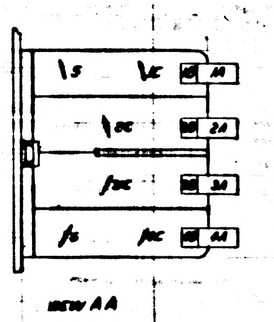
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 03170		
A	CLASS II CHANGE PER RD-R 5492 DR C. [illegible] CHK [illegible] APPD [illegible]		
B	CHANGED PER TDRR 08115 DR H. Kelley CHK A. [illegible] APPD [illegible]		

REFERENCE DES	
SYMBOL	FIND NO.
J2	11
J3	12
K1	9
K2	8
R1, R2, R3	7
R4	31
S1, S2	15
S3	17
XDS1, XDS2	16
M1	14
M2	13

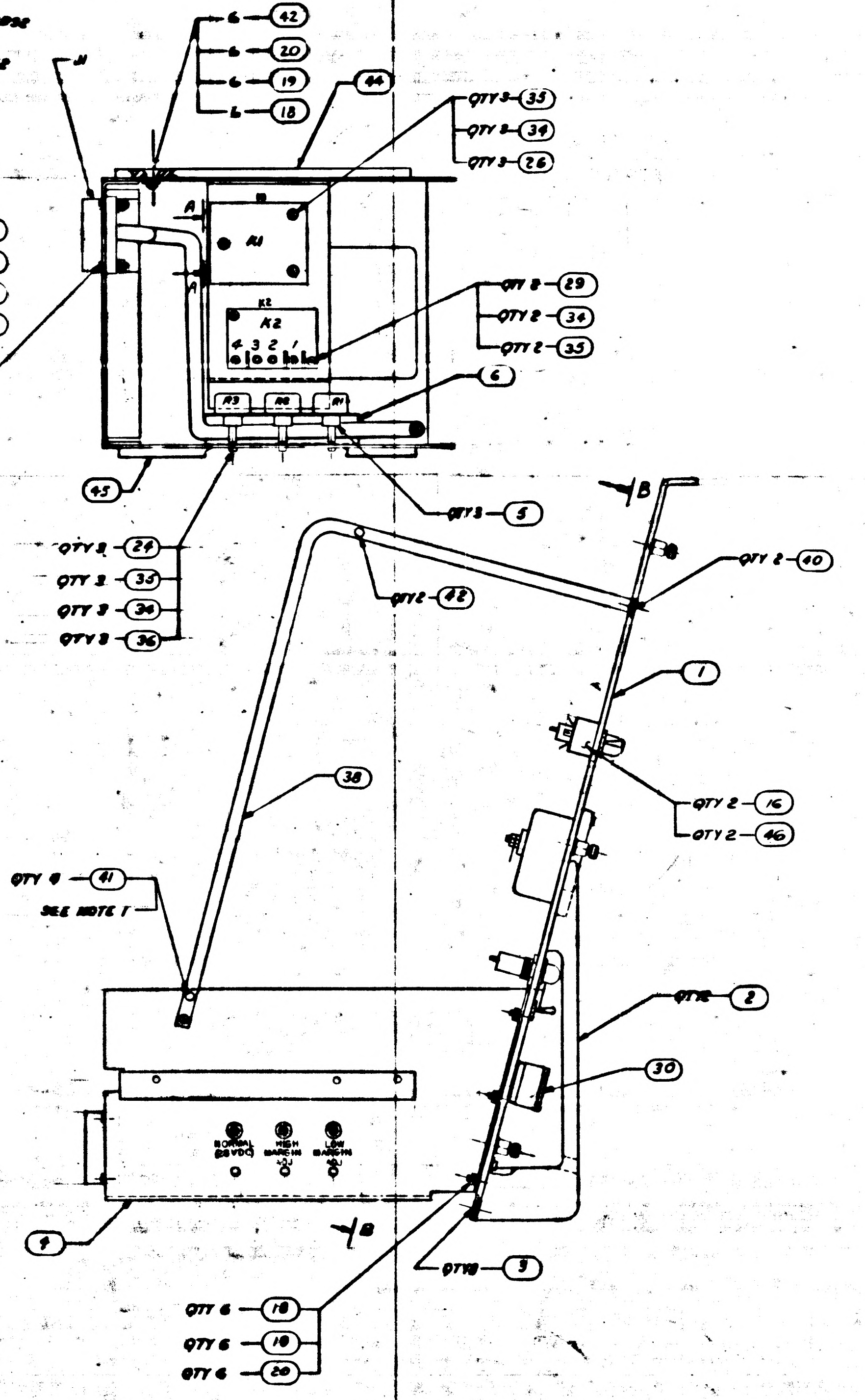
JUMPER LIST					
FROM	TO	LENGTH	FIND NO.	LENGTH	FIND NO
R3-CW	R3-ARM	.75	47	.38	48
R2-CW	R2-ARM	.75	47	.38	48
R1-CW	R1-ARM	.75	47	.38	48
R3-CCW	R2-CCW	3.00	47	2.62	48
R2-CCW	R1-CCW	3.00	47	2.62	48

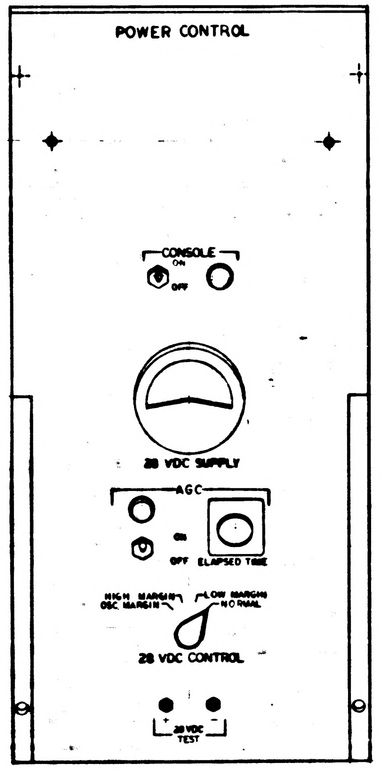

XDS1
S1
43
QTY 3 27
QTY 3 18
QTY 3 19
QTY 3 20
M1
M2
XDS2
S2
33
R4
32
SEE NOTE 1
QTY 4 23
QTY 4 21
QTY 4 22
QTY 4 23
1014387 REV
1014388 REV
J2
J3
SEE NOTE 3
QTY 4 28
QTY 4 35
QTY 4 34
QTY 4 36
37
39
J1

VIEW BB
FIND NO. 4 (CHASSIS) OMITTED FOR CLARITY



VIEW AA


II
6 42
6 20
6 19
6 18
44
QTY 3 35
QTY 3 34
QTY 3 26
A
A
R1
K2
4 3 2 1
QTY 2 29
QTY 2 34
QTY 2 35
6
R3
R2
R1
45
QTY 3 5
QTY 2 29
QTY 2 35
QTY 2 34
QTY 2 36
B
QTY 2 40
QTY 2 42
1
QTY 2 16
QTY 2 46
38
QTY 6 41
SEE NOTE 1
2
30
4
QTY 6 18
QTY 6 19
QTY 6 20
3
B
NORMAL (28 VDC)
HIGH MARGIN
LOW MARGIN


POWER CONTROL
CONSOLE
ON
OFF
28 VDC SUPPLY
AGC
ON
OFF
ELAPSED TIME
HIGH MARGIN
OSC MARGIN
LOW MARGIN
NORMAL
28 VDC CONTROL
28 VDC TEST

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03170 9/17/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
⊠	1014369	SCHEMATIC POWER CONTROL	REF
* .6	SEE NOTE 5	SLEEVING	48
* .7	SEE NOTE 4	WIRE, ELECTRICAL	47
2	1006869	LAMP INCANDESCENT	46
1	1006665-2	SLIDE, LH	45
1	1006665-1	SLIDE, RH	44
1	1020056	HARNESS	43
8	MS35200-43	SCREW, MACH FLAT CSK HD	42
4	MS35200-44	SCREW, MACH, FLAT CSK HD	41
2	MS35200-40	SCREW, MACH, FLAT, CSK HD	40
1	1014373	GUARD, SUPPORT	39
1	1014374-4	GUARD, PANEL LH	38
1	1014375-4	GUARD, PANEL RH	37
7	MS35649-64	NUT, PLAIN, HEXAGON	36
12	MS35338-79	WASHER, LOCK, SPLIT	35
12	MS15795-306	WASHER, FLAT	34
AR	MIL-S-40083CL 3I	COMPOUND, SEALING	33
1	MS51022-23	SCREW, SET HEX SOCKET	32
1	MS35043-65	RESISTOR, 120Ω - ½ WATT	31
1	MS91528-2K2B	KNOB	30
2	MS35233-85	SCREW, MACHINE, PAN HEAD	29
4	MS35233-31		28
3	MS35216-44		27
3	MS35233-29		26
4	MS35216-15		25
3	MS35233-28	SCREW, MACHINE, PAN HEAD	24
4	MS35649-44	NUT, PLAIN, HEXAGON	23
4	MS15796-304	WASHER, FLAT	22
4	MS35338 78	WASHER, LOCK, SPLIT	21
15	MS35649-84	NUT, PLAIN, HEXAGON	20
15	MS15795-307	WASHER, FLAT	19
15	MS35337-80	WASHER, LOCK, SPLIT	18
1	1006653	SWITCH, ROTARY	17
2	1006905-1	INDICATOR, LIGHT	16
2	MS35058-22	SWITCH, TOGGLE	15
1	1006655	METER	14
1	1006927	METER, ELAPSED TIME	13
1	MS16108-3A	JACK, TIP, LOW VOLTAGE	12
1	MS16108-2A	JACK, TIP, LOW VOLTAGE	11
~~1~~	[illegible]	~~CONNECTOR, RECEPTACLE~~	~~10~~
1	1006926	RELAY, ARMATURE	9
1	1006652	LIGHT, FLASHER-WARNING	8
3	RV4NAYSD202A	RESISTOR, POT - 2K, 2 WATT	7
1	1014385	BRACKET, MOUNTING	6
3	1006663	LOCK, SHAFT	5
1	1014386	CHASSIS, POWER CONTROL	4
8	MS35200-26	SCREW, MACHINE, FLAT HEAD	3
2	1014333	HANDLE	2
1	1014387	PANEL, FRONT	1

LIST OF MATERIALS

* DENOTES LENGTH IN FEET

NOTES
1. ASSEMBLE FIND NO. 32 & FIND NO. 4 USING FIND NO. 33
2. FOR SYMBOLS, FABRICATION & REQD TESTS SEE ND1002032
3. MARK APPLICABLE REV NO. IN BLOCK PROVIDED PER ND1002019
4. QQ-W-343, TYPE S, CLASS K FOR NO. 47, AWG 22
5. MIL-I-631, TYPE F, FORM U, GRADE a, CLASS I
CATEGORY I, GUAGE AWG 15, FOR FIND NO. 48

1014465	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 22 [illegible]
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVED [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER CONTROL ASSY
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014388
SCALE 1/2 WT SHEET 1 OF 1

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

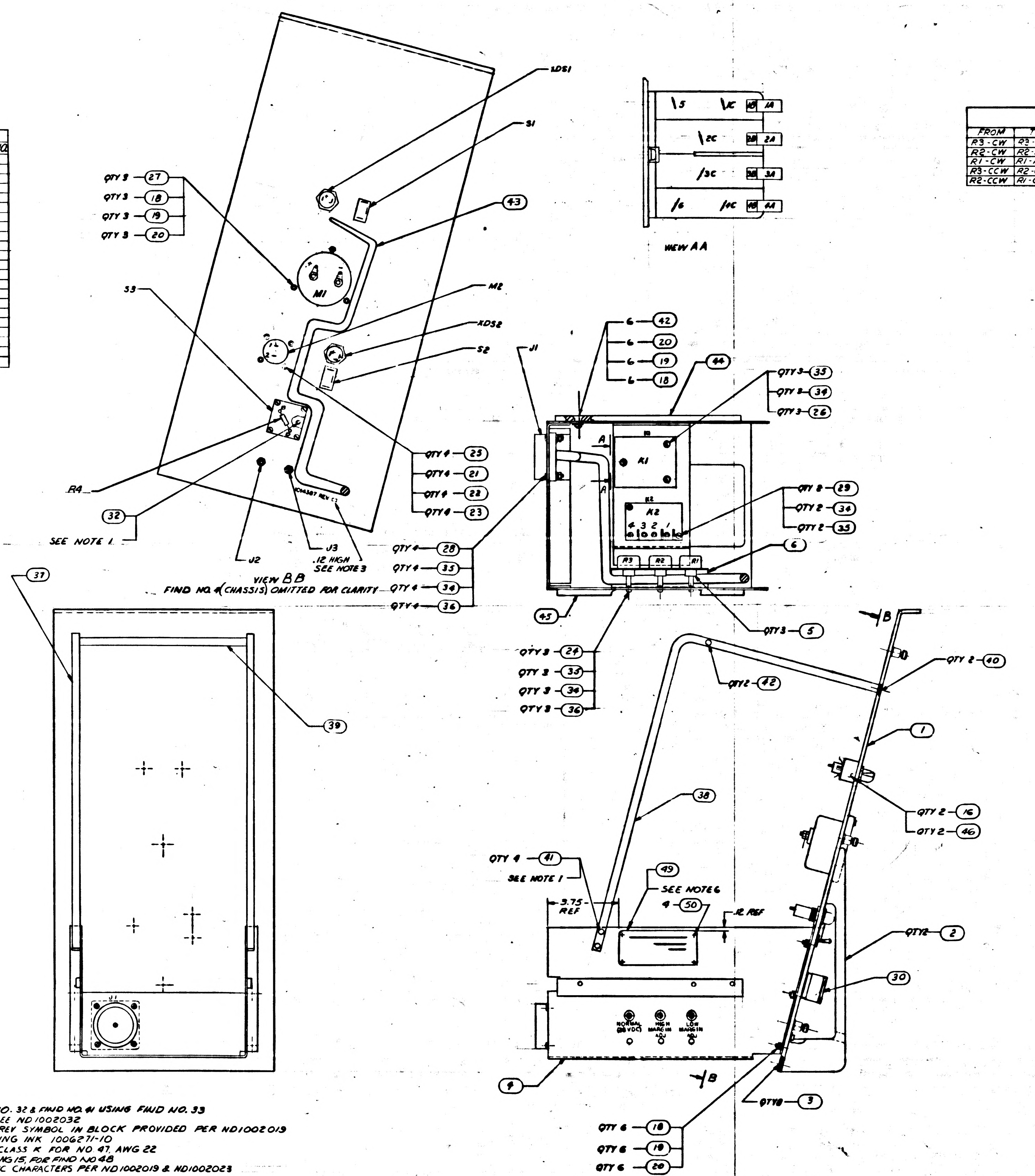
REVISIONS

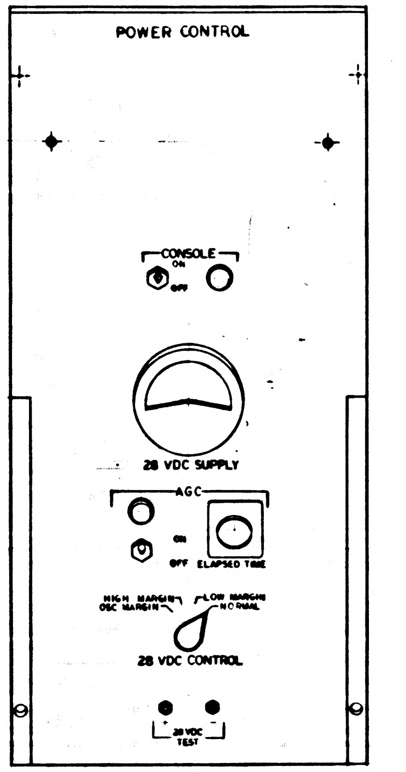
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 03170	9/17/63	
A	CLASS II CHANGE PER RD-R 5492 DR C. [illegible] CHK [illegible] APPD [illegible]	11-11-63	
B	CHANGED PER TDRR 08115 DR H. Kelley CHK A. Coppins APPD [illegible]	20 MAY 64	
C	UPGRADED TO CLASS A WITH CHANGE PER TDRR 15722 DR B. [illegible] CHK [illegible] APPD [illegible]	10 FEB 65	

REFERENCE DES	
SYMBOL	FIND NO.
J2	11
J3	12
K1	9
K2	8
R1, R2, R3	7
R4	31
S1, S2	15
S3	17
XDS1, XDS2	16
M1	14
M2	13

JUMPER LIST

FROM	TO	LENGTH	FIND NO.	LENGTH	FIND NO
R3-CW	R3-ARM	.75	47	.38	48
R2-CW	R2-ARM	.75	47	.38	48
R1-CW	R1-ARM	.75	47	.38	48
R3-CCW	R2-CCW	3.00	47	2.62	48
R2-CCW	R1-CCW	3.00	47	2.62	48


XDS1
S1
QTY 8 27
QTY 3 18
QTY 3 19
QTY 3 20
43
M1
M2
XDS2
S2
S3
R4
32
SEE NOTE 1
J2
J3
.12 HIGH SEE NOTE 3
1014387 REV C
QTY 4 25
QTY 4 21
QTY 4 22
QTY 4 23
VIEW BB
FIND NO. 4 (CHASSIS) OMITTED FOR CLARITY
1S 1C 1B 1A
2C 2B 2A
3C 3B 3A
6 6C 4B 4A
VIEW AA
J1
6 42
6 20
6 19
6 18
44
QTY 3 35
QTY 3 34
QTY 3 26
A
K1
K2
4 3 2 1
QTY 8 29
QTY 2 34
QTY 2 35
6
R3 R2 R1
QTY 4 28
QTY 4 35
QTY 4 34
QTY 4 36
45
QTY 3 5
QTY 3 24
QTY 3 35
QTY 3 34
QTY 3 36
37
39
J1
B
QTY 2 40
QTY 2 42
1
38
QTY 2 16
QTY 2 46
QTY 4 41
SEE NOTE 1
49
SEE NOTE 6
4 50
3.75 REF
.12 REF
QTY 2 2
30
NORMAL (28 VDC)
HIGH MARGIN ADJ
LOW MARGIN ADJ
4
B
QTY 8 3
QTY 6 18
QTY 6 19
QTY 6 20


POWER CONTROL
CONSOLE
ON
OFF
28 VDC SUPPLY
AGC
ON
OFF
ELAPSED TIME
HIGH MARGIN
OSC MARGIN
LOW MARGIN
NORMAL
28 VDC CONTROL
28 VDC
TEST

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1014369	SCHEMATIC POWER CONTROL	REF
4	AN535-4-3	SCREW, DRIVE, RD HD	50
1	1020086	PLATE, IDENTIFICATION, APOLLO GSE	49
* 6	SEE NOTE 5	SLEEVING	48
* .7	SEE NOTE 4	WIRE, ELECTRICAL	47
2	1006869	LAMP INCANDESCENT	46
1	1006665-2	SLIDE, LH	45
1	1006665-1	SLIDE, RH	44
1	1020056	HARNESS	43
8	MS35200-43	SCREW, MACH FLAT CSK HD	42
4	MS35200-44	SCREW, MACH, FLAT CSK HD	41
2	MS35200-40	SCREW, MACH, FLAT, CSK HD	40
1	1014373	GUARD, SUPPORT	39
1	1014374-4	GUARD, PANEL LH	38
1	1014375-4	GUARD, PANEL RH	37
7	MS35649-64	NUT, PLAIN, HEXAGON	36
12	MS35338-79	WASHER, LOCK, SPLIT	35
12	MS15795-806	WASHER, FLAT	34
AR	MIL-S-40083CL 31	COMPOUND, SEALING	33
1	MS51022-23	SCREW, SET HEX SOCKET	32
1	MS35043-65	RESISTOR, 120Ω - 1/2 WATT	31
1	MS91528-2K2B	KNOB	30
2	MS35233-35	SCREW, MACHINE, PAN HEAD	29
4	MS35233-31	↕	28
3	MS35216-44	↕	27
3	MS35233-29	↕	26
4	MS35216-15	↕	25
3	MS35233-28	SCREW, MACHINE, PAN HEAD	24
4	MS35649-44	NUT, PLAIN, HEXAGON	23
4	MS15795-304	WASHER, FLAT	22
4	MS35338 78	WASHER, LOCK, SPLIT	21
15	MS35649-84	NUT, PLAIN, HEXAGON	20
15	MS15795-807	WASHER, FLAT	19
15	MS35337-80	WASHER, LOCK, SPLIT	18
1	1006653	SWITCH, ROTARY	17
2	1006905-1	INDICATOR, LIGHT	16
2	MS35058-22	SWITCH, TOGGLE	15
1	1006655	METER	14
1	1006927	METER, ELAPSED TIME	13
1	MS16108-3A	JACK, TIP, LOW VOLTAGE	12
1	MS16108-2A	JACK, TIP, LOW VOLTAGE	11
~~1~~	[illegible]	~~CONNECTOR, RECEPTACLE~~	~~10~~
1	1006926	RELAY, ARMATURE	9
1	1006652	LIGHT, FLASHER-WARNING	8
3	RV4NAYSD202A	RESISTOR, POT - 2K, 2 WATT	7
1	1014385	BRACKET, MOUNTING	6
3	1006663	LOCK, SHAFT	5
1	1014386	CHASSIS, POWER CONTROL	4
8	MS35200-26	SCREW, MACHINE, FLAT HEAD	3
2	1014333	HANDLE	2
1	1014387	PANEL, FRONT	1

LIST OF MATERIALS

* DENOTES LENGTH IN FEET

NOTES
1. ASSEMBLE FIND NO. 32 & FIND NO. 41 USING FIND NO. 33
2. FOR FABRICATION SEE ND1002032
3. MARK APPLICABLE REV SYMBOL IN BLOCK PROVIDED PER ND1002019 USING BLACK MARKING INK 1006271-10
4. QQ-W-343 TYPE S, CLASS K FOR NO. 47, AWG 22
5. MIL-I-7444, TYPE I, AWG 15, FOR FIND NO 48
6. STAMP .12 HIGH GOTHIC CHARACTERS PER ND1002019 & ND1002023

NEXT ASSY	USED ON
1020342	
1014465	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.06 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN [illegible] DATE 20 [illegible] 63
CHECKED GAS
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVED
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER CONTROL ASSY
AGC/CTS OPERATION CONSOLE

CODE IDENT NO
SIZE J
NASA DRAWING NO 1014388
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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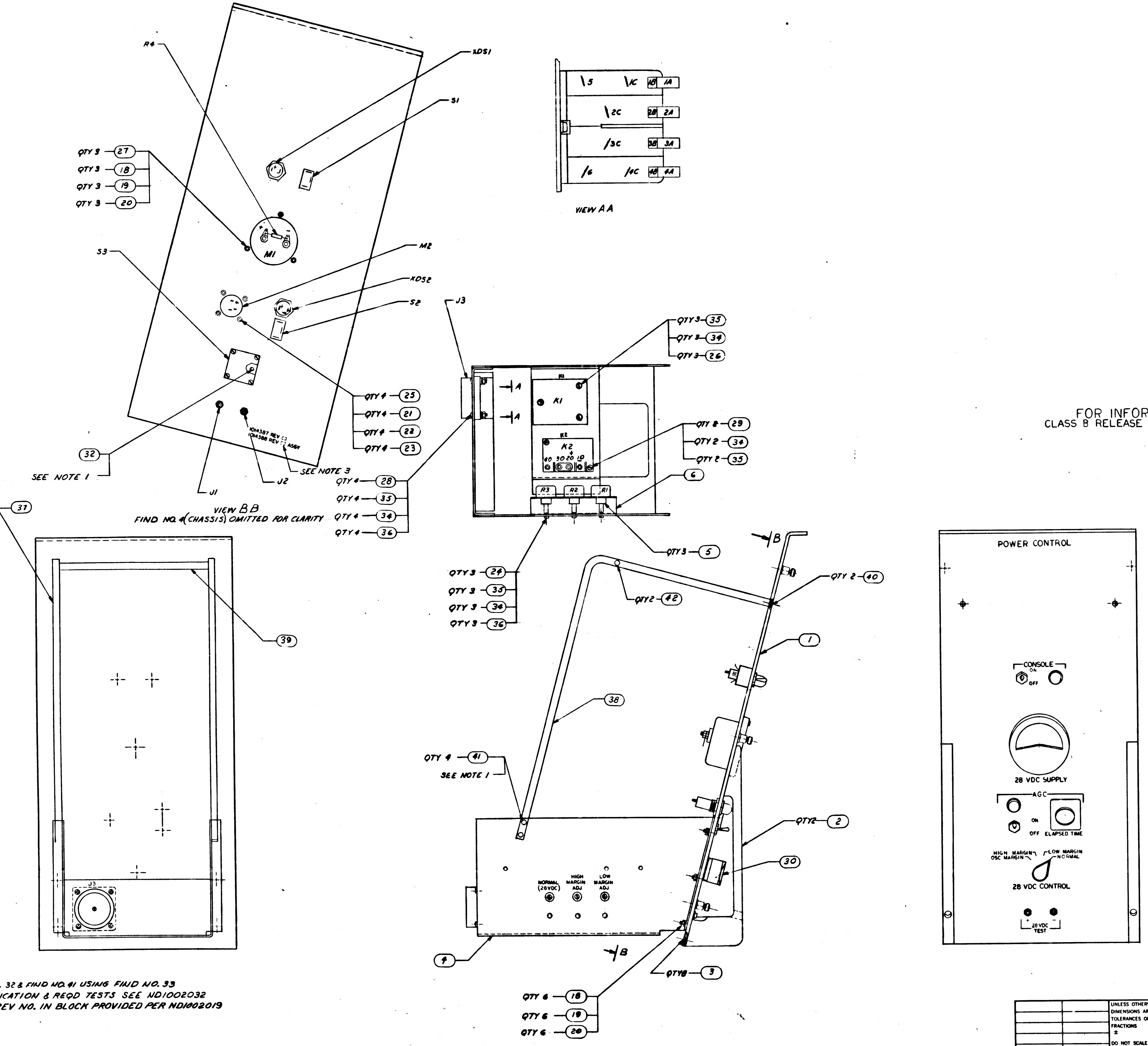
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 03170	9/17/63	

REFERENCE DES	
SYMBOL	FIND NO.
J1	11
J2	12
J3	10
K1	9
K2	8
R1, R2, R3	7
R4	31
S1, S2	15
S3	17
XDS1, XDS2	16
M1	14
M2	13


R4
XDS1
S1
QTY 3 – 27
QTY 3 – 18
QTY 3 – 19
QTY 3 – 20
M1
M2
XDS2
S2
S3
1014387 REV ___
1014388 REV ___ ASSY
32
SEE NOTE 1
J1
J2
SEE NOTE 3
QTY 4 – 25
QTY 4 – 21
QTY 4 – 22
QTY 4 – 23
VIEW BB
FIND NO. 4 (CHASSIS) OMITTED FOR CLARITY
1S 1C 1B 1A
2C 2B 2A
3C 3B 3A
6 6C 4B 4A
VIEW AA
J3
A
A
K1
K2
4O 3O 2O 1O
R3 R2 R1
QTY 3 – 35
QTY 3 – 34
QTY 3 – 26
QTY 8 – 29
QTY 2 – 34
QTY 2 – 35
6
QTY 4 – 28
QTY 4 – 35
QTY 4 – 34
QTY 4 – 36
QTY 3 – 5
QTY 3 – 24
QTY 3 – 35
QTY 3 – 34
QTY 3 – 36
37
39
J3
B
QTY 2 – 40
QTY 2 – 42
1
38
QTY 4 – 41
SEE NOTE 1
QTY 2 – 2
30
NORMAL (28VDC)
HIGH MARGIN ADJ
LOW MARGIN ADJ
4
B
QTY 8 – 3
QTY 6 – 18
QTY 6 – 19
QTY 6 – 20
POWER CONTROL
CONSOLE
ON
OFF
28 VDC SUPPLY
AGC
ON
OFF
ELAPSED TIME
HIGH MARGIN
OSC MARGIN
LOW MARGIN
NORMAL
28 VDC CONTROL
28 VDC TEST

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03170 9/17/63

NOTES
1. ASSEMBLE FIND NO. 32 & FIND NO. 41 USING FIND NO. 33
2. FOR SYMBOLS, FABRICATION & REQD TESTS SEE ND1002032
3. MARK APPLICABLE REV NO. IN BLOCK PROVIDED PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	1014369	SCHEMATIC POWER CONTROL	REF
1		HARNESS	43
2	MS35200-43	SCREW, MACH FLAT CSK HD	42
4	MS35200-44	SCREW, MACH, FLAT CSK HD	41
2	MS35200-40	SCREW, MACH, FLAT, CSK HD	40
1	1014373	GUARD, SUPPORT	39
1	1014374	GUARD, PANEL LH	38
1	1014375	GUARD, PANEL RH	37
7	MS35649-64	NUT, PLAIN, HEXAGON	36
12	MS35338-79	WASHER, LOCK, SPLIT	35
12	MS15795-306	WASHER, FLAT	34
AR	MIL-S-40083CL 31	COMPOUND, SEALING	33
1	MS51022-22	SCREW, SET HEX SOCKET	32
1	MS35043-65	RESISTOR, 120Ω - ½ WATT	31
1	MS19528-2K2B	KNOB	30
2	MS35233-35	SCREW, MACHINE, PAN HEAD	29
4	MS35233-31	↕	28
3	MS35216-44	↕	27
3	MS35233-29	↕	26
4	MS35216-15	↕	25
3	MS35233-28	SCREW, MACHINE, PAN HEAD	24
4	MS35649-44	NUT, PLAIN, HEXAGON	23
4	MS15795-304	WASHER, FLAT	22
4	MS35338 78	WASHER, LOCK, SPLIT	21
9	MS35649-84	NUT, PLAIN, HEXAGON	20
9	MS15795-307	WASHER, FLAT	19
9	MS35337-80	WASHER, LOCK, SPLIT	18
1	1006653	SWITCH, ROTARY	17
2	1006905-1	INDICATOR, LIGHT	16
2	MS35058-22	SWITCH, TOGGLE	15
1	1006655	METER	14
1	1006927	METER, ELAPSED TIME	13
1	MS16108-3A	JACK, TIP, LOW VOLTAGE	12
1	MS16108-2A	JACK, TIP, LOW VOLTAGE	11
1	MS3102A-36-9P	CONNECTOR, RECEPTACLE	10
1	1006926	RELAY, ARMATURE	9
1	1006652	LIGHT, FLASHER-WARNING	8
3	RV4NAYSD202A	RESISTOR, POT - 2K 2WATT	7
1	1014385	BRACKET, MOUNTING	6
3	1006663	LOCK, SHAFT	5
1	1014386	CHASSIS, POWER CONTROL	4
8	MS35200-26	SCREW, MACHINE, FLAT HEAD	3
2	1014333	HANDLE	2
1	1014387	PANEL, FRONT	1

LIST OF MATERIALS

1014465	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 28 [illegible] 63
CHECKED
APPROVAL
APPROVAL 9/3/63
APPROVAL 9/3/63
NASA APPROVAL
MIT APPROVED 9/17/63
MIT APPROVAL 9-17-63

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

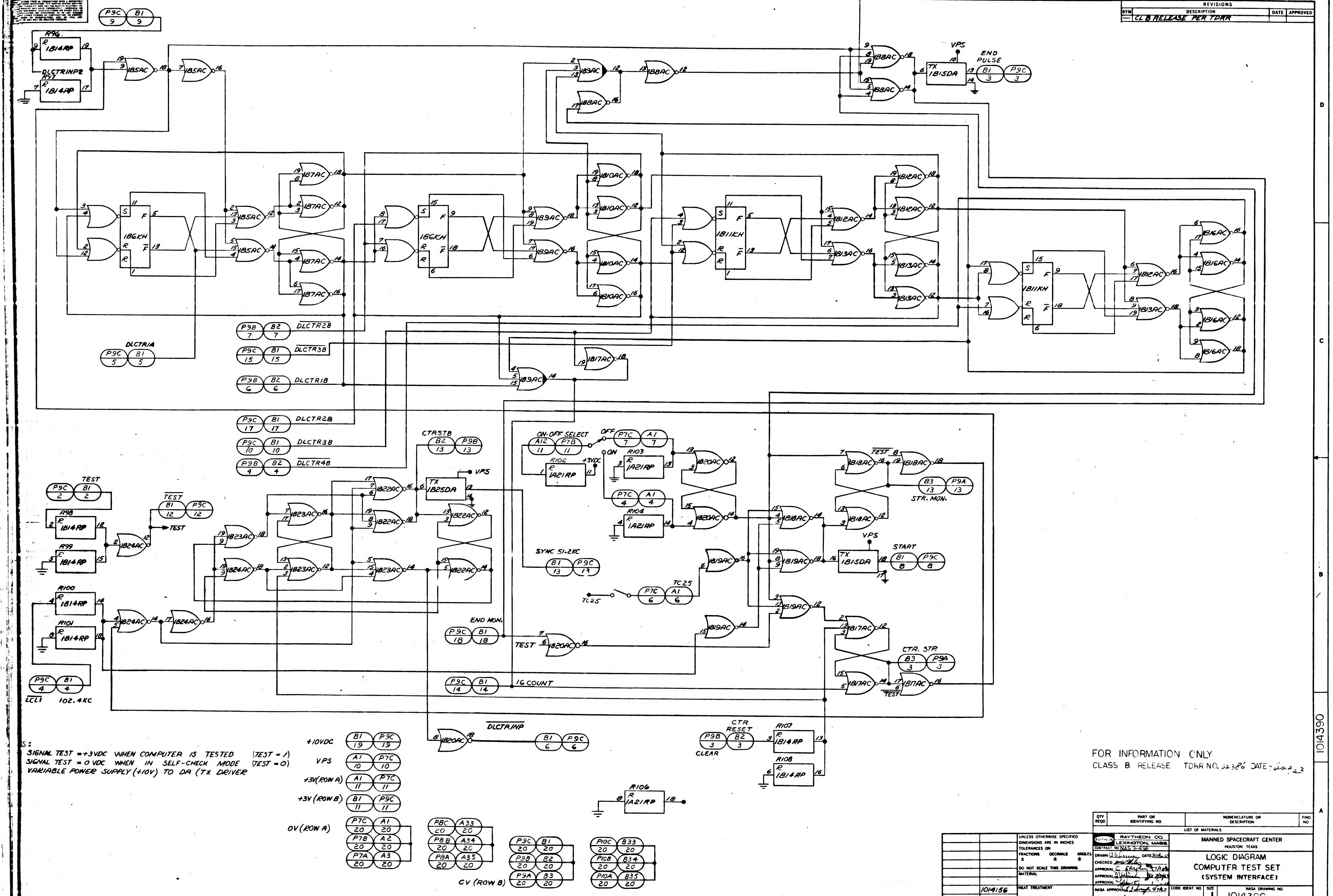
POWER CONTROL ASSY
AGC/CTS OPERATION CONSOLE

CODE IDENT NO ——— SIZE J NASA DRAWING NO 1014388
SCALE 1/2 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASE PER TDRR		


P9C 9 B1 9
R96 1B14RP
DLCTRINP2
R97 1B14RP
1B5AC
1B6KH
1B7AC
1B9AC
1B10AC
1B11KH
1B12AC
1B13AC
1B16AC
1B8AC
TX 1B15DA
VPS
END PULSE
B1 3 P9C 3
DLCTR1A P9C 5 B1 5
P9B 7 B2 7 DLCTR2B
P9C 15 B1 15 DLCTR3B
P9B 6 B2 6 DLCTR1B
1B17AC
P9C 17 B1 17 DLCTR2B
P9C 10 B1 10 DLCTR3B
P9B 4 B2 4 DLCTR4B
CTRSTB B2 13 P9B 13
TX 1B25DA
1B22AC
1B23AC
1B24AC
TEST P9C 2 B1 2
TEST B1 12 P9C 12
R98 1B14RP
R99 1B14RP
R100 1B14RP
R101 1B14RP
P9C 4 B1 4
LCLI 102.4KC
ON-OFF SELECT A12 11 P7B 11
OFF P7C 7 A1 7
ON
R102 1A21RP
+3VDC
R103 1A21RP
R104 1A21RP
P7C 4 A1 4
1B20AC
SYNC 51.2KC B1 13 P9C 13
TC25 P7C 6 A1 6
1B18AC
1B19AC
TEST B
B3 13 P9A 13 STR. MON.
START B1 8 P9C 8
END MON. P9C 18 B1 18
TEST
CTR. STP. B3 3 P9A 3
P9C 14 B1 14 16 COUNT
TEST
DLCTRINP
B1 6 P9C 6
CTR RESET P9B 3 B2 3 CLEAR
R107 1B14RP
R108 1B14RP
R106 1A21RP
+10VDC B1 19 P9C 19
VPS A1 10 P7C 10
+3V(ROW A) A1 11 P7C 11
+3V (ROW B) B1 11 P9C 11
OV (ROW A) P7C 20 A1 20 P7B 20 A2 20 P7A 20 A3 20
P8C 20 A33 20 P8B 20 A34 20 P8A 20 A35 20
OV (ROW B) P9C 20 B1 20 P9B 20 B2 20 P9A 20 B3 20
P10C 20 B33 20 P10B 20 B34 20 P10A 20 B35 20

S:
SIGNAL TEST =+3VDC WHEN COMPUTER IS TESTED (TEST = 1)
SIGNAL TEST = 0 VDC WHEN IN SELF-CHECK MODE (TEST = 0)
VARIABLE POWER SUPPLY (+10V) TO DA (TX DRIVER

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 22386 DATE

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN U.G. Cammi DATE 30 Apr 65
CHECKED
APPROVAL C. SRegling 7/2/65
APPROVAL 7/29/65
APPROVAL
NASA APPROVAL 8/7/65
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(SYSTEM INTERFACE)

CODE IDENT NO —— SIZE J NASA DRAWING NO. 1014390
SCALE NONE WT SHEET 1 OF 3

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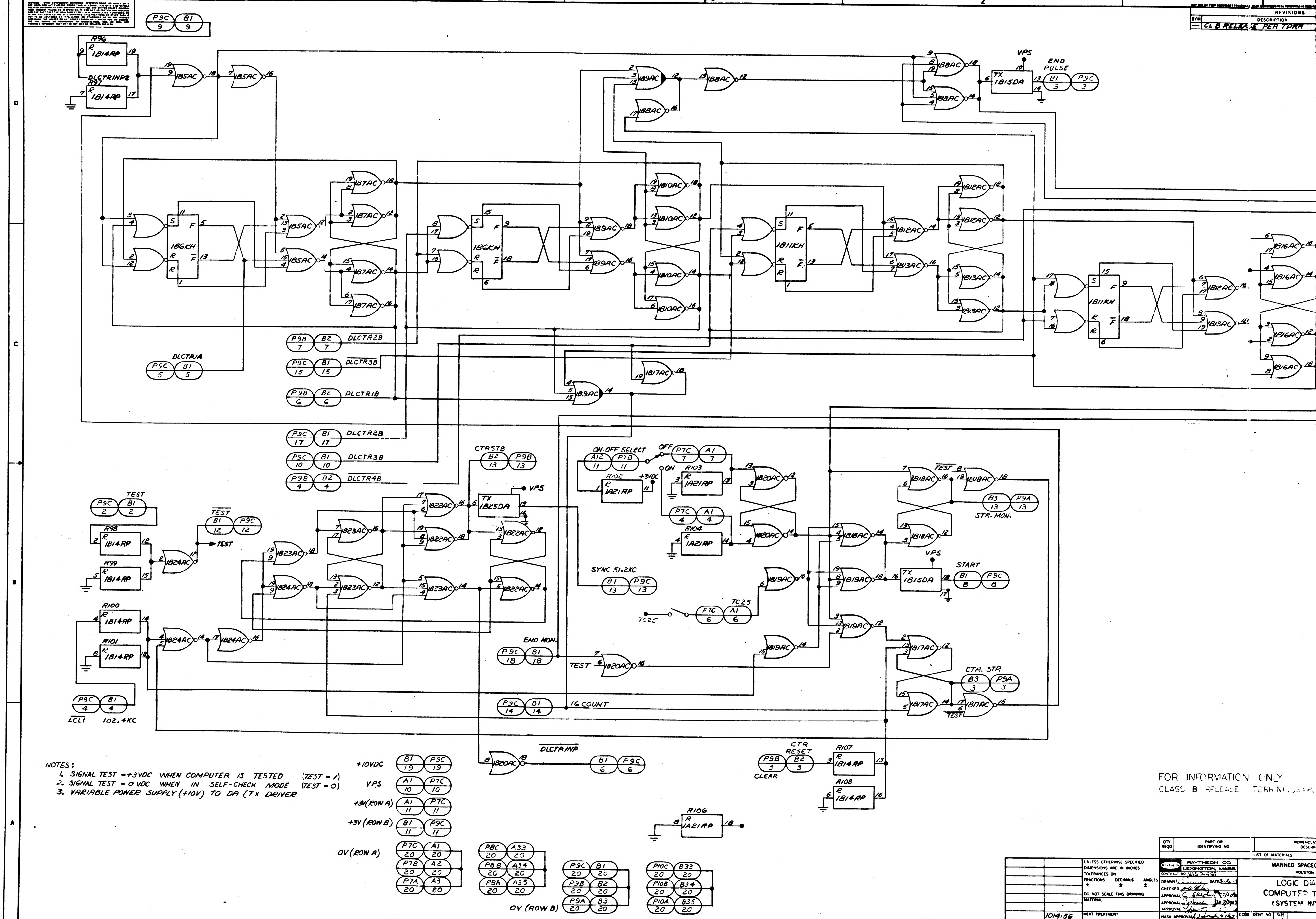
SYM	DESCRIPTION
	REVISIONS
—	CL B RELEASE PER TDRR



P9C 9 / B1 9
R96 R 1B14RP 9 19
DLCTRINP2
R97 R 1B14RP 7 17
1B5AC 19 9 18
1B5AC 7 16
1B6KH S F R F̄
1B5AC
1B7AC
1B6KH
1B9AC
1B10AC
1B11KH
1B12AC
1B13AC
1B16AC
1B8AC 2 3 15 12
1B8AC 13 12
1B8AC 17 16
1B8AC 9 8 13 18
1B8AC 15 5 4 14
TX 1B15DA 6 10 13 14
VPS
END PULSE
B1 3 / P9C 3
DLCTR1A P9C 5 / B1 5
P9B 7 / B2 7 DLCTR2B
P9C 15 / B1 15 DLCTR3B
P9B 6 / B2 6 DLCTR1B
1B9AC 4 5 15 14
1B17AC 19 18
P9C 17 / B1 17 DLCTR2B
P9C 10 / B1 10 DLCTR3B
P9B 4 / B2 4 DLCTR4B
TEST P9C 2 / B1 2
R98 R 1B14RP 2 12
R99 R 1B14RP 5 15
1B24AC 2 12 → TEST
TEST B1 12 / P9C 12
R100 R 1B14RP 4 14
R101 R 1B14RP 8 18
1B24AC 4 5 14
1B24AC 17 16
P9C 4 / B1 4
LCLI 102.4KC
1B23AC
1B22AC
CTRSTB B2 13 / P9B 13
TX 1B25DA
VPS
ON-OFF SELECT A12 11 / P7B 11
OFF P7C 7 / A1 7
ON
R102 R 1A21RP +3VDC 1 11
R103 R 1A21RP 3 13
P7C 4 / A1 4
R104 R 1A21RP 4 14
1B20AC 13 3 12
1B20AC 15 4 14
SYNC 51.2KC B1 13 / P9C 13
TC25 P7C 6 / A1 6
TC25
END MON. P9C 18 / B1 18
TEST 1B20AC 7 6 16
P9C 14 / B1 14 16 COUNT
1B18AC 7 6 16
TEST 8 1B18AC 9 18
B3 13 / P9A 13 STR. MON.
1B18AC 13 12
1B18AC 15 4 5 14
1B19AC 6
1B19AC 19 8 9 18
TX 1B15DA 16 13 14
VPS
START B1 8 / P9C 8
1B19AC 3 13 2 12
1B19AC 15 14
1B17AC 2 13 3 12
CTR. STP. B3 3 / P9A 3
1B17AC 15 5 14
1B17AC 17 6 16 TEST
DLCTRINP
1B20AC 8 18
B1 6 / P9C 6
CTR RESET P9B 3 / B2 3 CLEAR
R107 R 1B14RP 3 13
R108 R 1B14RP 6 16
R106 R 1A21RP 8 18
+10VDC B1 19 / P9C 19
VPS A1 10 / P7C 10
+3V(ROW A) A1 11 / P7C 11
+3V (ROW B) B1 11 / P9C 11
OV (ROW A) P7C 20 / A1 20, P7B 20 / A2 20, P7A 20 / A3 20
P8C 20 / A33 20, P8B 20 / A34 20, P8A 20 / A35 20
OV (ROW B) P9C 20 / B1 20, P9B 20 / B2 20, P9A 20 / B3 20
P10C 20 / B33 20, P10B 20 / B34 20, P10A 20 / B35 20

NOTES:
1. SIGNAL TEST = +3VDC WHEN COMPUTER IS TESTED (TEST = 1)
2. SIGNAL TEST = 0 VDC WHEN IN SELF-CHECK MODE (TEST = 0)
3. VARIABLE POWER SUPPLY (+10V) TO DA (TX DRIVER

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO.

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO	NOMENCLAT DESCRIP
		LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

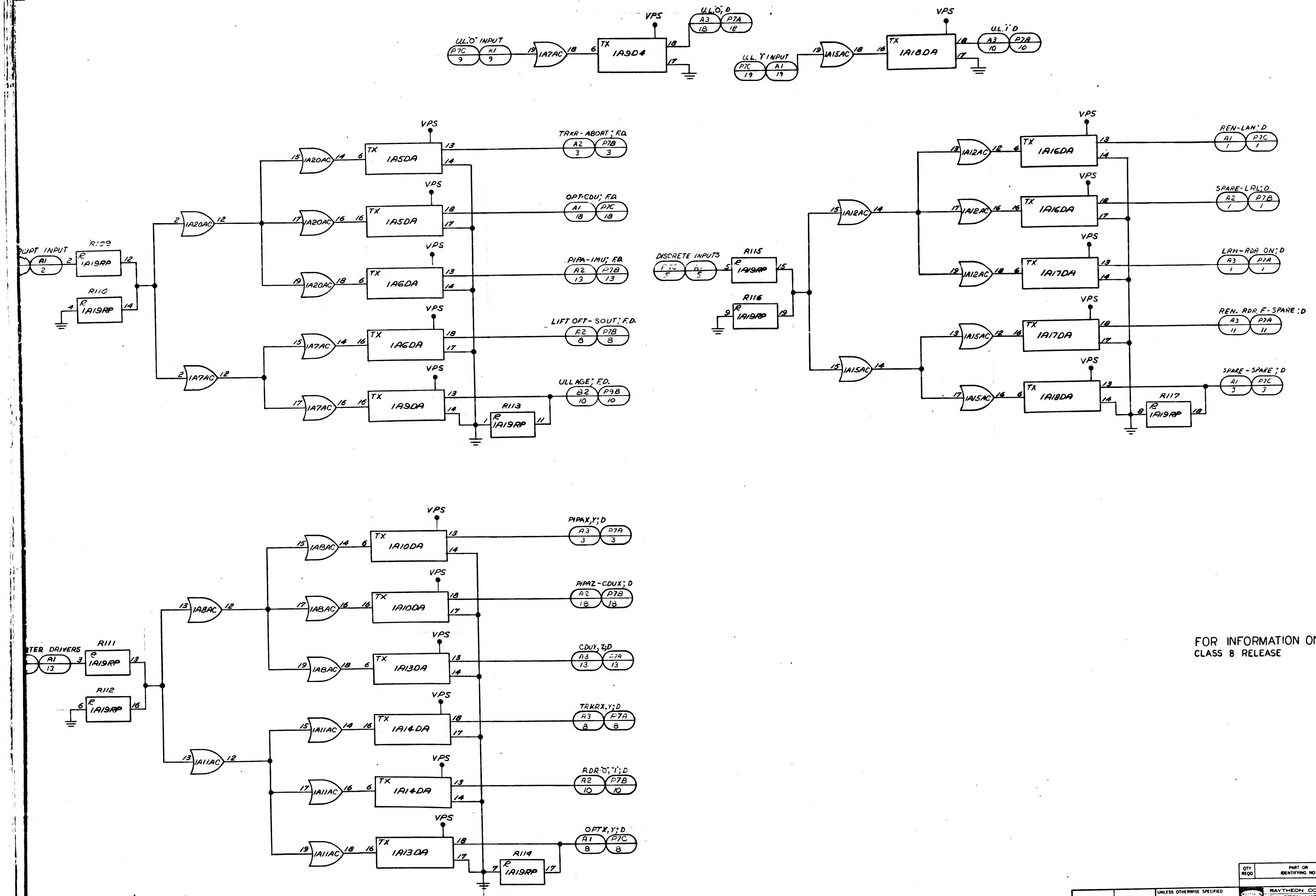
RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO. NAS 9-498
DRAWN DATE 30 Apr 65
CHECKED
APPROVAL C. Sp 7/2/65
APPROVAL 7/2/65
APPROVAL
NASA APPROVAL 8/7/65
MIT APPROVAL George
MIT APPROVAL

MANNED SPACEC
HOUSTON
LOGIC DIA
COMPUTER T
(SYSTEM

CODE IDENT NO —
SIZE J
1014
SCALE NONE
WT

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		



U.L.'O' INPUT
P7C 9
A1 9
19 1A7AC 18
6 TX 1A9D4
VPS
18
17
U.L.'O'; D
A3 18
P7A 18
U.L.'1' INPUT
P7C 19
A1 19
19 1A15AC 18
16 TX 1A18DA
VPS
18
17
U.L.'1' D
A3 10
P7A 10
UPT INPUT
A1 2
R109
2 R 1A19RP 12
R110
4 R 1A19RP 14
2 1A20AC 12
2 1A7AC 12
15 1A20AC 14
6 TX 1A5DA 13 14
TRKR-ABORT; F.D.
A2 3
P7B 3
17 1A20AC 16
16 TX 1A5DA 18 17
OPT-CDU; F.D.
A1 18
P7C 18
19 1A20AC 18
6 TX 1A6DA 13 14
PIPA-IMU; F.D.
A2 13
P7B 13
15 1A7AC 14
16 TX 1A6DA 18 17
LIFT OFT-SOUT; F.D.
A2 8
P7B 8
17 1A7AC 16
16 TX 1A9DA 13 14
ULLAGE; F.D.
B2 10
P9B 10
R113
1 R 1A19RP 11
VPS
DISCRETE INPUTS
P7C 5
A1 5
R115
5 R 1A19RP 15
R116
9 R 1A19RP 19
15 1A12AC 14
15 1A15AC 14
13 1A12AC 12
6 TX 1A16DA 13 14
REN-LAN; D
A1 1
P7C 1
17 1A12AC 16
16 TX 1A16DA 18 17
SPARE-LRL; D
A2 1
P7B 1
19 1A12AC 18
6 TX 1A17DA 13 14
LRH-RDR ON; D
A3 1
P7A 1
13 1A15AC 12
16 TX 1A17DA 18 17
REN. RDR. F-SPARE; D
A3 11
P7A 11
17 1A15AC 16
6 TX 1A18DA 13 14
SPARE-SPARE; D
A1 3
P7C 3
R117
8 R 1A19RP 18
TER DRIVERS
A1 13
R111
3 R 1A19RP 13
R112
6 R 1A19RP 16
13 1A8AC 12
13 1A11AC 12
15 1A8AC 14
6 TX 1A10DA 13 14
PIPAX,Y; D
A3 3
P7A 3
17 1A8AC 16
16 TX 1A10DA 18 17
PIPAZ-CDUX; D
A2 18
P7B 18
19 1A8AC 18
6 TX 1A13DA 13 14
CDUY,Z; D
A3 13
P7A 13
15 1A11AC 14
16 TX 1A14DA 18 17
TRKRX,Y; D
A3 8
P7A 8
17 1A11AC 16
6 TX 1A14DA 13 14
RDR 'O', '1'; D
A2 10
P7B 10
19 1A11AC 18
16 TX 1A13DA 18 17
OPTX,Y; D
A1 8
P7C 8
R114
7 R 1A19RP 17

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02386 DATE 7 Aug 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN H. Carlson DATE 4-26-63
CHECKED
APPROVAL C Sawling 7/21/63
APPROVAL 7/30/63
APPROVAL
NASA APPROVAL 8/7/63
MIT APPROVAL George J Mulson 8/7/63
MIT APPROVAL 6 Aug 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(SYSTEM INTERFACE)

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014390
SCALE NONE
WT
SHEET 2 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014390

INCHES
PHOTOGRAPHIC SCALE ONLY

F-2

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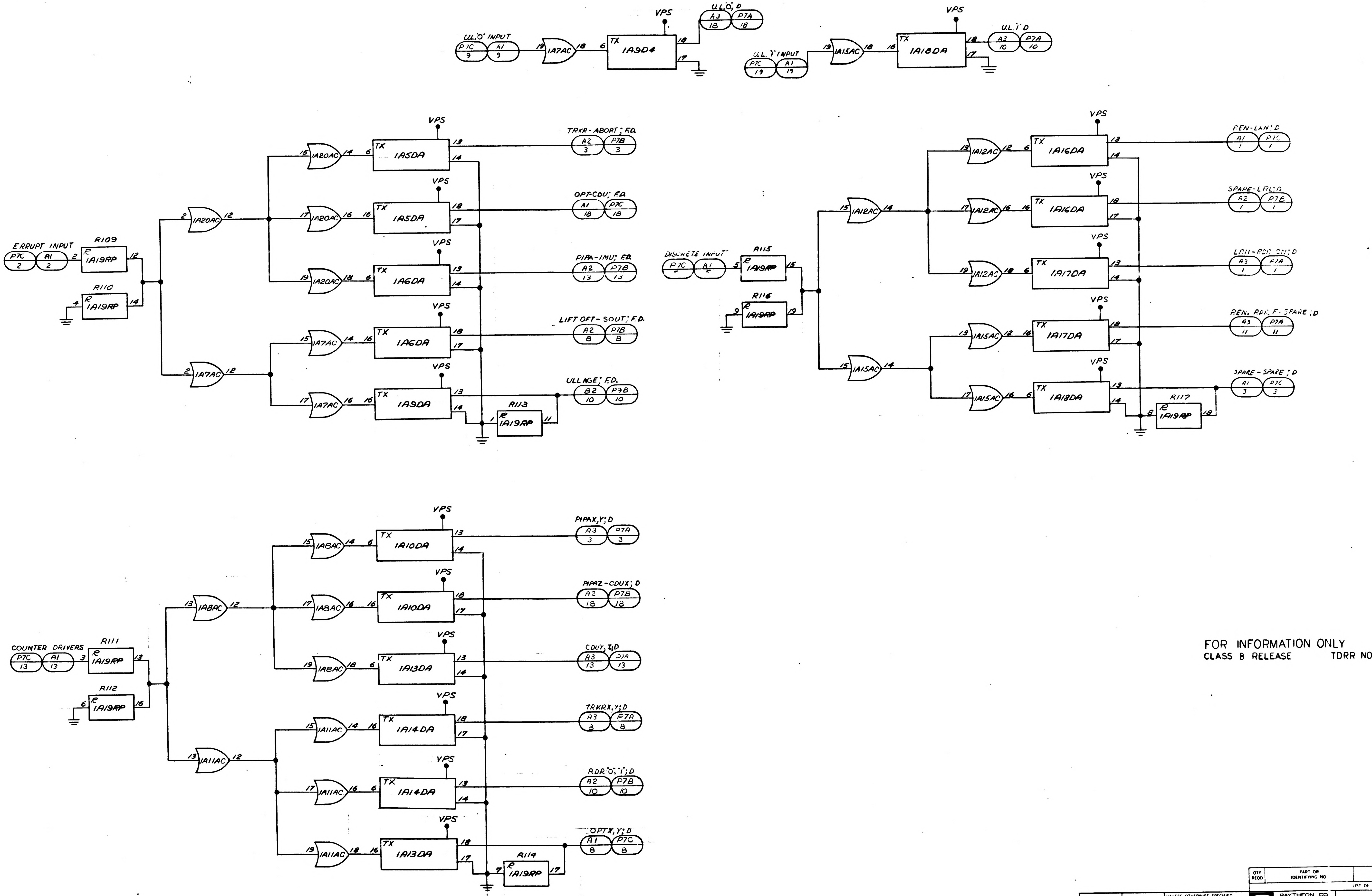
1014390

SYM	REVISIONS DESCRIPTION
–	CL B RELEASED PER TDRR



VPS
U.L.'0' INPUT
P7C 9
A1 9
IA7AC
19
18
6
TX
IA9DA
18
17
U.L.'0';D
A3 18
P7A 18
U.L.'1' INPUT
P7C 19
A1 19
IA15AC
TX
IA18DA
U.L.'1';D
A3 10
P7A 10
ERRUPT INPUT
P7C 2
A1 2
R109
R
IA19RP
12
R110
4
14
IA20AC
IA5DA
IA6DA
IA9DA
TRKR-ABORT; F.D.
A2 3
P7B 3
OPT-CDU; F.D.
A1 18
P7C 18
PIPA-IMU; F.D.
A2 13
P7B 13
LIFT OFF-SOUT; F.D.
A2 8
P7B 8
ULLAGE; F.D.
B2 10
P9B 10
R113
R
IA19RP
1
11
DISCRETE INPUT
P7C
A1
R115
R
IA19RP
5
15
R116
9
19
IA12AC
IA15AC
IA16DA
IA17DA
IA18DA
REN-LAN; D
A1 1
P7C 1
SPARE-LRU; D
A2 1
P7B 1
LRU-RDR ON; D
A3 1
P7A 1
REN. RDR. F-SPARE; D
A3 11
P7A 11
SPARE-SPARE; D
A1 3
P7C 3
R117
8
18
COUNTER DRIVERS
P7C 13
A1 13
R111
3
13
R112
6
16
IA8AC
IA11AC
IA10DA
IA13DA
IA14DA
PIPAX,Y;D
A3 3
P7A 3
PIPAZ-CDUX; D
A2 18
P7B 18
CDUY,Z;D
A3 13
P7A 13
TRKRX,Y;D
A3 8
P7A 8
RDR.'0','1';D
A2 10
P7B 10
OPTX,Y;D
A1 8
P7C 8
R114
R
IA19RP
7
17

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO.

QTY REQD	PART OR IDENTIFYING NO

LIST OF MATERIAL

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN R. Carlson DATE 4-26-63
CHECKED
APPROVAL C Sawtey
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

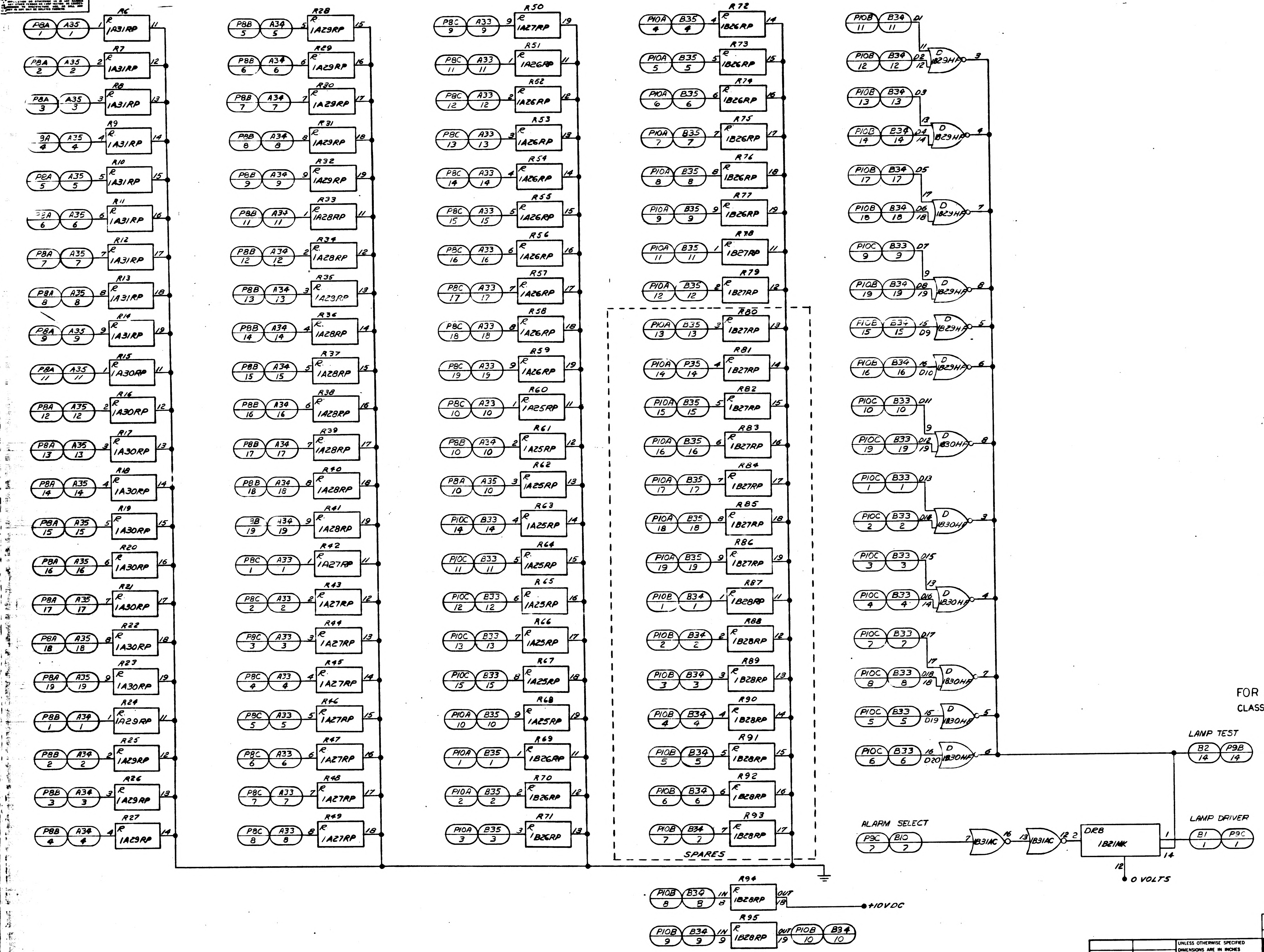
MANNED
LOG
COMPU
(SYSTEM IN
CODE IDENT NO —
SIZE J
SCALE

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		


R6 … R95
1A31RP
1A30RP
1A29RP
1A28RP
1A27RP
1A26RP
1A25RP
1B26RP
1B27RP
1B28RP
1B29HF
1B30HF
P8A A35
P8B A34
P8C A33
P10A B35
P10B B34
P10C B33
SPARES
R94 IN OUT 1B28RP +10VDC
R95 IN OUT 1B28RP P10B 10 B34 10
LAMP TEST
B2 14 P9B 14
LAMP DRIVER
B1 1 P9C 1
ALARM SELECT
P9C 7 B10 7
1B31AC
DRB 1B21MK
0 VOLTS

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 02386 DATE 7 Aug 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
	1014156
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN B C Gammon DATE 30 APR 63
CHECKED
APPROVAL C. Sterling 7/31/63
APPROVAL
APPROVAL
NASA APPROVAL 8/7/63
MIT APPROVAL 8/7/63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LOGIC DIAGRAM
COMPUTER TEST SET
(SYSTEM INTERFACE)

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014390
SCALE NONE
WT
SHEET 3 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

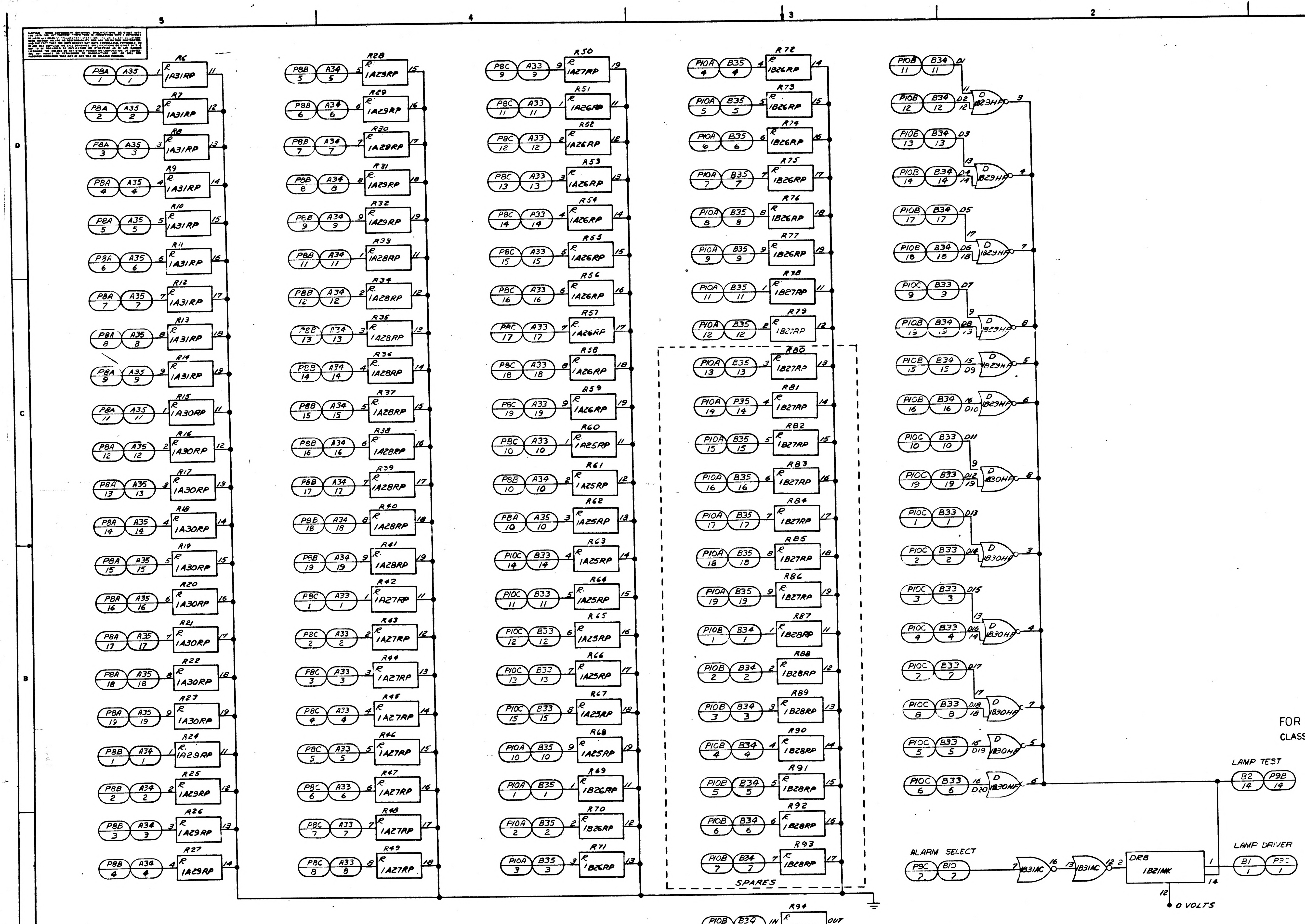
1014390

INCHES
PHOTOGRAPHIC SCALE ONLY

F-2

1014390

SYM	REVISIONS DESCRIPTION
—	CL B RELEASED PER TDRR



R6 1A31RP
R7 1A31RP
R8 1A31RP
R9 1A31RP
R10 1A31RP
R11 1A31RP
R12 1A31RP
R13 1A31RP
R14 1A31RP
R15 1A30RP
R16 1A30RP
R17 1A30RP
R18 1A30RP
R19 1A30RP
R20 1A30RP
R21 1A30RP
R22 1A30RP
R23 1A30RP
R24 1A29RP
R25 1A29RP
R26 1A29RP
R27 1A29RP
R28 1A29RP
R29 1A29RP
R30 1A29RP
R31 1A29RP
R32 1A29RP
R33 1A28RP
R34 1A28RP
R35 1A28RP
R36 1A28RP
R37 1A28RP
R38 1A28RP
R39 1A28RP
R40 1A28RP
R41 1A28RP
R42 1A27RP
R43 1A27RP
R44 1A27RP
R45 1A27RP
R46 1A27RP
R47 1A27RP
R48 1A27RP
R49 1A27RP
R50 1A27RP
R51 1A26RP
R52 1A26RP
R53 1A26RP
R54 1A26RP
R55 1A26RP
R56 1A26RP
R57 1A26RP
R58 1A26RP
R59 1A26RP
R60 1A25RP
R61 1A25RP
R62 1A25RP
R63 1A25RP
R64 1A25RP
R65 1A25RP
R66 1A25RP
R67 1A25RP
R68 1A25RP
R69 1B26RP
R70 1B26RP
R71 1B26RP
R72 1B26RP
R73 1B26RP
R74 1B26RP
R75 1B26RP
R76 1B26RP
R77 1B26RP
R78 1B27RP
R79 1B27RP
R80 1B27RP
R81 1B27RP
R82 1B27RP
R83 1B27RP
R84 1B27RP
R85 1B27RP
R86 1B27RP
R87 1B28RP
R88 1B28RP
R89 1B28RP
R90 1B28RP
R91 1B28RP
R92 1B28RP
R93 1B28RP
SPARES
R94 1B28RP IN OUT
R95 1B28RP IN OUT
+10VDC
P8A A35
P8B A34
P8C A33
P10A B35
P10B B34
P10C B33
D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18 D19 D20
D 1B29HF
D 1B30HF
LAMP TEST
B2 14 P9B 14
ALARM SELECT
P9C 7 B10 7
1B31AC
1B31AC
DRB 1B21MK
LAMP DRIVER
B1 1 P9C 1
0 VOLTS

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02386 DAT

	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

QTY REQD	PART OR IDENTIFYING NO

LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN B.C. DATE 30 APR 63
CHECKED
APPROVAL C. Sterling 10/4/61
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPA
HOUST

LOGIC
COMPUTER
(SYSTEM

CODE IDENT NO —
SIZE J
SCALE NONE
WT

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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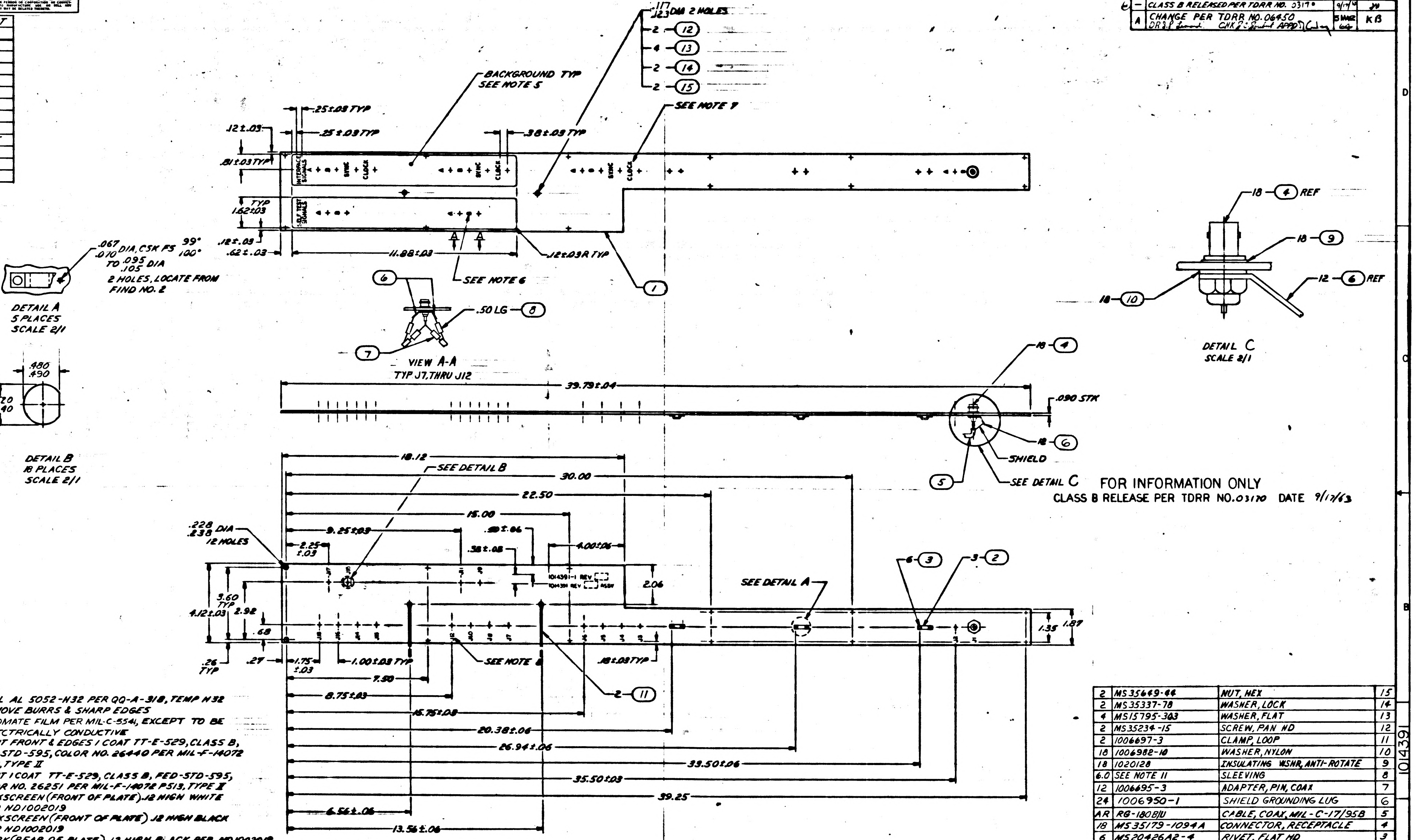
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 03170	9/17/63	JW
A	CHANGE PER TDRR NO. 06450 DR J.P. Leonard CHK J.C. Goubert APPD	5 MAR 64	KB

JUMPER LIST	
FROM	TO
J1	J9
J2	J11
J3	J7
J4	J8
J5	J10
J6	J12
J7	J13
J8	J14
J9	J15
J10	J16
J11	J17
J12	J18


.117/.123 DIA 2 HOLES
2 — 12
4 — 13
2 — 14
2 — 15
BACKGROUND TYP SEE NOTE 5
SEE NOTE 7
.25±.03 TYP
.25±.03 TYP
.38±.03 TYP
.12±.03
.81±.03 TYP
TYP 1.62±.03
.12±.03
.62±.03
11.88±.03
.12±.03 R TYP
SEE NOTE 6
INTERFACE SIGNALS
SYNC
CLOCK
SELF TEST SIGNALS
A A
1
.067/.070 DIA, CSK FS 99°/100° TO .095/.105 DIA 2 HOLES, LOCATE FROM FIND NO. 2
DETAIL A 5 PLACES SCALE 2/1
6
.50 LG — 8
7
VIEW A-A TYP J7, THRU J12
.480/.490
.520/.540
DETAIL B 18 PLACES SCALE 2/1
18 — 4 REF
18 — 9
18 — 10
12 — 6 REF
DETAIL C SCALE 2/1
39.79±.04
.090 STK
18 — 4
18 — 6
SHIELD
5
SEE DETAIL C
18.12
SEE DETAIL B
30.00
22.50
15.00
9.25±.03
.80±.06
.58±.06
4.00±.06
2.25±.03
.228/.238 DIA 12 HOLES
1014391-1 REV
1014391 REV ASSY
2.06
SEE DETAIL A
6 — 3
3 — 2
3.60 TYP
4.12±.03
2.92
.68
.26 TYP
.27
1.35
1.87
1.75±.03
1.00±.03 TYP
SEE NOTE 8
.18±.03 TYP
7.50
2 — 11
8.75±.03
15.75±.03
20.38±.06
26.94±.06
33.50±.06
35.50±.03
39.25
6.56±.06
13.56±.06

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03170 DATE 9/17/63

NOTES
1. MATL AL 5052-H32 PER QQ-A-318, TEMP H32
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE FILM PER MIL-C-5541, EXCEPT TO BE ELECTRICALLY CONDUCTIVE
4. PAINT FRONT & EDGES 1 COAT TT-E-529, CLASS B, FED-STD-595, COLOR NO. 26440 PER MIL-F-14072 P513, TYPE II
5. PAINT 1 COAT TT-E-529, CLASS B, FED-STD-595, COLOR NO. 26251 PER MIL-F-14072 P513, TYPE II
6. SILKSCREEN (FRONT OF PLATE) .12 HIGH WHITE PER ND1002019
7. SILKSCREEN (FRONT OF PLATE) .12 HIGH BLACK PER ND1002019
8. MARK (REAR OF PLATE) .12 HIGH BLACK PER ND1002019
9. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
10. WIRE PER ND1002032
11. MIL-I-23053, CLASS 4, COLOR BLACK, FOR FIND NO. 8, SIZE 18

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
2	MS35649-44	NUT, HEX	15
2	MS35337-78	WASHER, LOCK	14
4	MS15795-303	WASHER, FLAT	13
2	MS35234-15	SCREW, PAN HD	12
2	1006697-3	CLAMP, LOOP	11
18	1006982-10	WASHER, NYLON	10
18	1020128	INSULATING WSHR, ANTI-ROTATE	9
6.0	SEE NOTE 11	SLEEVING	8
12	1006695-3	ADAPTER, PIN, COAX	7
24	1006950-1	SHIELD GROUNDING LUG	6
AR	RG-180B/U	CABLE, COAX, MIL-C-17/95B	5
18	MS35179-1094A	CONNECTOR, RECEPTACLE	4
6	MS20426A2-4	RIVET, FLAT HD	3
3	1006906-1	BRACKET, CABLE SUPPORT	2
1	1014391-1	PLATE	1

LIST OF MATERIALS

1014156		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ±.02 ANGLES ± DO NOT SCALE THIS DRAWING	RAYTHEON CO. LEXINGTON, MASS. CONTRACT NO. NAS 9-498
NEXT ASSY	USED ON	MATERIAL SEE NOTE	DRAWN P. Winfield DATE CHECKED A. Perrone 2/14/63 APPROVAL APPROVAL APPROVAL
APPLICATION		HEAT TREATMENT FINAL FINISH SEE NOTE	NASA APPROVAL MIT APPROVAL MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, CONNECTOR
ASSEMBLY

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	F	1014391
SCALE 1/2	WT	SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014391

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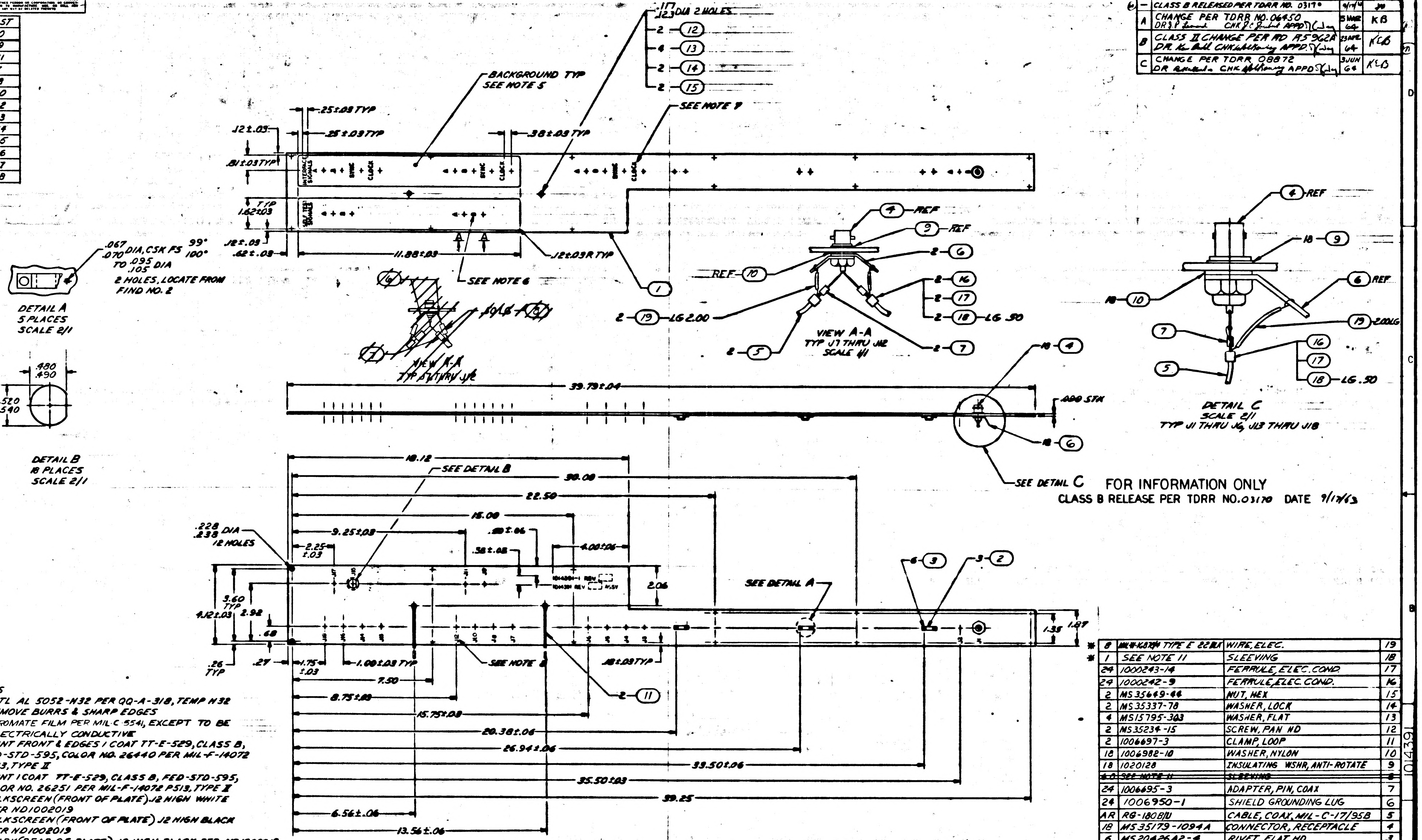
JUMPER LIST	
FROM	TO
J1	J9
J2	J11
J3	J7
J4	J8
J5	J10
J6	J12
J7	J13
J8	J14
J9	J15
J10	J16
J11	J17
J12	J18


.117
.123 DIA 2 HOLES
2 – 12
4 – 13
2 – 14
2 – 15
BACKGROUND TYP
SEE NOTE 5
SEE NOTE 7
.25±.03 TYP
.25±.03 TYP
.38±.03 TYP
.12±.03
.81±.03 TYP
TYP
1.62±.03
.12±.03
.62±.03
11.88±.03
.12±.03 R TYP
SEE NOTE 6
INTERFACE SIGNALS
SYNC
CLOCK
SELF TEST SIGNALS
A
1
.067
.070 DIA, CSK FS 99° 100°
TO .095 .105 DIA
2 HOLES, LOCATE FROM FIND NO. 2
DETAIL A
5 PLACES
SCALE 2/1
.480
.490
.520
.540
DETAIL B
18 PLACES
SCALE 2/1
VIEW A-A
TYP J1 THRU J12
REF – 10
4 – REF
9 – REF
2 – 6
2 – 16
2 – 17
2 – 18 – LG .50
2 – 19 – LG 2.00
2 – 5
2 – 7
VIEW A-A
TYP J7 THRU J12
SCALE 1/1
4 – REF
18 – 9
18 – 10
6 – REF
19 – 2.00 LG
7
16
17
18 – LG .50
5
DETAIL C
SCALE 2/1
TYP J1 THRU J6, J13 THRU J18
39.79±.04
.090 STK
18 – 4
18 – 6
SEE DETAIL C
18.12
SEE DETAIL B
30.00
22.50
15.00
9.25±.03
.50±.06
.38±.08
4.00±.06
2.25
±.03
.228
.238 DIA
12 HOLES
1014391-1 REV
1014391 REV ASSY
2.06
3.60
TYP
4.12±.03
2.92
.68
.26
TYP
.27
1.75
±.03
1.00±.03 TYP
SEE NOTE 8
.18±.03 TYP
7.50
8.75±.03
15.75±.03
20.38±.06
26.94±.06
33.50±.06
35.50±.03
39.25
6.56±.06
13.56±.06
2 – 11
SEE DETAIL A
6 – 3
3 – 2
1.35
1.87
J17
J15
J18
J16
J14
J13
J12
J11
J10
J9
J8
J7
J6
J5
J4
J3
J2
J1

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03170 DATE 9/17/63

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 03170	9/17/63	JW
A	CHANGE PER TDRR NO. 06450 DR J.P. Leonard CHK J.C. [illegible] APPD [illegible]	5 MAR 64	KB
B	CLASS II CHANGE PER MD R5962A DR. Ken Bell CHK [illegible] APPD. [illegible]	23 APR 64	KEB
C	CHANGE PER TDRR 08872 DR [illegible] CHK [illegible] APPD [illegible]	3 JUN 64	KEB

NOTES
1. MATL AL 5052-H32 PER QQ-A-318, TEMP H32
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE FILM PER MIL-C-5541, EXCEPT TO BE ELECTRICALLY CONDUCTIVE
4. PAINT FRONT & EDGES 1 COAT TT-E-529, CLASS B, FED-STD-595, COLOR NO. 26440 PER MIL-F-14072 P513, TYPE II
5. PAINT 1 COAT TT-E-529, CLASS B, FED-STD-595, COLOR NO. 26251 PER MIL-F-14072 P513, TYPE II
6. SILKSCREEN (FRONT OF PLATE) .12 HIGH WHITE PER ND1002019
7. SILKSCREEN (FRONT OF PLATE) .12 HIGH BLACK PER ND1002019
8. MARK (REAR OF PLATE) .12 HIGH BLACK PER ND1002019
9. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
10. WIRE PER ND1002032
11. MIL-I-23053, CLASS 1, COLOR BLACK, FOR FIND NO. 18, SIZE NO. 4

	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
*	8	MIL-W-16878/4 TYPE E 22 BLK	WIRE, ELEC.	19
*	1	SEE NOTE 11	SLEEVING	18
	24	1000243-14	FERRULE, ELEC. COND.	17
	24	1000242-9	FERRULE, ELEC. COND.	16
	2	MS35649-44	NUT, HEX	15
	2	MS35337-78	WASHER, LOCK	14
	4	MS15795-303	WASHER, FLAT	13
	2	MS35234-15	SCREW, PAN HD	12
	2	1006697-3	CLAMP, LOOP	11
	18	1006982-10	WASHER, NYLON	10
	18	1020128	INSULATING WSHR, ANTI-ROTATE	9
	~~4.0~~	~~SEE NOTE 11~~	~~SLEEVING~~	~~8~~
	24	1006695-3	ADAPTER, PIN, COAX	7
	24	1006950-1	SHIELD GROUNDING LUG	6
	AR	RG-180B/U	CABLE, COAX, MIL-C-17/95B	5
	18	MS35179-1094A	CONNECTOR, RECEPTACLE	4
	6	MS20426A2-4	RIVET, FLAT HD	3
	3	1006906-1	BRACKET, CABLE SUPPORT	2
	1	1014391-1	PLATE	1

LIST OF MATERIALS

* INDICATES LENGTH IN FEET

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS9-498
DRAWN P. Winfield DATE [illegible]
CHECKED R. Breeme [illegible]
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL Jack Barnard
MIT APPROVAL [illegible] 9/17/63
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, CONNECTOR
ASSEMBLY

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014391
SCALE 1/2
WT
SHEET 1 OF 1

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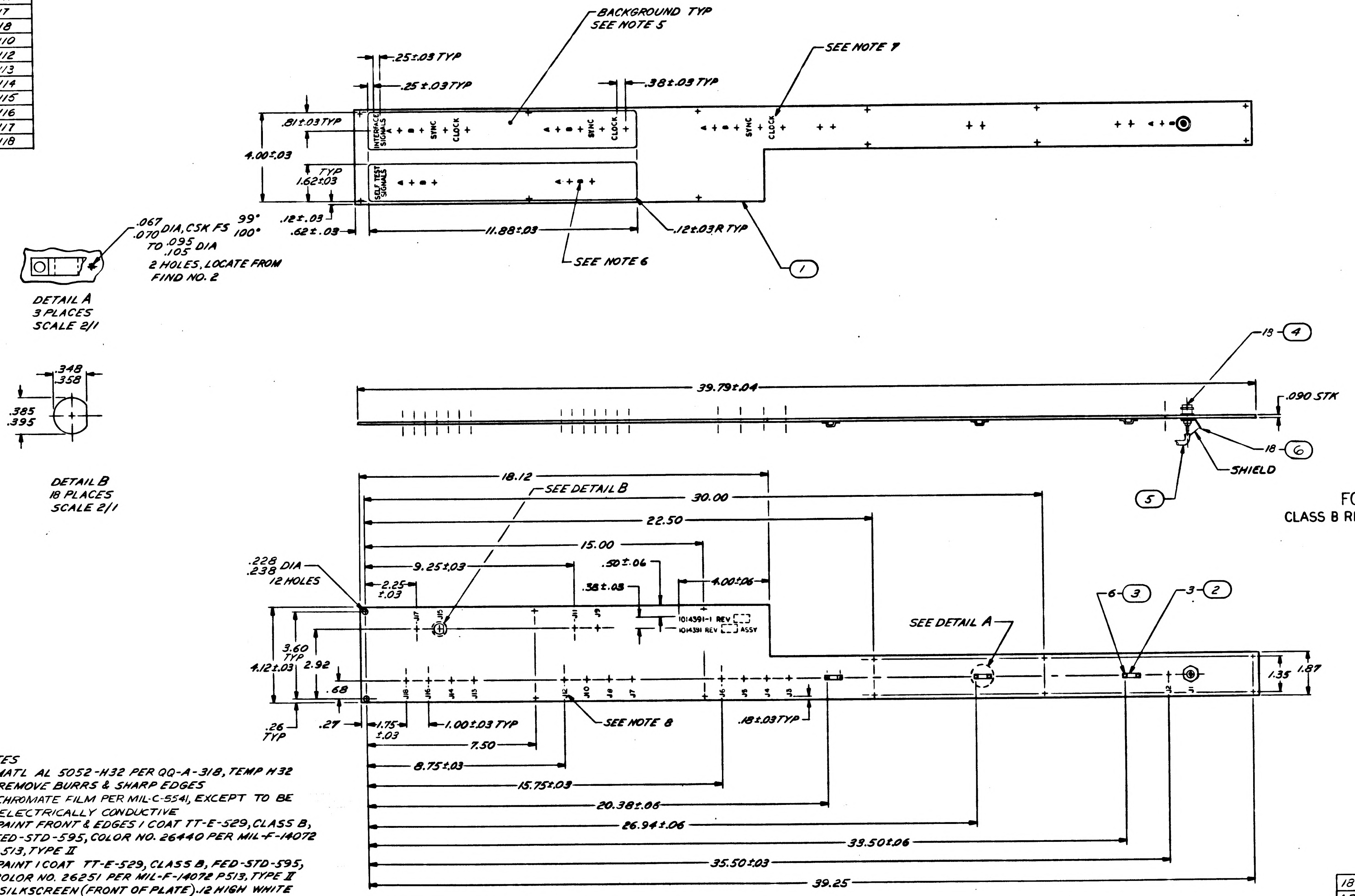
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 03170	9/17/63	[illegible]

JUMPER LIST

FROM	TO
J1	J9
J2	J11
J3	J7
J4	J8
J5	J10
J6	J12
J7	J13
J8	J14
J9	J15
J10	J16
J11	J17
J12	J18


BACKGROUND TYP
SEE NOTE 5
SEE NOTE 7
.25±.03 TYP
.25±.03 TYP
.38±.03 TYP
.81±.03 TYP
4.00±.03
TYP
1.62±.03
.12±.03
.62±.03
11.88±.03
.12±.03R TYP
SEE NOTE 6
1
INTERFACE SIGNALS
SYNC
CLOCK
SELF TEST SIGNALS
.067 .070 DIA, CSK FS 99° 100° TO .095 .105 DIA
2 HOLES, LOCATE FROM FIND NO. 2
DETAIL A
3 PLACES
SCALE 2/1
.348 .358
.385 .395
DETAIL B
18 PLACES
SCALE 2/1
18 4
39.79±.04
.090 STK
18 6
SHIELD
5
18.12
SEE DETAIL B
30.00
22.50
15.00
9.25±.03
.50±.06
.38±.03
4.00±.06
2.25 ±.03
.228 .238 DIA
12 HOLES
1014391-1 REV
1014391 REV ASSY
SEE DETAIL A
6 3
3 2
3.60 TYP
4.12±.03
2.92
.68
.26 TYP
.27
1.75 ±.03
1.00±.03 TYP
SEE NOTE 8
.18±.03 TYP
1.35
1.87
7.50
8.75±.03
15.75±.03
20.38±.06
26.94±.06
33.50±.06
35.50±.03
39.25
J1 J2 J3 J4 J5 J6 J7 J8 J9 J10 J11 J12 J13 J14 J15 J16 J17 J18

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03170 DATE 9/17/63

NOTES
1. MATL AL 5052-H32 PER QQ-A-318, TEMP H32
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE FILM PER MIL-C-5541, EXCEPT TO BE ELECTRICALLY CONDUCTIVE
4. PAINT FRONT & EDGES 1 COAT TT-E-529, CLASS B, FED-STD-595, COLOR NO. 26440 PER MIL-F-14072 P513, TYPE II
5. PAINT 1 COAT TT-E-529, CLASS B, FED-STD-595, COLOR NO. 26251 PER MIL-F-14072 P513, TYPE II
6. SILKSCREEN (FRONT OF PLATE) .12 HIGH WHITE PER ND1002019
7. SILKSCREEN (FRONT OF PLATE) .12 HIGH BLACK PER ND1002019
8. MARK (REAR OF PLATE) .12 HIGH BLACK PER ND1002019
9. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
10. WIRE PER ND1002032

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
18	1006950	SHIELD GROUNDING LUG	6
AR	RG 58C/U	CABLE, COAX, MIL-C-17/28	5
18	MS 35179-1094A	CONNECTOR, RECEPTACLE	4
6	MS 20426A2-4	RIVET, FLAT HD	3
3	1006906-1	BRACKET, CABLE SUPPORT	2
1	1014391-1	PLATE	1

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE [illegible]
CHECKED A. Perrone 2/14/63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 9/17/63
MIT APPROVAL 9/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, CONNECTOR
ASSEMBLY

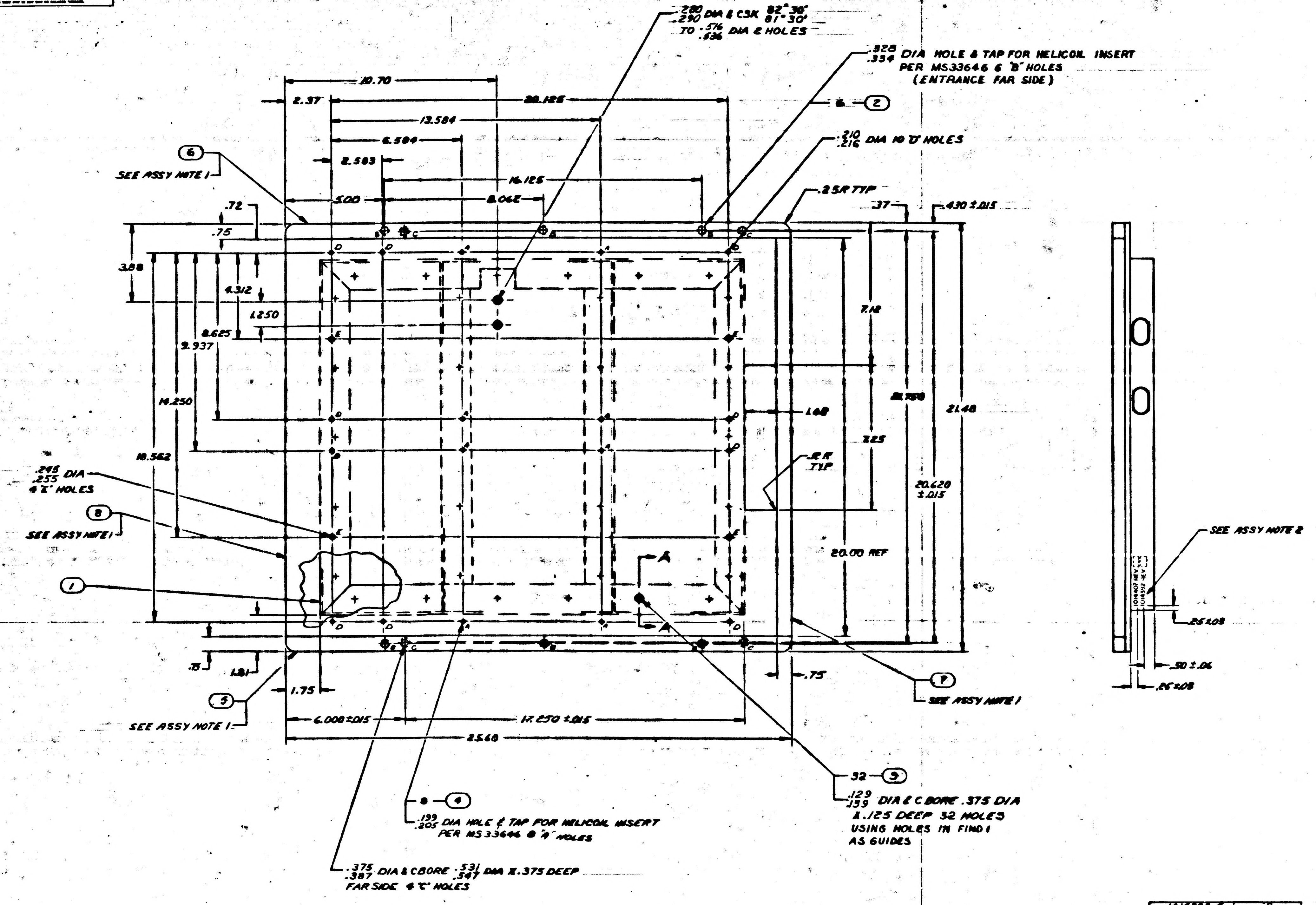
CODE IDENT NO. —
SIZE F
NASA DRAWING NO 1014391
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASED PER TDRR NO.		
A	CLASS II CHANGE PER RDR 5666 DR FWP CHK		
B	CHANGED PER TDRR 08125 DR W. Brown CHK. G.G.C. APPD	12 NOV 64	

REVISIONS

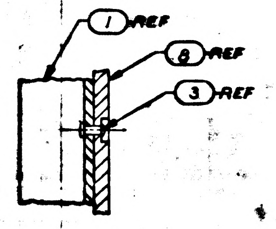


.280 .290 DIA & CSK 82° 38' 81° 30' TO .516 .536 DIA 2 HOLES
.328 .334 DIA HOLE & TAP FOR HELICOIL INSERT PER MS33646 6 "B" HOLES (ENTRANCE FAR SIDE)
.210 .216 DIA 10 "D" HOLES
.25R TYP
10.70
2.37
20.125
13.584
6.584
2.583
16.125
5.00
8.062
.72
.75
.37
.430 ±.015
3.88
4.312
1.250
8.625
9.937
14.250
18.562
7.12
1.68
3.25
.12 R TYP
21.48
20.620 ±.015
21.750
20.00 REF
.245 .255 DIA 4 "E" HOLES
SEE ASSY NOTE 1
SEE ASSY NOTE 2
.25±.03
.50±.06
.56±.03
.75
1.81
1.75
.75
6.000±.015
17.250±.015
25.60
32
.129 .139 DIA & C BORE .375 DIA X .125 DEEP 32 HOLES USING HOLES IN FIND 1 AS GUIDES
8
.199 .205 DIA HOLE & TAP FOR HELICOIL INSERT PER MS33646 8 "A" HOLES
.375 .387 DIA & CBORE .531 .547 DIA X .375 DEEP FAR SIDE 4 "C" HOLES
A
A
1
2
3
4
5
6
7
8

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04307 DATE 11/30/62

PART NO.	REV SYM
1014392-4	B
1014392-3	B
1014392-2	B
1014392-1	B

REVISION STATUS OF PARTS



1 REF
8 REF
3 REF

SECTION A-A
32 PLACES
SCALE 1/1

(5)(6)(7)
NOTES
1. MATL: 625 THK BLACK PHENOLIC TYPE FBE PER MIL-P-15035
2. REMOVE BURRS AND SHARP EDGES

(8)
NOTES
1. MATL: 250 THK BLACK PHENOLIC TYPE FBE PER MIL-P-15035
2. REMOVE BURRS AND SHARP EDGES

ASSY NOTES
1. BOND FIND NO. 5,6,7&8 PER ND1002004 TYPE I USING FIND NO. 9 & 10
2. MARK .12 HIGH BLACK CHARACTERS PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	1010683	CURING AGENT	10
AR	1010682	EPOXY RESIN	9
1	1014392-4	PLATFORM	8
1	1014392-3	STRIP, REAR	7
1	1014392-2	STRIP, LH	6
1	1014332-1	STRIP, RH	5
8	MS21209-C1-15	INSERT	4
32	MS20470AD4-7	RIVET, UNIV. HD	3
6	MS21209C5-15	INSERT	2
1	1019407	FRAME, HANDLING FIXTURE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1020001	1020018

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 .005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED W. 4 OCT 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
NASA APPROVAL
NASA APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATFORM ASSEMBLY
HANDLING FIXTURE

CODE IDENT NO. ——
SIZE J
NASA DRAWING NO. 1014392
SCALE 1/2
SHEET 1 OF 1

1014392

1014392

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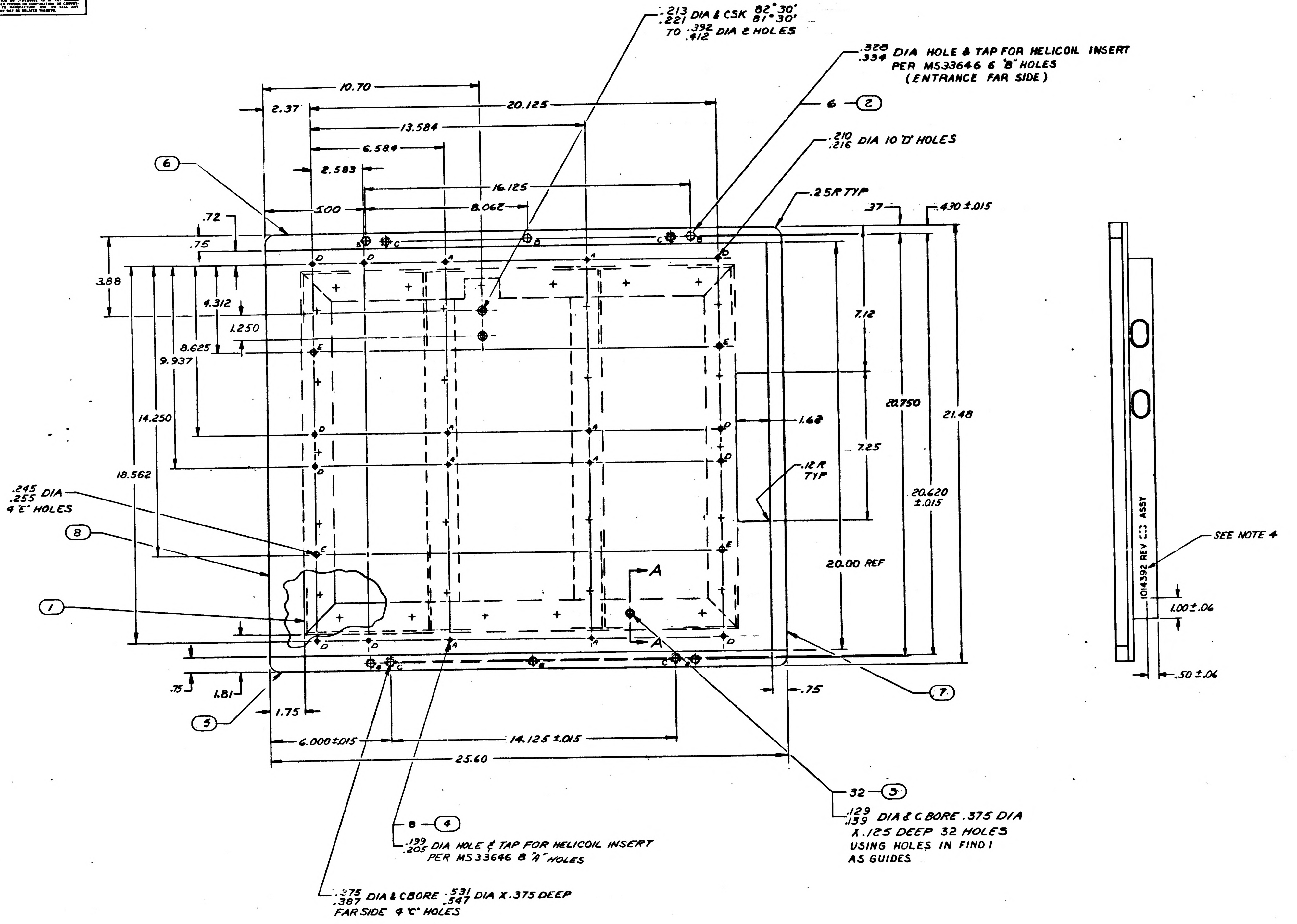
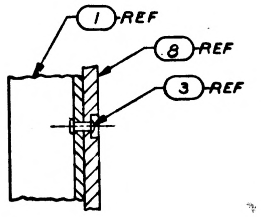
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASED PER TDRR NO.		



.213 / .221 DIA & CSK 82° 30' / 81° 30' TO .392 / .412 DIA 2 HOLES
.328 / .334 DIA HOLE & TAP FOR HELICOIL INSERT PER MS33646 6 "B" HOLES (ENTRANCE FAR SIDE)
6 — 2
.210 / .216 DIA 10 "D" HOLES
.25R TYP
.37
.430 ±.015
10.70
2.37
20.125
13.584
6.584
2.583
16.125
.500
8.062
6
.72
.75
3.88
4.312
1.250
8.625
9.937
14.250
18.562
.245 / .255 DIA 4 "E" HOLES
8
1
7.12
20.750
21.48
1.62
7.25
.12R TYP
20.620 ±.015
20.00 REF
A
A
.75
1.81
5
1.75
6.000±.015
14.125 ±.015
25.60
.75
7
1014392 REV [ ] ASSY
SEE NOTE 4
1.00±.06
.50±.06
8 — 4
.199 / .205 DIA HOLE & TAP FOR HELICOIL INSERT PER MS33646 8 "A" HOLES
32 — 3
.129 / .139 DIA & C BORE .375 DIA X .125 DEEP 32 HOLES USING HOLES IN FIND 1 AS GUIDES
.375 / .387 DIA & CBORE .531 / .547 DIA X .375 DEEP FAR SIDE 4 "C" HOLES

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04307 DATE 10/30/63



1 REF
8 REF
3 REF

SECTION A-A
32 PLACES
SCALE 1/1

⑤⑥⑦
NOTES
1. MATL: 625 THK BLACK PHENOLIC TYPE FBE PER MIL-P-15035
2. REMOVE BURRS AND SHARP EDGES

⑧
NOTES
1. MATL: 250 THK BLACK PHENOLIC TYPE FBE PER MIL-P-15035
2. REMOVE BURRS AND SHARP EDGES

ASSY NOTES

1. BOND FIND NO. 5,6,7&8 PER ND1002004
2. MARK .12 HIGH BLACK CHARACTERS PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014392-4	PLATFORM	8
1	1014392-3	STRIP, REAR	7
1	1014392-2	STRIP, LH	6
1	1014392-1	STRIP, RH	5
8	MS21209-C1-15	INSERT	4
32	MS20470AD4-7	RIVET, UNIV HD	3
6	MS21209C5-15	INSERT	2
1	1019407	FRAME HANDLING FIXTURE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1020001	1020018

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 .005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN CO McKenzie DATE 18 JUL 63
CHECKED W. J. Gifford 4 OCT 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

PLATFORM ASSEMBLY
HANDLING FIXTURE

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014392
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014392

1014392

INCHES
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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 04137	10/24/63	WK
A	CHANGED PER TDRR NO. 06330 DR R Di Glu CHK A. Caggiano APPD	25FEB 64	3/10/64 WK

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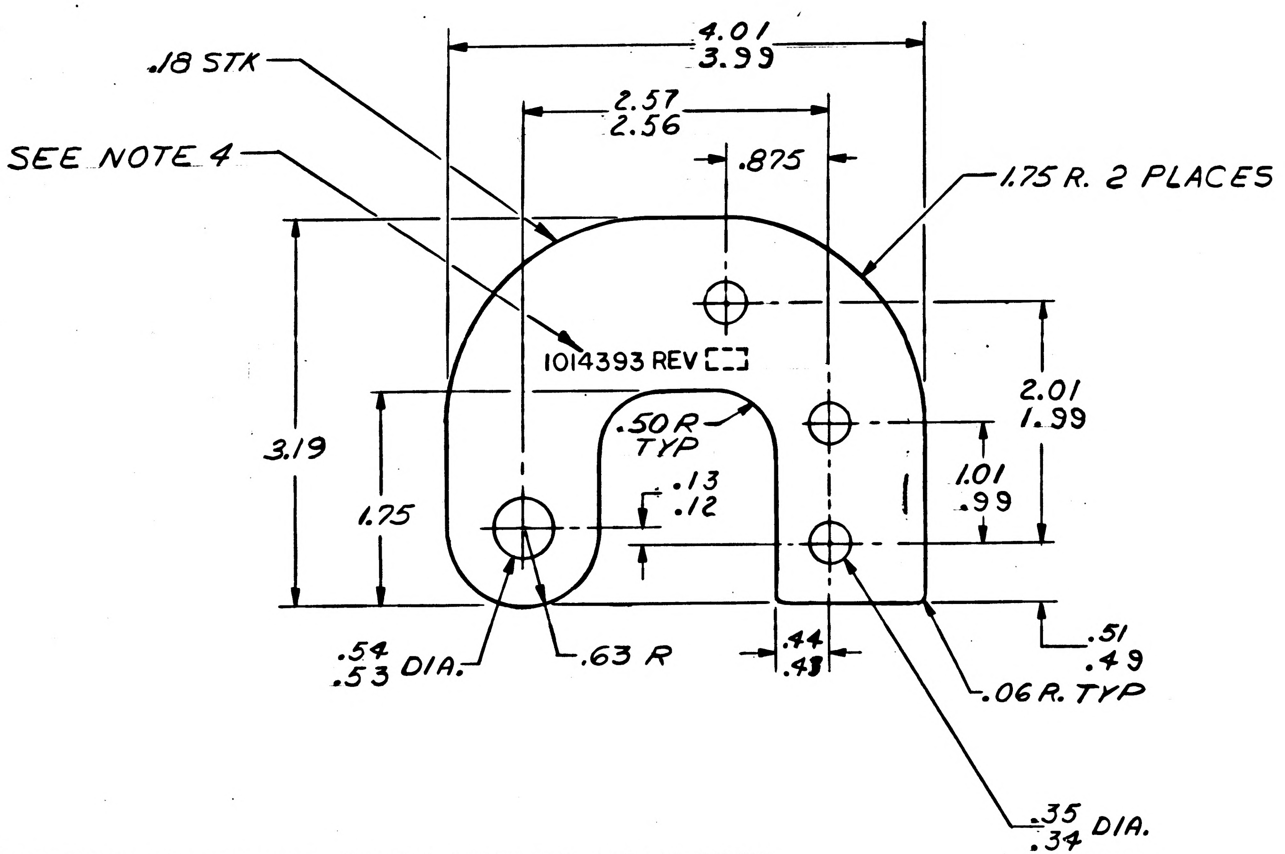

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 04137 DATE 10/24/63

NOTES:

1. MATERIAL: BRASS 65-35 YELLOW HALF HARD PER QQ-B-626
2. FINISH- CADMIUM PLATE PER QQ-P-416, TYPE II
3. BREAK SHARP EDGES .005/.015
4. MARK .12 HIGH BLACK PER ND 1002019 APPROX. AS SHOWN

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 .02 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

1014468	1014465
NEXT ASSY	USED ON

APPLICATION

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

DRAWN A. Hutchinson DATE 5-24-63
CHECKED A.J. Mannaro 30 SEP 63
APPROVAL E. Sparling
APPROVAL
APPROVAL 10/4/63
NASA APPROVAL 10/24/63
MIT APPROVAL W. Yuffer 24 OCT 63
MIT APPROVAL 10/-/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HINGE
CTS/AGC OPERATION CONSOLE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014393
SCALE 1/1
WT -
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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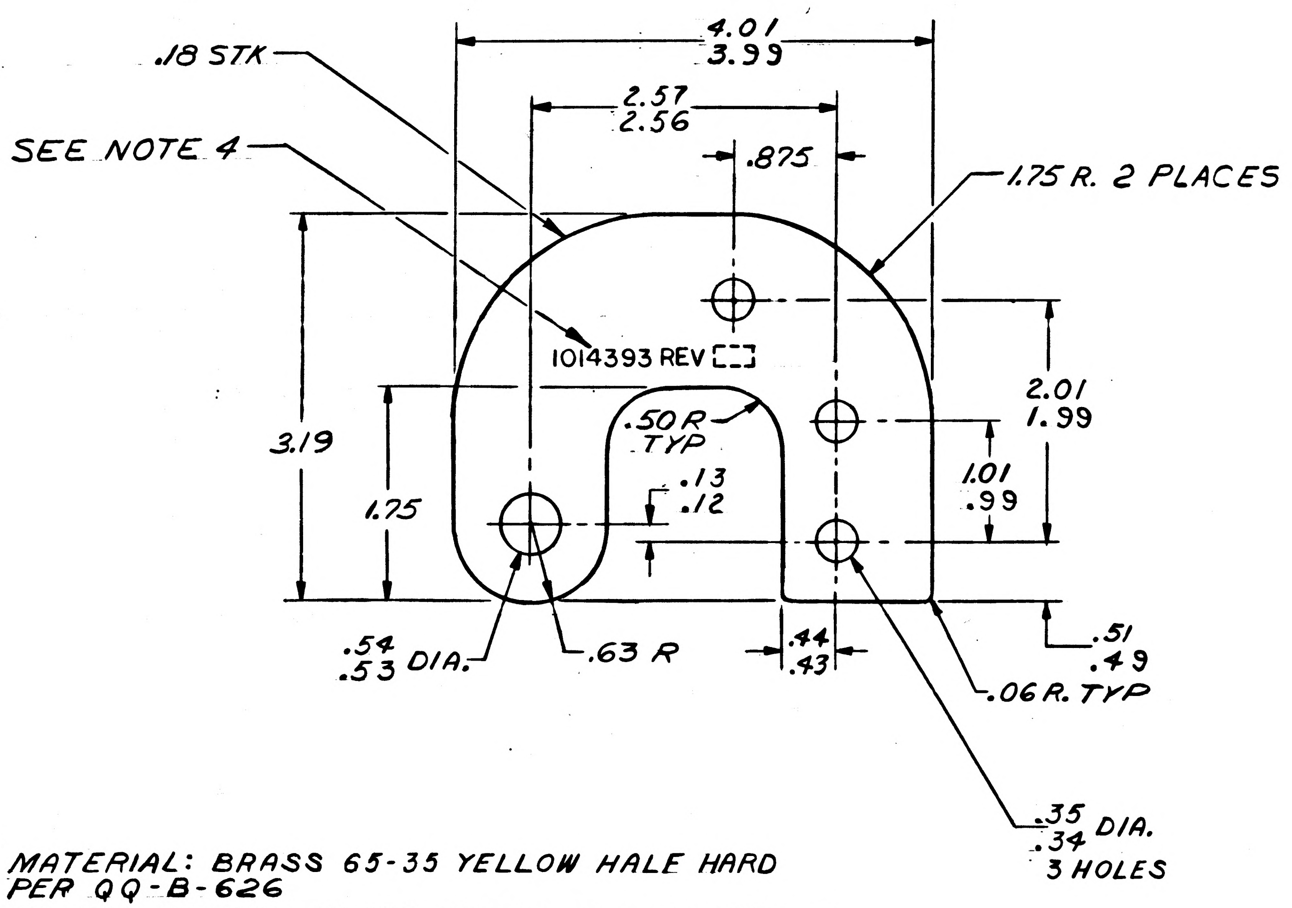
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 04137	10/24/63	WH



NOTES:
1. MATERIAL: BRASS 65-35 YELLOW HALF HARD PER QQ-B-626
2. FINISH - CADMIUM PLATE PER QQ-P-416, TYPE II
3. BREAK SHARP EDGES .005/.015
4. MARK .12 HIGH BLACK PER ND 1002019 APPROX. AS SHOWN

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 04137 DATE 10/24/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MASTER

1014465	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 .02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN A. Hutcheson DATE 5-20-63
CHECKED A. J. Mannano 30 SEP 63
APPROVAL C. Sperling JFK
APPROVAL
APPROVAL J. P. Pennington 4/4/63
NASA APPROVAL 10/24/63
MIT APPROVAL W. Kupfer 24 OCT 63
MIT APPROVAL 10/ /63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HINGE
CTS/AGC OPERATION CONSOLE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014393
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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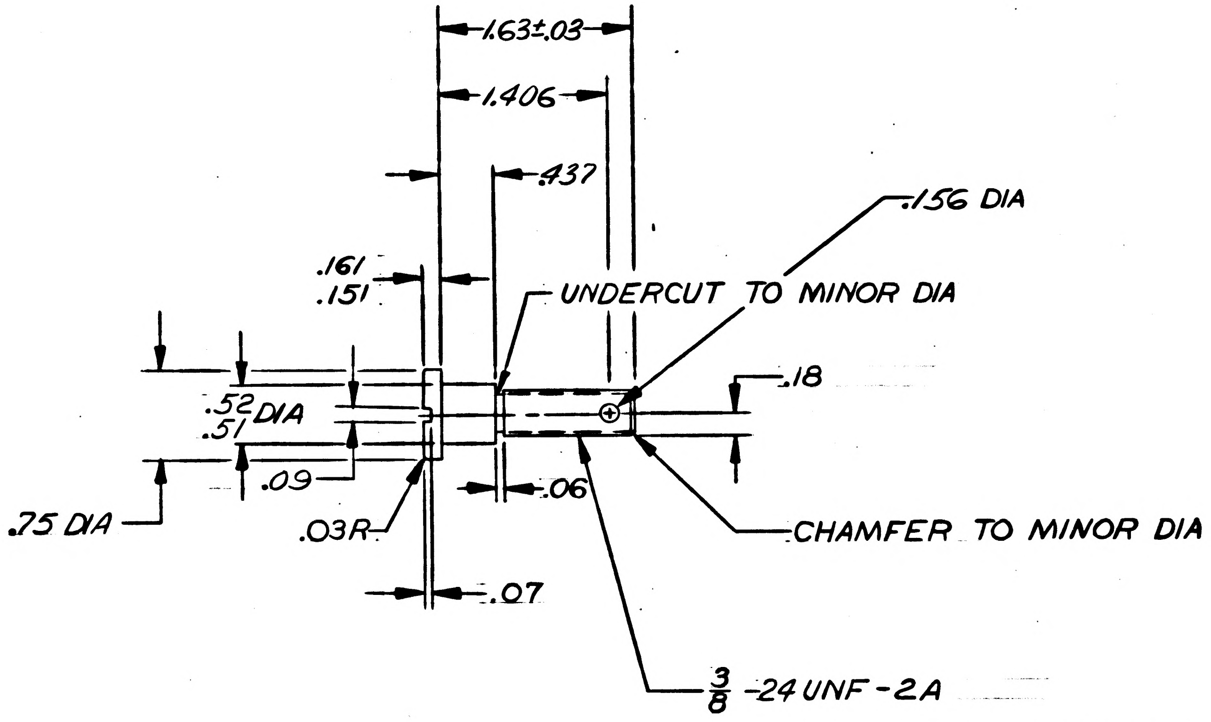
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04137	10/24/63	WK



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 04137 DATE 10/24/63

NOTES:
1. MATL: CRES PER QQ-S-763 CLASS 302 COND A
2. FINISH: PASSIVATE PER FIN NO 5.4 OF MIL-STD-171
3. IDENTIFY PER ND 1002019

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014465	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN B. Parker DATE 24 June
CHECKED A.J. Marinaro 30 SEP 63
APPROVAL C. Sperling JRK
APPROVAL J. Yubeck
APPROVAL 10/1/63
NASA APPROVAL 10/24/63
MIT APPROVAL 24 Oct 63
MIT APPROVAL 10/24/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SCREW, SHOULDER
CTS/AGC OPERATION CONSOLE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014394
SCALE 1/1
WT
SHEET 1 OF 1

1014394

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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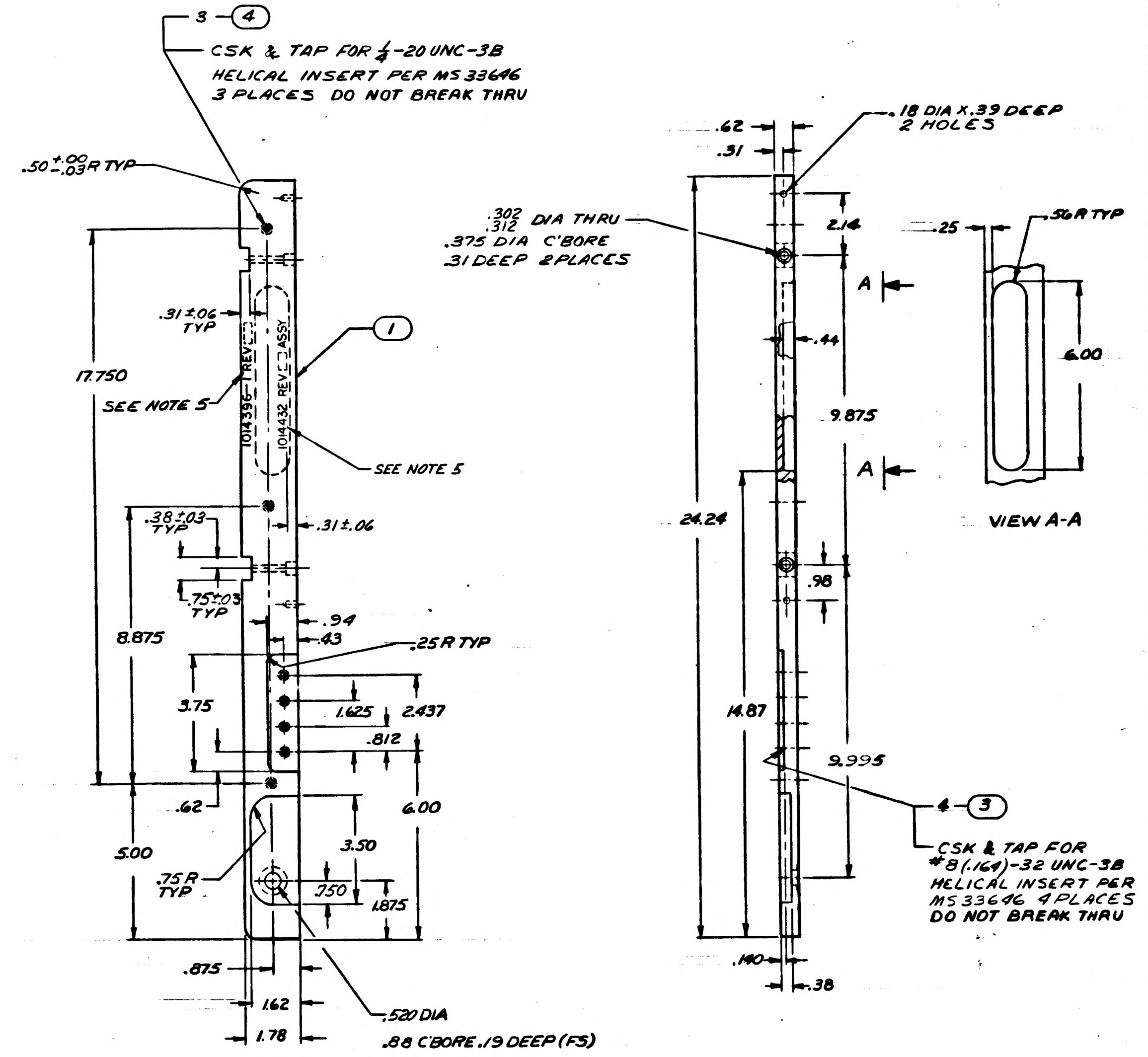
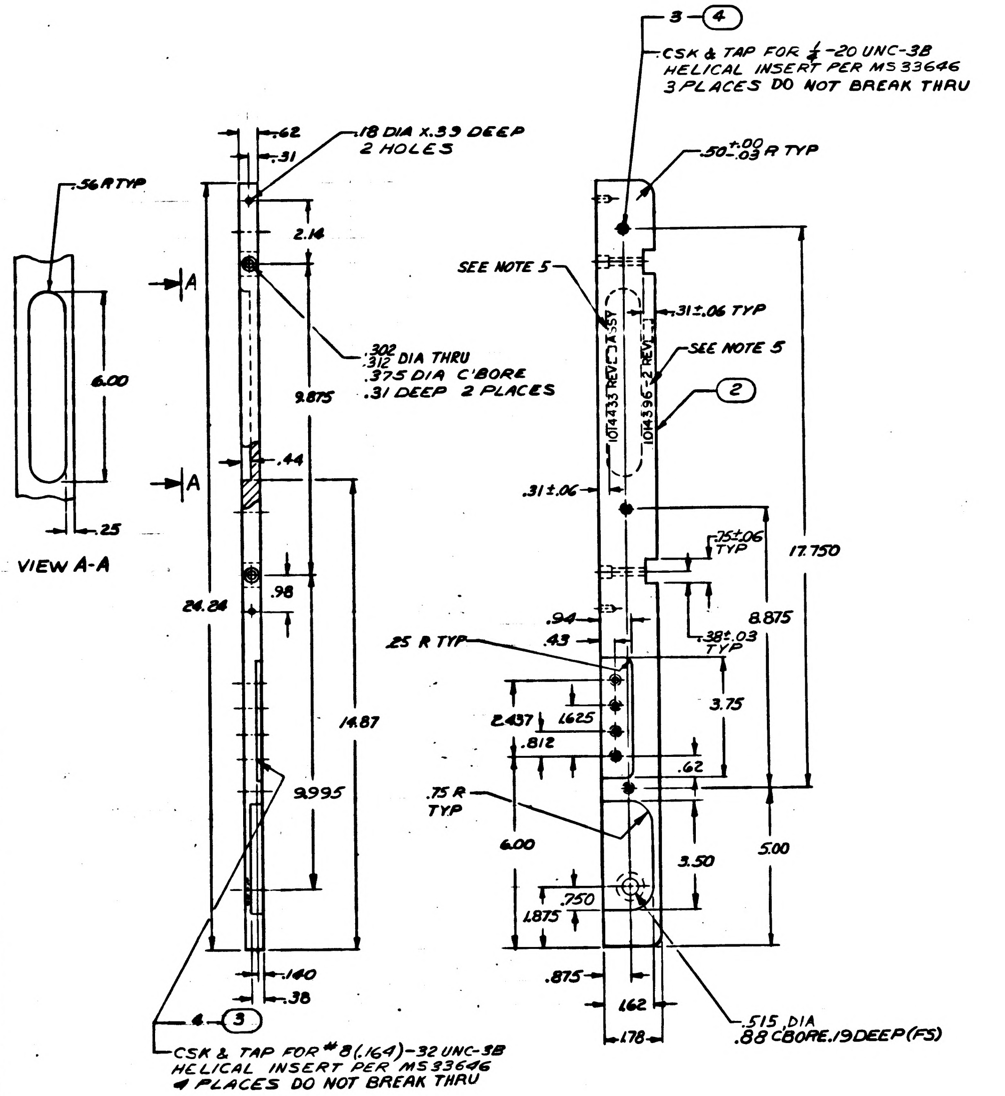
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04137	10/24/63	
A	CL II CHANGE PER RD R5623 DR CHK Marinaro APPD Conley	12/30/63	JJB
B	CHANGED PER TDRR 06331 DR C. LaCort CHK A Cuggiano APPD Conley	20 FEB 64	



3 – ④
CSK & TAP FOR 1/4-20 UNC-3B HELICAL INSERT PER MS 33646 3 PLACES DO NOT BREAK THRU
.50 +.00 −.03 R TYP
.31±.06 TYP
①
17.750
SEE NOTE 5
SEE NOTE 5
1014396-1 REV
1014432 REV ASSY
.38±.03 TYP
.31±.06
.75±.03 TYP
8.875
.94
.43
.25 R TYP
3.75
1.625
2.437
.812
.62
6.00
5.00
3.50
.75 R TYP
.750
1.875
.875
.162
1.78
.520 DIA
.88 C'BORE .19 DEEP (FS)
.62
.31
.18 DIA X.39 DEEP 2 HOLES
.302 .312 DIA THRU .375 DIA C'BORE .31 DEEP 2 PLACES
2.14
A
.44
9.875
A
24.24
.98
14.87
9.995
4 – ③
CSK & TAP FOR #8 (.164)-32 UNC-3B HELICAL INSERT PER MS 33646 4 PLACES DO NOT BREAK THRU
.140
.38
.25
.56 R TYP
6.00
VIEW A-A

HANDLE, LEFT
1014396-1

NOTES:
1. MATL: AL 6061-T6 PER QQ-A-325
2. REMOVE BURRS AND SHARP EDGES.
3. CLEAR ANODIZE PER MIL-A-8625 TYPE II
4. NUMBERS PRECEDING BALLOONS INDICATE QUANTITY
5. MARK .12 HIGH BLACK PER ND 1002019 APPROX AS SHOWN



.56 R TYP
6.00
.25
VIEW A-A
A
A
.62
.31
.18 DIA X.39 DEEP 2 HOLES
2.14
.302 .312 DIA THRU .375 DIA C'BORE .31 DEEP 2 PLACES
9.875
.44
24.84
.98
14.87
9.995
.140
.38
4 – ③
CSK & TAP FOR #8 (.164)-32 UNC-3B HELICAL INSERT PER MS 33646 4 PLACES DO NOT BREAK THRU
3 – ④
CSK & TAP FOR 1/4-20 UNC-3B HELICAL INSERT PER MS 33646 3 PLACES DO NOT BREAK THRU
.50 +.00 −.03 R TYP
SEE NOTE 5
.31±.06 TYP
SEE NOTE 5
1014433 REV ASSY
1014396-2 REV
②
.31±.06
.25±.06 TYP
17.750
.94
.43
8.875
.38±.03 TYP
.25 R TYP
2.437
1.625
3.75
.812
.62
.75 R TYP
6.00
3.50
5.00
.750
1.875
.875
.162
1.78
.515 DIA
.88 C'BORE .19 DEEP (FS)

HANDLE, RIGHT
1014396-2

NOTES:
1. MATL: AL 6061-T6 PER QQ-A-325
2. REMOVE BURRS AND SHARP EDGES
3. CLEAR ANODIZE PER MIL-A-8625 TYPE II
4. NUMBERS PRECEDING BALLOONS INDICATE QUANTITY.
5. MARK .12 HIGH BLACK PER ND 1002019 APPROX. AS SHOWN

FOR INFORMATION ONLY

CLASS B RELEASE PER TDRR NO. 04137 DATE 10/24/63

REV STATUS OF PARTS	
PART NO	REV SYM
1014396-1	B
1014396-2	B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
6	MS21209C4-15	INSERT, SCREW THREAD	4
8	MS21209C08-15	INSERT, SCREW THREAD	3
1	1014396-2	HANDLE, RIGHT	2
1	1014396-1	HANDLE, LEFT	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014433	
1014432	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 25 JUN 63
CHECKED A.J. Marinaro 30 SEP 63
APPROVAL R. Morse JPK 14 OCT 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 24 Oct 63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE
AGC/CTS OPERATION CONSOLE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014396
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014396

1014396

INCHES
PHOTOGRAPHIC SCALE ONLY

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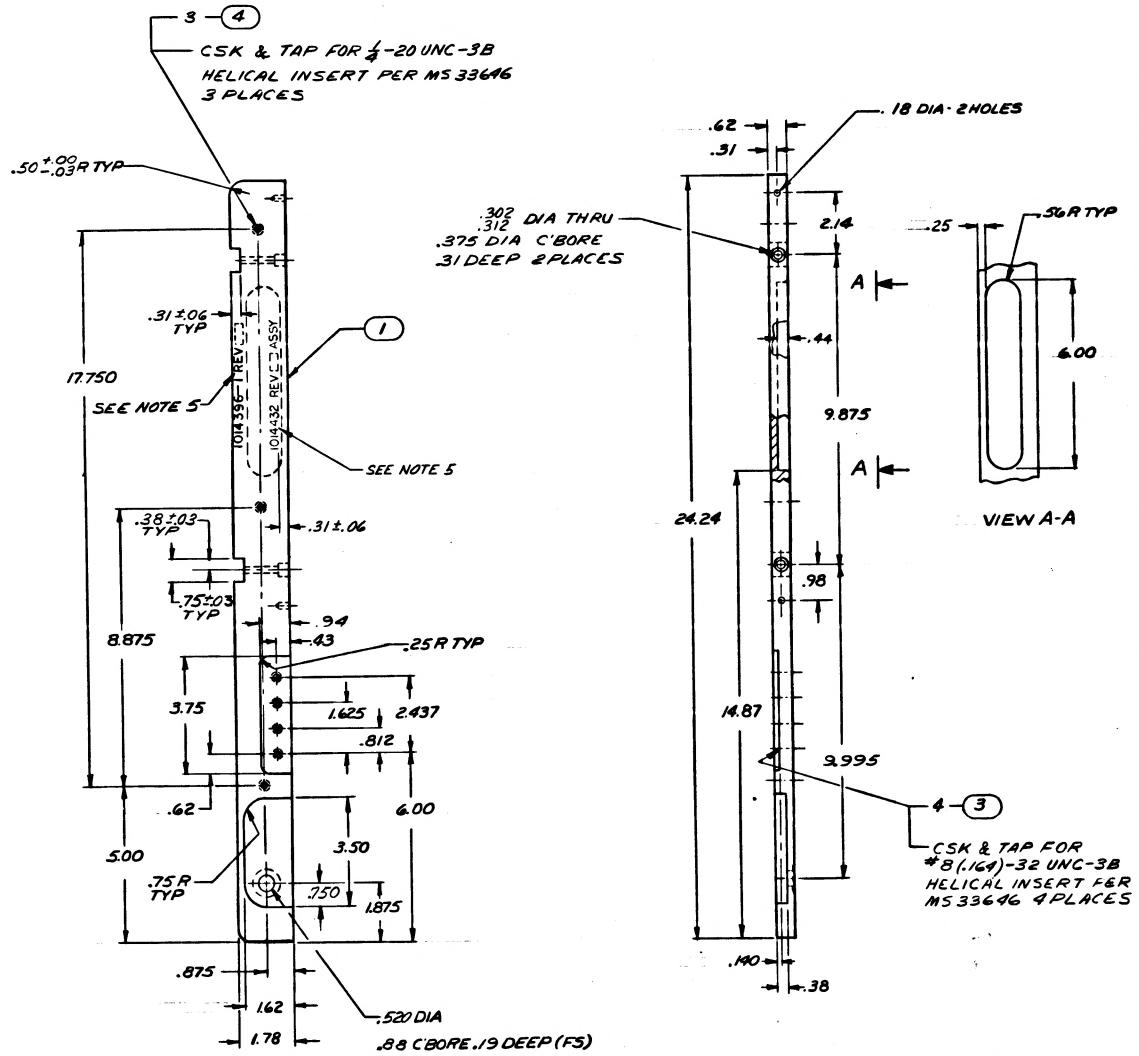
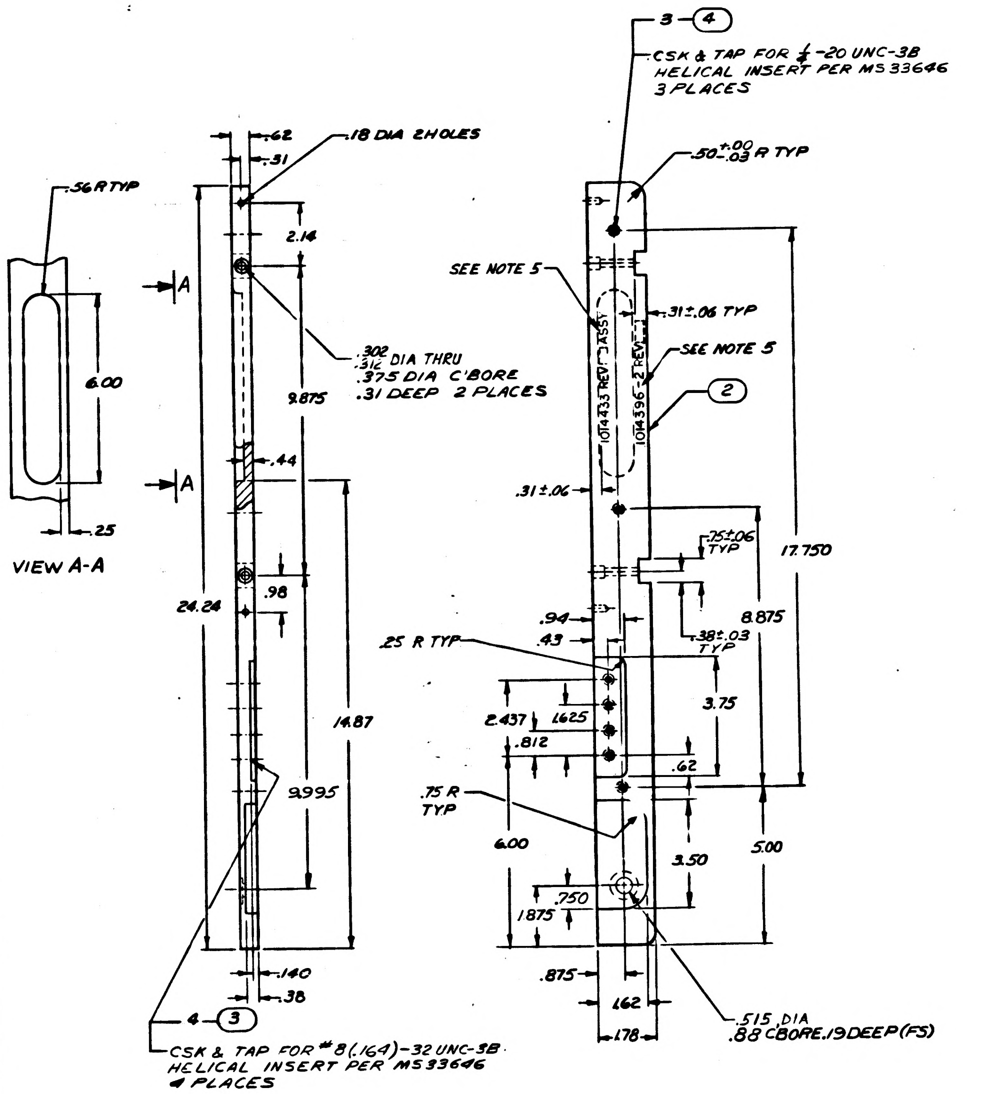
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04137	10/24/63	


3 — ④
CSK & TAP FOR 1/4-20 UNC-3B HELICAL INSERT PER MS 33646 3 PLACES
.50 +.00 -.03 R TYP
.31 ±.06 TYP
17.750
SEE NOTE 5
1014396-1 REV [ ]
1014432 REV [ ] ASSY
①
SEE NOTE 5
.38 ±.03 TYP
.31 ±.06
.75 ±.03 TYP
.94
.43
8.875
.25 R TYP
3.75
1.625
2.437
.812
.62
6.00
5.00
3.50
.75 R TYP
.750
1.875
.875
1.62
1.78
.520 DIA .88 C'BORE .19 DEEP (FS)
.302 .312 DIA THRU .375 DIA C'BORE .31 DEEP 2 PLACES
.18 DIA · 2 HOLES
.62
.31
2.14
A
.44
9.875
A
24.24
.98
14.87
9.995
4 — ③
CSK & TAP FOR #8 (.164)-32 UNC-3B HELICAL INSERT PER MS 33646 4 PLACES
.140
.38
.25
.56 R TYP
6.00
VIEW A-A

HANDLE, LEFT
1014396-1

NOTES:
1. MATL: AL 6061-T6 PER QQ-A-325
2. REMOVE BURRS AND SHARP EDGES
3. CLEAR ANODIZE PER MIL-A-8625 TYPE II
4. NUMBERS PRECEDING BALLOONS INDICATE QUANTITY
5. MARK .12 HIGH BLACK PER ND 1002019 APPROX AS SHOWN


.56 R TYP
6.00
.25
VIEW A-A
.62
.31
.18 DIA 2 HOLES
2.14
A
.302 .312 DIA THRU .375 DIA C'BORE .31 DEEP 2 PLACES
9.875
.44
A
24.24
.98
14.87
9.995
.140
.38
4 — ③
CSK & TAP FOR #8 (.164)-32 UNC-3B HELICAL INSERT PER MS 33646 4 PLACES
3 — ④
CSK & TAP FOR 1/4-20 UNC-3B HELICAL INSERT PER MS 33646 3 PLACES
.50 +.00 -.03 R TYP
SEE NOTE 5
.31 ±.06 TYP
SEE NOTE 5
1014433 REV [ ] ASSY
1014396-2 REV [ ]
②
.31 ±.06
.75 ±.06 TYP
17.750
.94
.43
8.875
.38 ±.03 TYP
.25 R TYP
3.75
2.437
1.625
.812
.62
.75 R TYP
6.00
3.50
5.00
.750
1.875
.875
1.62
1.78
.515 DIA .88 C'BORE .19 DEEP (FS)

HANDLE, RIGHT
1014396-2

NOTES:
1. MATL: AL 6061-T6 PER QQ-A-325
2. REMOVE BURRS AND SHARP EDGES
3. CLEAR ANODIZE PER MIL-A-8625 TYPE II
4. NUMBERS PRECEDING BALLOONS INDICATE QUANTITY.
5. MARK .12 HIGH BLACK PER ND 1002019 APPROX. AS SHOWN

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 04137 DATE 10/24/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
6	MS21209C4-15	INSERT, SCREW THREAD	4
8	MS21209C08-15	INSERT, SCREW THREAD	3
1	1014396-2	HANDLE, RIGHT	2
1	1014396-1	HANDLE, LEFT	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014433	
1014432	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±.005 ±.02
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL: SEE NOTE
HEAT TREATMENT
FINAL FINISH: SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 23 AUG 63
CHECKED A.J. Marinas 30 SEP 63
APPROVAL R. Moses JPK 14 OCT 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE
CTS/AGC OPERATION CONSOLE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014396
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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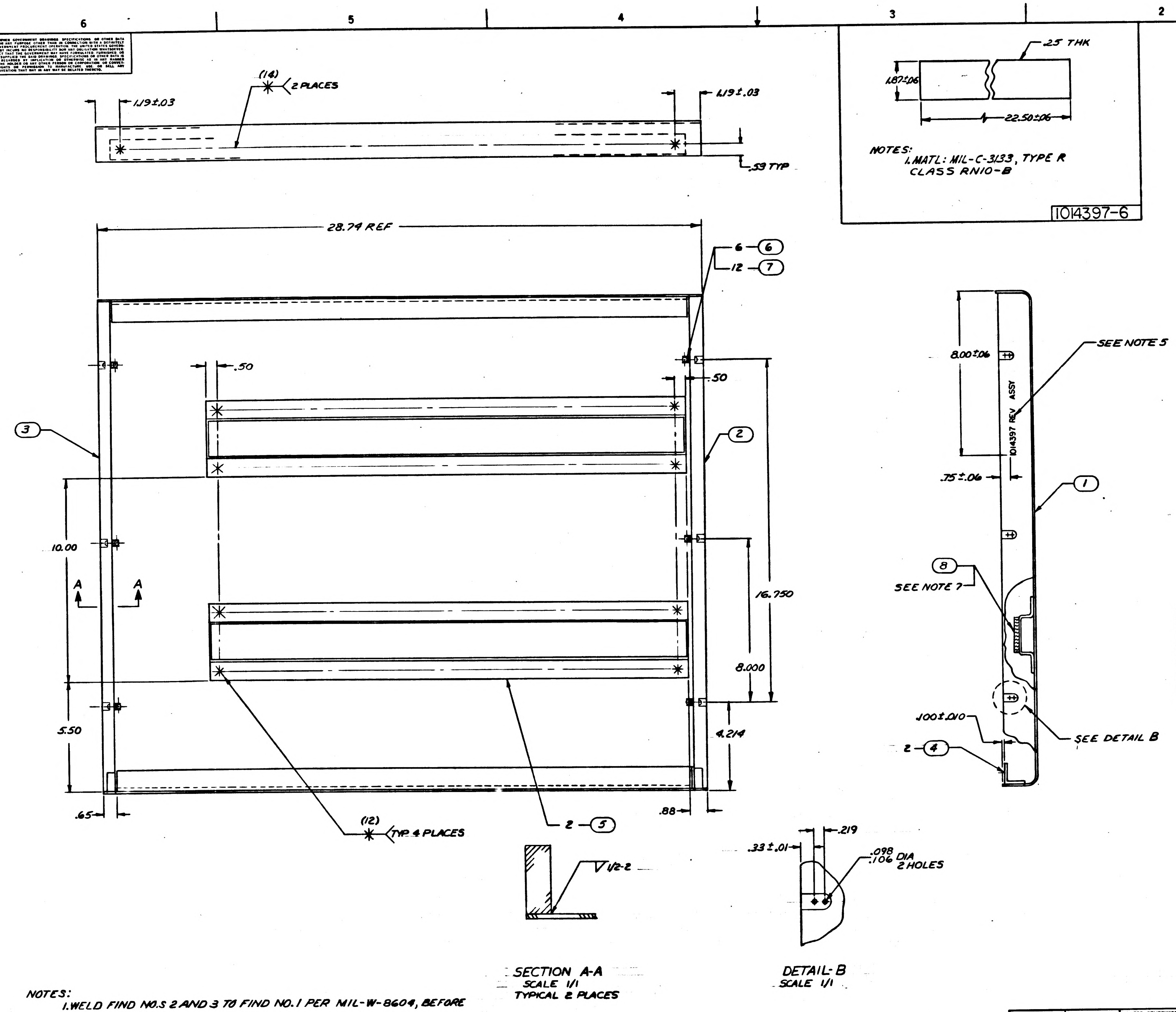
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 04137		



NOTES:
1. MATL: MIL-C-3133, TYPE R CLASS RN10-B

1014397-6

SECTION A-A
SCALE 1/1
TYPICAL 2 PLACES

DETAIL-B
SCALE 1/1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04137 DATE 10/24/03

1014397-6	—
1014397-5	—
1014397-4	—
1014397-3	—
1014397-2	—
1014397-1	—
PART NO	REV. SYMBOL
REV STATUS OF PARTS	

—	—
SH 1	SH 2
REV. STATUS OF SHEETS	

NOTES:
1. WELD FIND NO.S 2 AND 3 TO FIND NO. 1 PER MIL-W-8604, BEFORE SPOT WELDING
2. WELD PER MIL-W-6858
3. CHROMATE TREAT PER MIL-C-5541
4. PAINT OUTSIDE SURFACES, 1 COAT, TT-E-529, CLASS B, FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
5. MARK .12 HIGH BLACK PER ND 1002019
6. NUMBERS PRECEDING BALLOONS INDICATE QUANTITY
7. BOND FIND NO. 8 TO FIND NO. 5 PER ND 1002004

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
2	1014397-6	CUSHION	8
12	MS20470AD3-7	RIVET, UNIV HD	7
6	1006723	NUT, ANCHOR	6
2	1014397-5	STIFFENER	5
2	1014397-4	ANGLE	4
1	1014397-3	PLATE, INNER, RH	3
1	1014397-2	PLATE, INNER, LH	2
1	1014397-1	COVER	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014468	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-4-498
DRAWN R. C. Dustin DATE 2 AUG 63
CHECKED A. J. Marinaro 30 SEP 63
APPROVAL H. Mozer 14 SEP 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, ASSEMBLY
CTS/AGC OPERATION CONSOLE

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014397
SCALE 1/2
WT
SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014397

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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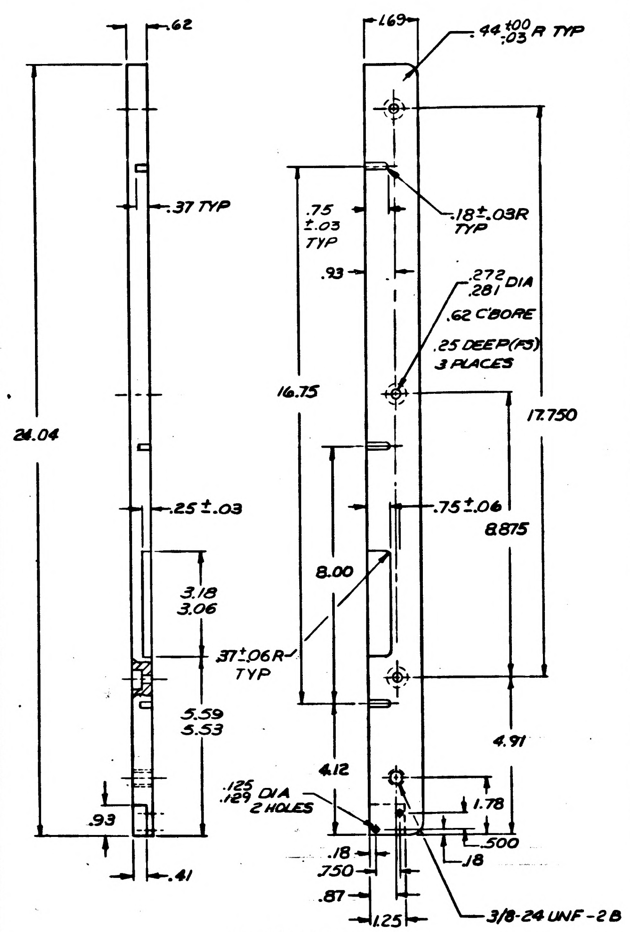
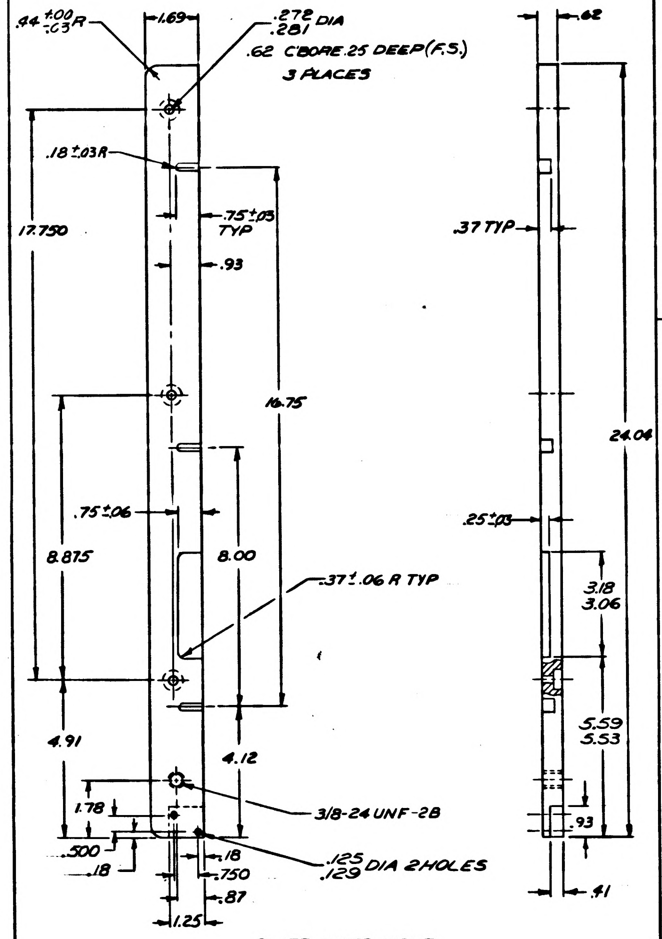

.62
.37 TYP
24.04
.25±.03
3.18
3.06
5.59
5.53
.93
.41
1.69
.44 +.00 −.03 R TYP
.75 ±.03 TYP
.93
.18±.03R TYP
.272 .281 DIA
.62 C'BORE
.25 DEEP (F.S.)
3 PLACES
16.75
17.750
.75±.06
8.875
8.00
.37±.06R TYP
4.91
4.12
.125 .129 DIA 2 HOLES
1.78
.500
.18
.18
.750
.87
.125
3/8-24 UNF-2B

PLATE, INNER LEFT

NOTES:
1. MATL: 6061-T6 AL PER QQ-A-325
2. BREAK SHARP EDGES
3. SCALE 1/2

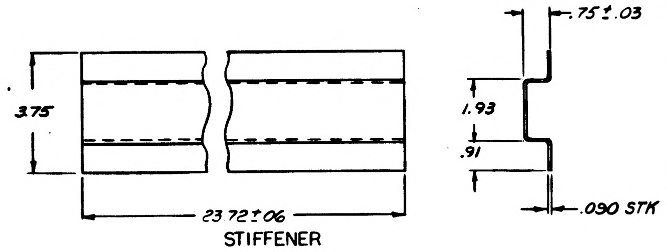
1014397-2


.44 +.00 −.03 R
1.69
.272 .281 DIA
.62 C'BORE .25 DEEP (F.S.)
3 PLACES
.18±.03R
.75±.03 TYP
.93
17.750
16.75
.75±.06
8.875
8.00
.37±.06 R TYP
4.91
4.12
1.78
.500
.18
3/8-24 UNF-2B
.18
.750
.87
.125 .129 DIA 2 HOLES
.125
.62
.37 TYP
24.04
.25±.03
3.18
3.06
5.59
5.53
.93
.41

PLATE, INNER RIGHT

NOTES:
1. MATL: 6061-T6 AL PER QQ-A-325
2. BREAK SHARP EDGES
3. SCALE 1/2

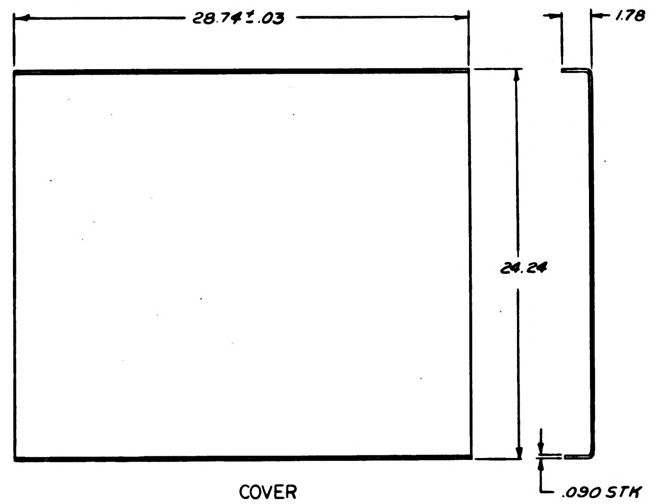
1014397-3


3.75
23.72±.06
.75±.03
1.93
.91
.090 STK

STIFFENER

NOTES:
1. MATL 5052-H32 AL PER QQ-A-318
2. BREAK SHARP EDGES
3. ALL INSIDE BEND RADII .09 MIN

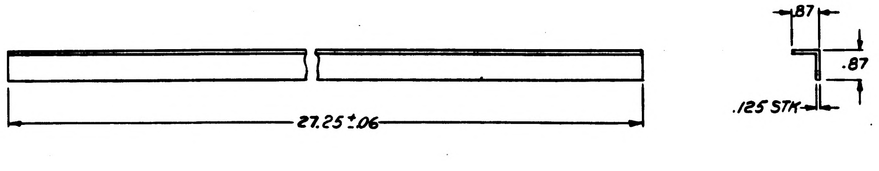
1014397-5


28.74±.03
24.24
1.78
.090 STK

COVER

NOTES:
1. MATL: 6061-T6 AL PER QQ-A-325
2. BREAK SHARP EDGES
3. INSIDE BEND RADII .37 +.03 −.00
4. SCALE 1/4

1014397-1


27.25±.06
.87
.87
.125 STK

BRACKET, ANGLE

NOTES:
1. MATL: 6063-T5 EXTRUDED AL ANGLE PER QQ-A-274
2. BREAK SHARP EDGES
3. SCALE 1/2

1014397-4

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 04137	10/24/63	WK

FOR INFORMATION ONLY –
CLASS B RELEASE TDRR NO 04137 DATE 10/24/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014468	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±.005 ±.02
ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 1 AUG 63
CHECKED A.J. Marinaro 30 SEP 63
APPROVAL 1 OCT 63
APPROVAL
APPROVAL
NASA APPROVAL 10/24/63
MIT APPROVAL 24 Oct 63
MIT APPROVAL 10/24/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, ASSEMBLY
CTS/AGC OPERATION CONSOLE

CODE IDENT NO —
SIZE F
NASA DRAWING NO 1014397
SCALE AS NOTED
WT
SHEET 2 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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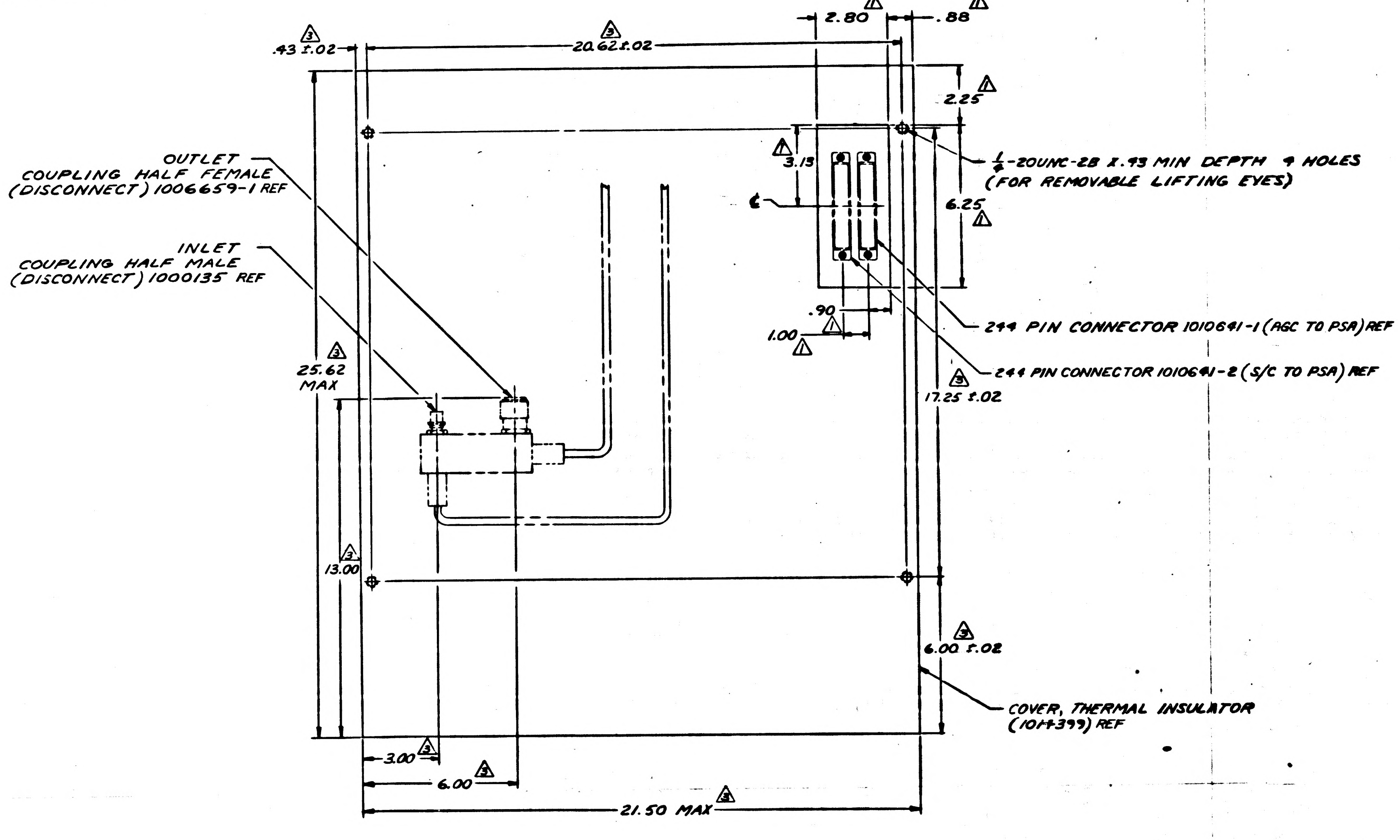
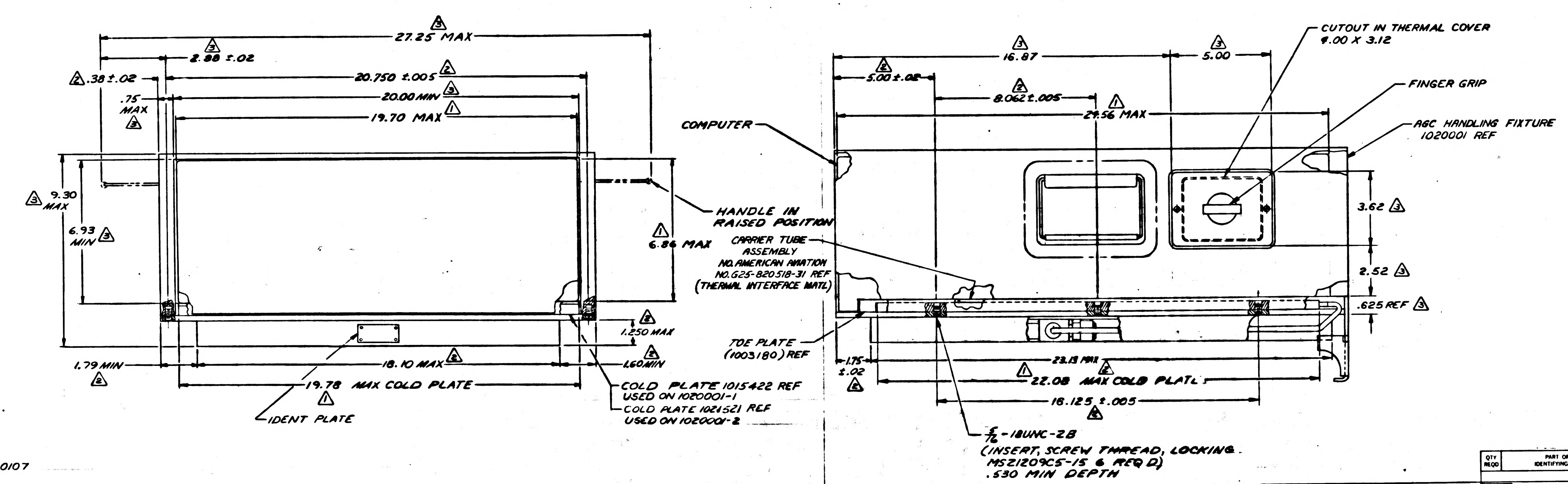
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO. [illegible]		
A	CHANGED PER TDRR 12926 DR [illegible] CHK [illegible] APPD [illegible]	14 OCT 64	


.43 ±.02
20.62 ±.02
2.80
.88
2.25
3.13
6.25
¢
¼-20UNC-2B X.43 MIN DEPTH 4 HOLES
(FOR REMOVABLE LIFTING EYES)
OUTLET
COUPLING HALF FEMALE
(DISCONNECT) 1006659-1 REF
INLET
COUPLING HALF MALE
(DISCONNECT) 1000135 REF
.90
1.00
244 PIN CONNECTOR 1010641-1 (AGC TO PSA) REF
244 PIN CONNECTOR 1010641-2 (S/C TO PSA) REF
25.62
MAX
17.25 ±.02
13.00
6.00 ±.02
COVER, THERMAL INSULATOR
(1014399) REF
3.00
6.00
21.50 MAX

SYMBOL	RESPONSIBLE ORGANIZATION	APPROVAL	DATE	REVISION STATUS					
				SYM	DATE	APPROVED	SYM	DATE	APPROVED
①	MIT	L. Jeleman	1/21/64	A	10/20/64	[illegible]			
②	AC SP	[illegible] (GEC)	1/21/64	A	10/20/64	[illegible]			
③	RAY	[illegible]	12/6/63	A	10/20/64	[illegible]			

FOR INFORMATION ONLY

CLASS B RELEASED PER TDRR NO. 05832 DATE 21 Jan 64


27.25 MAX
2.88 ±.02
.38 ±.02
20.750 ±.005
.75
MAX
20.00 MIN
19.70 MAX
9.30
MAX
6.93
MIN
HANDLE IN
RAISED POSITION
6.86 MAX
1.250 MAX
1.79 MIN
18.10 MAX
1.60 MIN
19.78 MAX COLD PLATE
IDENT PLATE
COLD PLATE 1015422 REF
USED ON 1020001-1
COLD PLATE 1021521 REF
USED ON 1020001-2
COMPUTER
CARRIER TUBE
ASSEMBLY
NO. AMERICAN AVIATION
NO. G25-820518-31 REF
(THERMAL INTERFACE MATL)
TOE PLATE
(1003180) REF
16.87
5.00
5.00 ±.02
8.062 ±.005
29.56 MAX
CUTOUT IN THERMAL COVER
4.00 X 3.12
FINGER GRIP
AGC HANDLING FIXTURE
1020001 REF
3.62
2.52
.625 REF
1.75
±.02
23.13 MAX
22.08 MAX COLD PLATE
16.125 ±.005
5/16-18UNC-2B
(INSERT, SCREW THREAD, LOCKING
MS21209C5-15 6 REQ D)
.530 MIN DEPTH

REFERENCE DWG 1020107

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.06 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN C. [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL H. [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER
HANDLING FIXTURE
GSE INTERFACE DOCUMENT

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014398
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014398

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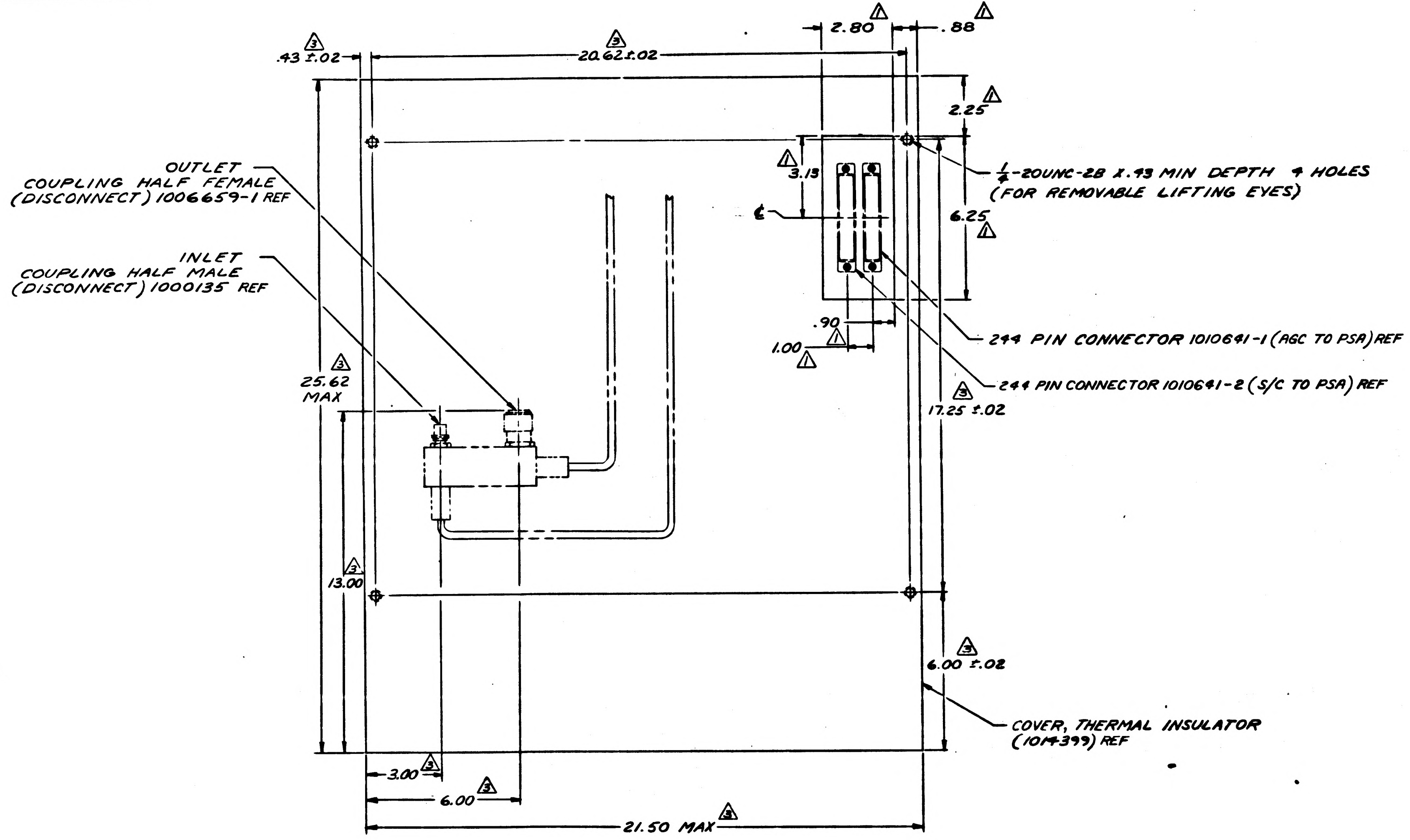
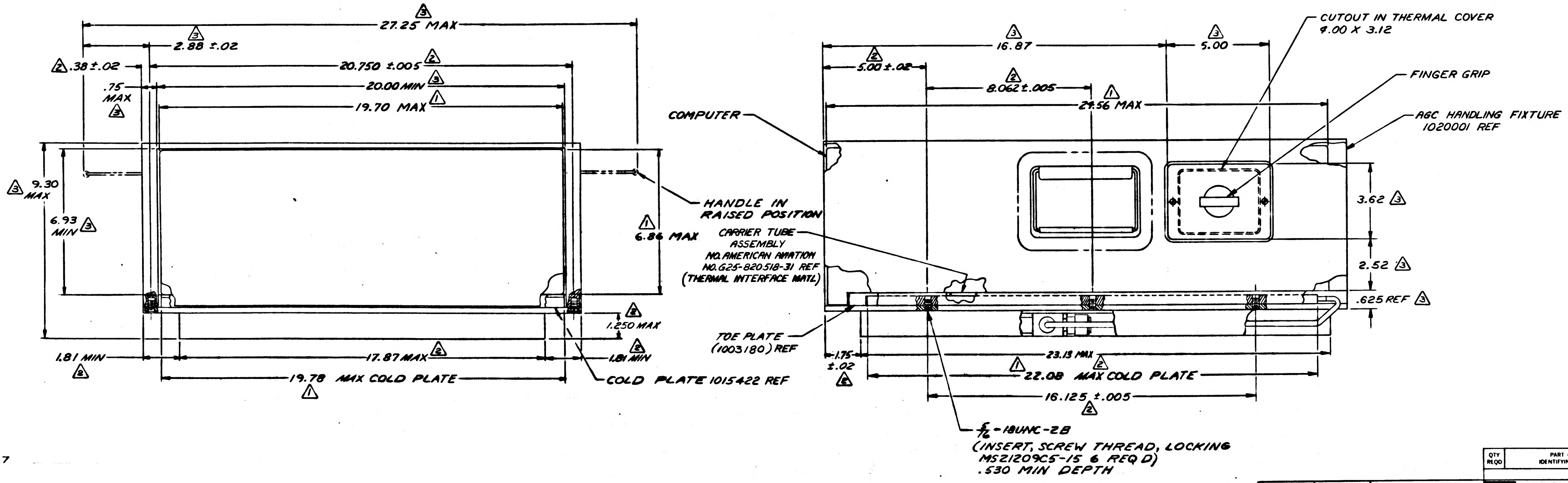
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO. [illegible]		


2.80
.88
.43 ±.02
20.62 ±.02
2.25
OUTLET
COUPLING HALF FEMALE
(DISCONNECT) 1006659-1 REF
INLET
COUPLING HALF MALE
(DISCONNECT) 1000135 REF
3.13
℄
¼-20UNC-2B X .43 MIN DEPTH 4 HOLES
(FOR REMOVABLE LIFTING EYES)
6.25
.90
1.00
244 PIN CONNECTOR 1010641-1 (AGC TO PSA) REF
244 PIN CONNECTOR 1010641-2 (S/C TO PSA) REF
25.62 MAX
17.25 ±.02
13.00
6.00 ±.02
COVER, THERMAL INSULATOR
(1014399) REF
3.00
6.00
21.50 MAX

SYMBOL	RESPONSIBLE ORGANIZATION	APPROVAL	DATE	REVISION STATUS SYM	DATE	APPROVED	SYM	DATE	APPROVED
1	MIT	L. Jeleman	1/21/64						
2	AC SP	[illegible] (GEC)	1/21/64						
3	RAY	J. S. [illegible]	12/6/63						

FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. [illegible] DATE 21 Jan 64


27.25 MAX
2.88 ±.02
.38 ±.02
20.750 ±.005
.75 MAX
20.00 MIN
19.70 MAX
9.30 MAX
6.93 MIN
HANDLE IN RAISED POSITION
6.84 MAX
1.250 MAX
1.81 MIN
17.87 MAX
1.81 MIN
19.78 MAX COLD PLATE
COLD PLATE 1015422 REF
16.87
5.00
5.00 ±.02
CUTOUT IN THERMAL COVER
4.00 X 3.12
FINGER GRIP
8.062 ±.005
24.56 MAX
COMPUTER
AGC HANDLING FIXTURE
1020001 REF
3.62
CARRIER TUBE ASSEMBLY
NO. AMERICAN AVIATION
NO. G25-820518-31 REF
(THERMAL INTERFACE MATL)
2.52
.625 REF
TOE PLATE
(1003180) REF
1.75 ±.02
23.13 MAX
22.08 MAX COLD PLATE
16.125 ±.005
5/16-18UNC-2B
(INSERT, SCREW THREAD, LOCKING
MS21209C5-15 6 REQ'D)
.530 MIN DEPTH

REFERENCE DWG 1020107

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.06 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN E. [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL H. [illegible]
APPROVAL [illegible]
APPROVAL J. [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 21 Jan 64

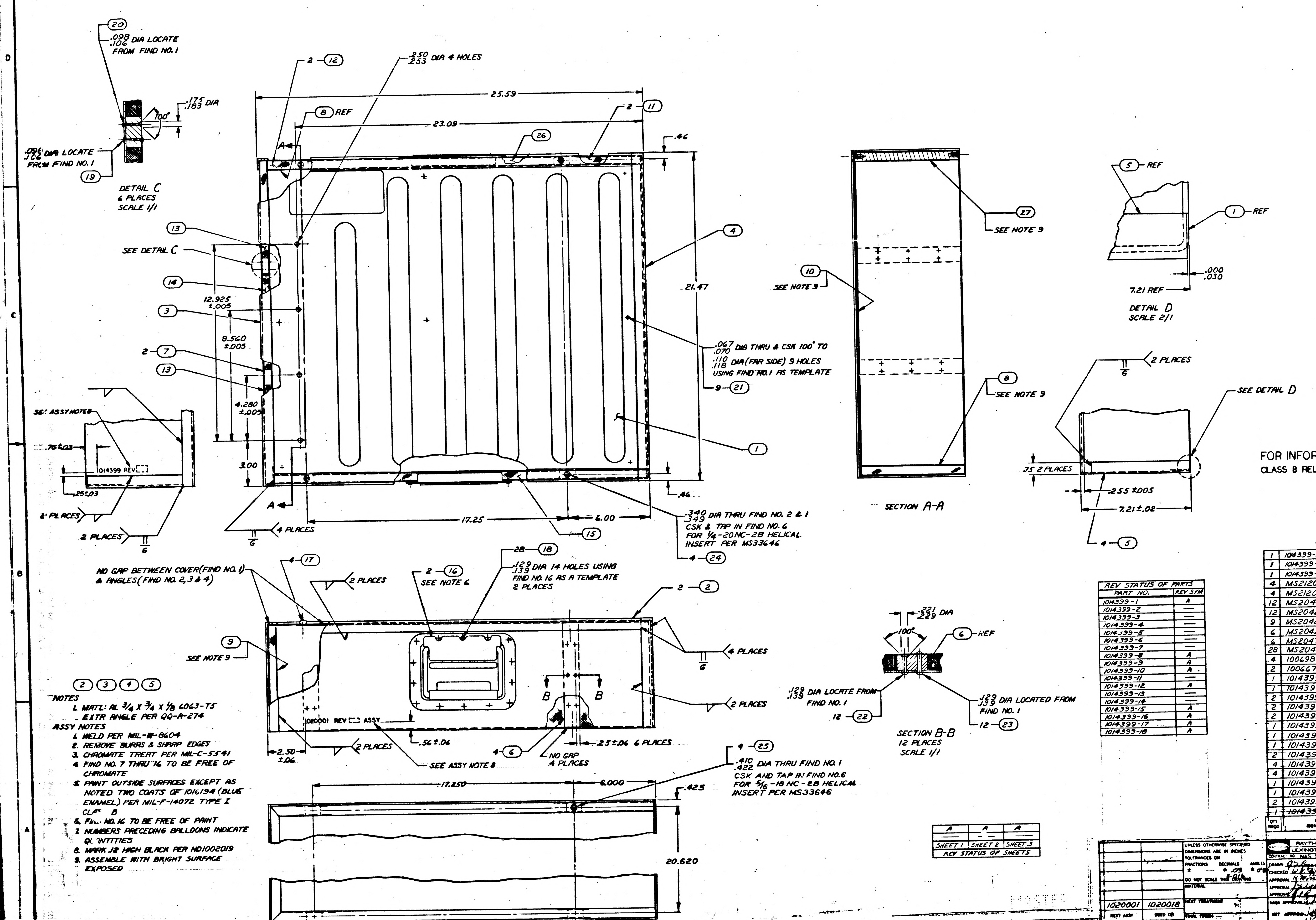
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER
HANDLING FIXTURE
GSE INTERFACE DOCUMENT

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014398
SCALE 1/2 WT SHEET 1 OF 1

1014398

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04132		
A	CHANGED PER TDRR 05762 CHK W. J. Gifford APPD	23/1/64	



DETAIL C
6 PLACES
SCALE 1/1
.098/.106 DIA LOCATE FROM FIND NO. 1
.175/.183 DIA
100°
.095/.102 DIA LOCATE FROM FIND NO. 1
(20)
(19)
SEE DETAIL C
(13)
(14)
(3)
2 — (7)
(13)
12.925 ±.005
8.560 ±.005
4.280 ±.005
3.00
2 — (12)
(8) REF
.250/.233 DIA 4 HOLES
25.59
23.09
2 — (11)
(26)
.46
21.47
(4)
.067/.070 DIA THRU & CSK 100° TO .110/.118 DIA (FAR SIDE) 9 HOLES USING FIND NO. 1 AS TEMPLATE
9 — (21)
(1)
A
17.25
6.00
(15)
.340/.349 DIA THRU FIND NO. 2 & 1 CSK & TAP IN FIND NO. 6 FOR 1/4-20NC-2B HELICAL INSERT PER MS33646
4 — (24)
4 PLACES
SEE ASSY NOTE 8
.75 ±.03
1014399 REV
.25 ±.03
2 PLACES
NO GAP BETWEEN COVER (FIND NO. 1) & ANGLES (FIND NO. 2, 3 & 4)
4 — (17)
2 PLACES
2 — (16)
SEE NOTE 6
28 — (18)
.129/.139 DIA 14 HOLES USING FIND NO. 16 AS A TEMPLATE 2 PLACES
2 — (2)
(9)
SEE NOTE 9
4 PLACES
B
B
1020001 REV ASSY
2.50 ±.06
.56 ±.06
4 — (6)
NO GAP 4 PLACES
2.5 ±.06 6 PLACES
SEE ASSY NOTE 8
4 — (25)
.410/.422 DIA THRU FIND NO. 1 CSK AND TAP IN FIND NO. 6 FOR 5/16-18 NC-2B HELICAL INSERT PER MS33646
17.250
6.000
.425
20.620
SECTION A-A
(27)
SEE NOTE 9
(10)
SEE NOTE 9
(8)
SEE NOTE 9
.221/.229 DIA
100°
(6) REF
.129/.139 DIA LOCATE FROM FIND NO. 1
12 — (22)
.129/.139 DIA LOCATED FROM FIND NO. 1
12 — (23)
SECTION B-B
12 PLACES
SCALE 1/1
(5) REF
(1) REF
.000/.030
7.21 REF
DETAIL D
SCALE 2/1
2 PLACES
SEE DETAIL D
.75 2 PLACES
.255 ±.005
7.21 ±.02
4 — (5)

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04132 DATE 11/6/63

(2) (3) (4) (5)

NOTES
1. MATL: AL 3/4 X 3/4 X 1/8 6063-T5 EXTR ANGLE PER QQ-A-274

ASSY NOTES
1. WELD PER MIL-W-8604
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541
4. FIND NO. 7 THRU 16 TO BE FREE OF CHROMATE
5. PAINT OUTSIDE SURFACES EXCEPT AS NOTED TWO COATS OF 1016194 (BLUE ENAMEL) PER MIL-F-14072 TYPE I CLASS B
6. FIND NO. 16 TO BE FREE OF PAINT
7. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES
8. MARK .12 HIGH BLACK PER ND1002019
9. ASSEMBLE WITH BRIGHT SURFACE EXPOSED

REV STATUS OF PARTS	
PART NO.	REV SYM
1014399-1	A
1014399-2	—
1014399-3	—
1014399-4	—
1014399-5	—
1014399-6	—
1014399-7	—
1014399-8	A
1014399-9	A
1014399-10	A
1014399-11	—
1014399-12	A
1014399-13	—
1014399-14	—
1014399-15	A
1014399-16	A
1014399-17	A
1014399-18	A

SHEET 1	SHEET 2	SHEET 3
A	A	A

REV STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014399-18	PLATE, ACCESS COVER	28
1	1014399-17	REFLECTOR, RIGHT SIDE	27
1	1014399-16	INSULATION	26
4	MS21209-C5-20	INSERT, SCREW LOCKING	25
4	MS21209-C4-20	INSERT, SCREW LOCKING	24
12	MS20470A4-14	RIVET, UNIV HD	23
12	MS20426A4-12	RIVET, CSK HD	22
9	MS20426A2-4	RIVET, CSK HD	21
6	MS20426A3-12	RIVET, CSK HD	20
6	MS20470A3-12	RIVET, UNIV HD	19
28	MS20470A4-6	RIVET, UNIV HD	18
4	1006989-23	NUT, PLAIN, SELF-CLINCHING	17
2	1006673	HANDLE	16
1	1014399-15	INSULATION	15
1	1014399-14	INSULATION	14
2	1014399-13	INSULATION	13
2	1014399-12	INSULATION	12
2	1014399-11	INSULATION	11
1	1014399-10	REFLECTOR, TOP	10
1	1014399-9	REFLECTOR, REAR	9
1	1014399-8	REFLECTOR, LEFT SIDE	8
2	1014399-7	BLOCK, REAR	7
4	1014399-6	BLOCK, MOUNTING	6
4	1014399-5	ANGLE, VERTICAL	5
1	1014399-4	ANGLE, FRONT	4
1	1014399-3	ANGLE, REAR	3
2	1014399-2	ANGLE, TOP	2
~~1~~	~~1014399-1~~	~~COVER~~	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1020001	1020018

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± .03 ±.016 ANGLES ± 0°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH —

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN J. Z. Cooper DATE 9/30/63
CHECKED W. J. Gifford 5 OCT 63
APPROVAL K. Morse Jr 19 OCT 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

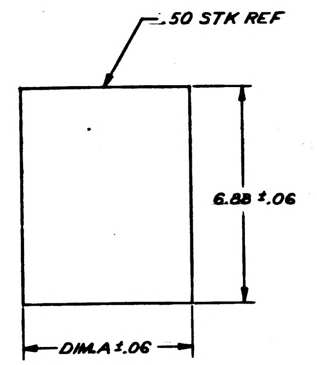
COVER, THERMAL INSULATOR

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	J	1014399

SCALE 1/2 WT SHEET 1 OF 3

1014399

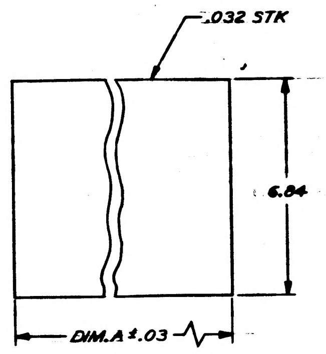
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04138	[illegible]	
A	CHANGED PER TDRR 05762 CHK W. J. Gifford APPD	[illegible]	WK


.50 STK REF
6.88 ±.06
DIM.A ±.06

INSULATION

PART NO.	DIM.A
1014399-11	5.38
1014399-12	1.12
1014399-13	6.41
1014399-14	6.22

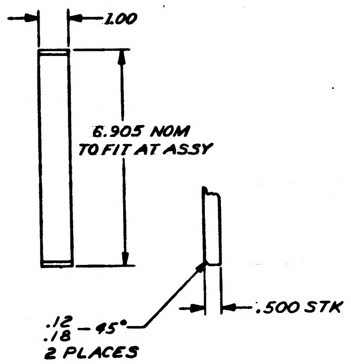
NOTES:
1. MAKE FROM 1006684-2


.032 STK
6.84
DIM.A ±.03

NOTES:
1. MATL: AL 1100-H18 PER QQ-A-561, SPECULAR FINISH ON ONE SIDE
2. REMOVE BURRS AND SHARP EDGES

REFLECTOR

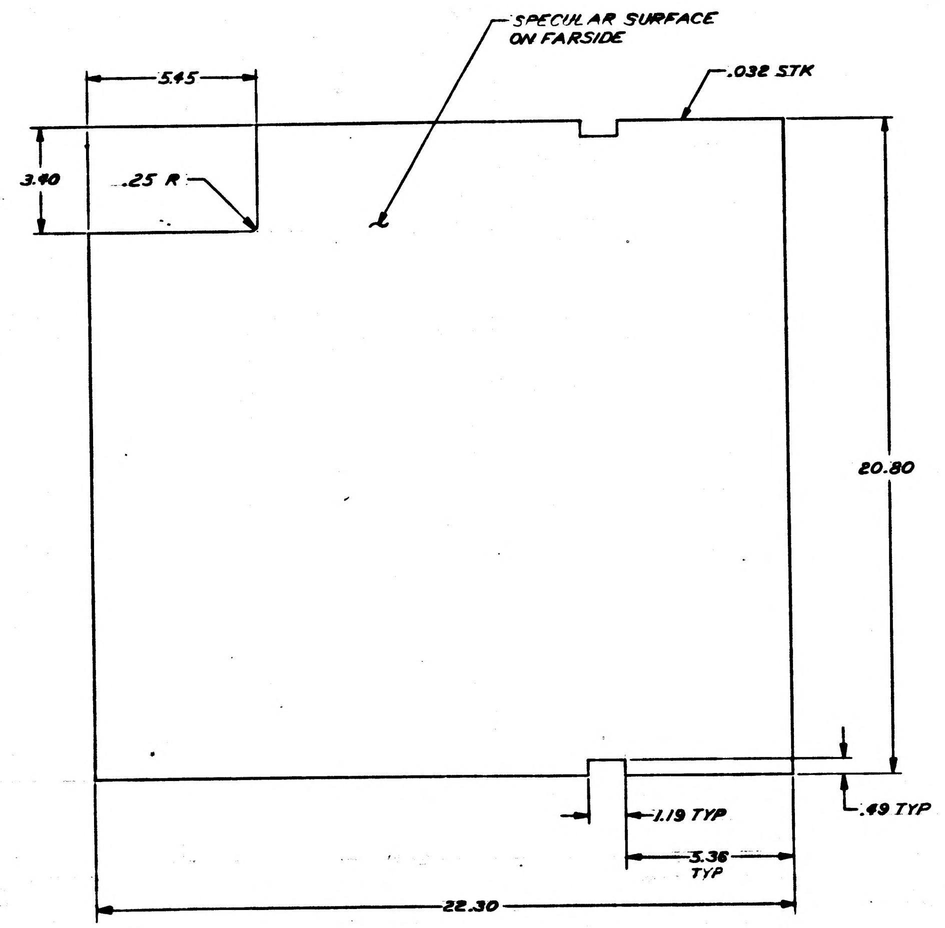
PART NO.	DIM.A
1014399-8	24.66
1014399-9	20.98


1.00
6.905 NOM TO FIT AT ASSY
.12 .18 – 45° 2 PLACES
.500 STK

⑥ NOTES:
1. MATL: AL 6061-T6 PER QQ-A-325
2. REMOVE BURRS AND SHARP EDGES

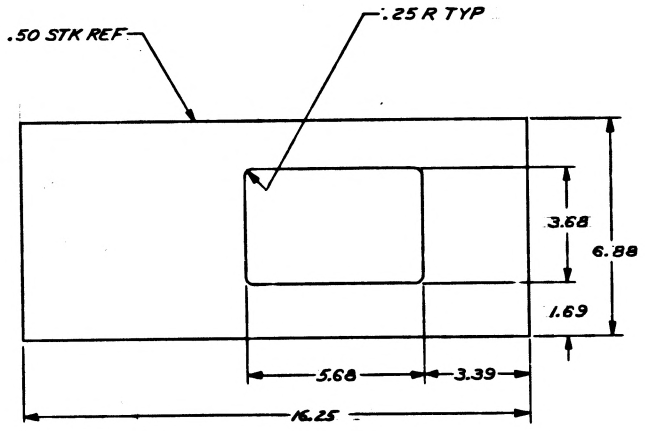
⑦ NOTES:
1. MATL: BLACK LE PHENOLIC TYPE FBE PER MIL-P-15035
2. REMOVE BURRS AND SHARP EDGES

BLOCK, MOUNTING
1014399-6
1014399-7


SPECULAR SURFACE ON FARSIDE
5.45
.032 STK
3.40
.25 R
20.80
1.19 TYP
.49 TYP
5.36 TYP
22.30

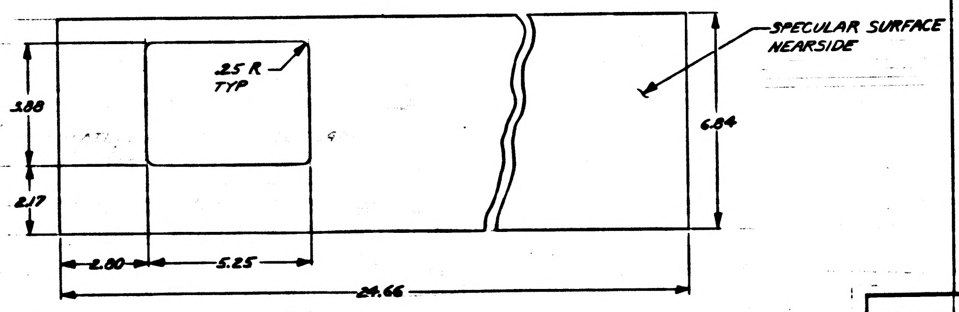
NOTES:
1. MATL: AL 1100-H18 PER QQ-A-561, SPECULAR FINISH ON ONE SIDE
2. REMOVE BURRS AND SHARP EDGES
3. TOL: ±.03

REFLECTOR
1014399-10


.50 STK REF
.25 R TYP
3.68
6.88
1.69
5.68
3.39
16.25

NOTES:
1. MATL: MAKE FROM 1006684-2
2. TOL: ±.06

INSULATION
1014399-15


.25 R TYP
SPECULAR SURFACE NEARSIDE
3.88
6.84
2.17
2.80
5.25
24.66

NOTES:
1. MATL: AL 1100-H18 PER QQ-A-561, SPECULAR FINISH ON ONE SIDE
2. REMOVE BURRS & SHARP EDGES
3. TOL: ±.03

REFLECTOR
1014399-17

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04138 DATE 10/31/63

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN A.C. Taylor DATE 5 OCT 63
CHECKED W. J. Gifford 5 OCT 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, THERMAL INSULATOR

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014399
SCALE 1/2
WT
SHEET 2 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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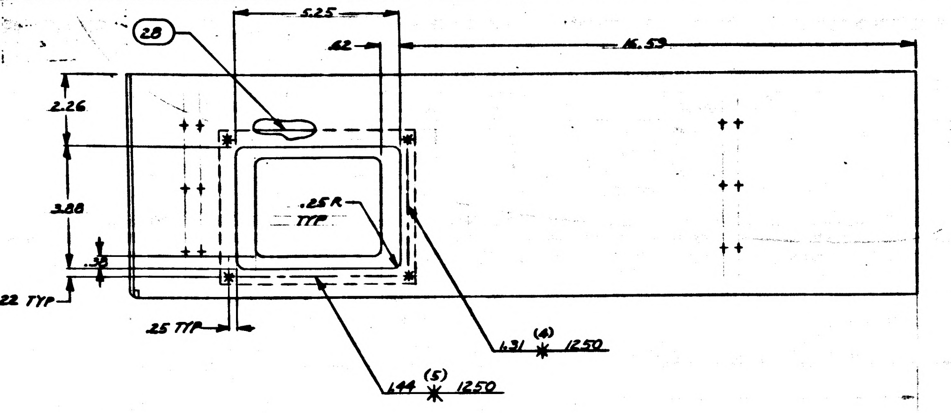
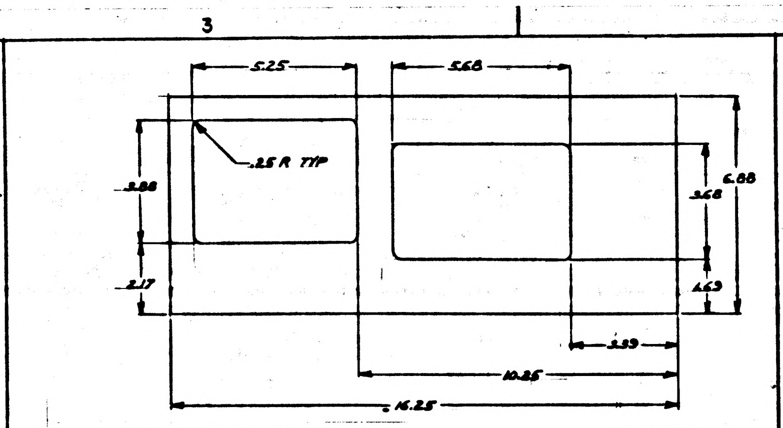
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 05762 CHK APPD	24/ /	WR



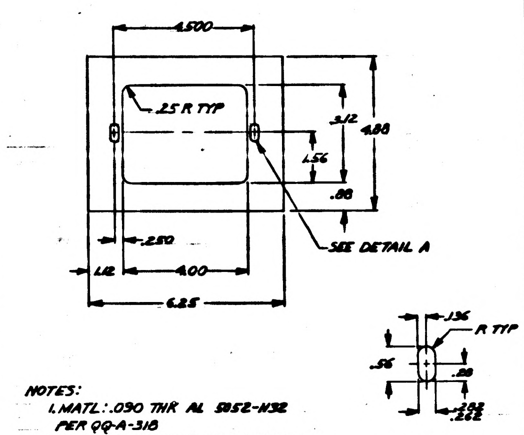
5.25
.62
16.53
28
2.26
3.88
.25 R TYP
.38
.22 TYP
.25 TYP
.31 (4) 1250
1.44 (5) 1250



5.25
5.68
.25 R TYP
3.88
2.17
6.88
3.68
1.63
3.39
10.25
16.25

1. MATL: MAKE FROM 1006684-2
2. TOL: ±.06

INSULATOR
1014399 - 16



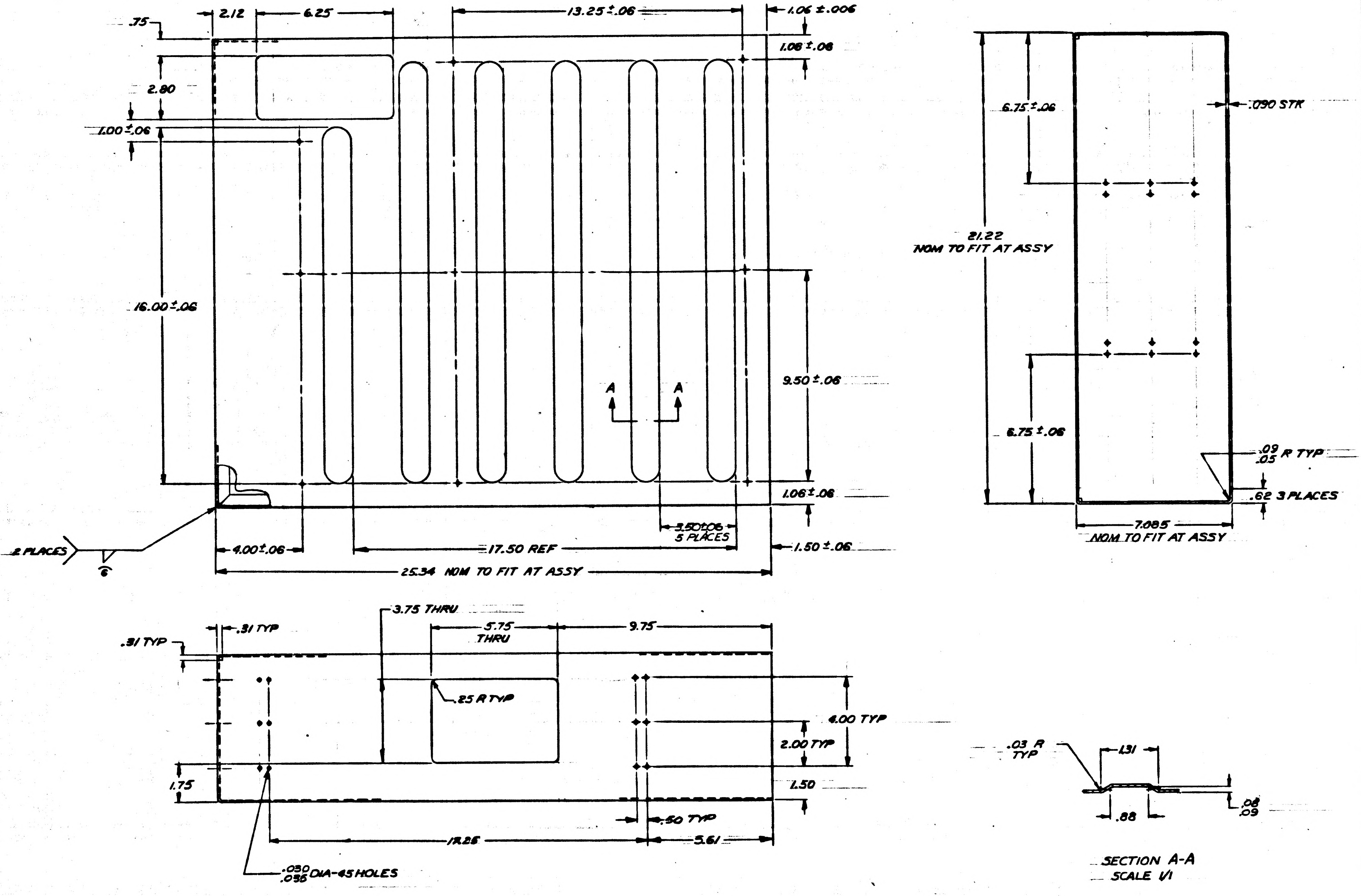
4.500
.25 R TYP
3.12
4.88
1.56
.88
.250
1.12
4.00
6.25
SEE DETAIL A
.136
R TYP
.56
.28
.282
.262

NOTES:
1. MATL: .090 THK AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. TOL: ±.03, ±.005

DETAIL A
2 PLACES
SCALE: FULL

PLATE, ACCESS COVER
1014399 - 18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE



.75
2.12
6.25
13.25 ±.06
1.06 ±.006
1.08 ±.06
2.80
1.00 ±.06
16.00 ±.06
9.50 ±.06
A
A
1.06 ±.06
3.50 ±.06
5 PLACES
2 PLACES
6
4.00 ±.06
17.50 REF
1.50 ±.06
25.34 NOM TO FIT AT ASSY
6.75 ±.06
.090 STK
21.22
NOM TO FIT AT ASSY
6.75 ±.06
.09
.05 R TYP
.62 3 PLACES
7.085
NOM TO FIT AT ASSY
3.75 THRU
.31 TYP
.31 TYP
5.75
THRU
9.75
.25 R TYP
4.00 TYP
2.00 TYP
1.75
1.50
.50 TYP
12.26
5.61
.030
.035 DIA-45 HOLES
.03 R
TYP
1.31
.88
.08
.09
SECTION A-A
SCALE 1/1

COVER
1014399-1

NOTES
1. MATL 5052-H32 AL PER QQ-A-318
2. REMOVE BURRS AND SHARP EDGES
3. WELD PER MIL-W-8604
4. SPOTWELD PER MIL-W-6858

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
SEE NOTE
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED W. J. Gifford 4 OCT 63
APPROVAL 19 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

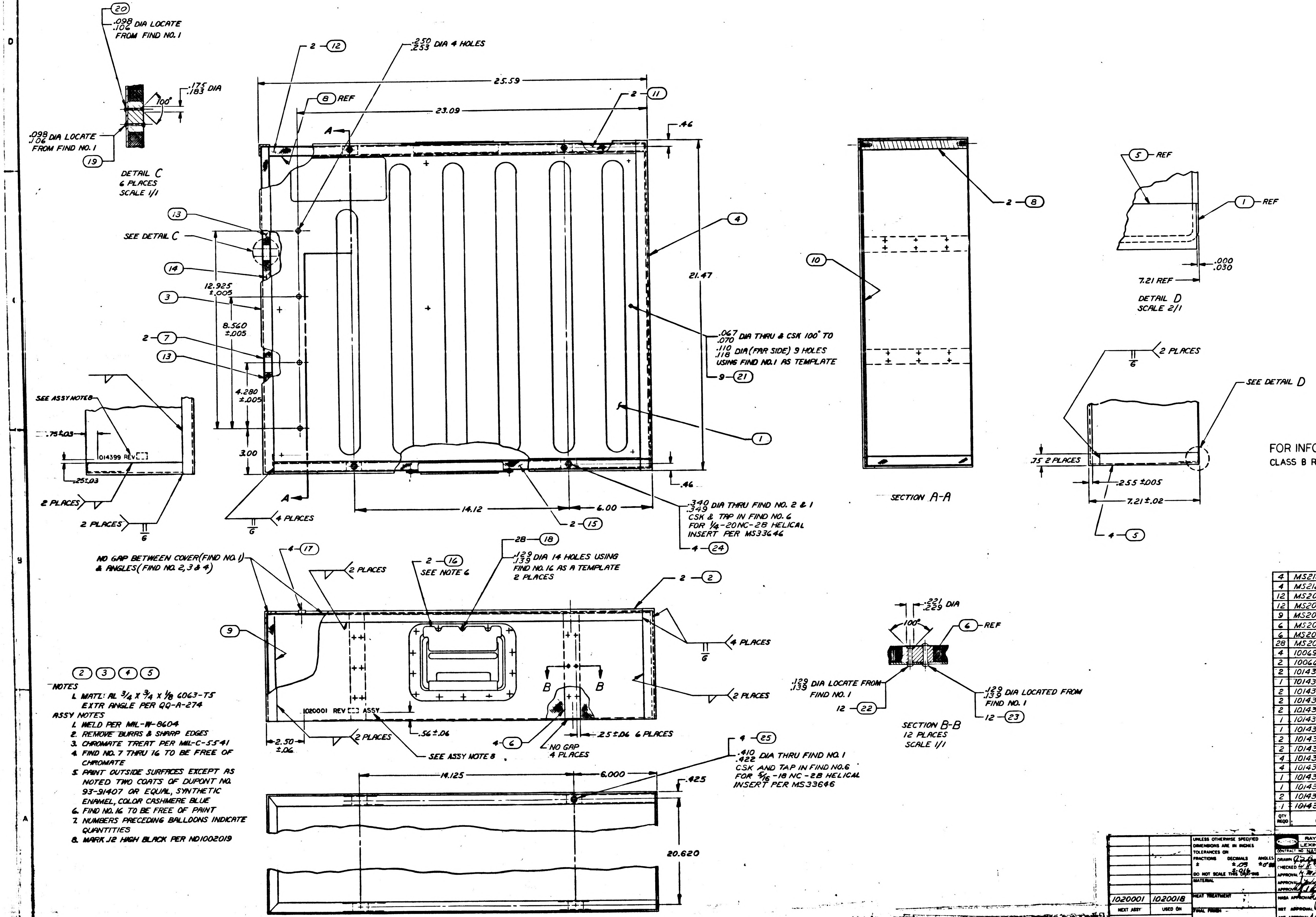
COVER, THERMAL INSULATOR

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014399
SCALE 1/2
WT
SHEET 3 OF

MASTER

PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 24138		



20
.098 .106 DIA LOCATE FROM FIND NO. 1
.175 .183 DIA
100°
.098 .106 DIA LOCATE FROM FIND NO. 1
19
DETAIL C
6 PLACES
SCALE 1/1
2 — 12
.250 .253 DIA 4 HOLES
25.59
8 REF
23.09
2 — 11
.46
A
13
SEE DETAIL C
14
3
12.925 ±.005
8.560 ±.005
2 — 7
13
4.280 ±.005
3.00
4
21.47
.067 .070 DIA THRU & CSK 100° TO .110 .118 DIA (FAR SIDE) 9 HOLES USING FIND NO. 1 AS TEMPLATE
9 — 21
1
.46
14.12
6.00
2 — 15
.340 .349 DIA THRU FIND NO. 2 & 1 CSK & TAP IN FIND NO. 6 FOR 1/4-20NC-2B HELICAL INSERT PER MS33646
4 — 24
4 PLACES
G
SEE ASSY NOTE 8
.75±.03
1014399 REV
.25±.03
2 PLACES
2 PLACES
G
2 — 8
10
SECTION A-A
5 REF
1 REF
.000 .030
7.21 REF
DETAIL D
SCALE 2/1
2 PLACES
G
SEE DETAIL D
.75 2 PLACES
.255 ±.005
7.21±.02
4 — 5
NO GAP BETWEEN COVER (FIND NO. 1) & ANGLES (FIND NO. 2, 3 & 4)
4 — 17
2 PLACES
2 — 16
SEE NOTE 6
28 — 18
.129 .139 DIA 14 HOLES USING FIND NO. 16 AS A TEMPLATE 2 PLACES
2 — 2
9
4 PLACES
G
2 PLACES
B
B
1020001 REV ASSY
2 PLACES
.56±.06
4 — 6
NO GAP 4 PLACES
.25±.06 6 PLACES
2.50 ±.06
SEE ASSY NOTE 8
4 — 25
.410 .422 DIA THRU FIND NO. 1 CSK AND TAP IN FIND NO. 6 FOR 5/16-18 NC-2B HELICAL INSERT PER MS33646
14.125
6.000
.425
20.620
.221 .229 DIA
100°
6 REF
.129 .139 DIA LOCATE FROM FIND NO. 1
12 — 22
.129 .139 DIA LOCATED FROM FIND NO. 1
12 — 23
SECTION B-B
12 PLACES
SCALE 1/1

② ③ ④ ⑤

NOTES

1. MATL: AL 3/4 X 3/4 X 1/8 6063-T5 EXTR ANGLE PER QQ-A-274

ASSY NOTES

1. WELD PER MIL-W-8604
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541
4. FIND NO. 7 THRU 16 TO BE FREE OF CHROMATE
5. PAINT OUTSIDE SURFACES EXCEPT AS NOTED TWO COATS OF DUPONT NO. 93-91407 OR EQUAL, SYNTHETIC ENAMEL, COLOR CASHMERE BLUE
6. FIND NO. 16 TO BE FREE OF PAINT
7. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES
8. MARK J2 HIGH BLACK PER ND1002019

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 24138 DATE 10/24/63

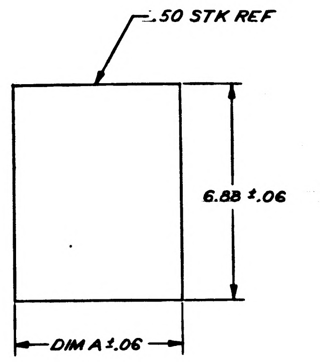
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	MS21209-C5-20	INSERT, SCREW LOCKING	25
4	MS21209-C4-20	INSERT, SCREW LOCKING	24
12	MS20470A4-14	RIVET, UNIV HD	23
12	MS20426A4-12	RIVET, CSK HD	22
9	MS20426A2-4	RIVET, CSK HD	21
6	MS20426A3-12	RIVET, CSK HD	20
6	MS20470A3-12	RIVET, UNIV HD	19
28	MS20470A4-6	RIVET, UNIV HD	18
4	1006989-23	NUT, PLAIN, SELF-CLINCHING	17
2	1006673	HANDLE	16
2	1014399-15	INSULATION	15
1	1014399-14	INSULATION	14
2	1014399-13	INSULATION	13
2	1014399-12	INSULATION	12
2	1014399-11	INSULATION	11
1	1014399-10	REFLECTOR, TOP	10
1	1014399-9	REFLECTOR, REAR	9
2	1014399-8	REFLECTOR, SIDE	8
2	1014399-7	BLOCK, REAR	7
4	1014399-6	BLOCK, MOUNTING	6
4	1014399-5	ANGLE, VERTICAL	5
1	1014399-4	ANGLE, FRONT	4
1	1014399-3	ANGLE, REAR	3
2	1014399-2	ANGLE, TOP	2
1	~~1014399-1~~	~~COVER~~	1

LIST OF MATERIALS

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ±.03 ±.016 ANGLES ±0°30' DO NOT SCALE THIS DRAWING	RAYTHEON CO. LEXINGTON, MASS. CONTRACT NO NAS 9-498	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
		MATERIAL	DRAWN DATE CHECKED W. F. Tifford 5 OCT 63 APPROVAL 19 OCT 63 APPROVAL 10/14/63 APPROVAL	COVER, THERMAL INSULATOR
1020001	1020018	HEAT TREATMENT	NASA APPROVAL	CODE IDENT NO. — SIZE J NASA DRAWING NO. 1014399
NEXT ASSY	USED ON	FINAL FINISH	MIT APPROVAL MIT APPROVAL	SCALE 1/2 WT SHEET 1 OF 3
APPLICATION				

INCHES
PHOTOGRAPHIC SCALE ONLY

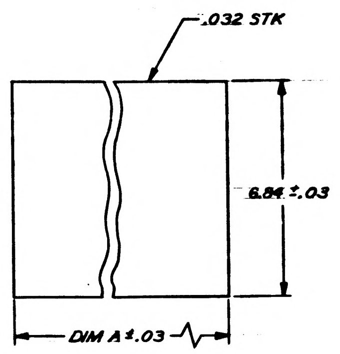
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR [illegible]	[illegible]	


.50 STK REF
6.88 ±.06
DIM A ±.06

INSULATION

PART NO.	DIM A
1014399-11	5.38
1014399-12	4.24
1014399-13	6.41
1014399-14	6.22

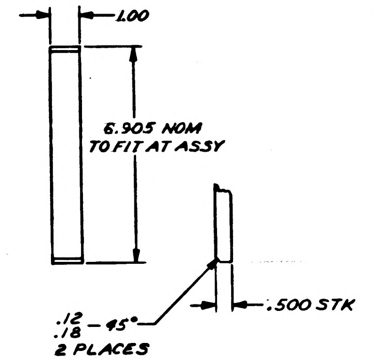
NOTES:
1. MAKE FROM 1006684-1


.032 STK
6.84 ±.03
DIM A ±.03

NOTES:
1. MATL: AL 1100-H18 PER QQ-A-561, SPECULAR FINISH ON ONE SIDE
2. REMOVE BURRS AND SHARP EDGES

REFLECTOR

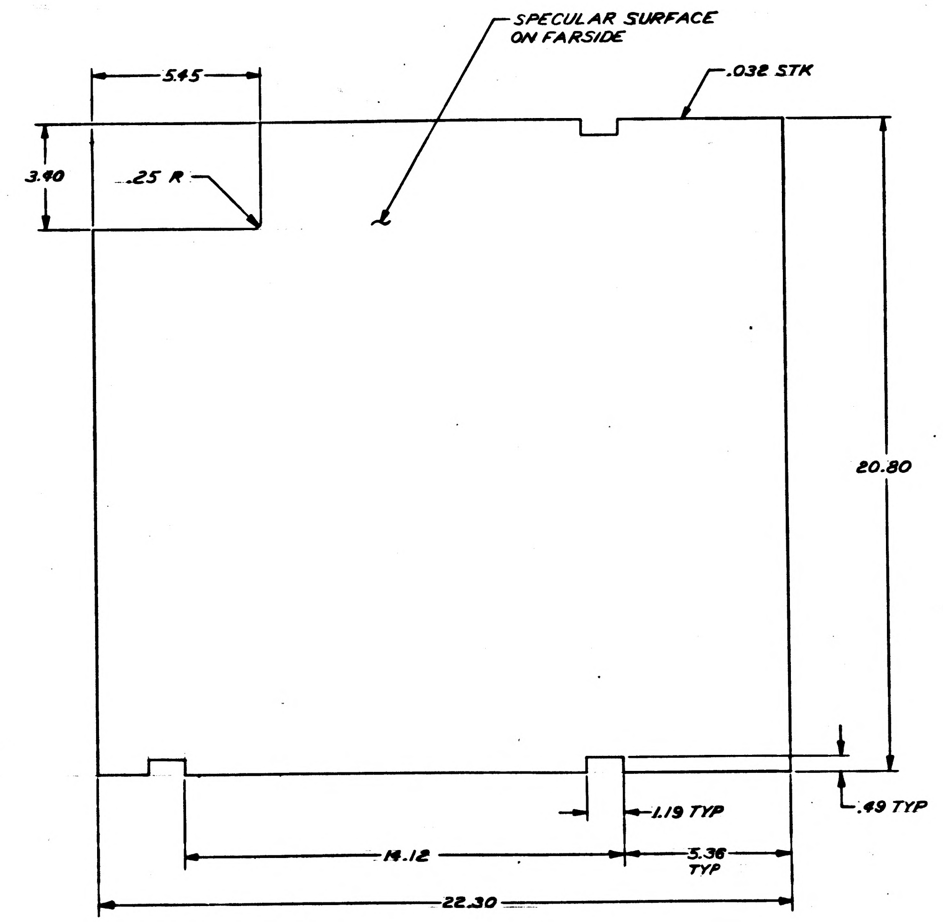
PART NO.	DIM A
1014399-8	24.66
1014399-9	20.98


1.00
6.905 NOM
TO FIT AT ASSY
.12
.18 – 45°
2 PLACES
.500 STK

⑥
NOTES:
1. MATL: AL 6061-T6 PER QQ-A-325
2. REMOVE BURRS AND SHARP EDGES

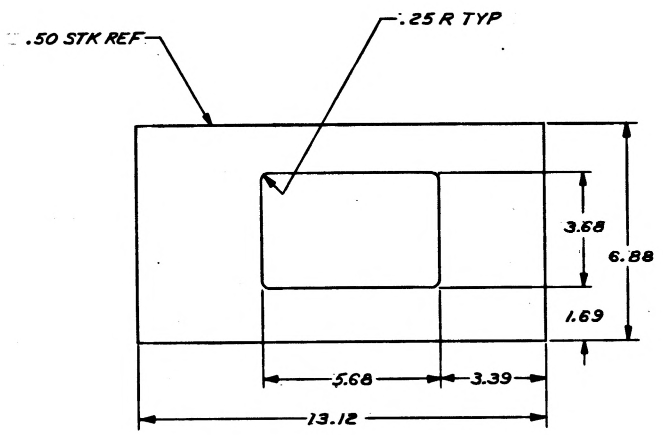
⑦
NOTES:
1. MATL: BLACK LE PHENOLIC TYPE FBE PER MIL-P-15035
2. REMOVE BURRS AND SHARP EDGES

BLOCK, MOUNTING
1014399-6
1014399-7


SPECULAR SURFACE
ON FARSIDE
.032 STK
5.45
3.40
.25 R
20.80
1.19 TYP
.49 TYP
14.12
5.36
TYP
22.30

NOTES:
1. MATL: AL 1100-H18 PER QQ-A-561, SPECULAR FINISH ON ONE SIDE
2. REMOVE BURRS AND SHARP EDGES
3. TOL: ±.03

REFLECTOR
1014399-10


.50 STK REF
.25 R TYP
3.68
6.88
1.69
5.68
3.39
13.12

INSULATION
1014399-15

NOTES:
1. MATL: MAKE FROM 1006684-1
2. TOL: ±.06

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. [illegible] DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

NEXT ASSY | USED ON
APPLICATION

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN R.C. Taylor DATE 5 OCT 63
CHECKED W. J. Gifford 5 OCT 63
APPROVAL [illegible] 10 OCT 63
APPROVAL [illegible] 10/14/63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

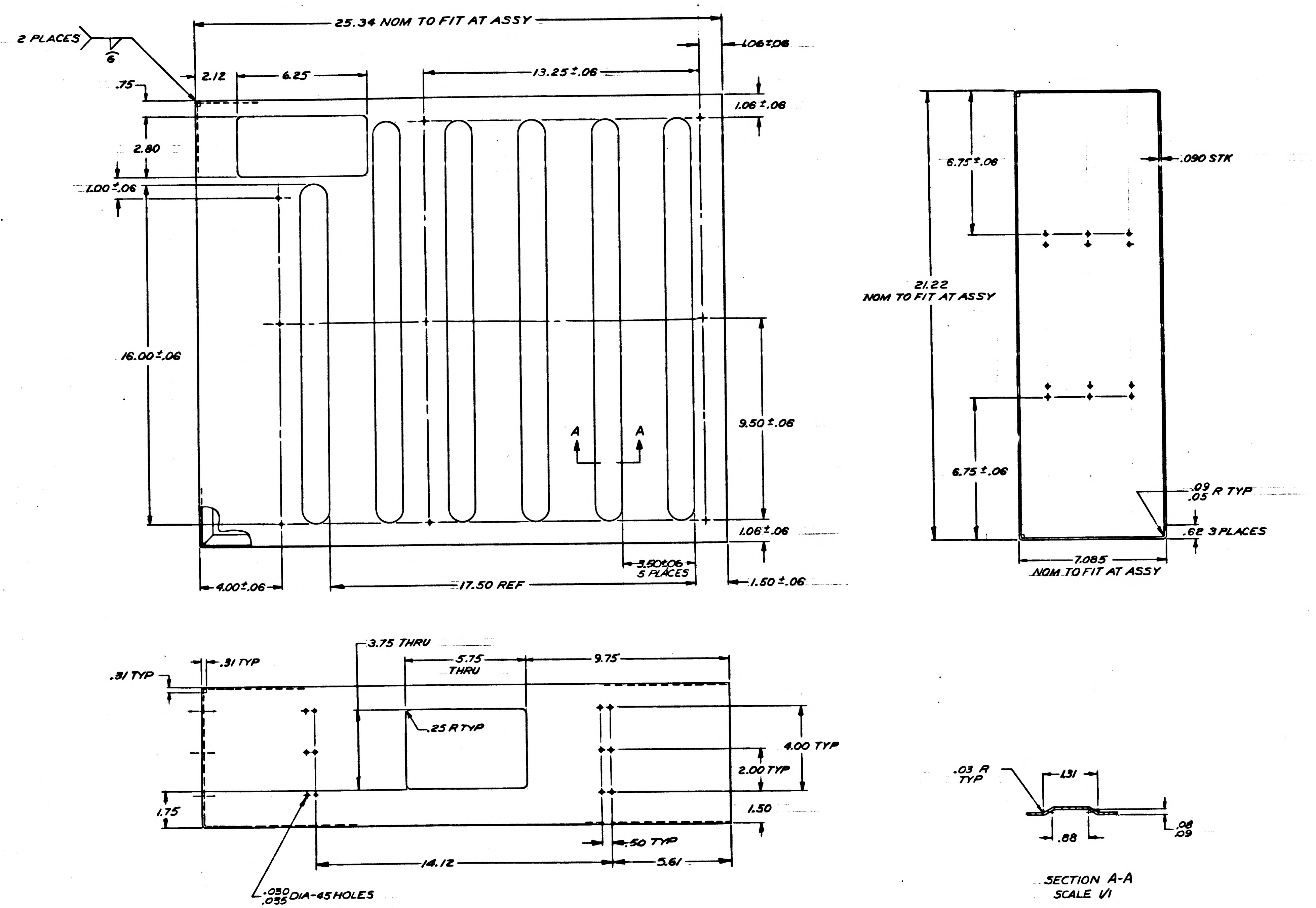
COVER, THERMAL INSULATOR

CODE IDENT NO. — SIZE J NASA DRAWING NO 1014399
SCALE 1/2 WT SHEET 2 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR [illegible]	[illegible]	


2 PLACES
6
25.34 NOM TO FIT AT ASSY
1.06±.06
.75
2.12
6.25
13.25±.06
1.06±.06
2.80
1.00±.06
16.00±.06
9.50±.06
A
A
1.06±.06
3.50±.06 5 PLACES
4.00±.06
17.50 REF
1.50±.06
6.75±.06
.090 STK
21.22 NOM TO FIT AT ASSY
6.75±.06
.09 .05 R TYP
.62 3 PLACES
7.085 NOM TO FIT AT ASSY
3.75 THRU
.31 TYP
.31 TYP
5.75 THRU
9.75
.25 R TYP
4.00 TYP
2.00 TYP
1.75
1.50
.50 TYP
14.12
5.61
.030 .035 DIA-45 HOLES
.03 R TYP
1.31
.88
.08 .09
SECTION A-A
SCALE 1/1

COVER
1014399-1

NOTES
1. MATL 5052-H32 AL PER QQ-A-318
2. REMOVE BURRS AND SHARP EDGES
3. WELD PER MIL-W-8604

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. [illegible] DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN [illegible] DATE [illegible]
CHECKED W. J. Gifford 4 OCT 63
APPROVAL [illegible] 4 OCT 63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER, THERMAL INSULATOR

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014399
SCALE 1/2
WT
SHEET 3 OF 8

INCHES
PHOTOGRAPHIC SCALE ONLY

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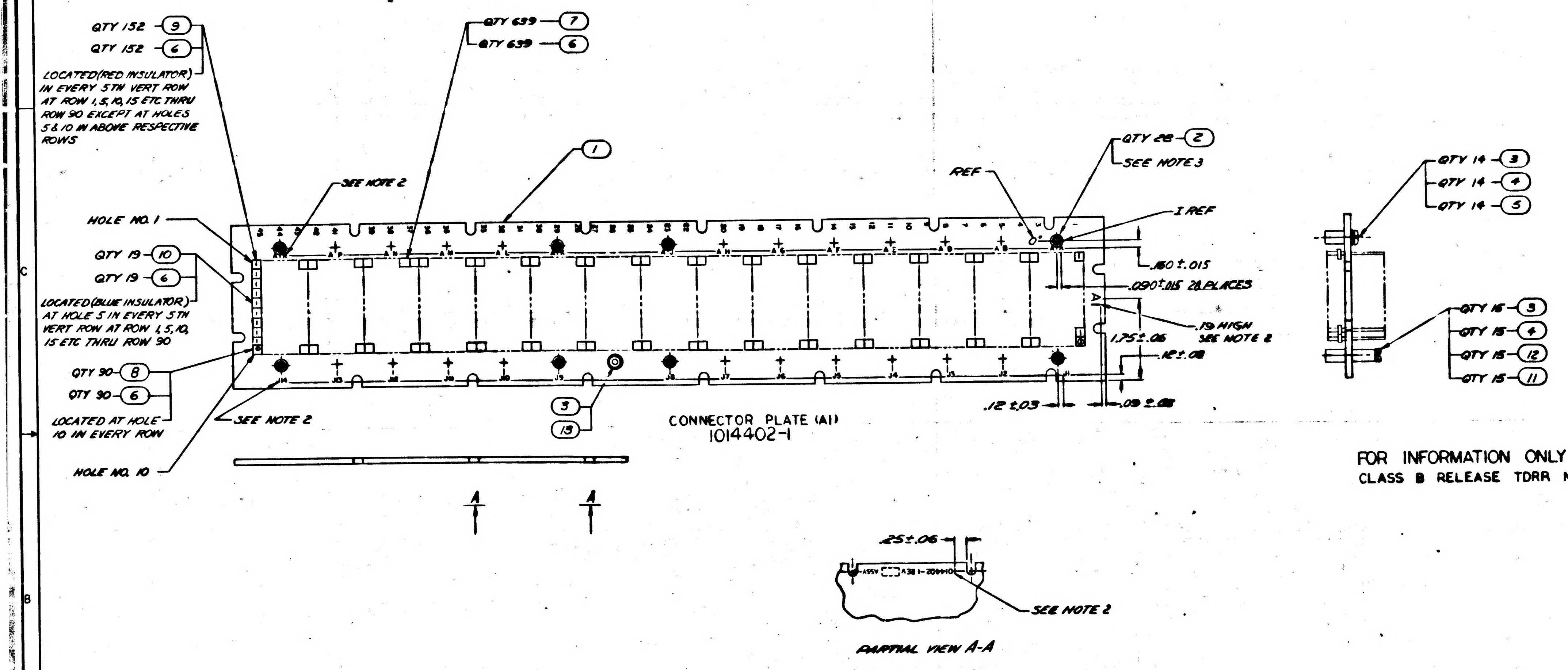
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R 5585 DR C. [illegible] CHK T. [illegible] APPD KWM	[illegible]	[illegible]
B	CHANGED PER TDRR 09761 DR B Katsube CHK [illegible] APPD [illegible]	9 JUN 64	[illegible]


QTY 152 – 9
QTY 152 – 6
LOCATED (RED INSULATOR) IN EVERY 5TH VERT ROW AT ROW 1, 5, 10, 15 ETC THRU ROW 90 EXCEPT AT HOLES 5 & 10 IN ABOVE RESPECTIVE ROWS
QTY 639 – 7
QTY 639 – 6
1
SEE NOTE 2
HOLE NO. 1
QTY 19 – 10
QTY 19 – 6
LOCATED (BLUE INSULATOR) AT HOLE 5 IN EVERY 5TH VERT ROW AT ROW 1, 5, 10, 15 ETC THRU ROW 90
QTY 90 – 8
QTY 90 – 6
LOCATED AT HOLE 10 IN EVERY ROW
SEE NOTE 2
HOLE NO. 10
3
13
CONNECTOR PLATE (A1)
1014402-1
A
A
REF
QTY 28 – 2
SEE NOTE 3
I REF
.150 ± .015
.090 ± .015 28 PLACES
.19 HIGH
SEE NOTE 2
1.75 ± .06
.12 ± .03
.12 ± .03
.09 ± .03
QTY 14 – 3
QTY 14 – 4
QTY 14 – 5
QTY 15 – 3
QTY 15 – 4
QTY 15 – 12
QTY 15 – 11
.25 ± .06
SEE NOTE 2
PARTIAL VIEW A-A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03143 DATE 7/11/63

NOTES
1. ASSEMBLE FIND NO. 6 & 7, FIND NO. 6 & 8 TO FIND NO. 1 AS SHOWN
2. MARK .08 HIGH CHARACTERS UNLESS OTHERWISE SPECIFIED BLACK PER ND1002019
3. LOCATE & INSTALL FIND NO. 2 PER KEY CODE MARKING USING DWG NO. 1014047

B	B	B
A	A	A
—	—	—
SH 1	SH 2	SH 3

REV STATUS OF SHEETS

REV STATUS OF ASSY	
PART NO.	REV SYMBOL
1014402-1	A
1014402-2	A
1014402-3	A

QTY REQD -3	QTY REQD -2	QTY REQD -1	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
—	4	1	MS35649-64	NUT, PLAIN HEX	13
15	15	15	MS35233-34	SCREW, PAN HD	12
15	15	15	1014485	SLEEVE, SPACER	11
19	19	19	1010383-3	INSULATOR BUSHING MALE WRAPOST	10
152	152	152	1010383-2	INSULATOR BUSHING MALE WRAPOST	9
90	90	90	1006977	SLEEVE GROUNDING, MALE	8
639	639	639	1010383-1	INSULATOR BUSHING MALE WRAPOST	7
900	900	900	1006996-5	CONTACT, ELEC, MALE WRAPOST	6
15	11	14	MS35233-29	SCREW, PAN HD	5
30	26	29	MS35338-79	WASHER, LOCK	4
30	30	30	1006997	WASHER, FLAT	3
30	22	28	1014212	STANDOFF, PROGRAM	2
1	1	1	1014384	PLATE ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014411	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

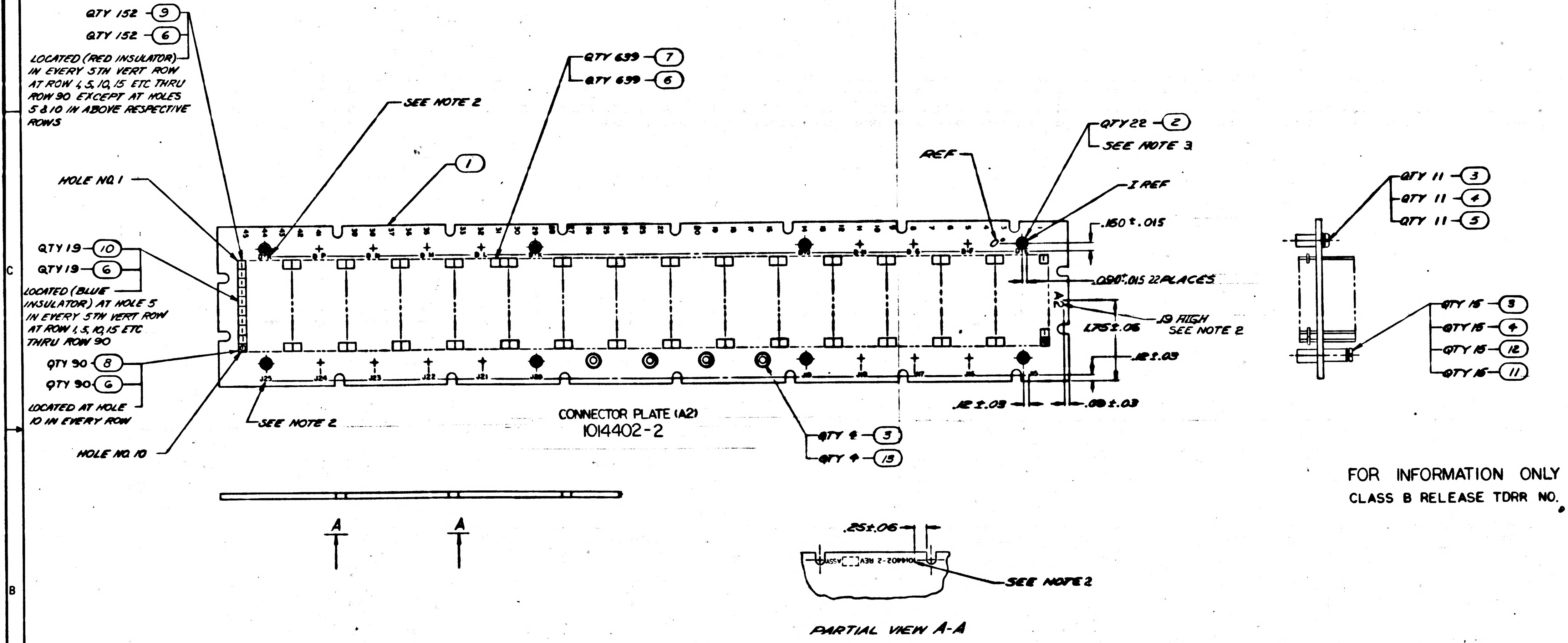
RAYTHEON CO.
LEXINGTON MASS.
CONTRACT NO. NAS 9-[illegible]
DRAWN [illegible] DATE 12/[illegible]/63
CHECKED D. [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR PLATE
ASSEMBLY

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014402
SCALE 1/1
WT
SHEET 1 OF 3

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5585 DR C. Carfagni CHK T. Dowd APPD Hum	11/13/63	JJ8
B	CHANGED PER TDRR 09761 DR AKatuk CHK W. Bryan APPD	9 JUN 64	KEB


QTY 152 (9)
QTY 152 (6)
LOCATED (RED INSULATOR) IN EVERY 5TH VERT ROW AT ROW 1, 5, 10, 15 ETC THRU ROW 90 EXCEPT AT HOLES 5 & 10 IN ABOVE RESPECTIVE ROWS
QTY 639 (7)
QTY 639 (6)
SEE NOTE 2
(1)
HOLE NO. 1
QTY 19 (10)
QTY 19 (6)
LOCATED (BLUE INSULATOR) AT HOLE 5 IN EVERY 5TH VERT ROW AT ROW 1, 5, 10, 15 ETC THRU ROW 90
QTY 90 (8)
QTY 90 (6)
LOCATED AT HOLE 10 IN EVERY ROW
HOLE NO. 10
SEE NOTE 2
J25
J24
J23
J22
J21
J20
J16
J17
J18
J15
CONNECTOR PLATE (A2)
1014402-2
REF
QTY 22 (2)
SEE NOTE 3
I REF
.150 ±.015
.090 ±.015 22 PLACES
A2
.19 HIGH
SEE NOTE 2
1.75 ±.06
.12 ±.03
.12 ±.03
.09 ±.03
QTY 4 (3)
QTY 4 (13)
QTY 11 (3)
QTY 11 (4)
QTY 11 (5)
QTY 15 (3)
QTY 15 (4)
QTY 15 (12)
QTY 15 (11)
A
A
.25 ±.06
1014402-2 REV [ ] ASSY
SEE NOTE 2
PARTIAL VIEW A-A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03143 DATE 9/13/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

1014411	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

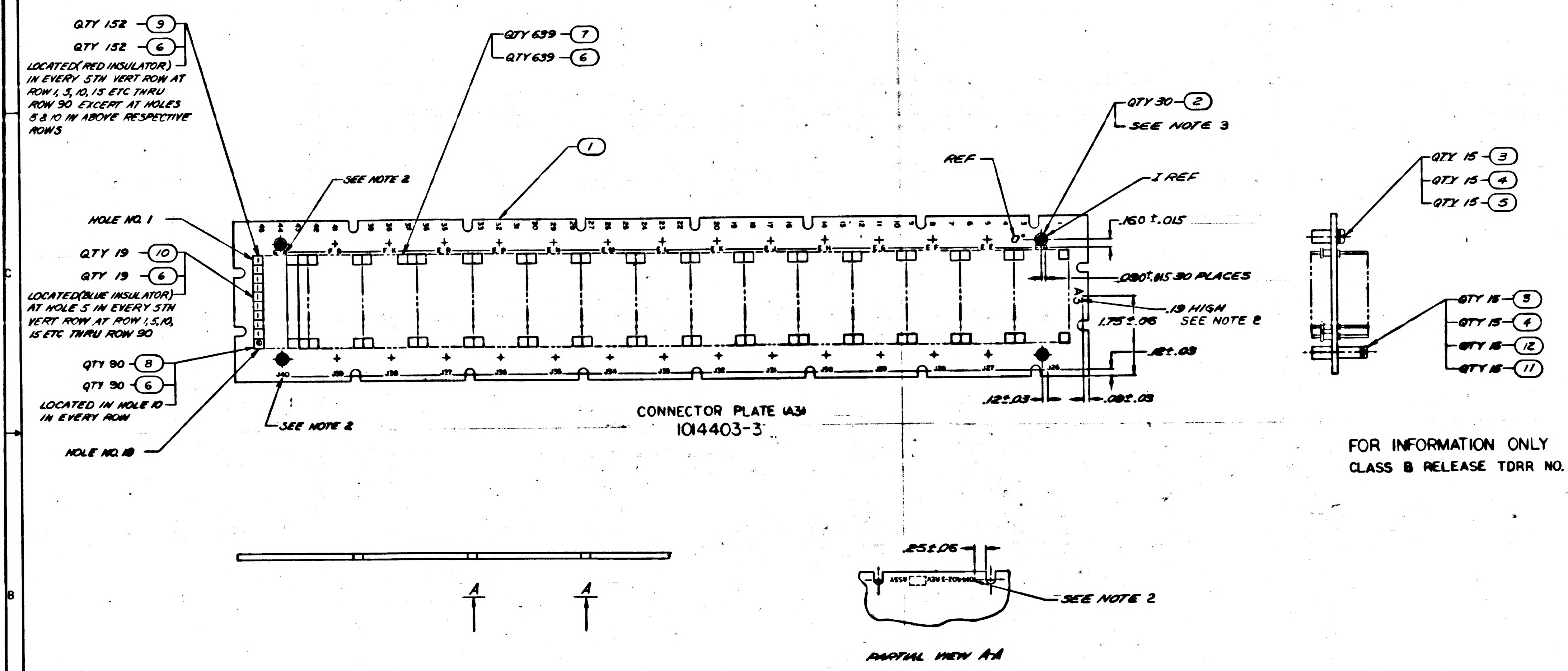
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN R. Bellinger DATE 20 Jul 63
CHECKED D. Perrone 5 Aug 63
APPROVAL C. Sarolen
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 13 Aug 63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR PLATE
ASSEMBLY

CODE IDENT NO. —— SIZE F NASA DRAWING NO. 1014402
SCALE 1/1 WT SHEET 2 OF 3

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R 5585 DR C. [illegible] CHK [illegible] APPD [illegible]	[illegible]	[illegible]
B	CHANGED PER TDRR 09761 DR [illegible] CHK [illegible] APPD [illegible]	9 JUN 64	KCS


QTY 152 — 9
QTY 152 — 6
LOCATED (RED INSULATOR) IN EVERY 5TH VERT ROW AT ROW 1, 5, 10, 15 ETC THRU ROW 90 EXCEPT AT HOLES 5 & 10 IN ABOVE RESPECTIVE ROWS
QTY 639 — 7
QTY 639 — 6
1
SEE NOTE 2
HOLE NO. 1
QTY 19 — 10
QTY 19 — 6
LOCATED (BLUE INSULATOR) AT HOLE 5 IN EVERY 5TH VERT ROW AT ROW 1, 5, 10, 15 ETC THRU ROW 90
QTY 90 — 8
QTY 90 — 6
LOCATED IN HOLE 10 IN EVERY ROW
HOLE NO. 10
J40
SEE NOTE 2
REF
I REF
QTY 30 — 2
SEE NOTE 3
.160 ± .015
.030 ± .015 30 PLACES
.19 HIGH SEE NOTE 2
1.75 ± .06
.12 ± .03
.12 ± .03
.08 ± .03
QTY 15 — 3
QTY 15 — 4
QTY 15 — 5
QTY 15 — 3
QTY 15 — 4
QTY 15 — 12
QTY 15 — 11
A
A
.25 ± .06
SEE NOTE 2
PARTIAL VIEW A-A

CONNECTOR PLATE (A3)
1014403-3

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03143 DATE 9/12/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014411	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 22 [illegible] 63
CHECKED A. [illegible] 5 AUG 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR PLATE
ASSEMBLY

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014402
SCALE 1/1
WT
SHEET 3 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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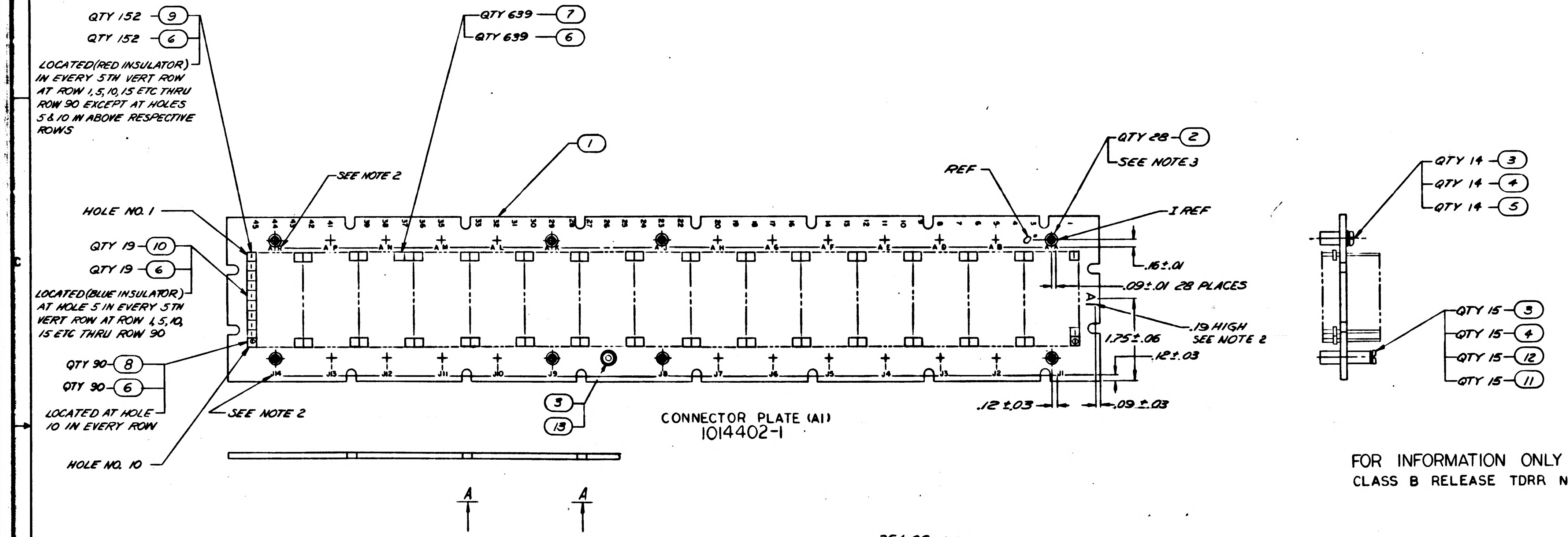
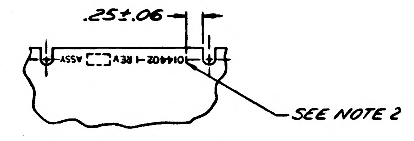
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		


QTY 152 — 9
QTY 152 — 6
LOCATED (RED INSULATOR) IN EVERY 5TH VERT ROW AT ROW 1, 5, 10, 15 ETC THRU ROW 90 EXCEPT AT HOLES 5 & 10 IN ABOVE RESPECTIVE ROWS
QTY 639 — 7
QTY 639 — 6
1
SEE NOTE 2
REF
QTY 28 — 2
SEE NOTE 3
I REF
HOLE NO. 1
QTY 19 — 10
QTY 19 — 6
LOCATED (BLUE INSULATOR) AT HOLE 5 IN EVERY 5TH VERT ROW AT ROW 1, 5, 10, 15 ETC THRU ROW 90
QTY 90 — 8
QTY 90 — 6
LOCATED AT HOLE 10 IN EVERY ROW
HOLE NO. 10
SEE NOTE 2
3
13
.16±.01
.09±.01 28 PLACES
.19 HIGH SEE NOTE 2
1.75±.06
.12±.03
.12±.03
.09±.03
CONNECTOR PLATE (A1)
1014402-1
A
A
QTY 14 — 3
QTY 14 — 4
QTY 14 — 5
QTY 15 — 3
QTY 15 — 4
QTY 15 — 12
QTY 15 — 11

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03143 DATE 7/12/63


.25±.06
ASSY [ ] REV 1014402-1
SEE NOTE 2

PARTIAL VIEW A-A

NOTES

1. ASSEMBLE FIND NO. 6 & 7, FIND NO. 6 & 8 TO FIND NO. 1 AS SHOWN
2. MARK .08 HIGH CHARACTERS UNLESS OTHERWISE SPECIFIED BLACK PER ND1002019
3. LOCATE & INSTALL FIND NO. 2 PER KEY CODE MARKING USING DWG NO. 1014047

—	—	—
SH 1	SH 2	SH 3
REV STATUS OF SHEETS		

—	4	1	MS35649-64	NUT, PLAIN HEX	13
15	15	15	MS35233-34	SCREW, PAN HD	12
15	15	15	1014485	SLEEVE, SPACER	11
19	19	19	1010383-3	INSULATOR BUSHING MALE WRAPOST	10
152	152	152	1010383-2	INSULATOR BUSHING MALE WRAPOST	9
90	90	90	1006977	SLEEVE GROUNDING, MALE	8
639	639	639	1010383-1	INSULATOR BUSHING MALE WRAPOST	7
900	900	900	1006996-5	CONTACT, ELEC, MALE WRAPOST	6
15	11	14	MS35233-29	SCREW, PAN HD	5
30	26	29	MS35338-79	WASHER, LOCK	4
30	30	30	1006997	WASHER, FLAT	3
30	22	28	1014212	STANDOFF, PROGRAM	2
1	1	1	1014384	PLATE ASSEMBLY	1
QTY REQD	QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
-3	-2	-1	LIST OF MATERIALS		

1014411	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 1 Jul 63
CHECKED D. Perrone 5 Aug 63
APPROVAL
APPROVAL 8/7/63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR PLATE
ASSEMBLY

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014402
SCALE 1/1
WT
SHEET 1 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014402

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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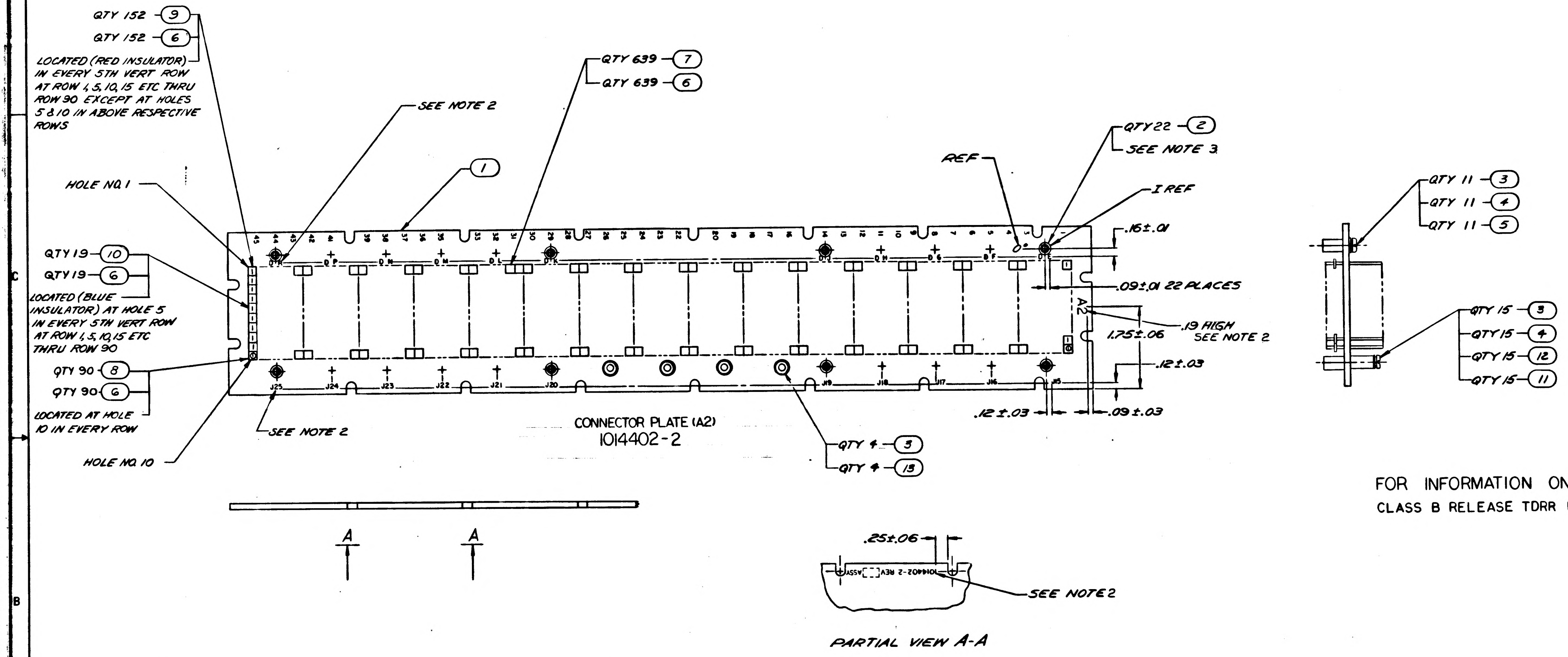
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		



QTY 152 — 9
QTY 152 — 6
LOCATED (RED INSULATOR) IN EVERY 5TH VERT ROW AT ROW 1, 5, 10, 15 ETC THRU ROW 90 EXCEPT AT HOLES 5 & 10 IN ABOVE RESPECTIVE ROWS
QTY 639 — 7
QTY 639 — 6
SEE NOTE 2
1
HOLE NO. 1
QTY 19 — 10
QTY 19 — 6
LOCATED (BLUE INSULATOR) AT HOLE 5 IN EVERY 5TH VERT ROW AT ROW 1, 5, 10, 15 ETC THRU ROW 90
QTY 90 — 8
QTY 90 — 6
LOCATED AT HOLE 10 IN EVERY ROW
HOLE NO. 10
SEE NOTE 2
REF
QTY 22 — 2
SEE NOTE 3
1 REF
.16±.01
.09±.01 22 PLACES
A2
.19 HIGH SEE NOTE 2
1.75±.06
.12±.03
.12±.03
.09±.03
J25 J24 J23 J22 J21 J20 J19 J18 J17 J16 J15
QTY 4 — 3
QTY 4 — 13
CONNECTOR PLATE (A2)
1014402-2
QTY 11 — 3
QTY 11 — 4
QTY 11 — 5
QTY 15 — 3
QTY 15 — 4
QTY 15 — 12
QTY 15 — 11
A
A

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 63143 DATE 9/12/63

.25±.06
ASSY [ ] REV 1014402-2
SEE NOTE 2

PARTIAL VIEW A-A

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014411	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN R. Belanger DATE 20 Jul 63
CHECKED A. Perrone 5 AUG 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL W. J. [illegible]
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR PLATE
ASSEMBLY

CODE IDENT NO. — SIZE F NASA DRAWING NO. 1014402
SCALE 1/1 WT SHEET 2 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014402

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

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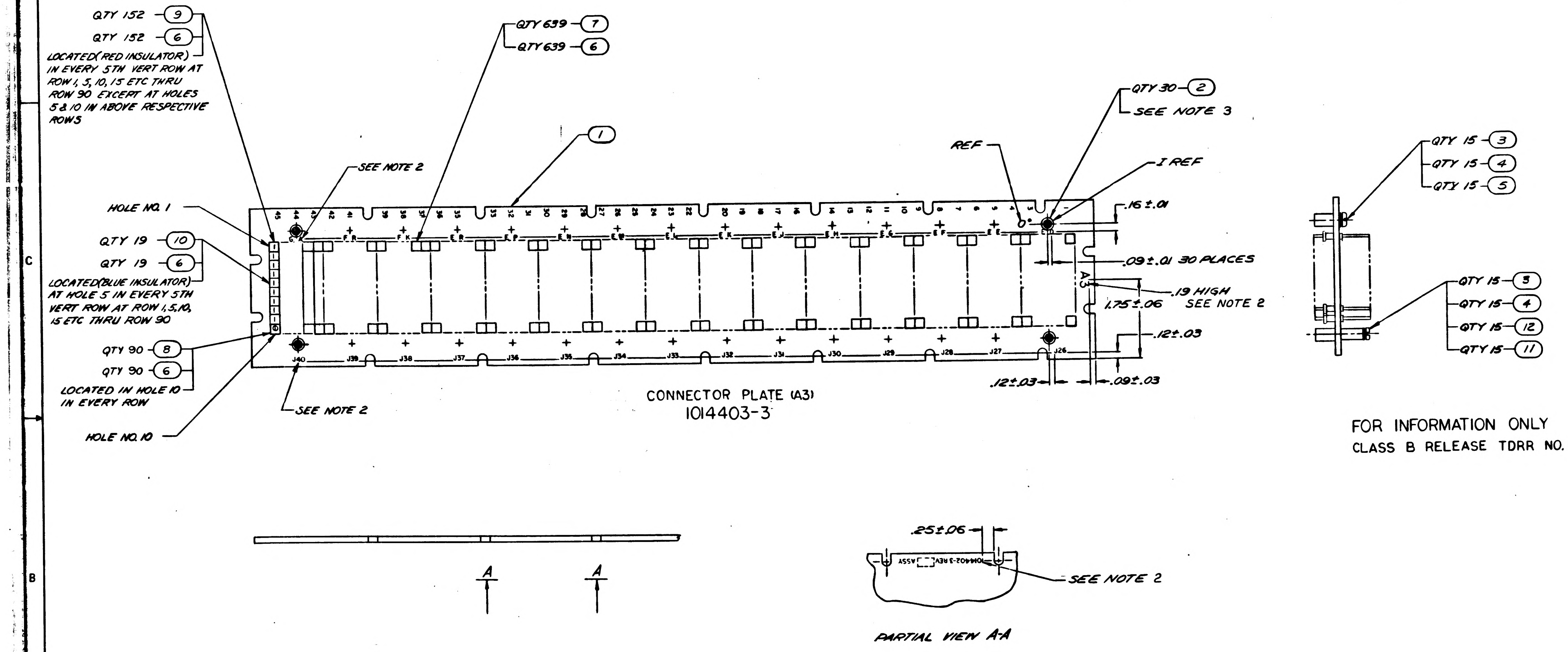
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		


QTY 152 — 9
QTY 152 — 6
LOCATED (RED INSULATOR) IN EVERY 5TH VERT ROW AT ROW 1, 5, 10, 15 ETC THRU ROW 90 EXCEPT AT HOLES 5 & 10 IN ABOVE RESPECTIVE ROWS
QTY 639 — 7
QTY 639 — 6
SEE NOTE 2
1
HOLE NO. 1
QTY 19 — 10
QTY 19 — 6
LOCATED (BLUE INSULATOR) AT HOLE 5 IN EVERY 5TH VERT ROW AT ROW 1, 5, 10, 15 ETC THRU ROW 90
QTY 90 — 8
QTY 90 — 6
LOCATED IN HOLE 10 IN EVERY ROW
HOLE NO. 10
SEE NOTE 2
J40
J39
J38
J37
J36
J35
J34
J33
J32
J31
J30
J29
J28
J27
J26
QTY 30 — 2
SEE NOTE 3
REF
I REF
.16 ±.01
.09 ±.01 30 PLACES
A3
.19 HIGH SEE NOTE 2
1.75 ±.06
.12 ±.03
.12 ±.03
.09 ±.03
QTY 15 — 3
QTY 15 — 4
QTY 15 — 5
QTY 15 — 3
QTY 15 — 4
QTY 15 — 12
QTY 15 — 11
A
A
.25 ±.06
1014402-3 REV ☐ ASSY
SEE NOTE 2

CONNECTOR PLATE (A3)
1014403-3

PARTIAL VIEW A-A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03143 DATE 9/12/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014411	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 22 Jul 63
CHECKED 5 AUG 63
APPROVAL
APPROVAL 8/13/63
APPROVAL
NASA APPROVAL
MIT APPROVAL 12 Aug 63
MIT APPROVAL 9/4/63

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HOUSTON, TEXAS

CONNECTOR PLATE
ASSEMBLY

CODE IDENT NO. —
SIZE F
NASA DRAWING NO 1014402
SCALE 1/1
WT
SHEET 3 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 2
PHOTOGRAPHIC SCALE ONLY

1014402

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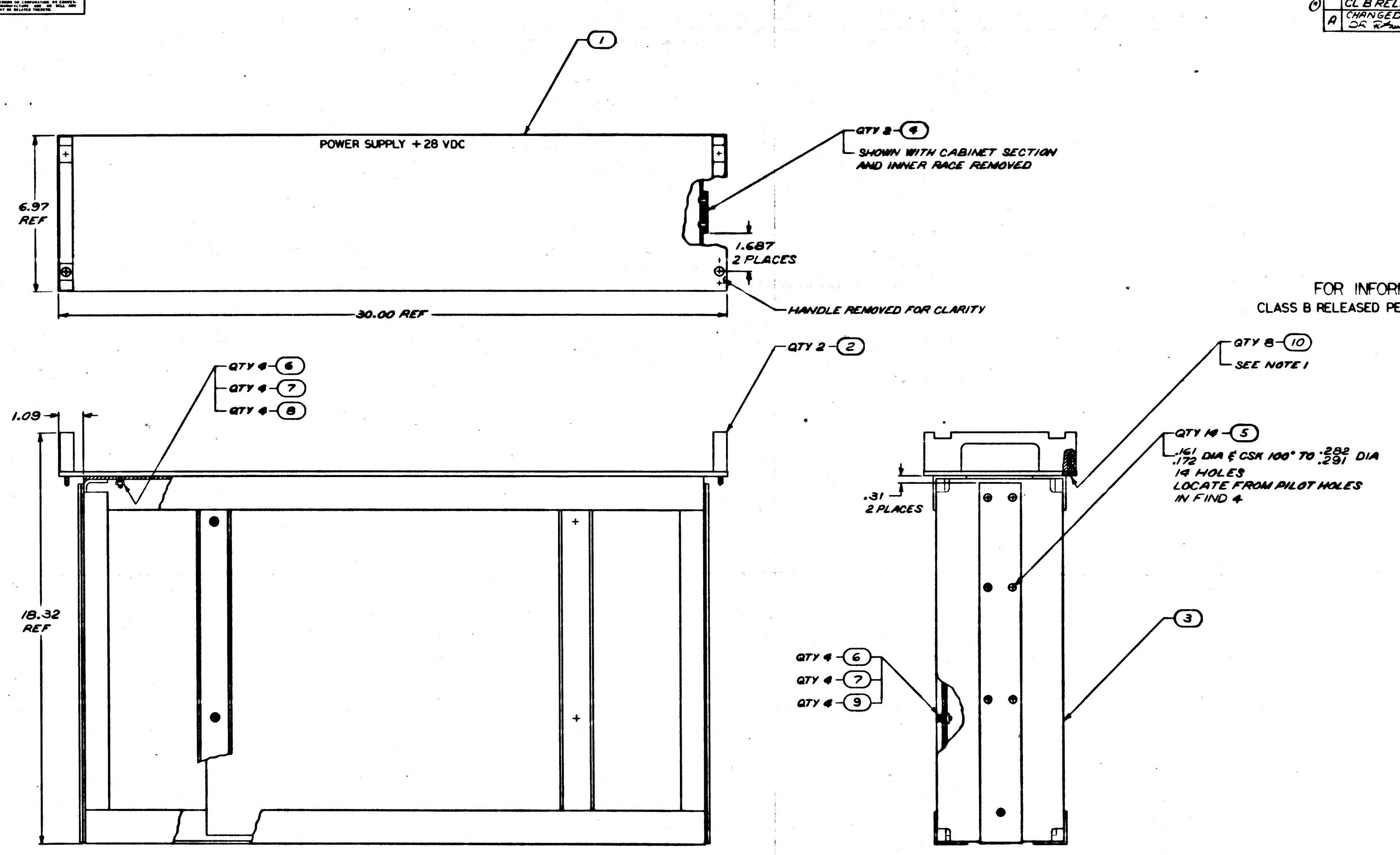
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
ⓐ	CL B RELEASED PER TDRR NO.		
A	CHANGED PER TDRR 10603 DR R. Bartlett CHK APPD	20 JUL 64	KER



1
POWER SUPPLY +28 VDC
QTY 2 – 4
SHOWN WITH CABINET SECTION AND INNER RACE REMOVED
6.97 REF
1.687 2 PLACES
HANDLE REMOVED FOR CLARITY
30.00 REF
QTY 2 – 2
QTY 4 – 6
QTY 4 – 7
QTY 4 – 8
1.09
18.32 REF
QTY 8 – 10
SEE NOTE 1
QTY 14 – 5
.161/.172 DIA & CSK 100° TO .282/.291 DIA
14 HOLES
LOCATE FROM PILOT HOLES IN FIND 4
.31 2 PLACES
3
QTY 4 – 6
QTY 4 – 7
QTY 4 – 9

FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. 02910 DATE 9-15-63

NOTES
1. ASSEMBLE FIND NO. 10 TO FIND NO. 2 USING FIND NO. 11

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
A/R	MIL-S-40083 CL 31	SEALING COMPOUND	11
8	MS35200-42	SCREW, MACH FLAT HD	10
4	MS35216-43	SCREW, MACH PAN HD	9
4	MS35649-84	NUT, PLAIN HEX	8
8	MS35337-80	WASHER, LOCK	7
8	MS15795-307	WASHER, FLAT	6
14	MS20426AD5-10	RIVET, FLAT HD	5
2	1006660	SLIDE, CHASSIS QUICK DISCONNECT	4
1	1014383	FRAME, ASSY	3
2	1014215-3	HANDLE, ASSY	2
1	1006887	POWER SUPPLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±.005 ±.02
ANGLES ±1/2°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE
CHECKED 8 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 9/5/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER SUPPLY ASSY
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —
SIZE F
NASA DRAWING NO 1014404
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASED PER TDRR NO.		
A	CHANGED PER TDRR 10603 DR [illegible] CHK [illegible] APPD [illegible]	20 JUL 64	[illegible]
B	CHANGED PER TDRR 13698 DR [illegible] CHK RTD APPD H. [illegible]	13 NOV 64	[illegible]

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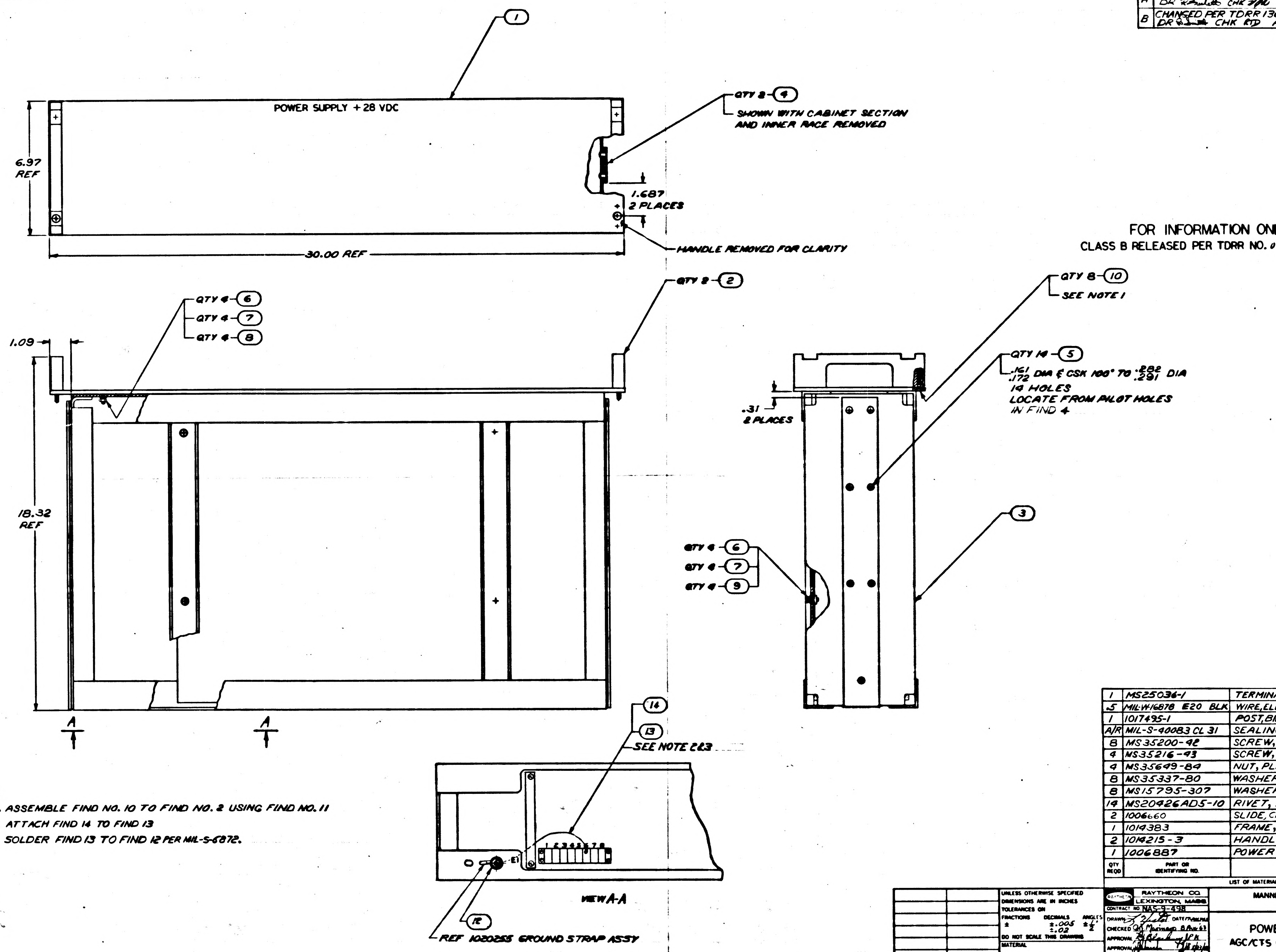
CLASS B RELEASED PER TDRR NO. 02910 DATE 9-15-63


1
POWER SUPPLY + 28 VDC
QTY 2 – 4
SHOWN WITH CABINET SECTION AND INNER RACE REMOVED
6.97 REF
1.687 2 PLACES
HANDLE REMOVED FOR CLARITY
30.00 REF
QTY 2 – 2
QTY 4 – 6
QTY 4 – 7
QTY 4 – 8
1.09
18.32 REF
QTY 8 – 10
SEE NOTE 1
QTY 14 – 5
.161/.172 DIA & CSK 100° TO .282/.291 DIA
14 HOLES
LOCATE FROM PILOT HOLES
IN FIND 4
.31 2 PLACES
QTY 4 – 6
QTY 4 – 7
QTY 4 – 9
3
A
A
14
13
SEE NOTE 2&3
1 2 3 4 5 6 7 8
E1
VIEW A-A
12
REF 1020255 GROUND STRAP ASSY

NOTES
1. ASSEMBLE FIND NO. 10 TO FIND NO. 2 USING FIND NO. 11
2. ATTACH FIND 14 TO FIND 13
3. SOLDER FIND 13 TO FIND 12 PER MIL-S-6872.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	MS25036-1	TERMINAL LUG, CRIMP STYLE, INSUL	14
.5	MIL-W-16878 E20 BLK	WIRE, ELECTRICAL	13
1	1017495-1	POST, BINDING	12
A/R	MIL-S-40083 CL 31	SEALING COMPOUND	11
8	MS35200-42	SCREW, MACH FLAT HD	10
4	MS35216-43	SCREW, MACH PAN HD	9
4	MS35649-84	NUT, PLAIN HEX	8
8	MS35337-80	WASHER, LOCK	7
8	MS15795-307	WASHER, FLAT	6
14	MS20426AD5-10	RIVET, FLAT HD	5
2	1006660	SLIDE, CHASSIS QUICK DISCONNECT	4
1	1014383	FRAME, ASSY	3
2	1014215-3	HANDLE, ASSY	2
1	1006887	POWER SUPPLY	1

LIST OF MATERIALS

1014404

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±1/2°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN [illegible] DATE [illegible]
CHECKED [illegible] 8 Aug 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER SUPPLY ASSY
AGC/CTS OPERATION CONSOLE

CODE IDENT NO —— SIZE F NASA DRAWING NO 1014404
SCALE 1/2 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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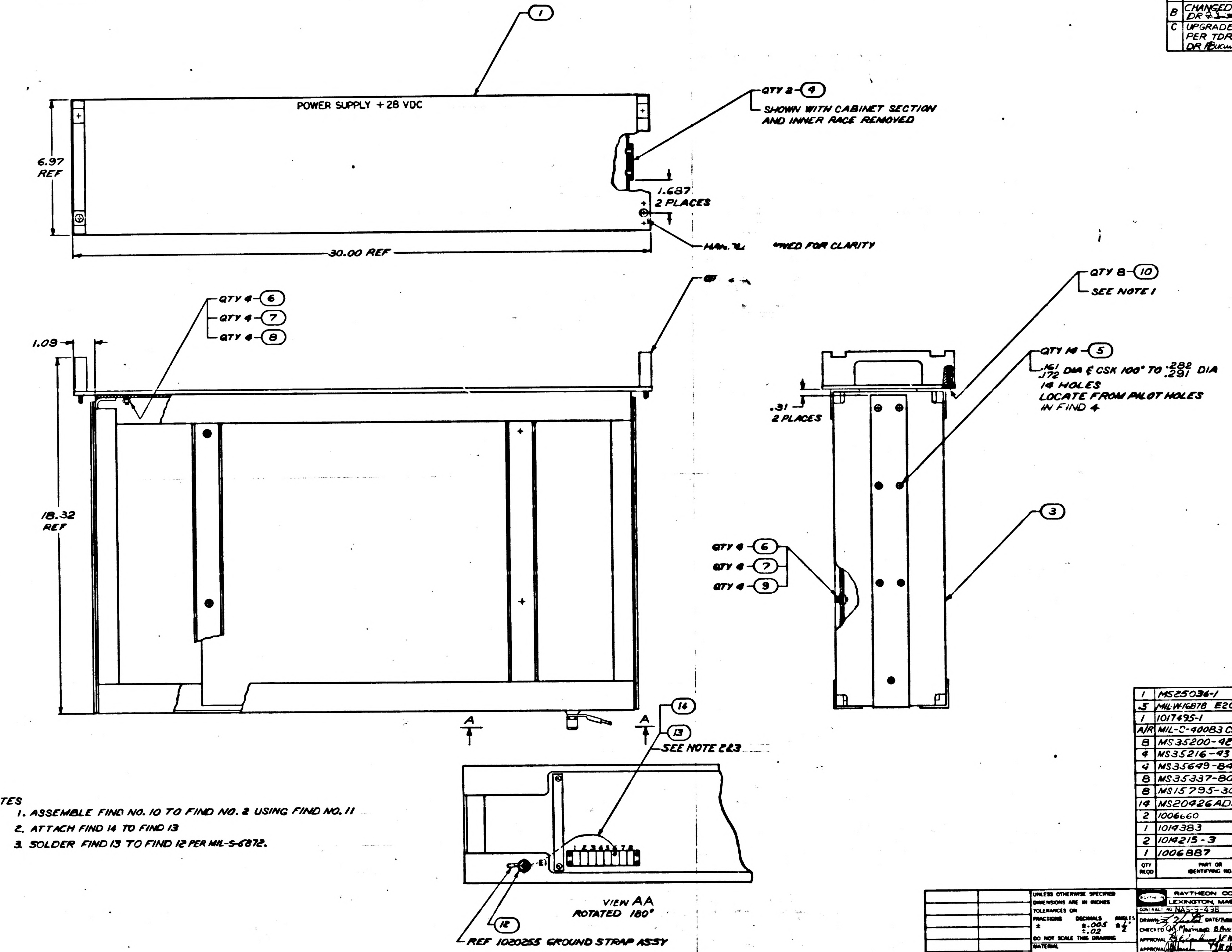
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASED PER TDRR NO.		
A	CHANGED PER TDRR 10603 DR CHK APPD	20 JUL 64	
B	CHANGED PER TDRR 13698 DR CHK RTD APPD	13 NOV 64	
C	UPGRADE TO CLASS A WITH CHANGE PER TDRR 15619 DR CHK APPD	9 FEB 65	



POWER SUPPLY +28 VDC
1
6.97 REF
30.00 REF
QTY 2 - 4
SHOWN WITH CABINET SECTION AND INNER RACE REMOVED
1.687 2 PLACES
HAN... ...VED FOR CLARITY
QTY 4 - 6
QTY 4 - 7
QTY 4 - 8
1.09
18.32 REF
QTY 8 - 10
SEE NOTE 1
QTY 14 - 5
.161/.172 DIA & CSK 100° TO .282/.291 DIA
14 HOLES
LOCATE FROM PILOT HOLES IN FIND 4
.31 2 PLACES
3
QTY 4 - 6
QTY 4 - 7
QTY 4 - 9
A
A
16
13
SEE NOTE 2&3
1 2 3 4 5 6 7 8
E1
12
REF 1020255 GROUND STRAP ASSY

VIEW AA
ROTATED 180°

NOTES
1. ASSEMBLE FIND NO. 10 TO FIND NO. 2 USING FIND NO. 11
2. ATTACH FIND 14 TO FIND 13
3. SOLDER FIND 13 TO FIND 12 PER MIL-S-6872.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	MS25036-1	TERMINAL LUG, CRIMP STYLE, INSUL	14
.5	MIL-W-16878 E20 BLK	WIRE, ELECTRICAL	13
1	1017495-1	POST, BINDING	12
A/R	MIL-S-40083 CL 31	SEALING COMPOUND	11
8	MS35200-42	SCREW, MACH FLAT HD	10
4	MS35216-43	SCREW, MACH PAN HD	9
4	MS35649-84	NUT, PLAIN HEX	8
8	MS35337-80	WASHER, LOCK	7
8	MS15795-307	WASHER, FLAT	6
14	MS20426AD5-10	RIVET, FLAT HD	5
2	1006660	SLIDE, CHASSIS QUICK DISCONNECT	4
1	1014383	FRAME, ASSY	3
2	1014215-3	HANDLE, ASSY	2
1	1006887	POWER SUPPLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±1/2°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE
CHECKED 8 Aug '63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 9/5/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER SUPPLY ASSY
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. ——— SIZE F NASA DRAWING NO 1014404
SCALE 1/2 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014404

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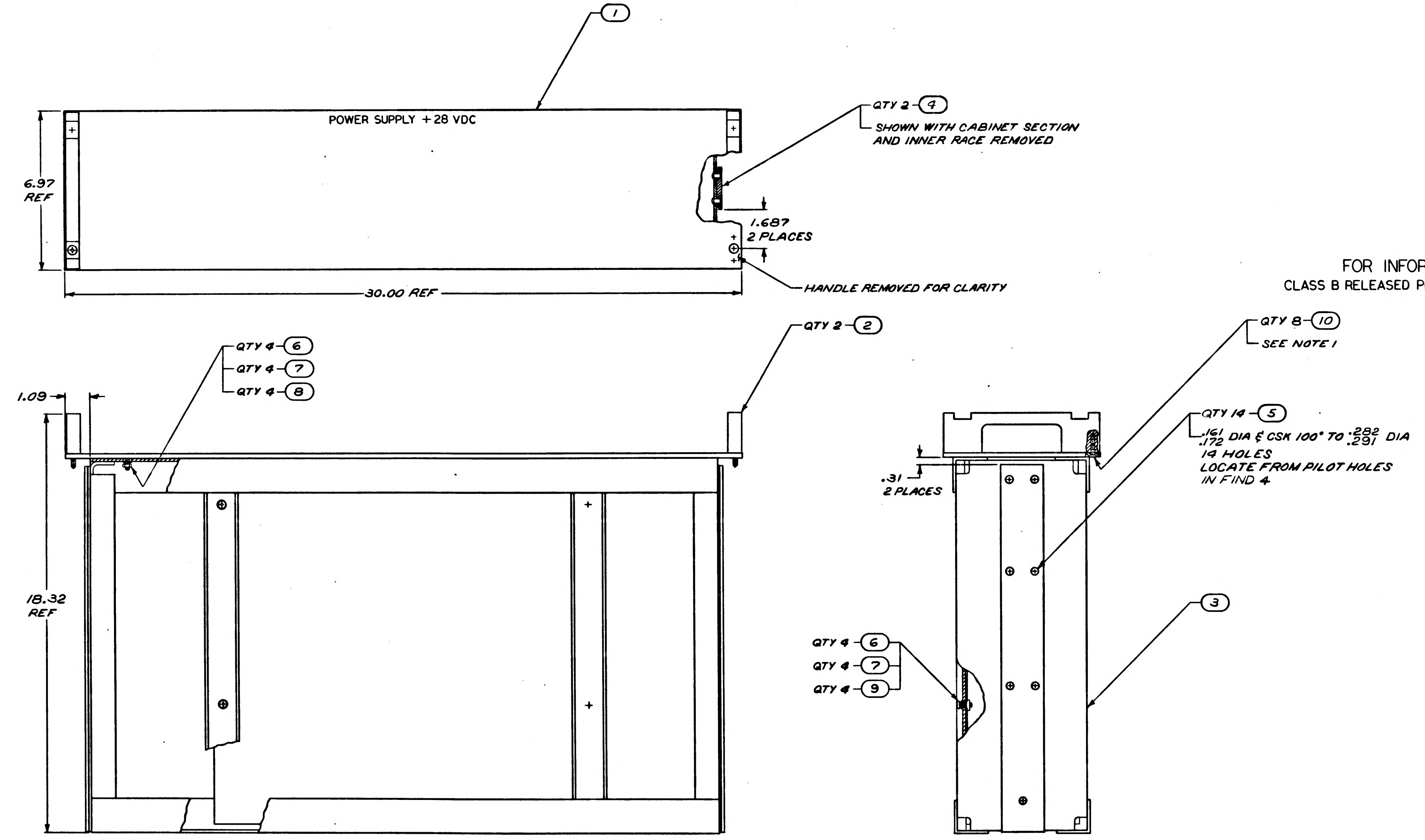
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASED PER TDRR NO.		


1
POWER SUPPLY +28 VDC
6.97 REF
30.00 REF
QTY 2 – 4
SHOWN WITH CABINET SECTION AND INNER RACE REMOVED
1.687 2 PLACES
HANDLE REMOVED FOR CLARITY
QTY 2 – 2
QTY 4 – 6
QTY 4 – 7
QTY 4 – 8
1.09
18.32 REF
QTY 8 – 10
SEE NOTE 1
QTY 14 – 5
.161/.172 DIA & CSK 100° TO .282/.291 DIA 14 HOLES LOCATE FROM PILOT HOLES IN FIND 4
.31 2 PLACES
3
QTY 4 – 6
QTY 4 – 7
QTY 4 – 9

FOR INFORMATION ONLY
CLASS B RELEASED PER TDRR NO. 02910 DATE 9-5-63

NOTES
1. ASSEMBLE FIND NO. 10 TO FIND NO. 2 USING FIND NO. 11

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
A/R	MIL-S-40083 CL 31	SEALING COMPOUND	11
8	MS35200-43	SCREW, MACH FLAT HD	10
4	MS35216-42	SCREW, MACH PAN HD	9
4	MS35649-84	NUT, PLAIN HEX	8
8	MS35337-80	WASHER, LOCK	7
8	MS15795-307	WASHER, FLAT	6
14	MS20426AD5-10	RIVET, FLAT HD	5
2	1006660	SLIDE, CHASSIS QUICK DISCONNECT	4
1	1014383	FRAME, ASSY	3
2	1014215-3	HANDLE, ASSY	2
1	1006887	POWER SUPPLY	1

LIST OF MATERIALS

1014465	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±1/2°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE
CHECKED 8 Aug '63
APPROVAL JPK
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 9/5/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

POWER SUPPLY ASSY
AGC/CTS OPERATION CONSOLE

CODE IDENT NO	SIZE	NASA DRAWING NO
	F	1014404
SCALE 1/2	WT	SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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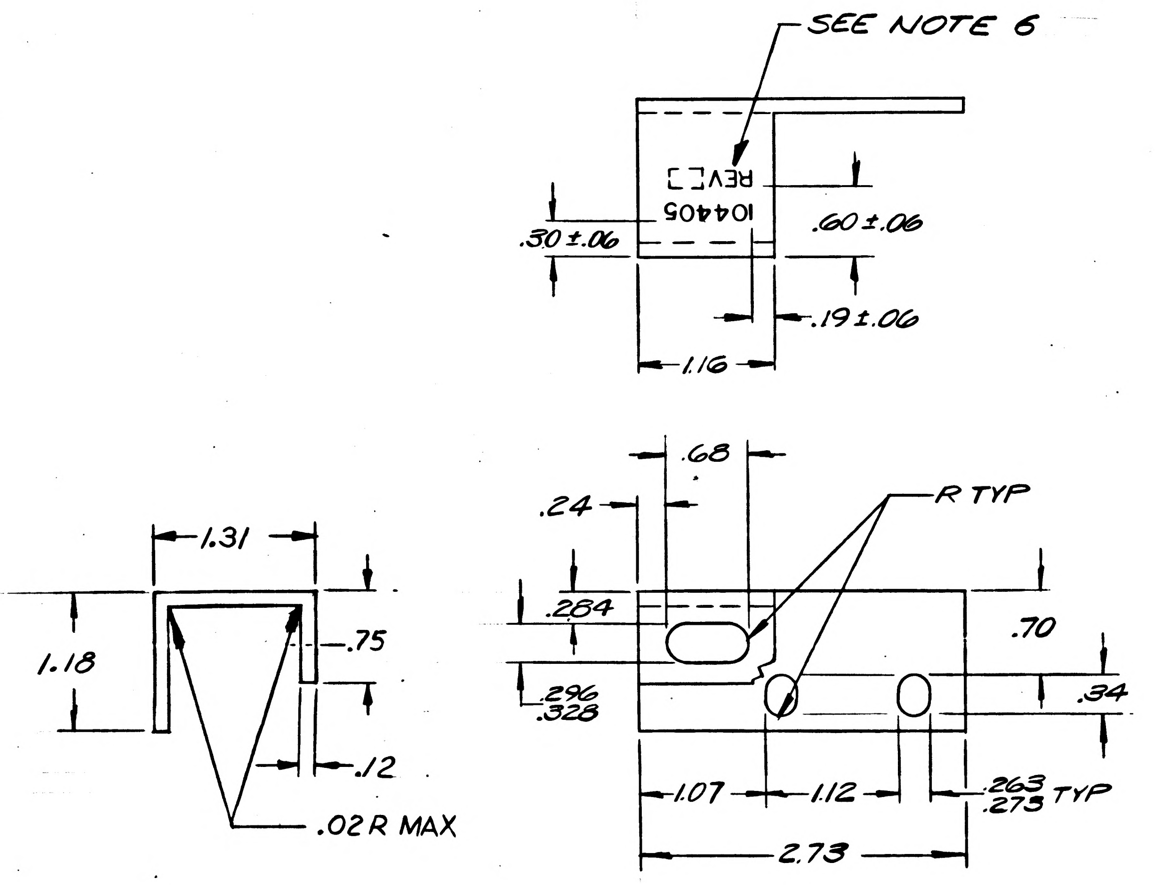
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CL II CHANGE PER RD R 5426 DR [illegible] CHK Marimoro APPD [illegible]	10-10-63	[illegible]
B	CHANGED PER TDRR 06037 DR John Manning CHK [illegible] APPD [illegible]	17 FEB 64	3/12/64 W.K.



FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 02693 DATE 21 Aug 63

NOTES:

1. MATL: AL 6061-T6 PER QQ-A-325
2. 125/ ALL OVER
3. SQUARENESS & PARALLELISM .005 IN/IN
4. REMOVE BURRS AND SHARP EDGES
5. CHROMATE FILM PER MIL-C-5541, EXCEPT TO BE ELECTRICALLY CONDUCTIVE
6. MARK .12 HIGH BLACK CHARACTERS PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN C. La Porta DATE 18 JULY 63
CHECKED A. Perroni 5 AUG 63
APPROVAL C. Sperling [illegible]
APPROVAL [illegible] 8/13/63
APPROVAL J. [illegible] 8/13/63
NASA APPROVAL [illegible] 8/26/63
MIT APPROVAL [illegible] 8/20/63
MIT APPROVAL [illegible] 8/21/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RETAINER,
CONNECTOR PLATE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014405
SCALE 1/1
WT
SHEET 1 OF 1

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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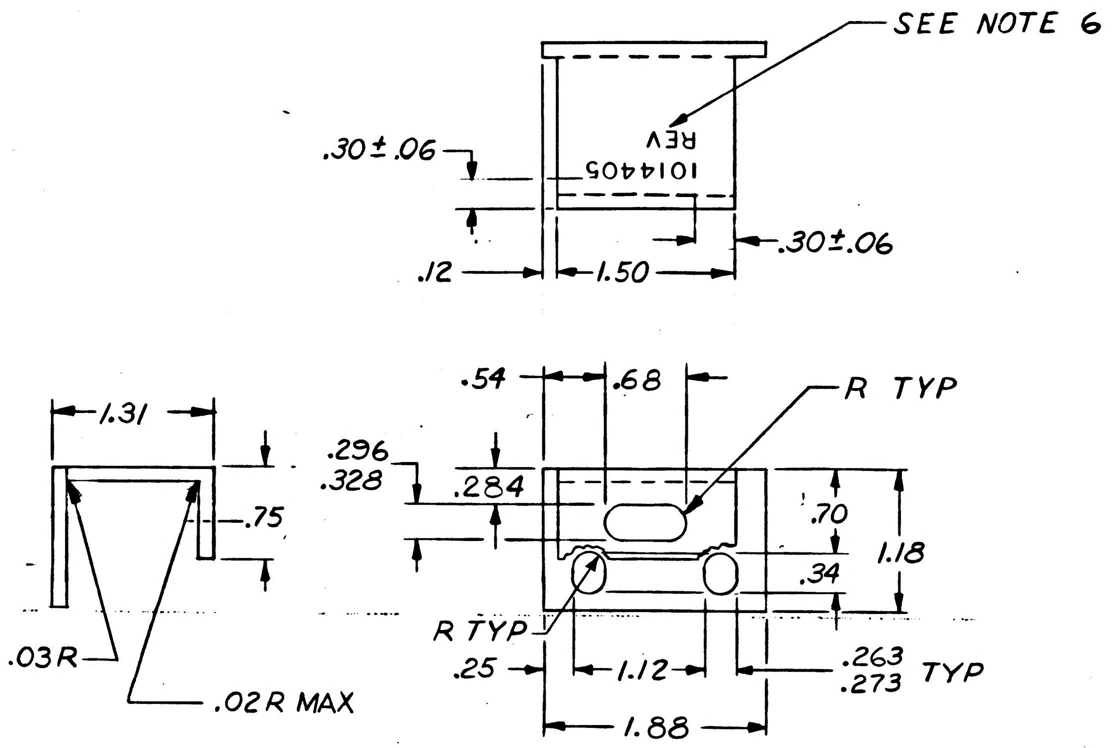
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		



FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 02693 DATE 21 Aug 63

NOTES

1. MATL AL 6061-T6 PER QQ-A-325 TEMP T6
2. 125/ ALL OVER
3. SQUARENESS & PARALLELISM .005 IN/IN
4. REMOVE BURRS AND SHARP EDGES
5. CHROMATE FILM PER MIL-C-5541 EXCEPT TO BE ELECTRICALLY CONDUCTIVE
6. MARK .12 HIGH BLACK CHARACTERS PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN C. La Porte DATE 18 JULY 63
CHECKED A. Perrone 5 AUG 63
APPROVAL C. Sperling SRK
APPROVAL JJ 8/13/63
APPROVAL J. [illegible] 8/13/63
NASA APPROVAL [illegible] 8/21/63
MIT APPROVAL [illegible] 8/20/63
MIT APPROVAL [illegible] 8/21/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RETAINER,
CONNECTOR PLATE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014405
SCALE 1/1
WT
SHEET 1 OF 1

1014405

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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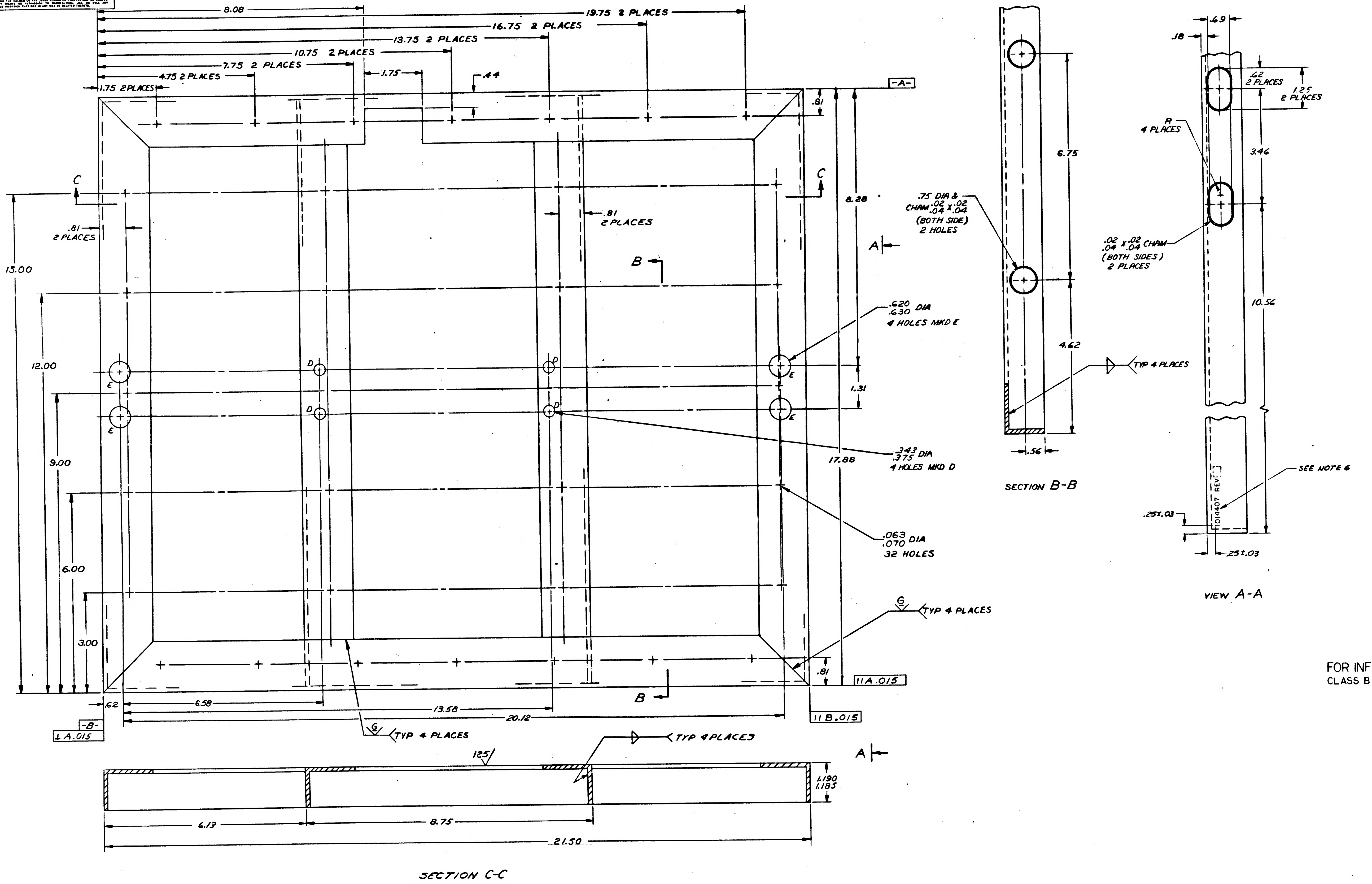
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASED PER TDRR		


5
4
3
2
1
D
C
B
A
8.08
19.75 2 PLACES
16.75 2 PLACES
13.75 2 PLACES
10.75 2 PLACES
7.75 2 PLACES
4.75 2 PLACES
1.75 2 PLACES
1.75
.44
-A-
.81
C
C
.81 2 PLACES
.81 2 PLACES
15.00
12.00
9.00
6.00
3.00
B
B
8.28
17.88
1.31
A
A
.620 .630 DIA 4 HOLES MKD E
.343 .375 DIA 4 HOLES MKD D
.063 .070 DIA 32 HOLES
E
D
G TYP 4 PLACES
.81
11 A .015
11 B .015
.62
6.58
13.58
20.12
-B-
⊥ A .015
G TYP 4 PLACES
TYP 4 PLACES
125
1.190 1.185
6.13
8.75
21.50
SECTION C-C
.75 DIA & CHAM .02 .04 X .02 .04 (BOTH SIDE) 2 HOLES
6.75
4.62
TYP 4 PLACES
.56
SECTION B-B
.69
.18
.62 2 PLACES
1.25 2 PLACES
R 4 PLACES
3.46
.02 .04 X .02 .04 CHAM (BOTH SIDES) 2 PLACES
10.56
SEE NOTE 6
1014407 REV
.25±.03
.25±.03
VIEW A-A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04307 DATE 10/20/63

NOTES:
1. MAKE FROM 1.500 X 1.500 X .125 EXTRUDED ANGLE, 6063-T5 AL PER QQ-A-274, REWORK AS SHOWN
2. REMOVE BURRS AND SHARP EDGES
3. WELD PER MIL-W-8604
4. CHROMATE TREAT PER MIL-C-5541
5. PAINT TWO (2) COATS OF DUPONT # 93-91407 OR EQUAL, SYNTHETIC ENAMEL, COLOR "CASHMERE BLUE"
6. MARK .12 HIGH BLACK CHARACTERS PER ND1002019

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014392	1020018	
NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN C.Q. McKenna DATE 6 MAY 63
CHECKED W. J. Gifford 3 OCT 63
APPROVAL H. Moyer 14 OCT 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRAME
HANDLING FIXTURE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014407
SCALE 1/1 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014407

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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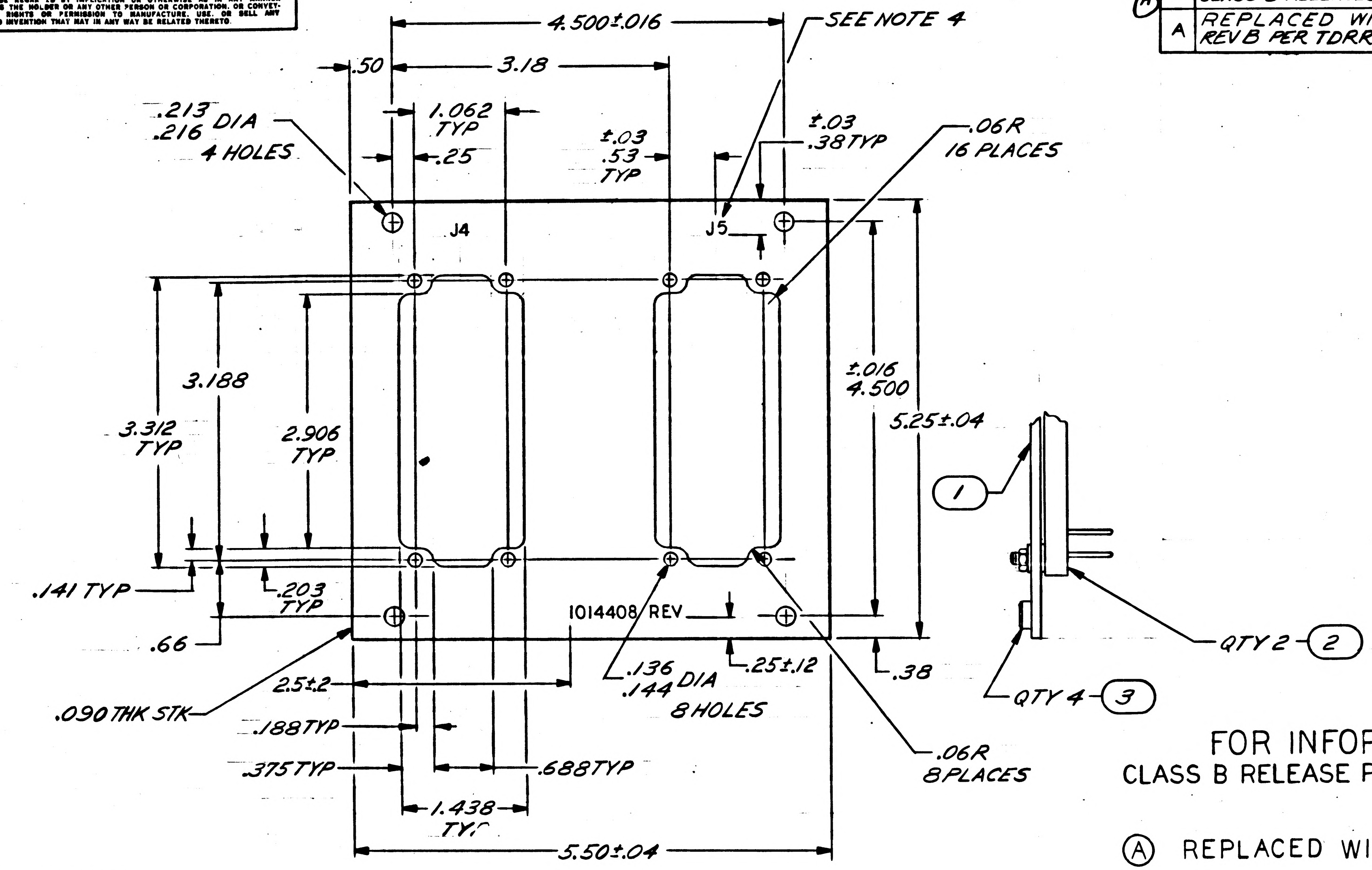
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 02529	14 Aug 63	WK
A	REPLACED WITH CHANGE BY REV B PER TDRR 03839	10-9-63	WK



4.500±.016
SEE NOTE 4
.50
3.18
.213
.216 DIA
4 HOLES
1.062
TYP
.25
±.03
.53
TYP
±.03
.38 TYP
.06R
16 PLACES
J4
J5
3.188
3.312
TYP
2.906
TYP
±.016
4.500
5.25±.04
1
.141 TYP
.203
TYP
.66
1014408 REV
.090 THK STK
2.5±.2
.136
.144 DIA
8 HOLES
.25±.12
.38
QTY 2
2
QTY 4
3
.188 TYP
.375 TYP
.688 TYP
.06R
8 PLACES
1.438
TYP
5.50±.04

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02529 DATE 14 Aug 63

Ⓐ REPLACED WITH CHANGE BY REV B

NOTES
1. MATL AL 6061-T6 PER QQ-A-327, TEMP T6
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541
4. MARK .12 HIGH BLACK PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
4	1006989-15	NUT, SELF-CLINCHING	3
2	1006807	CONNECTOR	2
1	1014408-1	PLATE	1

LIST OF MATERIALS

MASTER

NEXT ASSY	USED ON
1014380	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±.005 .02
ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 29 JUN 63
CHECKED D. Perrone 29 Jul 63
APPROVAL C. Sperling 8/16/63
APPROVAL [illegible] 8/8/63
APPROVAL J. Pomaletone
NASA APPROVAL
MIT APPROVAL L. Gediman 8/14/63
MIT APPROVAL W. Crafford 14 Aug 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, CONNECTOR
ASSEMBLY

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014408
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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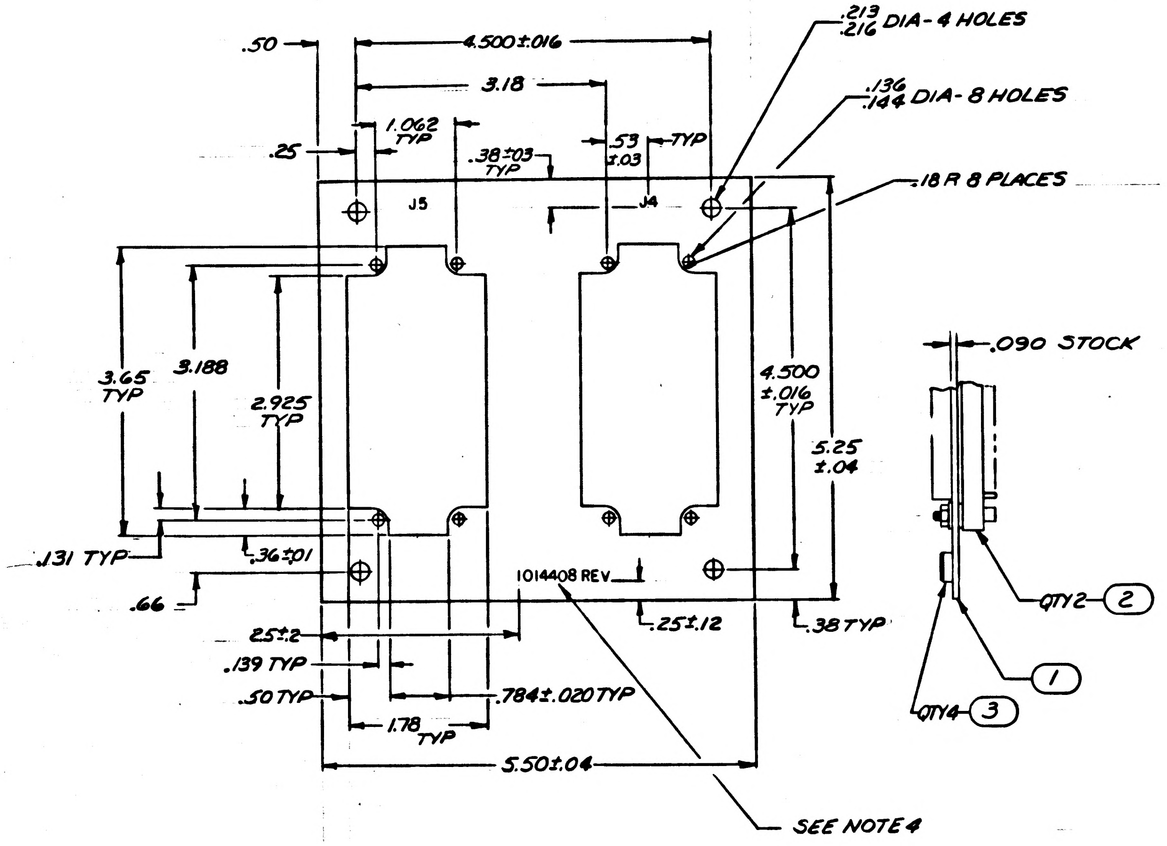
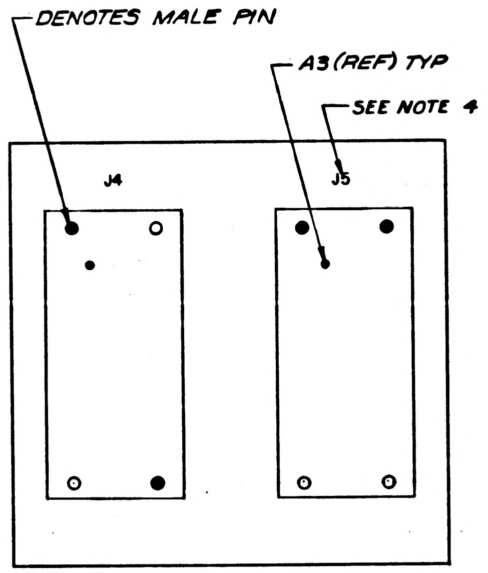
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
B	REPLACES REV A WITH CHANGE PER TDRR NO. 03839		WK.


.50
4.500±.016
3.18
1.062 TYP
.25
.38±.03 TYP
.53 ±.03
TYP
.213 .216 DIA-4 HOLES
.136 .144 DIA-8 HOLES
.18 R 8 PLACES
J5
J4
3.65 TYP
3.188
2.925 TYP
4.500 ±.016 TYP
5.25 ±.04
.131 TYP
.36±.01
.66
1014408 REV
.25±.12
.38 TYP
.25±.2
.139 TYP
.50 TYP
.784±.020 TYP
1.78 TYP
5.50±.04
SEE NOTE 4
.090 STOCK
QTY 2 (2)
(1)
QTY 4 (3)


DENOTES MALE PIN
A3 (REF) TYP
SEE NOTE 4
J4
J5

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02529 DATE 4 Aug 63

NOTES
1. MATL AL 6061-T6 PER QQ-A-327 TEMPER T6
2. REMOVE BURRS AND SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541
4. MARK .12 HIGH BLACK PER ND1002019

Ⓑ REPLACES REV A WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
4	1006989-15	NUT, SELF-CLINCHING	3
2	1006671	CONNECTOR	2
1	1014408-1	PLATE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1020006	1014380

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 20AUG63
CHECKED 4SEP63
APPROVAL
APPROVAL 7/30/63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 24 Oct 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, CONNECTOR ASSEMBLY
(SELF TEST)

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014408
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

INCHES
0 1 2
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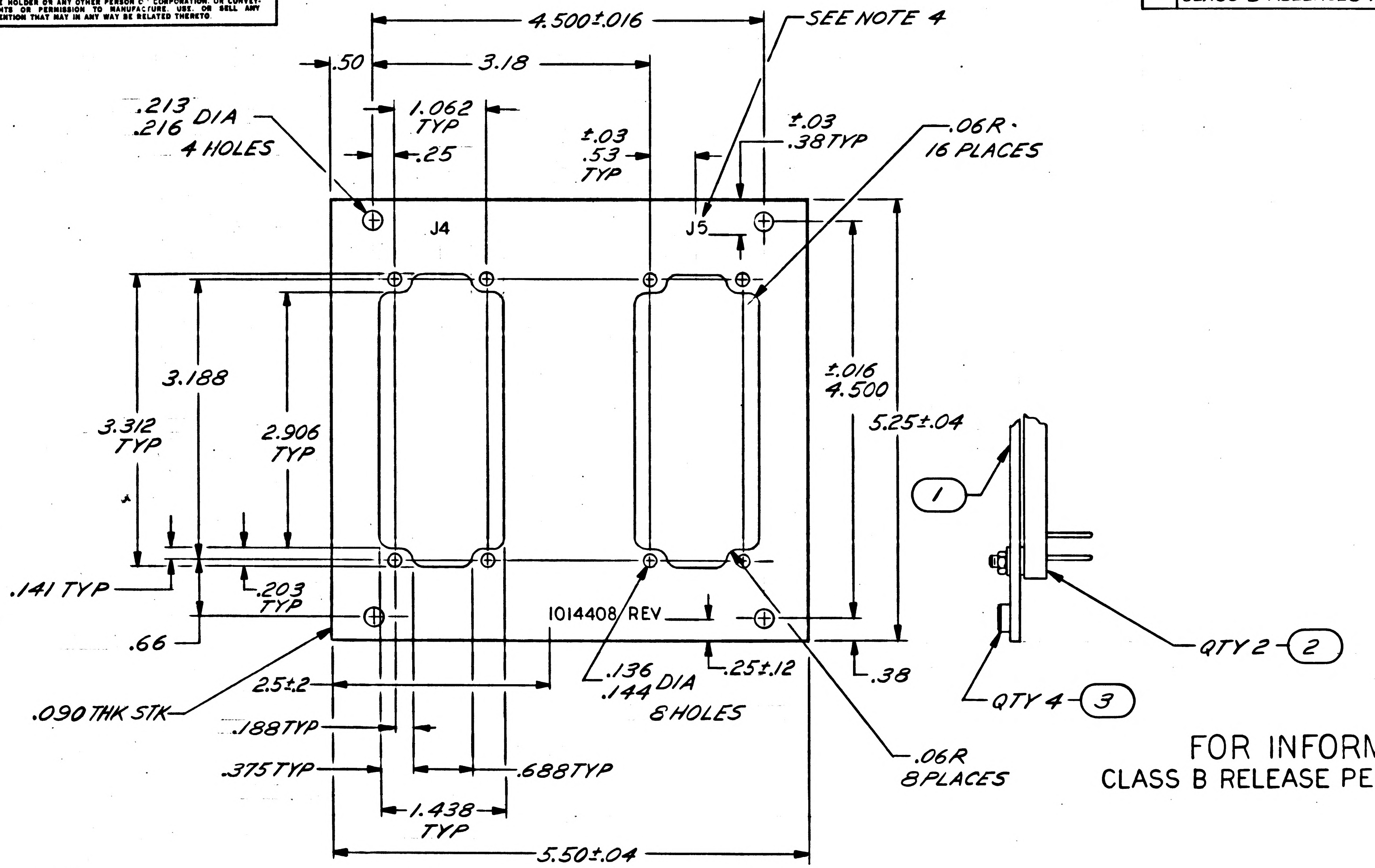
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 02529	14Aug63	WK



4.500±.016
SEE NOTE 4
.50
3.18
.213
.216 DIA
4 HOLES
1.062
TYP
.25
±.03
.53
TYP
±.03
.38 TYP
.06R
16 PLACES
J4
J5
3.188
3.312
TYP
2.906
TYP
±.016
4.500
5.25±.04
.141 TYP
.203
TYP
.66
1014408 REV
.136
.144 DIA
8 HOLES
.25±.12
.38
.090 THK STK
2.5±.2
.188 TYP
.375 TYP
.688 TYP
1.438
TYP
5.50±.04
.06R
8 PLACES
1
QTY 2
2
QTY 4
3

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02529 DATE 14Aug63

NOTES
1. MATL AL 6061-T6 PER QQ-A-327, TEMP T6
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541
4. MARK .12 HIGH BLACK PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
4	1006989-15	NUT, SELF-CLINCHING	3
2	1006807	CONNECTOR	2
1	1014408-1	PLATE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014380	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±.005 .02
ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498

DRAWN P. Winfield DATE 27JUN63
CHECKED D. Perrone 29 JUL 63
APPROVAL C. Sperling Jr 8/6/63
APPROVAL 8/8/63
APPROVAL J. Poundstone
NASA APPROVAL Jack Barnard
MIT APPROVAL L. Yedman 8/14/63
MIT APPROVAL 14 Aug 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, CONNECTOR
ASSEMBLY

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014408
SCALE 1/1
WT
SHEET 1 OF 1

1014408

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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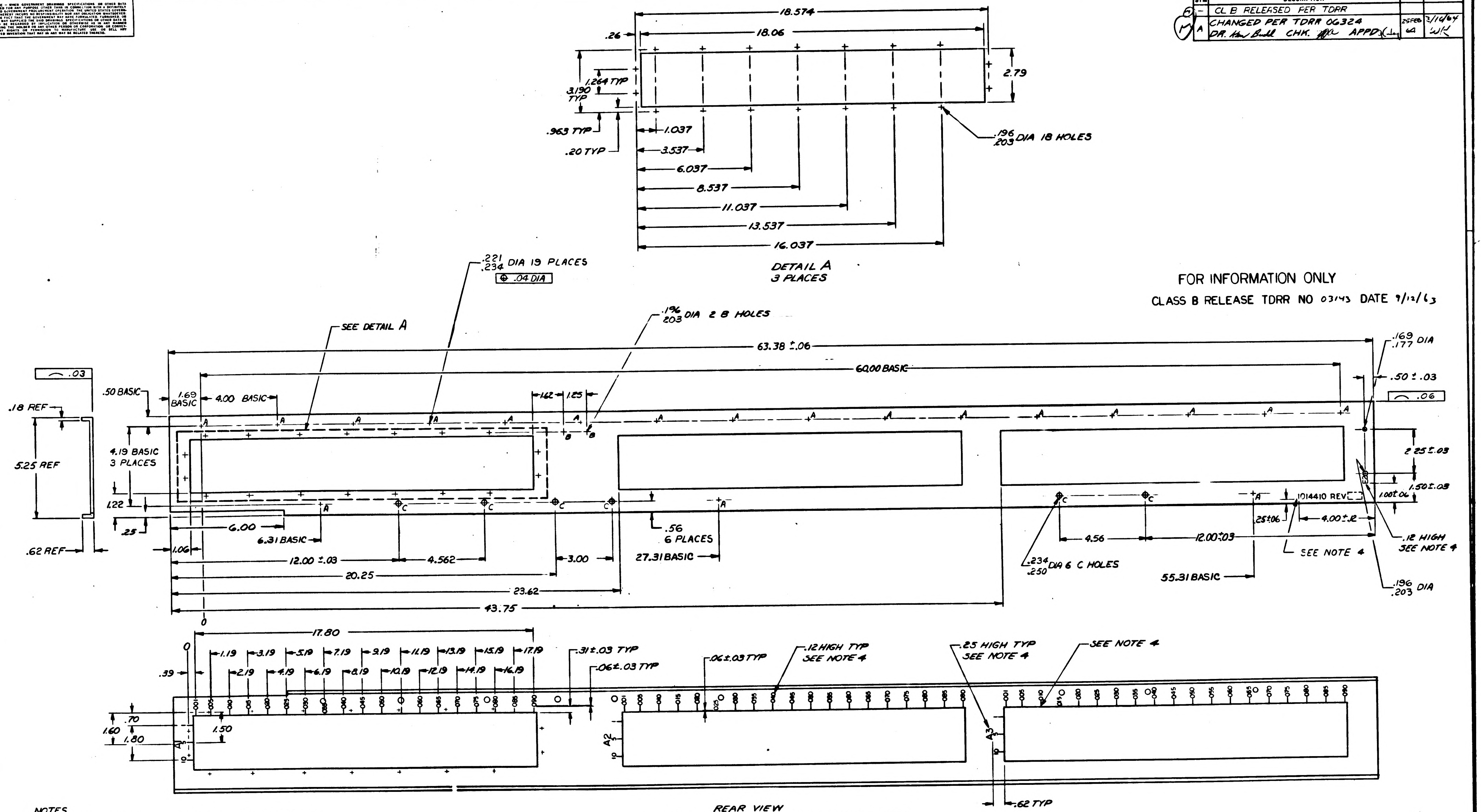
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06324 DR. Ken Budd CHK. APPD	25FEB 64	3/16/64 WK


18.574
18.06
.26
1.264 TYP
3.190 TYP
2.79
.963 TYP
.20 TYP
1.037
3.537
6.037
8.537
11.037
13.537
16.037
.196/.203 DIA 18 HOLES
DETAIL A
3 PLACES
.221/.234 DIA 19 PLACES
⊕ .04 DIA
SEE DETAIL A
.196/.203 DIA 28 HOLES
63.38 ±.06
60.00 BASIC
.169/.177 DIA
.50 ±.03
⌒ .06
⌒ .03
.50 BASIC
1.69 BASIC
4.00 BASIC
.162
1.25
.18 REF
5.25 REF
4.19 BASIC 3 PLACES
1.22
.25
.62 REF
6.00
6.31 BASIC
1.06
12.00 ±.03
4.562
3.00
.56 6 PLACES
27.31 BASIC
20.25
23.62
43.75
0
2.25 ±.03
1.50 ±.03
1.00 ±.06
1014410 REV
4.00 ±.2
.25 ±.06
4.56
12.00 ±.03
SEE NOTE 4
.12 HIGH SEE NOTE 4
.234/.250 DIA 6 C HOLES
55.31 BASIC
.196/.203 DIA
17.80
1.19
2.19
3.19
4.19
5.19
6.19
7.19
8.19
9.19
10.19
11.19
12.19
13.19
14.19
15.19
16.19
17.19
.39
.31 ±.03 TYP
.06 ±.03 TYP
.06 ±.03 TYP
.12 HIGH TYP SEE NOTE 4
.25 HIGH TYP SEE NOTE 4
SEE NOTE 4
.70
1.60
1.80
1.50
A1
A2
A3
.62 TYP
REAR VIEW
DIMENSIONS LOCATING MARKING TYP 3 PLACES

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 03143 DATE 9/12/63

NOTES
1. MATL .18 × .62 × 5.25 CHANNEL EXTR AL 6063-T5 PER QQ-A-274, TEMP T5
2. REMOVE BURRS & SHARP EDGES
3 CHROMATE FILM PER MIL-C-5541, EXCEPT TO BE ELECTRICALLY CONDUCTIVE
4. MARK .12 & .25 HIGH BLACK CHARACTERS AND .03 WIDE LINES PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014411	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 .02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO. LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED A. Pearson 5AUG63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET, ANGLE

CODE IDENT NO. —
SIZE F
NASA DRAWING NO 1014410
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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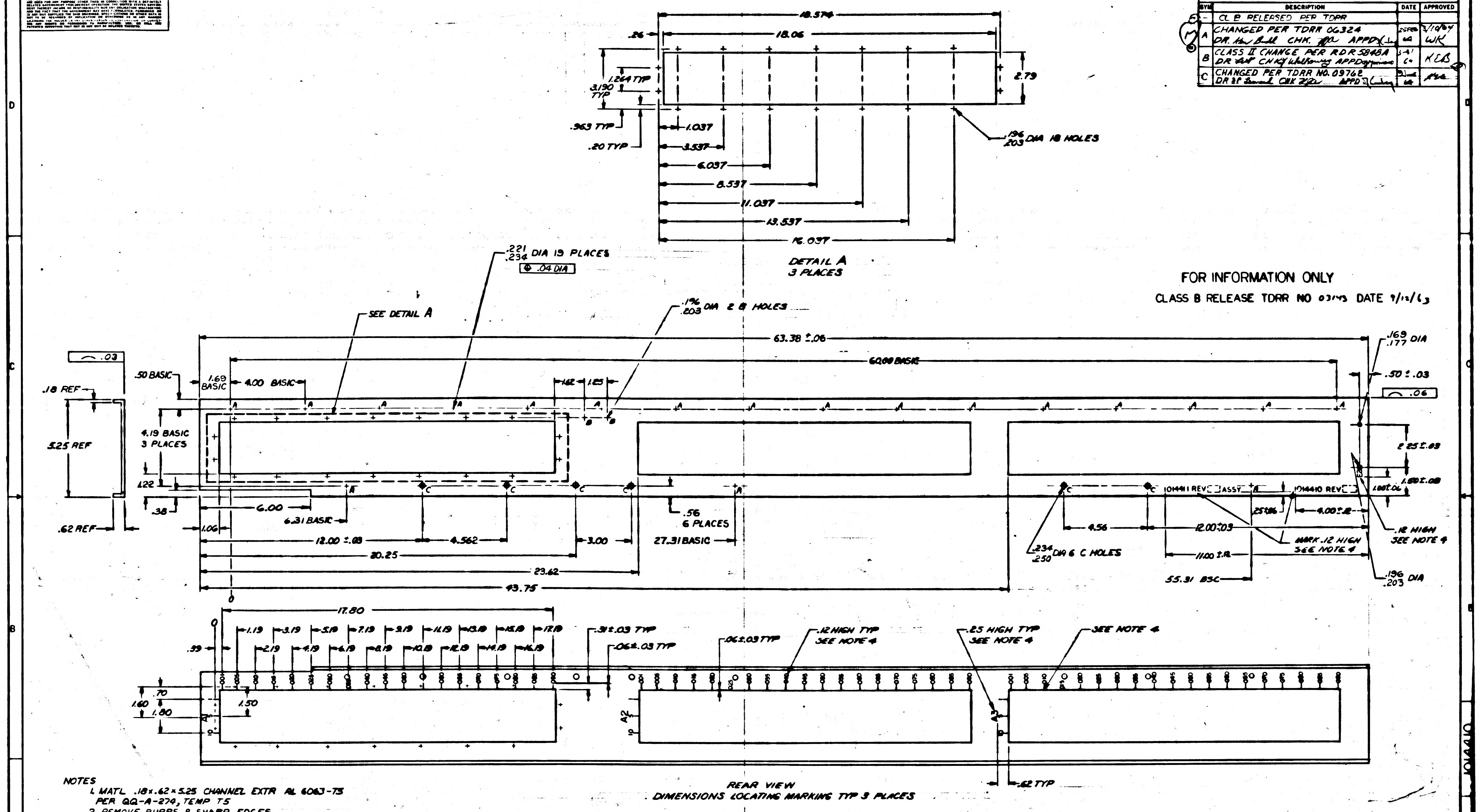
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06324 DR. [illegible] CHK. [illegible] APPD [illegible]	25FEB 64	3/10/64 WK
B	CLASS II CHANGE PER RDR 5848A DR [illegible] CHK [illegible] APPD [illegible]	3-31 64	KEB
C	CHANGED PER TDRR NO. 09762 DR [illegible] CHK [illegible] APPD [illegible]	[illegible] 64	[illegible]

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO 03143 DATE 9/13/63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18.06
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2.79
1.264 TYP
3.190 TYP
.963 TYP
.20 TYP
1.037
3.537
6.037
8.537
11.037
13.537
16.037
.196/.203 DIA 18 HOLES
DETAIL A
3 PLACES
.221/.234 DIA 19 PLACES
⊕ .04 DIA
SEE DETAIL A
.196/.203 DIA 2 B HOLES
63.38 ±.06
60.00 BASIC
.169/.177 DIA
.50 ±.03
⌒ .06
⌒ .03
.18 REF
5.25 REF
.62 REF
.50 BASIC
1.69 BASIC
4.00 BASIC
1.62
1.25
4.19 BASIC
3 PLACES
.22
.38
6.00
6.31 BASIC
12.00 ±.03
4.562
3.00
20.25
23.62
43.75
27.31 BASIC
.56
6 PLACES
1.06
.234/.250 DIA 6 C HOLES
4.56
12.00 ±.03
11.00 ±.R
55.31 BSC
2.25 ±.03
1.50 ±.03
1.88 ±.06
4.00 ±.R
1014411 REV ☐ ASSY
1014410 REV ☐
MARK .12 HIGH
SEE NOTE 4
.12 HIGH
SEE NOTE 4
.196/.203 DIA
17.80
.39
1.19
3.19
5.19
7.19
9.19
11.19
13.19
15.19
17.19
2.19
4.19
6.19
8.19
10.19
12.19
14.19
16.19
.31 ±.03 TYP
.06 ±.03 TYP
.06 ±.03 TYP
.12 HIGH TYP
SEE NOTE 4
.25 HIGH TYP
SEE NOTE 4
SEE NOTE 4
.70
1.60
1.80
1.50
A1
A2
A3
.62 TYP
REAR VIEW
DIMENSIONS LOCATING MARKING TYP 3 PLACES

NOTES
1. MATL .18×.62×5.25 CHANNEL EXTR AL 6063-T5 PER QQ-A-274, TEMP T5
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE FILM PER MIL-C-5541, EXCEPT TO BE ELECTRICALLY CONDUCTIVE
4. MARK BLACK CHARACTERS AND .03 WIDE LINES PER MD 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
1014411	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 .02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE [illegible]
CHECKED D. Perron 5AUG63
APPROVAL [illegible]
APPROVAL [illegible] 11 8/7/63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 9/10/63
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET, ANGLE

CODE IDENT NO. ——
SIZE F
NASA DRAWING NO. 1014410
SCALE 1/2 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014410

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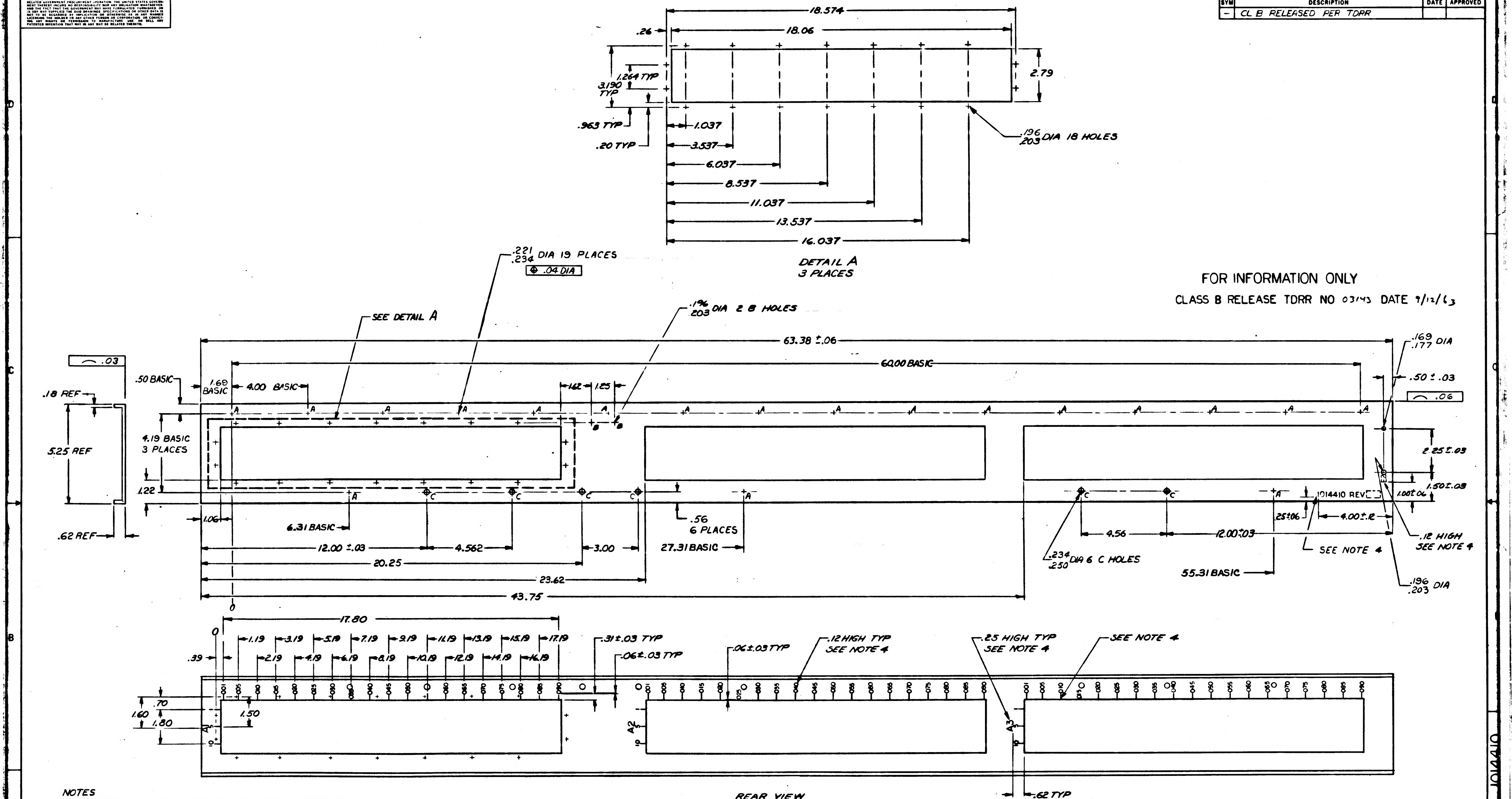
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 03143 DATE 9/12/63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2.79
1.264 TYP
3.190 TYP
.963 TYP
.20 TYP
1.037
3.537
6.037
8.537
11.037
13.537
16.037
.196/.203 DIA 18 HOLES
.221/.234 DIA 19 PLACES
⊕ .04 DIA
SEE DETAIL A
.196/.203 DIA 2 B HOLES
63.38 ±.06
60.00 BASIC
.169/.177 DIA
.50 ±.03
.06
.03
.50 BASIC
1.68 BASIC
4.00 BASIC
1.62
1.25
.18 REF
5.25 REF
.62 REF
4.19 BASIC 3 PLACES
1.22
1.06
6.31 BASIC
12.00 ±.03
4.562
3.00
20.25
23.62
43.75
.56 6 PLACES
27.31 BASIC
.234/.250 DIA 6 C HOLES
4.56
12.00 ±.03
55.31 BASIC
1014410 REV
.25 ±.06
4.00 ±.2
SEE NOTE 4
2.25 ±.03
1.50 ±.03
1.00 ±.06
.12 HIGH SEE NOTE 4
.196/.203 DIA
17.80
1.19
2.19
3.19
4.19
5.19
6.19
7.19
8.19
9.19
10.19
11.19
12.19
13.19
14.19
15.19
16.19
17.19
.39
.31 ±.03 TYP
.06 ±.03 TYP
.06 ±.03 TYP
.12 HIGH TYP SEE NOTE 4
.25 HIGH TYP SEE NOTE 4
SEE NOTE 4
.70
1.60
1.80
1.50
A1
A2
A3
.62 TYP

DETAIL A
3 PLACES

REAR VIEW
DIMENSIONS LOCATING MARKING TYP 3 PLACES

NOTES
1. MATL .18×.62×5.25 CHANNEL EXTR AL 6063-T5 PER QQ-A-274, TEMP T5
2. REMOVE BURRS & SHARP EDGES
3 CHROMATE FILM PER MIL-C-5541, EXCEPT TO BE ELECTRICALLY CONDUCTIVE
4. MARK .12 & .25 HIGH BLACK CHARACTERS AND .03 WIDE LINES PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014411	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 .02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 1 Aug 63
CHECKED A. Pearson 5AUG63
APPROVAL C. Snedin [illegible]
APPROVAL [illegible] 8/9/63
APPROVAL [illegible]
NASA APPROVAL [illegible] 9/11/63
MIT APPROVAL [illegible] 9/11/63
MIT APPROVAL [illegible] 12/[illegible]/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET, ANGLE

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014410
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014410

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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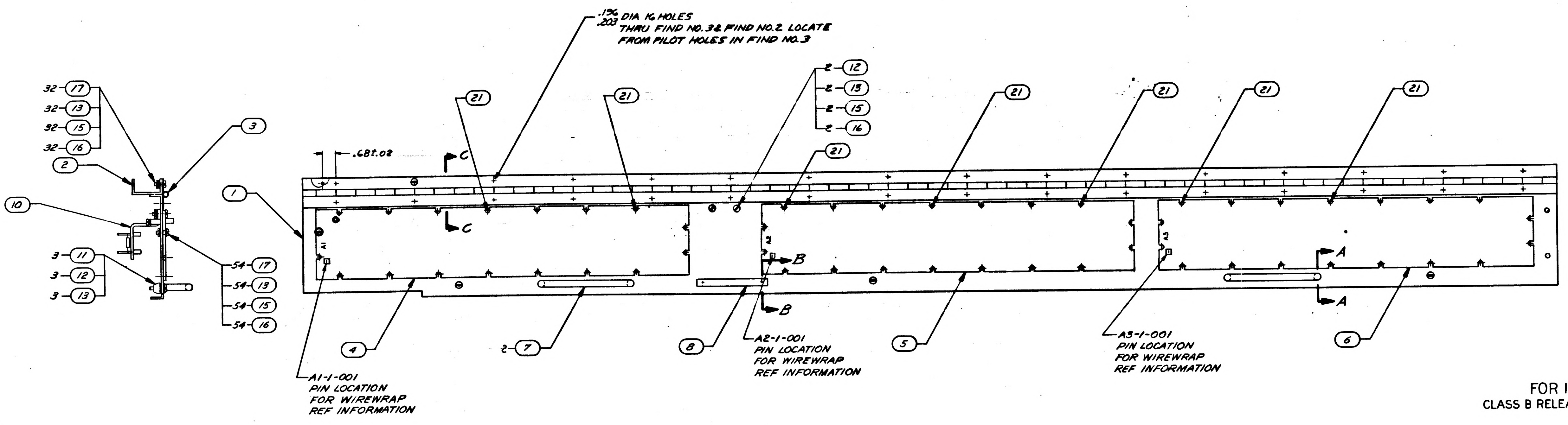
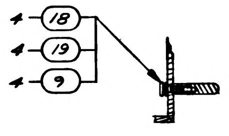
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASEDPER TDRR NO. 03143		
A	CHANGED PER TDRR 06324 DR Ken Bull CHK APPD	25 FEB 64	

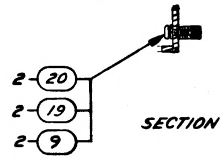


.196 / .203 DIA 16 HOLES THRU FIND NO.3 & FIND NO.2 LOCATE FROM PILOT HOLES IN FIND NO.3
32-(17)
32-(13)
32-(15)
32-(16)
(3)
(2)
(10)
3-(11)
3-(12)
3-(13)
54-(17)
54-(13)
54-(15)
54-(16)
(1)
.68±.02
C
C
(21)
(21)
2-(12)
2-(13)
2-(15)
2-(16)
(21)
(21)
(21)
(21)
(21)
A1
A2
A3
B
B
A
A
(4)
2-(7)
(8)
(5)
(6)
A1-1-001 PIN LOCATION FOR WIREWRAP REF INFORMATION
A2-1-001 PIN LOCATION FOR WIREWRAP REF INFORMATION
A3-1-001 PIN LOCATION FOR WIREWRAP REF INFORMATION

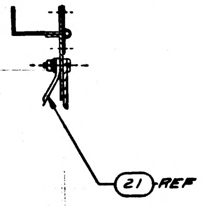
FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO.03143 DATE 9/12/63



SECTION A-A



SECTION B-B



SECTION C-C

NOTES
1. NUMBERS PRECEDING FIND NUMBERS INDICATE QUANTITIES
2. WIREWRAP FIND NO. 4,5 & 6 USING 1014445 PER 0511120
3. FOR SYMBOLS, FABRICATION & REQD TESTS SEE ND1002032
4. WIRES BETWEEN A1, A2 & A3 SHALL BE ROUTED OUTSIDE OF THE WIREWRAP PINS ON THE HINGE SIDE, THEY WILL BE TIED DOWN USING FIND NO. 21 & SPOT TIED USING FIND NO. 22

	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
	☒	1014444	SCHEMATIC CONN PLATE ASSY	REF
	☒	1014445	WIREWRAP MACH. CARD	REF
	☒	1014446	COMPUTER READOUT	REF
NOT SHOWN	12	MS17821-1	STRAP, CABLE, ADJUSTABLE	22
	7	1006697-2	STRAP, CABLE, ADJUSTABLE	21
	2	MS35234-64	SCREW, MACH, PAN HD	20
	6	MS15795-308	WASHER, FLAT	19
	4	MS35234-65	SCREW, MACH, PAN HD	18
	86	MS35233-45	SCREW, MACH, PAN HD	17
	88	MS35649-84	NUT, PLAIN HEX	16
	88	MS35338-80	WASHER, LOCK	15
	~~32~~	~~MS35233-44~~	~~SCREW, MACH, PAN HD~~	~~14~~
	91	MS15795-307	WASHER, FLAT	13
	5	MS35233-46	SCREW, MACH, PAN HD	12
	3	1006662-2	NUT-NYLON QUICK RELEASE	11
	1	1014484	BRACKET, RESISTOR ASSY	10
	6	MS35338-81	WASHER, LOCK	9
	1	1014406	STOP, CONN PLATE	8
	2	MS39087-3	HANDLE, BOW	7
	1	1014402-3	CONN PLATE ASSY A3	6
	1	1014402-2	CONN PLATE ASSY A2	5
	1	1014402-1	CONN PLATE ASSY A1	4
	1	1014409	HINGE, CONN PLATE	3
	1	1014400	SUPPORT, CONN PLATE	2
	1	1014410	BRACKET, ANGLE	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE
CHECKED 3 Sept 63
APPROVAL
APPROVAL 9/3/63
APPROVAL 9/3/63
NASA APPROVAL 9/12/63
MIT APPROVAL 12 Sep 63
MIT APPROVAL 9/12/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR PLATE ASSEMBLY
COMPUTER TEST SET

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	J	1014411
SCALE 1/2	WT	SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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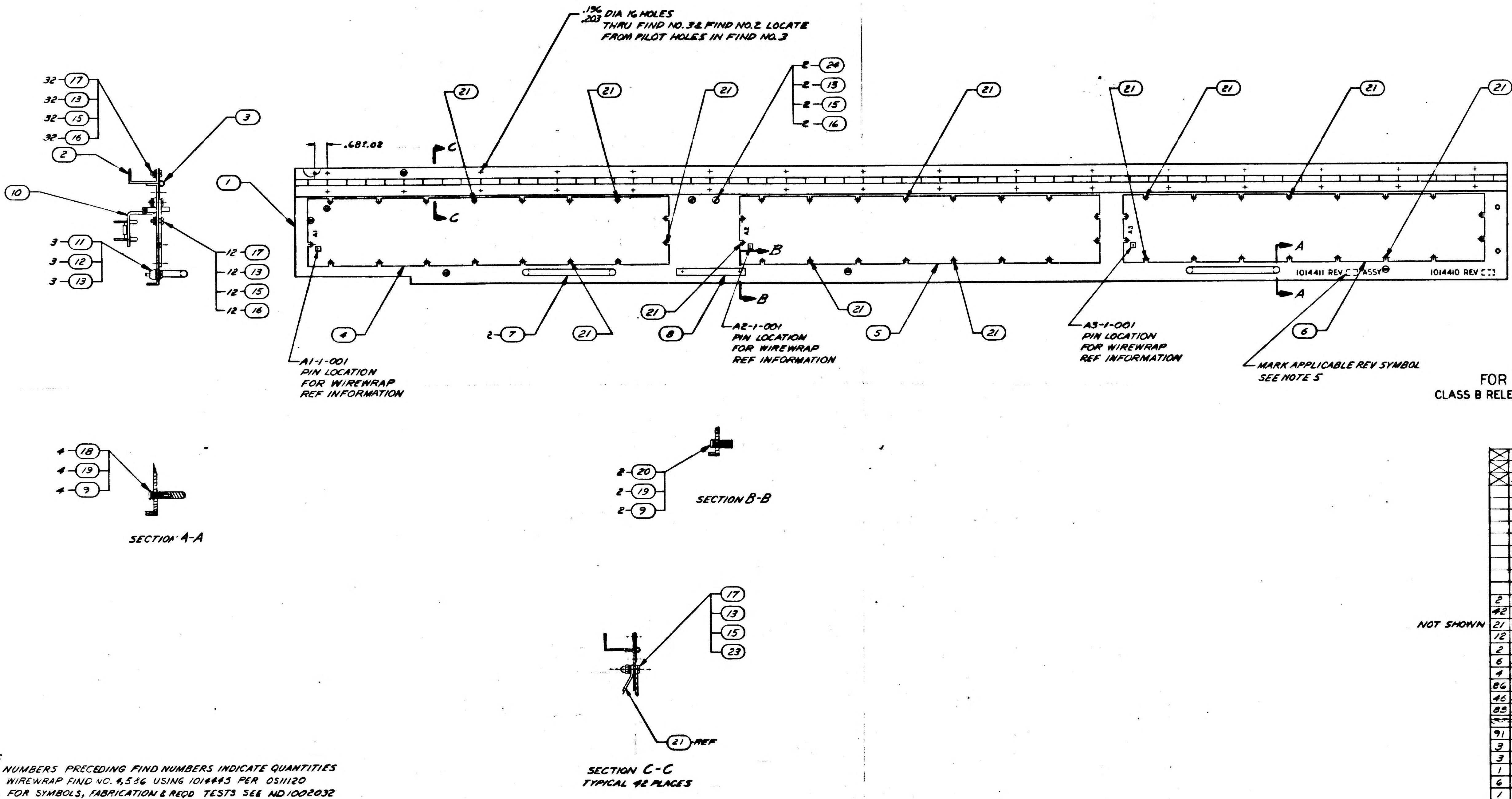
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR NO. 03143		
A	CHANGED PER TDRR 06324 DR CHK APPD	25 FEB 64	3/10/64
B	CLASS II CHANGE PER RD R5849 A DR P. Winfield CHK APPD	3-31-64	KEB
C	CHANGED - PER TDRR 10464 DR CHK APPD	7-1-64	JB



.196 .203 DIA 16 HOLES THRU FIND NO. 3 & FIND NO. 2 LOCATE FROM PILOT HOLES IN FIND NO. 3
32-17
32-13
32-15
32-16
3
2
10
1
3-11
3-12
3-13
12-17
12-13
12-15
12-16
.687.02
C
C
21
2-24
2-13
2-15
2-16
A1
A2
A3
B
B
A
A
1014411 REV ASSY
1014410 REV
4
2-7
21
8
5
6
A1-1-001 PIN LOCATION FOR WIREWRAP REF INFORMATION
A2-1-001 PIN LOCATION FOR WIREWRAP REF INFORMATION
A3-1-001 PIN LOCATION FOR WIREWRAP REF INFORMATION
MARK APPLICABLE REV SYMBOL SEE NOTE 5
4-18
4-19
4-9
SECTION A-A
2-20
2-19
2-9
SECTION B-B
17
13
15
23
21 REF
SECTION C-C
TYPICAL 42 PLACES

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03143 DATE 9/12/63

NOTES
1. NUMBERS PRECEDING FIND NUMBERS INDICATE QUANTITIES
2. WIREWRAP FIND NO. 4,5 & 6 USING 1014445 PER 0S11120
3. FOR SYMBOLS, FABRICATION & REQD TESTS SEE ND1002032
4. WIRES BETWEEN A1,A2 & A3 SHALL BE ROUTED OUTSIDE OF THE WIREWRAP PINS ON THE HINGE SIDE, THEY WILL BE TIED DOWN USING FIND NO. 21 & SPOT TIED USING FIND NO. 22
5. MARK .12 HIGH BLACK CHARACTERS PER ND1002019

	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
	☒	1014444	SCHEMATIC CONN PLATE ASSY	REF
	☒	1014445	WIREWRAP MACH. CARD	REF
	☒	1014446	COMPUTER READOUT	REF
	2	MS35233-47	SCREW, MACH, PAN HD	24
	42	MS24679-22	NUT, CAP	23
NOT SHOWN	21	MS17821-1	STRAP, CABLE, ADJUSTABLE	22
	12	1006637-2	STRAP, CABLE, ADJUSTABLE	21
	2	MS35234-64	SCREW, MACH, PAN HD	20
	6	MS15795-308	WASHER, FLAT	19
	4	MS35234-65	SCREW, MACH, PAN HD	18
	86	MS35233-45	SCREW, MACH, PAN HD	17
	46	MS35649-84	NUT, PLAIN HEX	16
	89	MS35338-80	WASHER, LOCK	15
	~~[illegible]~~	~~[illegible]~~	~~SCREW, MACH, PAN HD~~	[illegible]
	91	MS15795-307	WASHER, FLAT	13
	3	MS35233-46	SCREW, MACH, PAN HD	12
	3	1006662-2	NUT-NYLON QUICK RELEASE	11
	1	1014484	BRACKET, RESISTOR ASSY	10
	6	MS35338-81	WASHER, LOCK	9
	1	1014406	STOP, CONN PLATE	8
	2	MS39087-3	HANDLE, BOW	7
	1	1014402-3	CONN PLATE ASSY A3	6
	1	1014402-2	CONN PLATE ASSY A2	5
	1	1014402-1	CONN PLATE ASSY A1	4
	1	1014409	HINGE, CONN PLATE	3
	1	1014400	SUPPORT, CONN PLATE	2
	1	1014410	BRACKET, ANGLE	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN P. Winfield DATE
CHECKED 3/4/63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR PLATE ASSEMBLY
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014411
SCALE 1/2
WT
SHEET 1 OF 1

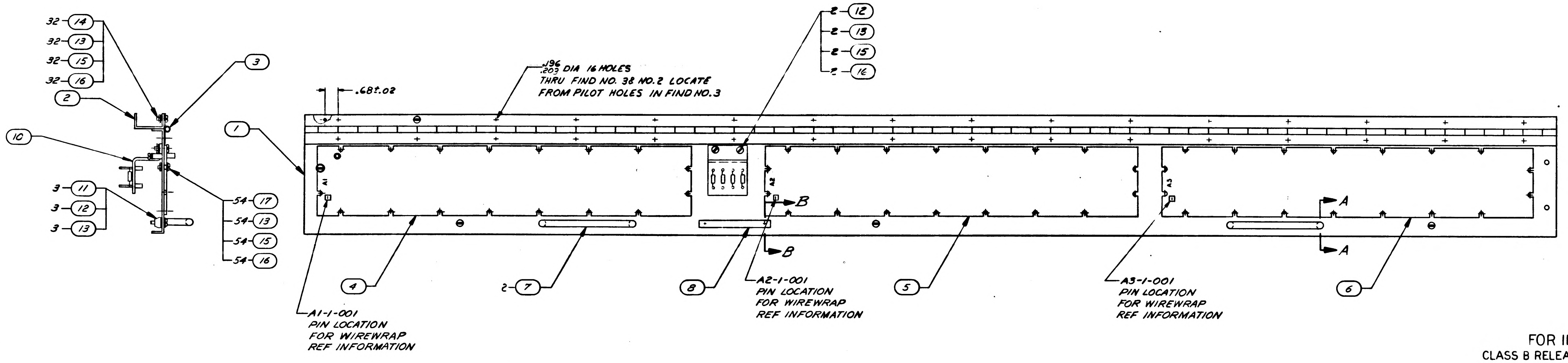
DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

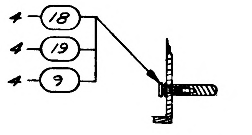
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASEDPER TDRR NO. 03 43	[illegible]	

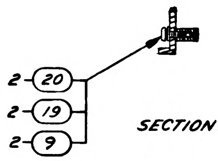
1014411


32-14
32-13
32-15
32-16
2
3
10
3-11
3-12
3-13
54-17
54-13
54-15
54-16
1
.68±.02
.196/.203 DIA 16 HOLES
THRU FIND NO. 3 & NO. 2 LOCATE
FROM PILOT HOLES IN FIND NO. 3
2-12
2-13
2-15
2-16
A1
A2
A3
B
B
A
A
4
2-7
8
5
6
A1-1-001
PIN LOCATION
FOR WIREWRAP
REF INFORMATION
A2-1-001
PIN LOCATION
FOR WIREWRAP
REF INFORMATION
A3-1-001
PIN LOCATION
FOR WIREWRAP
REF INFORMATION

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO.03143DATE 9/12/63



SECTION A-A



SECTION B-B

NOTES
1. NUMBERS PRECEDING FIND NUMBERS INDICATE QUANTITIES
2. WIREWRAP FIND NO. 4,5 & 6 USING 1014445 PER OS11120
3. FOR SYMBOLS, FABRICATION & REQD TESTS SEE ND1002032

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1014444	SCHEMATIC CONN PLATE ASSY	REF
☒	1014445	WIREWRAP MACH. CARD	REF
☒	1014446	COMPUTER READOUT	REF
2	MS35234-64	SCREW, MACH, PAN HD	20
6	MS15795-308	WASHER, FLAT	19
4	MS35234-65	SCREW, MACH, PAN HD	18
54	MS35233-45	SCREW, MACH, PAN HD	17
88	MS35649-84	NUT, PLAIN HEX	16
83	MS35338-80	WASHER, LOCK	15
32	MS35233-44	SCREW, MACH, PAN HD	14
91	MS15795-307	WASHER, FLAT	13
5	MS35233-46	SCREW, MACH, PAN HD	12
3	1006662-2	NUT-NYLON QUICK RELEASE	11
1	1014484	BRACKET, RESISTOR ASSY	10
6	MS35338-81	WASHER, LOCK	9
1	1014406	STOP, CONN PLATE	8
2	MS39087-3	HANDLE, BOW	7
1	1014402-3	CONN PLATE ASSY A3	6
1	1014402-2	CONN PLATE ASSY A2	5
1	1014402-1	CONN PLATE ASSY A1	4
1	1014409	HINGE, CONN PLATE	3
1	1014400	SUPPORT, CONN PLATE	2
1	1014410	BRACKET, ANGLE	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 18/11/63
CHECKED 3 Sept 63
APPROVAL
APPROVAL 9/13/63
APPROVAL 9/11/63
NASA APPROVAL 9/12/63
MIT APPROVAL 12 Sep 63
MIT APPROVAL 9/12/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CONNECTOR PLATE ASSEMBLY
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014411
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014411

1014411

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

[illegible] WHEN GOVERNMENT DRAWINGS SPECIFICATIONS OR OTHER DATA [illegible] FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY [illegible] GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERN- [illegible] THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER [illegible] FACT THAT THE GOVERNMENT MAY HAVE FORMULATED FURNISHED OR [illegible] WAY SUPPLIED THE SAID DRAWINGS SPECIFICATIONS OR OTHER DATA IS [illegible] BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER [illegible] THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEY- [illegible] RIGHTS OR PERMISSION TO MANUFACTURE USE, OR SELL ANY [illegible] INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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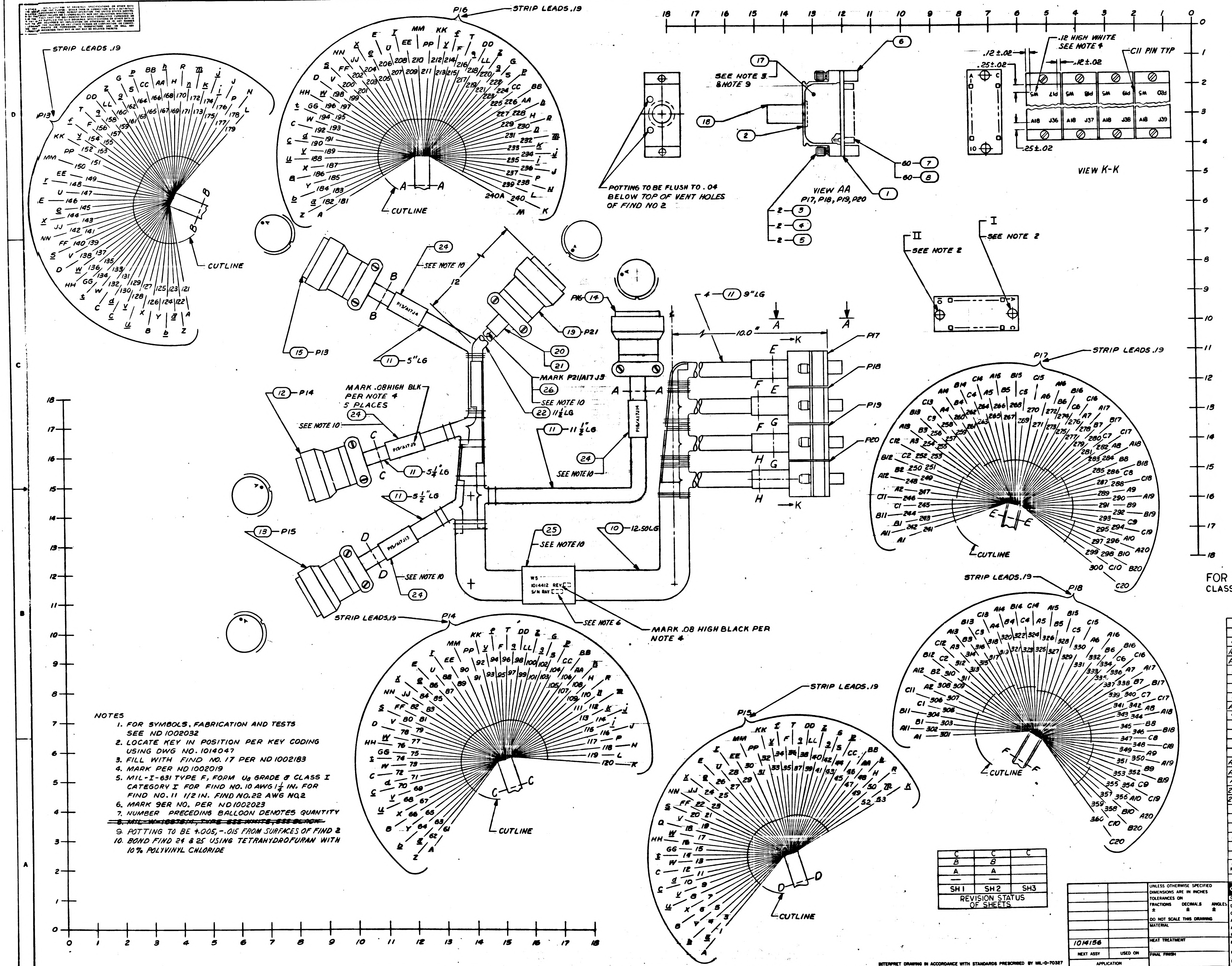
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 02529	14 Aug 63	WC
A	CLASS II CHANGE PER RD-R 5389 C. LaCort CHK W. J. Gifford APPD	12 SEP 63	H8
B	CL II CHANGE PER RD R 5443 DR CHK J. Coley APPD	10-10-63	H8
C	CHANGED PER TDRR 06043 DR J. Lund CHK A. Coggiano APPD J. Coley	20 FEB 64	WC


STRIP LEADS .19
P13
P14
P15
P16
P17
P18
P19
P20
P21
CUTLINE
B—B
A—A
C—C
D—D
E—E
F—F
SEE NOTE 10
12
5" LG
5 1/4" LG
5 1/2" LG
11 1/4" LG
9" LG
12.50 LG
10.0"
MARK .08 HIGH BLK PER NOTE 4 5 PLACES
MARK P21/A17 J3
P13/A17 J4
P14/A17 J5
P15/A17 J3
P16/A17 J14
W5 1014412 REV S/N RAY
SEE NOTE 6
MARK .08 HIGH BLACK PER NOTE 4
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO 2
SEE NOTE 3 & NOTE 9
VIEW AA P17, P18, P19, P20
.12 HIGH WHITE SEE NOTE 4
C11 PIN TYP
.12 ±.02
.25 ±.02
W5 P17
W5 P18
W5 P19
W5 P20
A18 J36
A18 J37
A18 J38
A18 J39
VIEW K-K
I SEE NOTE 2
II SEE NOTE 2
60
2
4

NOTES
1. FOR SYMBOLS, FABRICATION AND TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 17 PER ND 1002183
4. MARK PER ND 1002019
5. MIL-I-631 TYPE F, FORM U_3 GRADE & CLASS I CATEGORY I FOR FIND NO. 10 AWG 1 1/4 IN. FOR FIND NO. 11 1/2 IN. FIND NO. 22 AWG NO.2
6. MARK SER NO. PER ND 1002023
7. NUMBER PRECEDING BALLOON DENOTES QUANTITY
8. ~~MIL-W-16878/4, TYPE E22 WHITE, E22 BLACK~~
9. POTTING TO BE +.005, -.015 FROM SURFACES OF FIND 2
10. BOND FIND 24 & 25 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02529 DATE 14 Aug 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1014472-1A	BAND MARKER, CABLE	26
1	1014472-7	BAND MARKER, CABLE	25
4	1014472-3A	BAND MARKER, CABLE	24
AR	MIL-W-16878/4 TYPE E22 BLK	WIRE, ELECTRICAL	23
AR	SEE NOTE 5	SLEEVING	22
1	MS39056-4	BUSHING	21
1	MS39056-3	BUSHING	20
1	MS3126F-24-61S	CONNECTOR	19
4	1014412-1	BUSHING	18
AR	1006683	COMPOUND SILICONE RUBBER	17
4	MS39056-6	BUSHING	16
1	MS3126F-24-61SX	CONNECTOR	15
1	MS3126F-24-61SW	CONNECTOR	14
1	MS3126F-24-61SY	CONNECTOR	13
1	MS3126F-24-61SZ	CONNECTOR	12
AR	SEE NOTE 5	SLEEVING	11
AR	SEE NOTE 5	SLEEVING	10
AR	MIL-W-16878/4 TYPE E 22 WHT	WIRE, ELECTRICAL	9
240	1010380	INSULATOR BUSHING, FEMALE	8
240	1010379-1	CONTACT ELECTRICAL, FEMALE	7
8	1014032	RECEPTACLE, INDEXING	6
8	1006337	WASHER, PLAIN FLAT	5
8	MS35337-79	WASHER, LOCK	4
8	1006998-1	SCREW, CAPTIVE	3
4	1014000-4	FRAME, MODULE	2
4	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

SH 1	SH 2	SH 3
C	C	C
B	B	
A	A	
—	—	

REVISION STATUS OF SHEETS

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 7-19-63
CHECKED 26 Jul 63
APPROVAL
APPROVAL 8/6/63
APPROVAL J. Pomington
NASA APPROVAL
MIT APPROVAL 14 Aug 63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W5

CODE IDENT NO —— SIZE J NASA DRAWING NO 1014412
SCALE 1/1 WT SHEET 1 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
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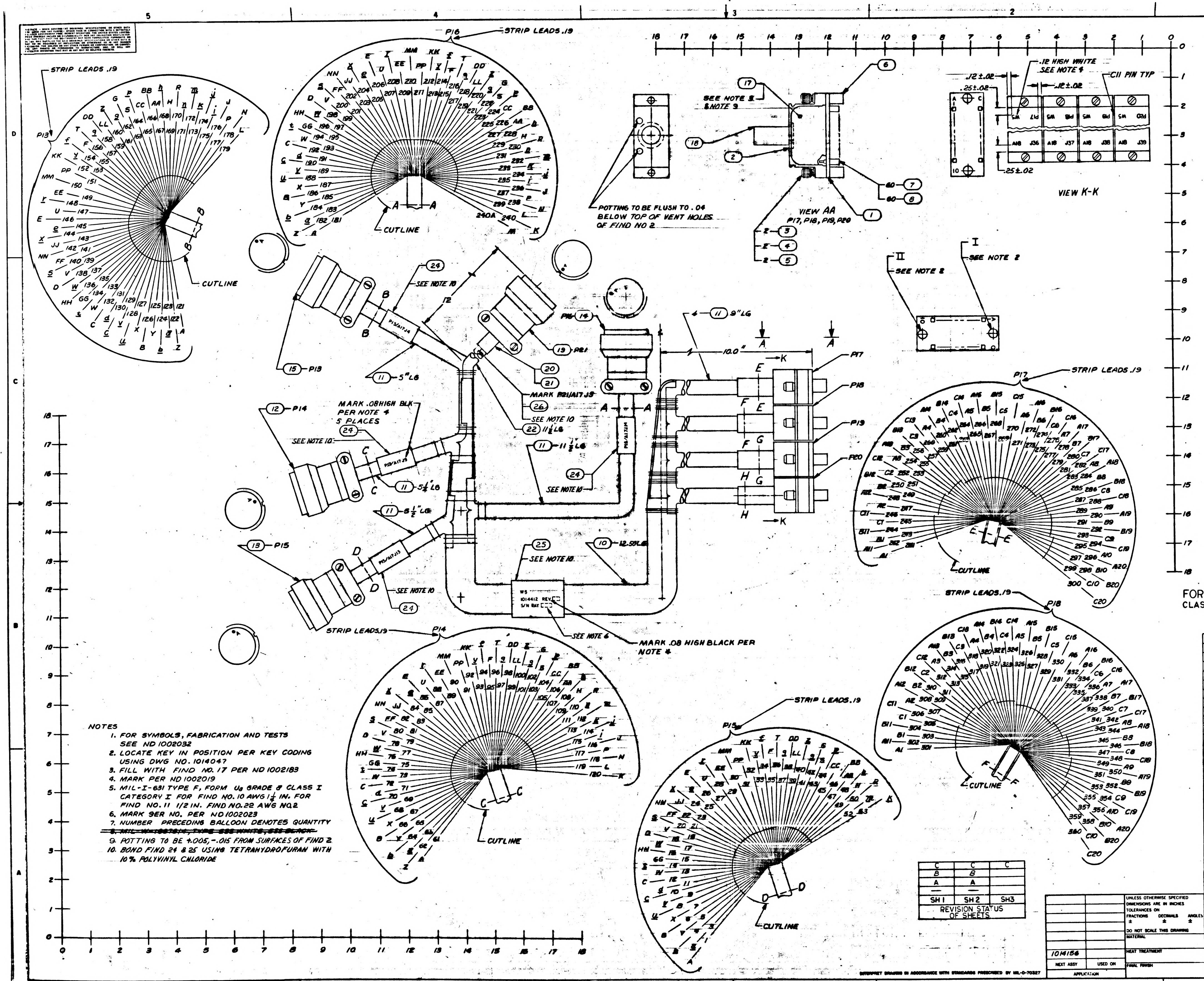
A	CLASS II CHANGE PER RD-R 5389 C. La Cort CHK W. J. Gifford APPD	12SEP 63	HB
B	CL II CHANGE PER RD R 5443 DR CHK J. Conley APPD	10-10-63	HB
C	CHANGED PER TDRR 06043 DR J Leonard CHK A. Coggiano APPD J Conley	20FEB 64	W.C.



STRIP LEADS .19
P13
CUTLINE
B
P16
STRIP LEADS .19
A A
CUTLINE
240A
240
SEE NOTE 3 & NOTE 9
VIEW AA
P17, P18, P19, P20
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO 2
60
60
2
2
2
.12 HIGH WHITE SEE NOTE 4
C11 PIN TYP
.12±.02
.25±.02
.12±.02
.25±.02
VIEW K-K
I
SEE NOTE 2
II
SEE NOTE 2
SEE NOTE 10
12
P13/A17J4
P15
P13
5" LG
MARK P21/A17J5
SEE NOTE 10
11½" LG
11½" LG
P21
P16
9" LG
10.0"
P17
P18
P19
P20
K
K
E
F
G
H
P14
MARK .08 HIGH BLK PER NOTE 4 5 PLACES
SEE NOTE 10
P15/A17J3
5¼" LG
SEE NOTE 10
8½" LG
P19
P15
P15/A17J3
SEE NOTE 10
SEE NOTE 10
12.50 LG
W5 1014412 REV S/N 8AY
SEE NOTE 6
MARK .08 HIGH BLACK PER NOTE 4
STRIP LEADS .19
P14
CUTLINE
C C
STRIP LEADS .19
P15
CUTLINE
D
P17
STRIP LEADS .19
CUTLINE
E
STRIP LEADS .19
P18
CUTLINE
F

NOTES

1. FOR SYMBOLS, FABRICATION AND TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 17 PER ND 1002183
4. MARK PER ND 1002019
5. MIL-I-631 TYPE F, FORM U₂ GRADE & CLASS I CATEGORY I FOR FIND NO. 10 AWG 1¼ IN. FOR FIND NO. 11 1/2 IN. FIND NO. 22 AWG NO. 2
6. MARK SER NO. PER ND 1002023
7. NUMBER PRECEDING BALLOON DENOTES QUANTITY
8. ~~MIL-W-16878/4, TYPE E22 WHITE, E22 BLACK~~
9. POTTING TO BE +.005, -.015 FROM SURFACES OF FIND 2
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FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02529 DATE 14 Aug 63

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4	1014472-3A	BAND MARKER, CABLE	24
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AR	SEE NOTE 5	SLEEVING	22
1	MS39056-4	BUSHING	21
1	MS39056-3	BUSHING	20
1	MS3126F-24-61S	CONNECTOR	19
4	1014412-1	BUSHING	18
AR	1006683	COMPOUND SILICONE RUBBER	17
4	MS39056-6	BUSHING	16
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1	MS3126F-24-61SY	CONNECTOR	13
1	MS3126F-24-61SZ	CONNECTOR	12
AR	SEE NOTE 5	SLEEVING	11
AR	SEE NOTE 5	SLEEVING	10
AR	MIL-W-16878/4 TYPE E22 WHT	WIRE, ELECTRICAL	9
240	1010380	INSULATOR BUSHING, FEMALE	8
240	1010379-1	CONTACT ELECTRICAL, FEMALE	7
8	1014032	RECEPTACLE, INDEXING	6
8	1006997	WASHER, PLAIN FLAT	5
8	MS35337-79	WASHER, LOCK	4
8	1006998-1	SCREW, CAPTIVE	3
4	1014000-4	FRAME, MODULE	2
4	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

C	C	C
B	B	
A	A	
—	—	
SH 1	SH 2	SH3

REVISION STATUS OF SHEETS

1014156	
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 7-18-63
CHECKED 26/6/63
APPROVAL C. 6/6/63
APPROVAL 6/6/63
APPROVAL J. Pomeroy
NASA APPROVAL Jack Barnard
MIT APPROVAL 14 Aug 63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W5

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014412
SCALE 1/1
WT
SHEET 1 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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B	CL II CHANGE PER RD-R 5443 DR CHK J. Conley APPD		
C	CHANGED PER TDRR 06043 DR J. Leonard CHK A. Cozzens APPD J. Conley	20 FEB 64	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	BLACK	22	23	480	
	180H				479	
	3				478	
	4				477	
	5				476	
	6				475	
	61				420	
	62				419	
	63				418	
	64				417	
	65				416	
	66				415	
	121				360	
	122				359	
	123				358	
	124				357	
	125				356	
	126				355	
	181				300	
	182				299	
	183				298	
	184				297	
	185				296	
	186	BLACK	22	23	295	
	7	WHITE	22	9	474	
	8				473	
	9				472	
	10				471	
	11				470	
	12				469	
	13				468	
	14				467	
	15				466	
	16				465	
	17				464	
	18				463	
	19				462	
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	21				460	
	22				459	
	23				458	
	24				457	
	25				456	
	26				455	
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	28				453	
	29				452	
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	35				446	
	36				445	
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	38				443	
	39				442	
	40				441	
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	43				438	
	44				437	
	45				436	
	46				435	
	47				434	
	48				433	
	49				432	
	50				431	
	180G				430	
	52				429	
	53				428	
	180F				427	
	180E				426	
	180D				425	
	180C				424	
	180B				423	
	180A				422	
	180				421	
	67				414	
	38	WHITE	22	9	413	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	69	WHITE	22	9	412	
	70				411	
	71				410	
	72				409	
	73				408	
	74				407	
	75				406	
	76				405	
	77				404	
	78				403	
	79				402	
	80				401	
	81				400	
	82				399	
	83				398	
	84				397	
	85				396	
	86				395	
	87				394	
	88				393	
	89				392	
	90				391	
	91				390	
	92				389	
	93				388	
	94				387	
	95				386	
	96				385	
	97				384	
	98				383	
	99				382	
	100				381	
	101				380	
	102				379	
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	108				373	
	109				372	
	110				371	
	111				370	
	112				369	
	113				368	
	114				367	
	115				366	
	116				365	
	117				364	
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	129				352	
	130				351	
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	133				348	
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	136				345	
	137				344	
	138				343	
	139				342	
	140				341	
	141				340	
	142				339	
	143				338	
	144				337	
	145				336	
	146				335	
	147				334	
	148				333	
	149				332	
	150				331	
	151				330	
	152				329	
	153				328	
	154	WHITE	22	9	327	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	155	WHITE	22	9	326	
	156				325	
	157				324	
	158				323	
	159				322	
	160				321	
	161				320	
	162				319	
	163				318	
	164				317	
	165				316	
	166				315	
	167				314	
	168				313	
	169				312	
	170				311	
	171				310	
	172				309	
	173				308	
	174				307	
	175				306	
	176				305	
	177				304	
	178				303	
	179				302	
	240A				301	
	187				294	
	188				293	
	189				292	
	190				291	
	191				290	
	192				289	
	193				288	
	194				287	
	195				286	
	196				285	
	197				284	
	198				283	
	199				282	
	200				281	
	201				280	
	202				279	
	203				278	
	204				277	
	205				276	
	206				275	
	207				274	
	208				273	
	209				272	
	210				271	
	211				270	
	212				269	
	213				268	
	214				267	
	215				266	
	216				265	
	217				264	
	218				263	
	219				262	
	220				261	
	221				260	
	222				259	
	223				258	
	224				257	
	225				256	
	226				255	
	227				254	
	228				253	
	229				252	
	230				251	
	231				250	
	232				249	
	233				248	
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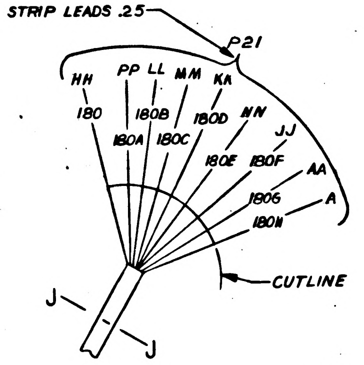
	239				242	
	240	WHITE	22	9	241	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AA
180G
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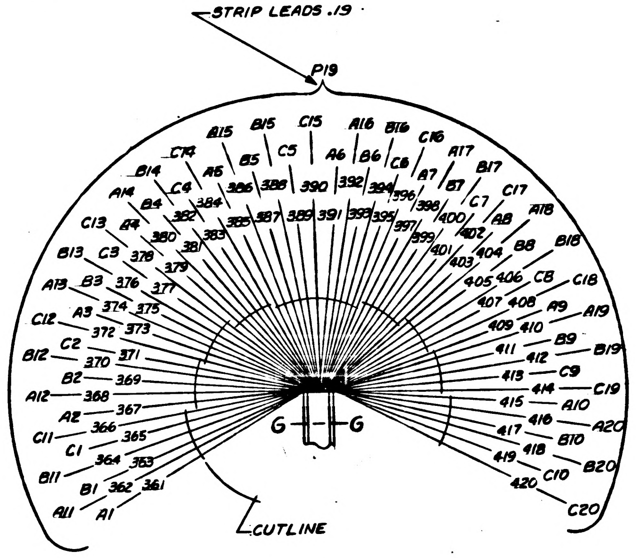
180H
CUTLINE
J
J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C14
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B5
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A17
B14
C4
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388
390
392
394
396
A7
B7
B17
A14
B4
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382
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387
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393
395
397
398
400
C7
C17
C13
A4
380
381
383
399
401
402
A8
A18
B13
C3
378
379
403
404
B8
B18
A13
B3
376
377
405
406
C8
C18
C12
A3
374
375
407
408
A9
A19
372
373
409
410
B12
C2
370
371
411
412
B9
B19
A12
B2
369
413
C9
A2
368
414
C19
C11
367
415
A10
C1
366
365
416
A20
B11
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B20
A11
A1
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C20
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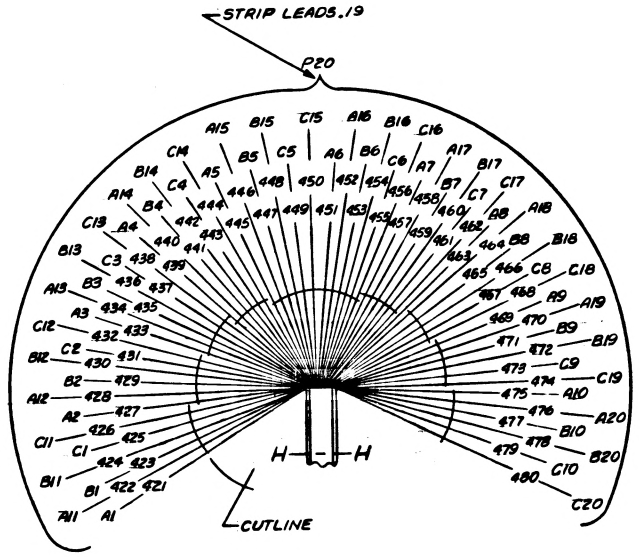
G
CUTLINE


STRIP LEADS .19
P20
A15
B15
C15
A16
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C16
C14
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C5
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B6
C6
A17
B14
C4
446
448
450
452
454
456
A7
B7
B17
A14
B4
444
442
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447
449
451
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455
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458
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C7
C17
C13
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461
462
A8
A18
B13
C3
438
439
463
464
B8
B18
A13
B3
436
437
465
466
C8
C18
C12
A3
434
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467
468
A9
A19
432
433
469
470
B12
C2
430
431
471
472
B9
B19
A12
B2
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473
C9
A2
428
474
C19
C11
427
475
A10
C1
426
425
476
A20
B11
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423
477
B10
B1
422
421
478
B20
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479
C10
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H
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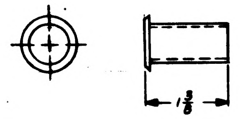
CUTLINE

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02529 DATE 14 Aug 63



NOTES
1. REOPERATE FIND NO. 16 AS SHOWN
BUSHING

1014412-1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 7-19-63
CHECKED 26 Jul 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W5

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014412
SCALE 1/1 WT. SHEET 2 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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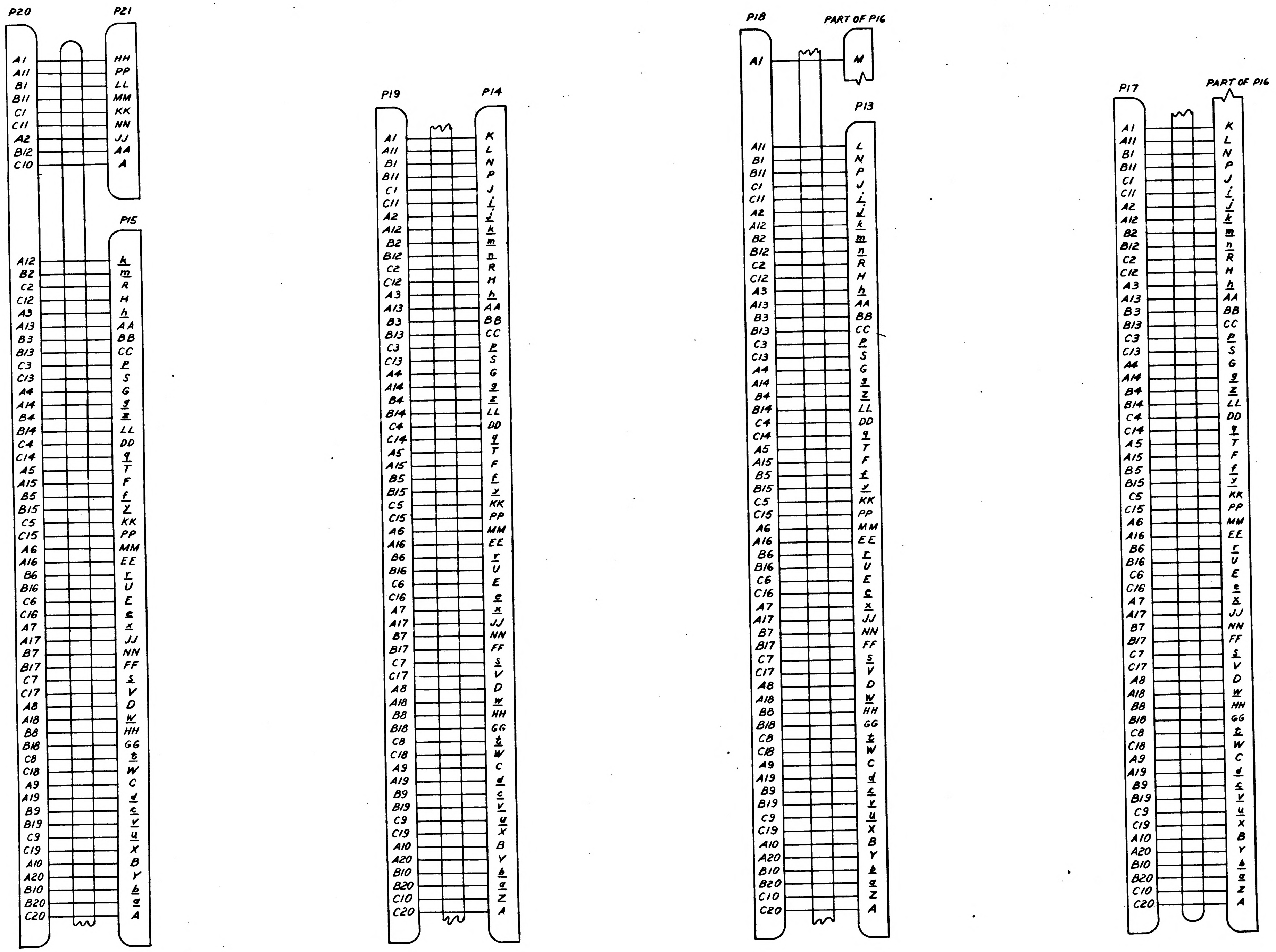
SIP101

SYM	DESCRIPTION	DATE	APPROVED
C	THIS SHEET ADDED PER TDRR 06043		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ELECTRICAL SCHEMATIC

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 06043 DATE

Ⓒ THIS SHEET ADDED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN J. Link DATE 6 Nov 63
CHECKED W. J. Gifford 19 NOV 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W5

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014412
SCALE NONE
WT
SHEET 3 OF 3

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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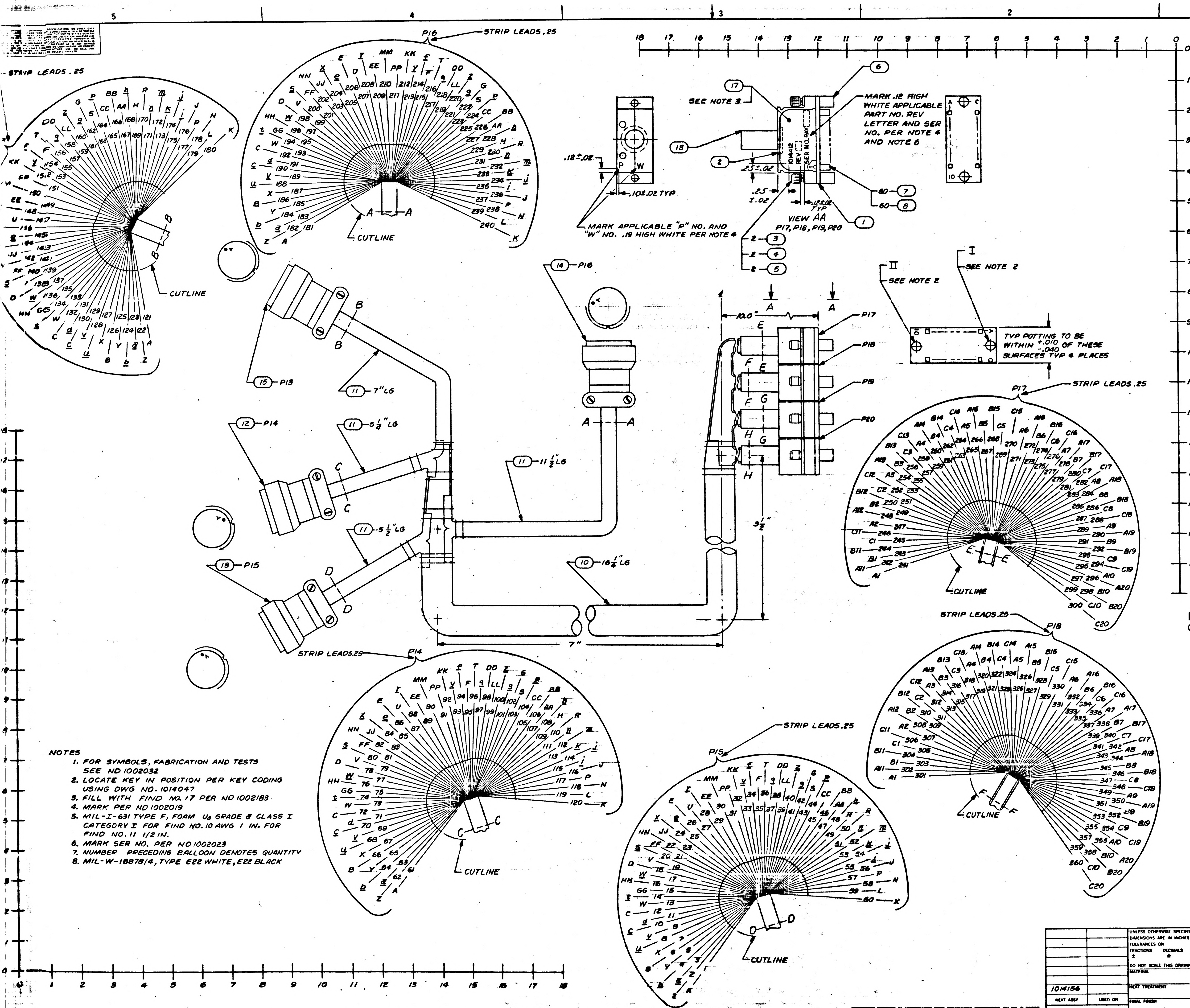
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 02529	14Aug63	



P16
STRIP LEADS .25
STRIP LEADS .25
CUTLINE
A — A
B — B
C — C
D — D
E — E
F — F
G — G
H — H
SEE NOTE 3
MARK .12 HIGH WHITE APPLICABLE PART NO. REV LETTER AND SER NO. PER NOTE 4 AND NOTE 6
MARK APPLICABLE "P" NO. AND "W" NO. .19 HIGH WHITE PER NOTE 4
.12±.02
.10±.02 TYP
.25±.02
.25 ±.02
.12±.02 TYP
VIEW AA
P17, P18, P19, P20
1014412
REV
SER NO. RAY
60 — 7
60 — 8
2 — 3
2 — 4
2 — 5
SEE NOTE 2
I
II
TYP POTTING TO BE WITHIN +.010 -.040 OF THESE SURFACES TYP 4 PLACES
10.0"
P17
P18
P19
P20
3 1/2"
14 — P16
15 — P13
11 — 7" LG
12 — P14
11 — 5 1/4" LG
11 — 11 1/2" LG
11 — 5 1/2" LG
13 — P15
10 — 16 1/4" LG
7"
P13
P14
P15
P17
P18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02529 DATE 14Aug63

NOTES

1. FOR SYMBOLS, FABRICATION AND TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 17 PER ND 1002183
4. MARK PER ND 1002019
5. MIL-I-631 TYPE F, FOAM U_a GRADE A CLASS I CATEGORY I FOR FIND NO. 10 AWG 1 IN. FOR FIND NO. 11 1/2 IN.
6. MARK SER NO. PER ND 1002023
7. NUMBER PRECEDING BALLOON DENOTES QUANTITY
8. MIL-W-16878/4, TYPE E22 WHITE, E22 BLACK

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	1014412-1	BUSHING	18
AR	1006904	EPOXY RESIN	17
4	AN3420-12	BUSHING	16
1	MS3126F-24-61SX	CONNECTOR	15
1	MS3126F-24-61SW	CONNECTOR	14
1	MS3126F-24-61SY	CONNECTOR	13
1	MS3126F-24-61SZ	CONNECTOR	12
AR	SEE NOTE 5	SLEEVING	11
AR	SEE NOTE 5	SLEEVING	10
AR	SEE NOTE 8	WIRE, ELECTRICAL	9
240	1010380	INSULATOR BUSHING, FEMALE	8
240	1010379-1	CONTACT ELECTRICAL, FEMALE	7
8	1014032	RECEPTACLE, INDEXING	6
8	1006997	WASHER, PLAIN FLAT	5
8	MS35337-79	WASHER, LOCK	4
8	1006998-1	SCREW, CAPTIVE	3
4	1014000-4	FRAME, MODULE	2
4	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 7-19-63
CHECKED 2/4/63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 14Aug63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W5

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014412
SCALE 1/1
WT
SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

F-2

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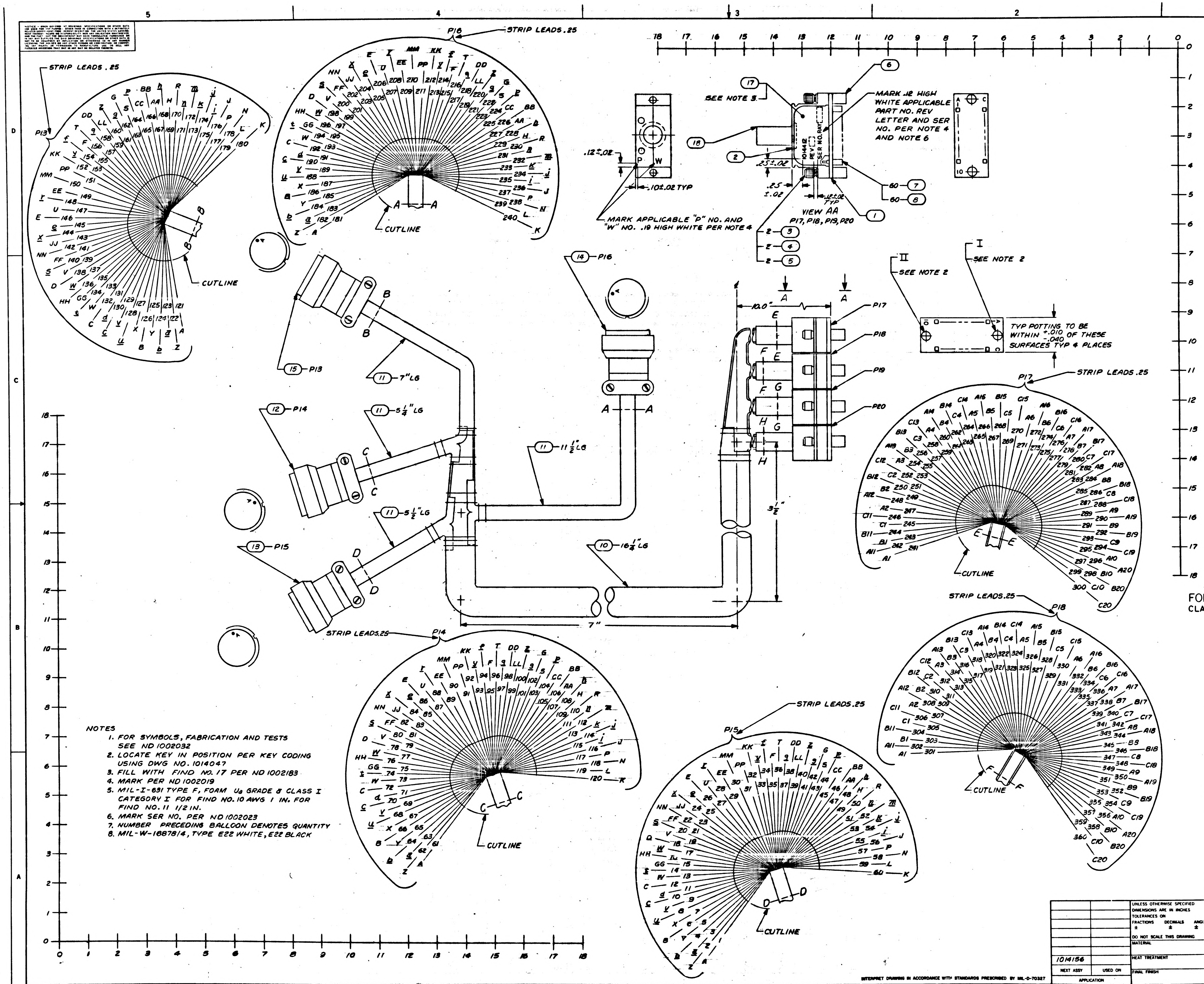
REVISIONS	
SYM	DESCRIPTION
–	CLASS B RELEASED PER

1014412


STRIP LEADS .25
P13
CUTLINE
B
P16
STRIP LEADS .25
A
CUTLINE
SEE NOTE 3
MARK .12 HIGH WHITE APPLICABLE PART NO. REV LETTER AND SER NO. PER NOTE 4 AND NOTE 6
1014412
REV
SER NO.
.12±.02
P
W
.10±.02 TYP
.25±.02
.25 ±.02
.12±.02 TYP
MARK APPLICABLE "P" NO. AND "W" NO. .19 HIGH WHITE PER NOTE 4
VIEW AA
P17, P18, P19, P20
60 ⑦
60 ⑧
①
②
2 ③
2 ④
2 ⑤
⑥
⑰
⑱
I
SEE NOTE 2
II
SEE NOTE 2
TYP POTTING TO BE WITHIN +.010 -.040 OF THESE SURFACES TYP 4 PLACES
⑭ P16
⑮ P13
⑪ 7" LG
⑫ P14
⑪ 5 1/4" LG
⑪ 11 1/2" LG
⑪ 5 1/2" LG
⑬ P15
⑩ 16 1/4" LG
10.0"
P17
P18
P19
P20
3 1/2"
7"
E
F
G
H
C
D
STRIP LEADS .25
P17
CUTLINE
STRIP LEADS .25
P18
CUTLINE
STRIP LEADS .25
P14
CUTLINE
STRIP LEADS .25
P15
CUTLINE

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02529

NOTES
1. FOR SYMBOLS, FABRICATION AND TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 17 PER ND 1002183
4. MARK PER ND 1002019
5. MIL-I-631 TYPE F, FOAM U_a GRADE & CLASS I CATEGORY I FOR FIND NO. 10 AWG 1 IN. FOR FIND NO. 11 1/2 IN.
6. MARK SER NO. PER ND 1002023
7. NUMBER PRECEDING BALLOON DENOTES QUANTITY
8. MIL-W-16878/4, TYPE E22 WHITE, E22 BLACK

4	1014412-1	BUSHING
AR	1006904	EPOXY RE
4	AN3420-12	BUSHING
1	MS3126F-24-61SX	CONNECTOR
1	MS3126F-24-61SW	CONNECTOR
1	MS3126F-24-61SY	CONNECTOR
1	MS3126F-24-61SZ	CONNECTOR
AR	SEE NOTE 5	SLEEVING
AR	SEE NOTE 5	SLEEVING
AR	SEE NOTE 8	WIRE, ELE
240	1010380	INSULATOR
240	1010379-1	CONTACT E
8	1014032	RECEPTAC
8	1006337	WASHER, F
8	MS35337-79	WASHER, L
8	1006998-1	SCREW, CA
4	1014000-4	FRAME, MO
4	1014021	PLATE, CON
QTY REQD	PART OR IDENTIFYING NO.	NO

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MAS
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 7-19-
CHECKED
APPROVAL
APPROVAL
APPROVAL
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MANNED

CABLE

CODE IDENT NO
SIZE J
SCALE 1/1
WT

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INCHES
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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR 02529	14 Aug 63	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	BLACK	22	9	480	
	2				479	
	3				478	
	4				477	
	5				476	
	6				475	
	61				420	
	62				419	
	63				418	
	64				417	
	65				416	
	66				415	
	121				360	
	122				359	
	123				358	
	124				357	
	125				356	
	126				355	
	181				300	
	182				299	
	183				298	
	184				297	
	185				296	
	186	BLACK	22	9	295	
	7	WHITE	22	9	474	
	8				473	
	9				472	
	10				471	
	11				470	
	12				469	
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	60				421	
	67				414	
	68	WHITE	22	9	413	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
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	92				389	
	93				388	
	94				387	
	95				386	
	96				385	
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	141				340	
	142				339	
	143				338	
	144				337	
	145				336	
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	147				334	
	148				333	
	149				332	
	150				331	
	151				300	
	152				329	
	153				328	
	154	WHITE	22	9	327	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	155	WHITE	22	9	326	
	156				325	
	157				324	
	158				323	
	159				322	
	160				321	
	161				320	
	162				319	
	163				318	
	164				317	
	165				316	
	166				315	
	167				314	
	168				313	
	169				312	
	170				311	
	171				310	
	172				309	
	173				308	
	174				307	
	175				306	
	176				305	
	177				304	
	178				303	
	179				302	
	180				301	
	187				294	
	188				293	
	189				292	
	190				291	
	191				290	
	192				289	
	193				288	
	194				287	
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	198				283	
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	200				281	
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	202				279	
	203				278	
	204				277	
	205				276	
	206				275	
	207				274	
	208				273	
	209				272	
	210				271	
	211				270	
	212				269	
	213				268	
	214				267	
	215				266	
	216				265	
	217				264	
	218				263	
	219				262	
	220				261	
	221				260	
	222				259	
	223				258	
	224				257	
	225				256	
	226				255	
	227				254	
	228				253	
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	231				250	
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	233				248	
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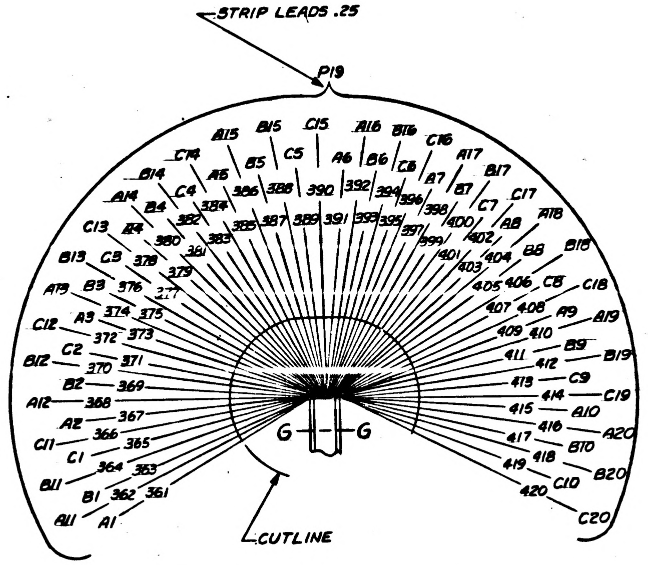
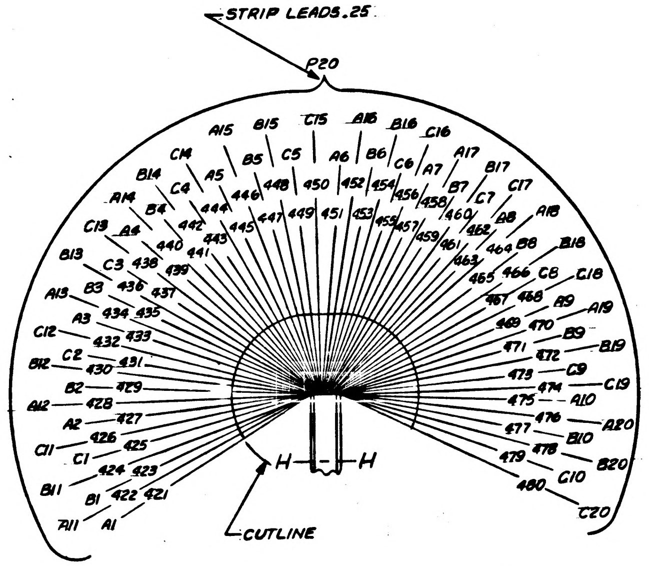
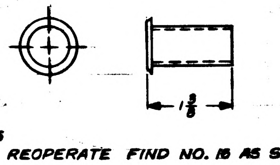
	240	WHITE	22	9	241	







NOTES
1. REOPERATE FIND NO. 16 AS SHOWN

BUSHING

1014412-1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02529 DATE 14 Aug 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 7-19-63
CHECKED 26 Jul 63
APPROVAL 7/16/63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 14 Aug 63
MIT APPROVAL 14 Aug 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W5

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014412
SCALE 1/1
WT.
SHEET 2 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REV SYM	DESCRIPTION
–	CLASS B RELEASED PER TC

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	BLACK	22	9	480	
	2				479	
	3				478	
	4				477	
	5				476	
	6				475	
	61				420	
	62				419	
	63				418	
	64				417	
	65				416	
	66				415	
	121				360	
	122				359	
	123				358	
	124				357	
	125				356	
	126				355	
	181				300	
	182				299	
	183				298	
	184				297	
	185				296	
	186	BLACK	22	9	295	
	7	WHITE	22	9	474	
	8				473	
	9				472	
	10				471	
	11				470	
	12				469	
	13				468	
	14				467	
	15				466	
	16				465	
	17				464	
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	35				446	
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	54				427	
	55				426	
	56				425	
	57				424	
	58				423	
	59				422	
	60				421	
	67				414	
	68	WHITE	22	9	413	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	69	WHITE	22	9	412	
	70				411	
	71				410	
	72				409	
	73				408	
	74				407	
	75				406	
	76				405	
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	147				334	
	148				333	
	149				332	
	150				331	
	151				300	
	152				329	
	153				328	
	154	WHITE	22	9	327	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	155	WHITE	22	9	326	
	156				325	
	157				324	
	158				323	
	159				322	
	160				321	
	161				320	
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	233				248	
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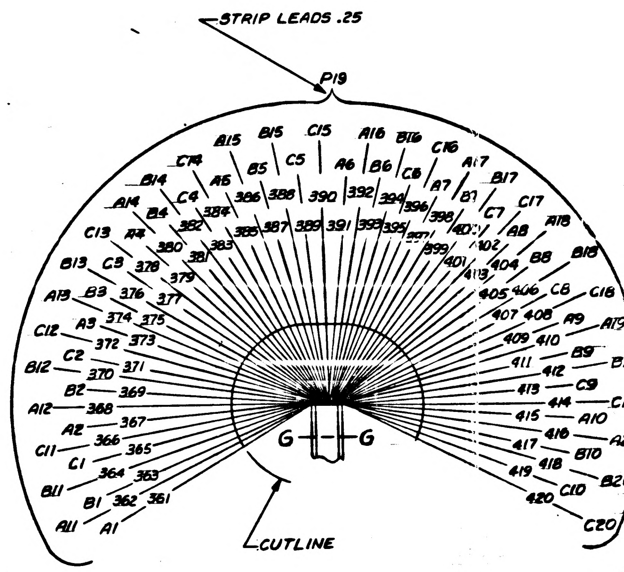
	240	WHITE	22	9	241	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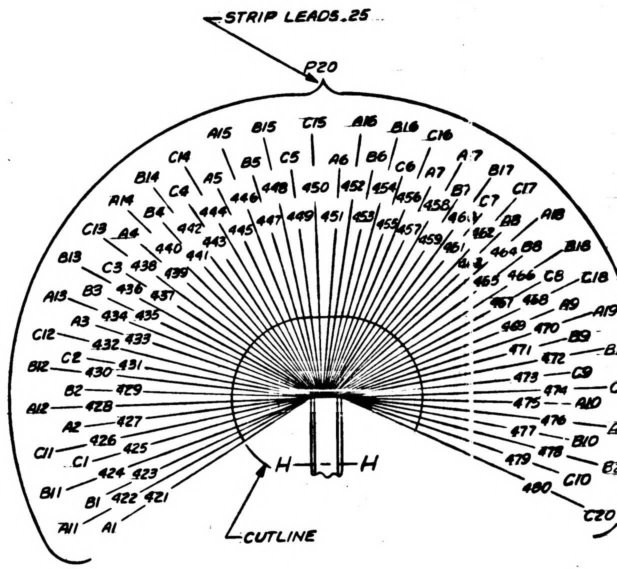
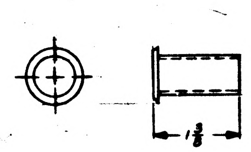
P19
A15 B15 C15 A16 B16 C16 A17 B17 C17 A18 B18 C18 A19
C14 B14 A14 C13 B13 A13 C12 B12 A12 C11 B11 A11
A5 B5 C5 A6 B6 C6 A7 B7 C7 A8 B8 C8 A9 B9 C9 A10 B10 C10
C4 B4 A4 C3 B3 A3 C2 B2 A2 C1 B1 A1
361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380
381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400
401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420
C20
G G
CUTLINE


STRIP LEADS .25
P20
A15 B15 C15 A16 B16 C16 A17 B17 C17 A18 B18 C18 A19
C14 B14 A14 C13 B13 A13 C12 B12 A12 C11 B11 A11
A5 B5 C5 A6 B6 C6 A7 B7 C7 A8 B8 C8 A9 B9 C9 A10 B10 C10
C4 B4 A4 C3 B3 A3 C2 B2 A2 C1 B1 A1
421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440
441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460
461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480
C20
H H
CUTLINE

FOR INFORMATION ONLY
CLASS B RELEASE TORR NO.



NOTES
1. REOPERATE FIND NO. 16 AS SHOWN

BUSHING

1014412-1

QTY REQD	PART OR IDENTIFYING NO	NOME

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 7-18-63
CHECKED 26 7-63
APPROVAL 7/16/63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SP

CAB_E

CODE IDENT NO ——
SIZE J
SCALE 1/1
WT

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		

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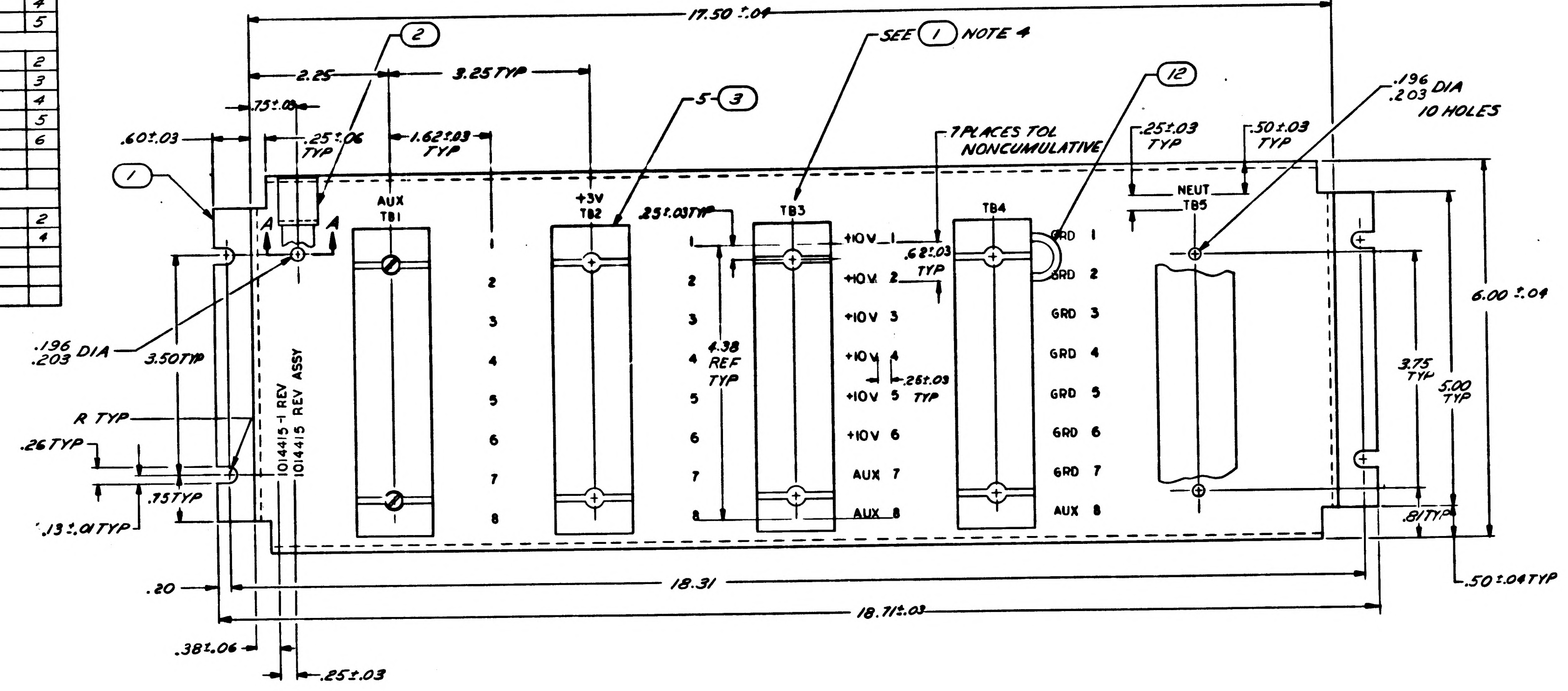
JUMPER LIST		
TERM. STRIP	FROM	TO
TB2	1	2
	2	3
	3	4
	4	5
	5	6
	6	7
	7	8
TB3	1	2
	2	3
	3	4
	4	5
TB4	1	2
	2	3
	3	4
	4	5
	5	6
TB5	1	2
	3	4


17.50 ±.04
2
2.25
3.25 TYP
5-3
SEE 1 NOTE 4
12
.196 .203 DIA 10 HOLES
.75±.03
.60±.03
.25±.06 TYP
1.62±.03 TYP
7 PLACES TOL NONCUMULATIVE
.25±.03 TYP
.50±.03 TYP
1
A
A
AUX TB1
+3V TB2
TB3
TB4
NEUT TB5
.25±.03 TYP
+10V 1
+10V 2
+10V 3
+10V 4
+10V 5
+10V 6
AUX 7
AUX 8
GRD 1
GRD 2
GRD 3
GRD 4
GRD 5
GRD 6
GRD 7
AUX 8
1 2 3 4 5 6 7 8
.62±.03 TYP
.25±.03 TYP
4.38 REF TYP
6.00 ±.04
3.75 TYP
5.00 TYP
.81 TYP
.50±.04 TYP
.196 .203 DIA
3.50 TYP
R TYP
.26 TYP
.75 TYP
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1014415 REV ASSY
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18.31
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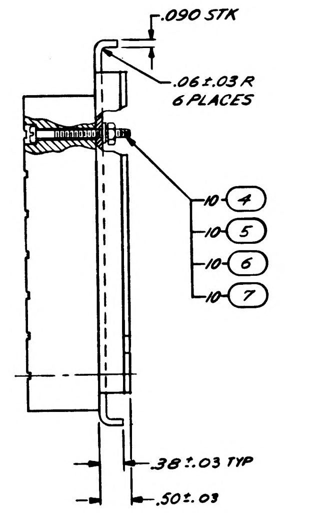
.38±.06
.25±.03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.06±.03 R 6 PLACES
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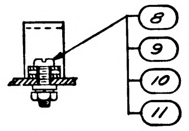
10-5
10-6
10-7
.38±.03 TYP
.50±.03

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02693 DATE 2 Aug 63



SECTION A-A

NOTES
①
1. MATL AL 5052-H32 PER QQ-A-318, TEMP H32
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE FILM PER MIL-C-5541, EXCEPT TO BE ELECTRICALLY CONDUCTIVE
4. SILKSCREEN .12 HIGH BLACK PER ND1002019

ASSY NOTES
1. MIL-W-16878/4 E14 WHITE
2. NUMBERS PRECEDING FIND NUMBERS INDICATE QUANTITIES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	SEE ASSY NOTE 1	WIRE, ELECTRICAL	12
1	MS35650-104	NUT, PLAIN, HEX	11
1	MS35338-81	WASHER, LOCK	10
1	MS15795-308	WASHER, FLAT	9
1	MS35234-63	SCREW, MACH, PAN HD	8
10	MS35649-64	NUT, PLAIN, HEX	7
10	MS35338-79	WASHER, LOCK	6
10	MS15795-305	WASHER, FLAT	5
10	MS35233-36	SCREW, MACH, PAN HD	4
5	1006859-7	BOARD, TERMINAL	3
1	MS21919DG9	CLAMP, LOOP-TYPE	2
1	1014415-1	BRACKET	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 29 JUL 63
CHECKED A. Perrone 5 AUG 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

TERMINAL BOARD ASSEMBLY

CODE IDENT NO. — SIZE F NASA DRAWING NO. 1014415
SCALE 1/1 WT SHEET 1 OF 1

1014415

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 2
PHOTOGRAPHIC SCALE ONLY

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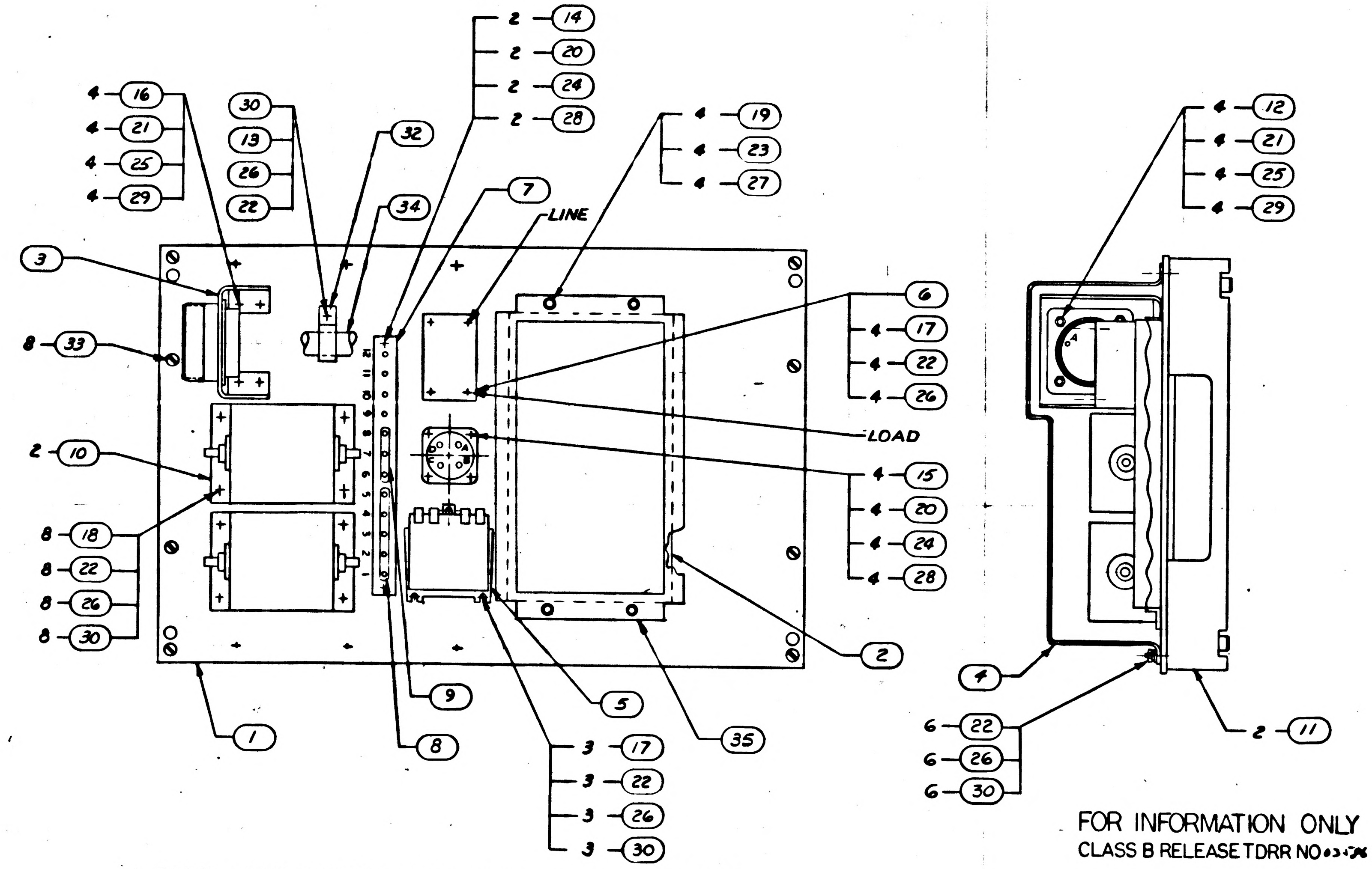
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 035 PC		
A	CLASS II CHANGE PER RD-R5515A DR. J P Leonard CHK J Ruggeri APPD H Morse	12/4/63	JJ
B	CHANGED PER TDRR 06440 DR J. Manning CHK APPD S Kaley	2 MAR 64	



REAR VIEW SHOWN WITH FIND NO. 4 REMOVED

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 03-536 DATE 10/3/63

NOTES
1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. MARK APPLICABLE REV NO. PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1020113	AIR DUCT	35
☒	1014368	SCHEMATIC	REF
1	1020046	WIRING HARNESS	34
8	MS35200-41	SCREW FLAT HD	33
1	MS21919-DG8	CLAMP, CUSHION	32
~~4~~	~~MS35649-104~~	~~NUT, PLAIN HEX~~	~~31~~
18	MS35649-84	NUT, PLAIN HEX	30
8	MS35649-64	NUT, PLAIN HEX	29
6	MS35649-44	NUT, PLAIN HEX	28
4	MS35337-81	WASHER, LOCK	27
22	MS35337-80	WASHER, LOCK	26
8	MS35337-79	WASHER, LOCK	25
6	MS35337-78	WASHER, LOCK	24
4	MS15795-308	WASHER, FLAT	23
22	MS15795-307	WASHER, FLAT	22
8	MS15795-305	WASHER, FLAT	21
6	MS15795-303	WASHER, FLAT	20
4	MS35216-56	SCREW, PAN HD	19
8	MS35216-44	SCREW, PAN HD	18
7	MS35216-40	SCREW, PAN HD	17
4	MS35216-28	SCREW, PAN HD	16
4	MS35216-17	SCREW, PAN HD	15
2	MS35216-15	SCREW, PAN HD	14
1	MS35216-27	SCREW, PAN HD	13
4	MS35216-29	SCREW, PAN HD	12
2	1014215-6	HANDLE ASSY	11
2	1006654	FILTER	10
1	MS25226-2-3	BUSS-TERMINAL BOARD	9
1	MS25226-2-5	BUSS-TERMINAL BOARD	8
1	1014420	TERMINAL, BOARD	7
1	1006957-18	CIRCUIT, BREAKER ASSY	6
1	1006926	RELAY, ARMATURE	5
1	1014419	COVER	4
1	1014418	BRACKET, CONNECTOR	3
1	1006857	FILTER BOX ASSEMBLY	2
1	1014417	PANEL AC INPUT	1

LIST OF MATERIALS

1014465	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS9-498
DRAWN DATE 4 Sept 63
CHECKED A J Marinaro 11 Sept 63
APPROVAL H Morse 16 Sept 63
APPROVAL 9-20-63
APPROVAL
NASA APPROVAL 10-3-63
MIT APPROVAL 10/3
APPROVAL 9/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AC INPUT PANEL, ASSEMBLY

CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014416
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

1014416

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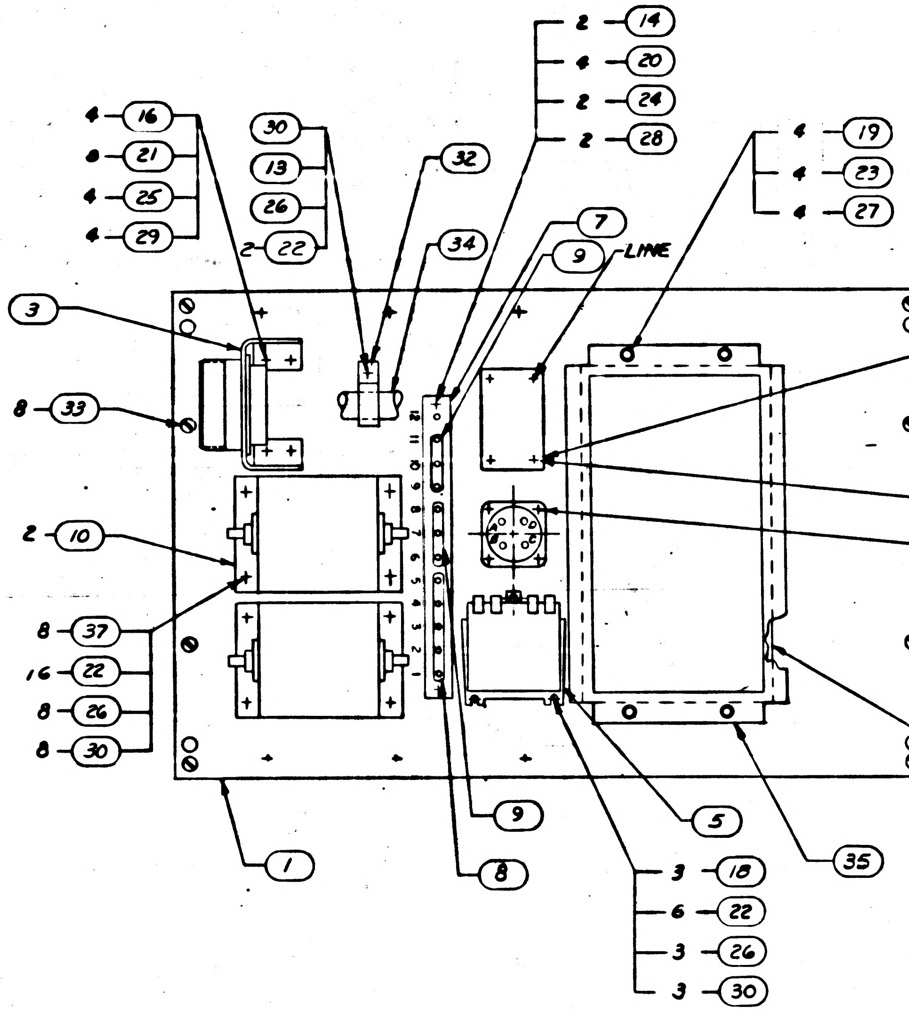
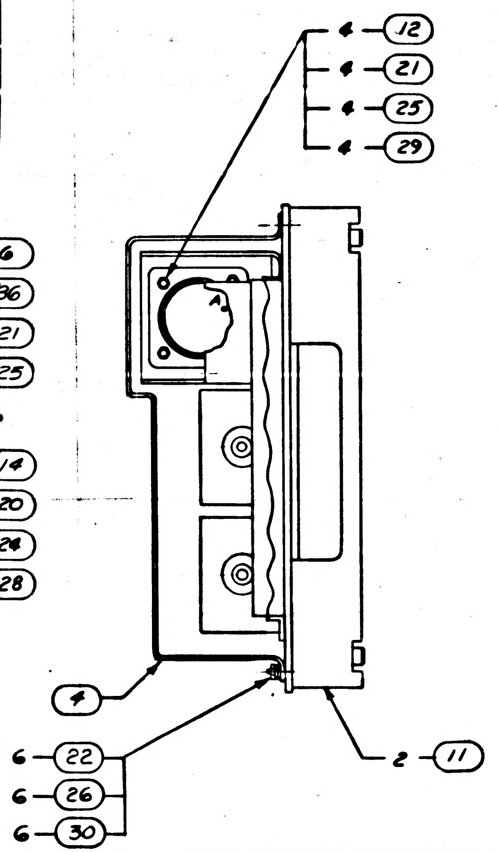
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 035 76		
A	CLASS II CHANGE PER RD-R5515A DR. J P Leonard CHK J Ruggeri APPD N Moore	12/4/63	JJ
B	CHANGED PER TDRR 06440 DR J. Manning CHK APPD J Conley	2 MAR 64	KCB
C	CHANGED PER TDRR 08871 DR R Haisler CHK APPD J Conley	9 June 64	KCB



REAR VIEW SHOWN WITH FIND NO. 4 REMOVED



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 03576 DATE 10/3/63

NOTES
1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. MARK APPLICABLE REV NO. PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
8	MS35216-42	SCREW, PAN HEAD	37
4	MS35216-26	SCREW, PAN HEAD	36
1	1020113	AIR DUCT	35
☒	1014368	SCHEMATIC	REF
1	1020046	WIRING HARNESS	34
8	MS35200-41	SCREW FLAT HD	33
1	MS21919-DG8	CLAMP, CUSHION	32
~~4~~	~~MS35649-104~~	~~NUT, PLAIN HEX~~	~~31~~
18	MS35649-84	NUT, PLAIN HEX	30
8	MS35649-64	NUT, PLAIN HEX	29
6	MS35649-44	NUT, PLAIN HEX	28
4	MS35337-81	WASHER, LOCK	27
18	MS35337-80	WASHER, LOCK	26
12	MS35337-79	WASHER, LOCK	25
6	MS35337-78	WASHER, LOCK	24
4	MS15795-308	WASHER, FLAT	23
30	MS15795-307	WASHER, FLAT	22
16	MS15795-305	WASHER, FLAT	21
12	MS15795-303	WASHER, FLAT	20
4	MS35216-56	SCREW, PAN HD	19
3	MS35216-44	SCREW, PAN HD	18
~~7~~	~~MS35216-40~~	~~SCREW, PAN HD~~	~~17~~
4	MS35216-28	SCREW, PAN HD	16
~~4~~	~~MS35216-17~~	~~SCREW, PAN HD~~	~~15~~
6	MS35216-16	SCREW, PAN HD	14
1	MS35216-43	SCREW, PAN HD	13
4	MS35216-27	SCREW, PAN HD	12
2	1014215-6	HANDLE ASSY	11
2	1006654	FILTER	10
2	MS25226-2-3	BUSS-TERMINAL BOARD	9
1	MS25226-2-5	BUSS-TERMINAL BOARD	8
1	1014420	TERMINAL, BOARD	7
1	1006957-18	CIRCUIT, BREAKER ASSY	6
1	1006926	RELAY, ARMATURE	5
1	1014419	COVER	4
1	1014418	BRACKET, CONNECTOR	3
1	1006857	FILTER BOX ASSEMBLY	2
1	1014417	PANEL AC INPUT	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS9-498
DRAWN DATE 4 SEPT 63
CHECKED A. J. Marinaro 11 SEPT 63
APPROVAL H. Moore 26 SEPT 63
APPROVAL 9-23-63
APPROVAL
NASA APPROVAL 10-2-63
MIT APPROVAL 9/30/63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AC INPUT PANEL ASSEMBLY

CODE IDENT NO.	SIZE	NASA DRAWING NO.
——	D	1014416

SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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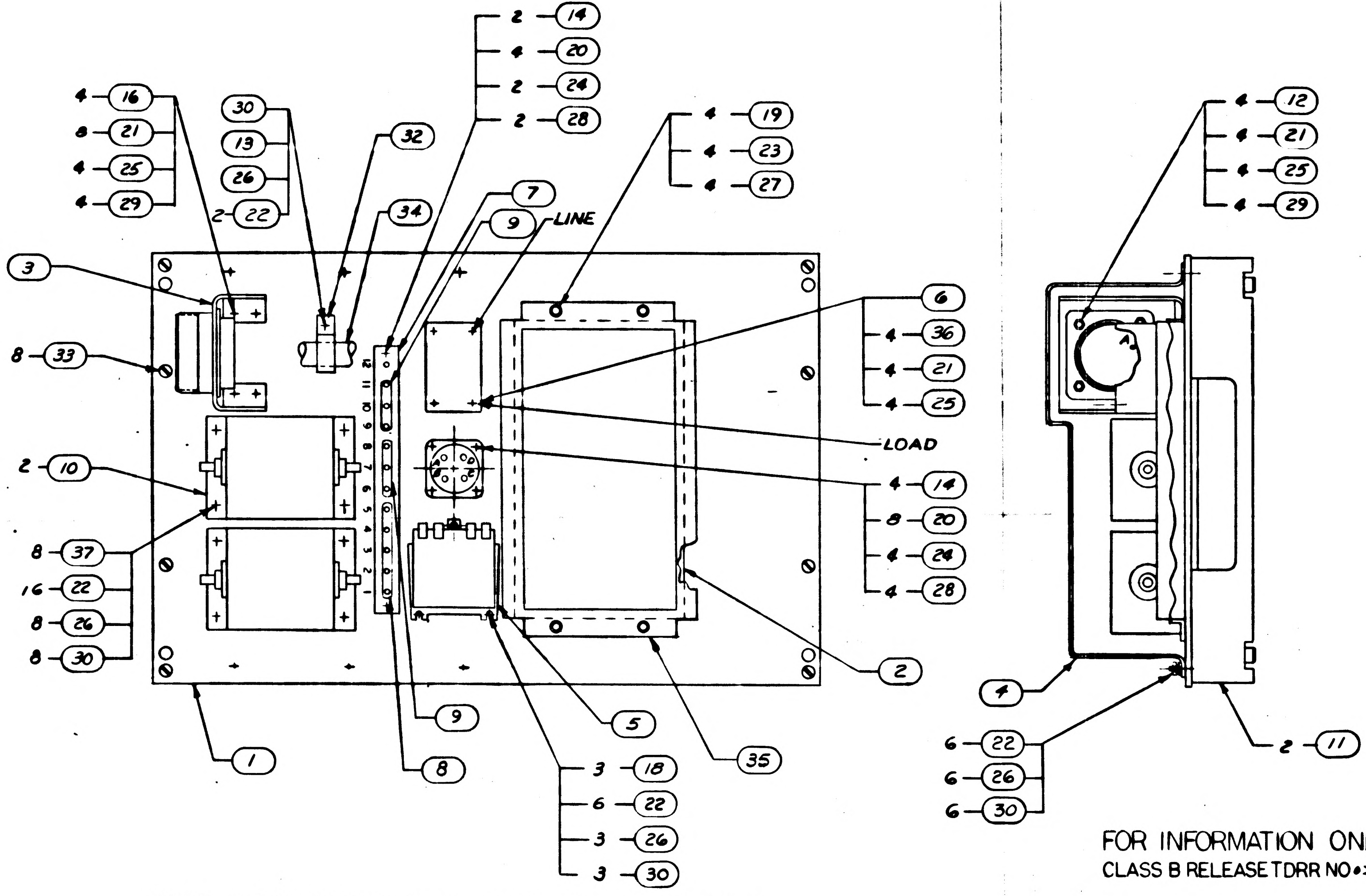
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 03576		
A	CLASS II CHANGE PER RD-R5515A DR. J P Leonard CHK J Ruggiero APPD N Morse	12 Sept 63	
B	CHANGED PER TDRR 06440 DR J. Manning CHK APPD J Conley	2 MAR 64	KCB
C	CHANGED PER TDRR 08871 DR R Fleischer CHK APPD J Conley	9 June 64	KCB
D	CHANGED PER TDRR 11301 DR B Clemmons CHK Q.G.C. APPD	10 Aug 64	KCB



REAR VIEW SHOWN WITH FIND NO. 4 REMOVED

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 03576 DATE 10/3/63

NOTES
1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. MARK APPLICABLE REV NO. PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.
8	MS35216-42	SCREW, PAN HEAD	37
4	MS35216-26	SCREW, PAN HEAD	36
1	1020113	AIR DUCT	35
☒	1014368	SCHEMATIC	REF
1	1020046	WIRING HARNESS	34
8	MS35200-41	SCREW FLAT HD	33
1	MS21919-DG8	CLAMP, CUSHION	32
~~4~~	~~MS35649-104~~	~~NUT, PLAIN HEX~~	~~31~~
18	MS35649-84	NUT, PLAIN HEX	30
8	MS35649-64	NUT, PLAIN HEX	29
6	MS35649-44	NUT, PLAIN HEX	28
4	MS35337-81	WASHER, LOCK	27
18	MS35337-80	WASHER, LOCK	26
12	MS35337-79	WASHER, LOCK	25
6	MS35337-78	WASHER, LOCK	24
4	MS15795-308	WASHER, FLAT	23
30	MS15795-307	WASHER, FLAT	22
16	MS15795-305	WASHER, FLAT	21
12	MS15795-303	WASHER, FLAT	20
4	MS35216-56	SCREW, PAN HD	19
3	MS35216-44	SCREW, PAN HD	18
~~7~~	~~MS35216-40~~	~~SCREW, PAN HD~~	~~17~~
4	MS35216-28	SCREW, PAN HD	16
~~4~~	~~MS35216-17~~	~~SCREW, PAN HD~~	~~15~~
6	MS35216-16	SCREW, PAN HD	14
1	MS35216-43	SCREW, PAN HD	13
4	MS35216-27	SCREW, PAN HD	12
2	1014215-6	HANDLE ASSY	11
2	1006654	FILTER	10
2	MS25226-2-3	BUSS-TERMINAL BOARD	9
1	MS25226-2-5	BUSS-TERMINAL BOARD	8
1	1014420	TERMINAL, BOARD	7
1	1006957-18	CIRCUIT, BREAKER ASSY	6
1	1006926	RELAY, ARMATURE	5
1	1014419	COVER	4
1	1014418	BRACKET, CONNECTOR	3
1	1006857-1	FILTER BOX ASSEMBLY	2
1	1014417	PANEL AC INPUT	1

LIST OF MATERIALS

1014416

1014465	1020002
NEXT ASSY	USED ON
APPLICATION	

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MATERIAL
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FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS9-498
DRAWN DATE 4 Sept 63
CHECKED A J Marinaro 11 Sept 63
APPROVAL H Morse 25 Sept 63
APPROVAL 9-20-63
APPROVAL
NASA APPROVAL 10-3-63
MIT APPROVAL 9/30
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AC INPUT PANEL, ASSEMBLY

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	D	1014416
SCALE 1/2	WT	SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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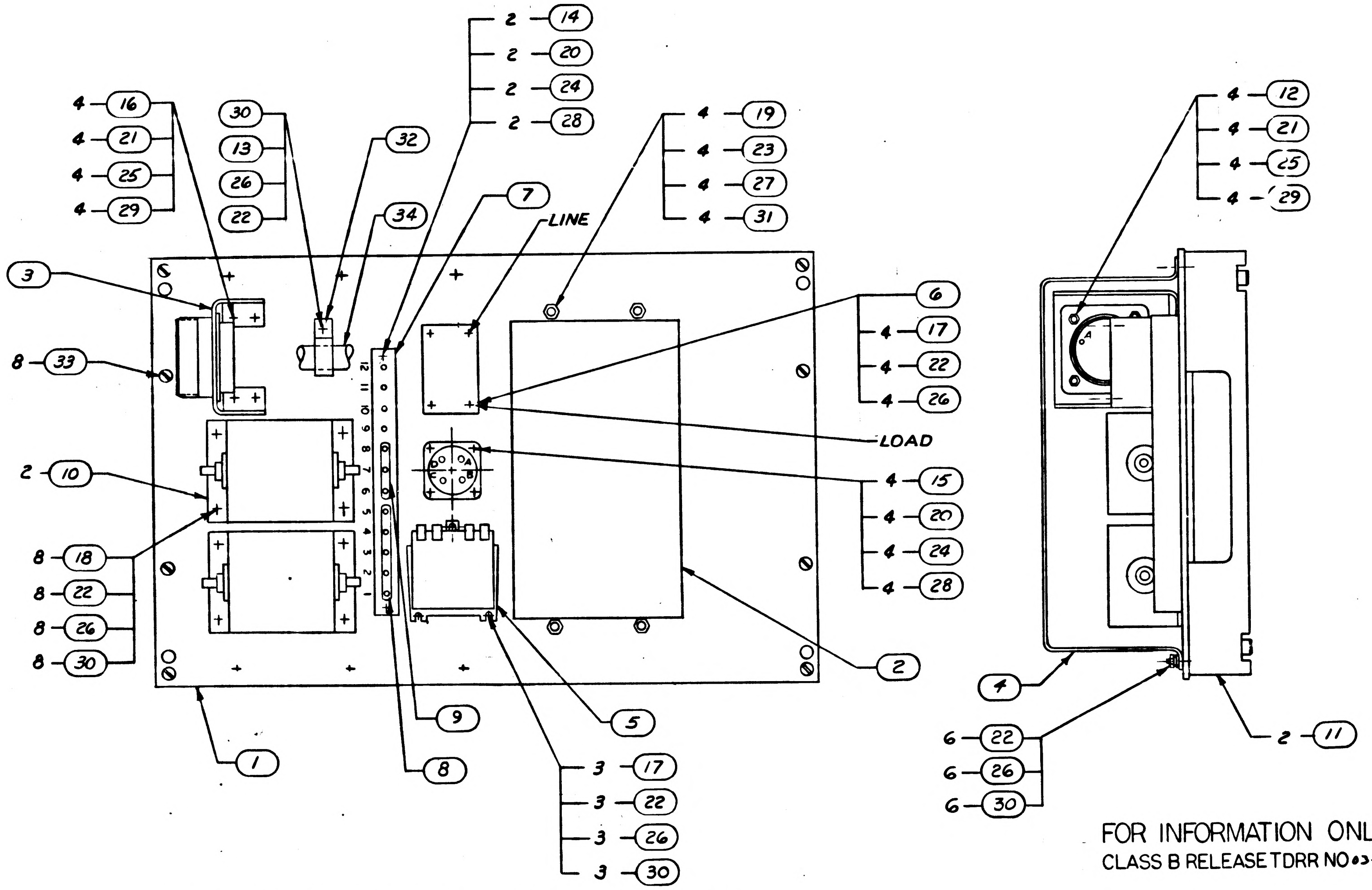
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 035 PC		



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 03-786 DATE 10/3/63

REAR VIEW SHOWN WITH FIND NO. 4 REMOVED

NOTES
1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
2. MARK APPLICABLE REV NO. PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	1014368	SCHEMATIC	REF
1	1020046	WIRING HARNESS	34
8	MS35200-41	SCREW FLAT HD	33
1	MS21919-DG8	CLAMP, CUSHION	32
4	MS35649-104	NUT, PLAIN HEX	31
18	MS35649-84	NUT, PLAIN HEX	30
8	MS35649-64	NUT, PLAIN HEX	29
6	MS35649-44	NUT, PLAIN HEX	28
4	MS35337-81	WASHER, LOCK	27
22	MS35337-80	WASHER, LOCK	26
8	MS35337-79	WASHER, LOCK	25
6	MS35337-78	WASHER, LOCK	24
4	MS15795-308	WASHER, FLAT	23
22	MS15795-307	WASHER, FLAT	22
8	MS15795-305	WASHER, FLAT	21
6	MS15795-303	WASHER, FLAT	20
4	MS35216-56	SCREW, PAN HD	19
8	MS35216-44	SCREW, PAN HD	18
7	MS35216-40	SCREW, PAN HD	17
4	MS35216-28	SCREW, PAN HD	16
4	MS35216-17	SCREW, PAN HD	15
2	MS35216-15	SCREW, PAN HD	14
1	MS35216-27	SCREW, PAN HD	13
4	MS35216-29	SCREW, PAN HD	12
2	1014215-6	HANDLE ASSY	11
2	1006654	FILTER	10
1	MS25226-2-3	BUSS-TERMINAL BOARD	9
1	MS25226-2-5	BUSS-TERMINAL BOARD	8
1	1014420	TERMINAL, BOARD	7
1	1006957-18	CIRCUIT, BREAKER ASSY	6
1	1006926	RELAY, ARMATURE	5
1	1014419	COVER	4
1	1014418	BRACKET, CONNECTOR	3
1	1006857	FILTER BOX ASSEMBLY	2
1	1014417	PANEL AC INPUT	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 4 SEPT '63
CHECKED A J Marinaro 11 SEPT '63
APPROVAL H. Morse 26 SEPT 63
APPROVAL [illegible] 9-20-63
APPROVAL [illegible] 9/6/63
NASA APPROVAL [illegible] 10-2-63
MIT APPROVAL [illegible] 3 Oct 63
MIT APPROVAL [illegible] 9/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AC INPUT PANEL, ASSEMBLY

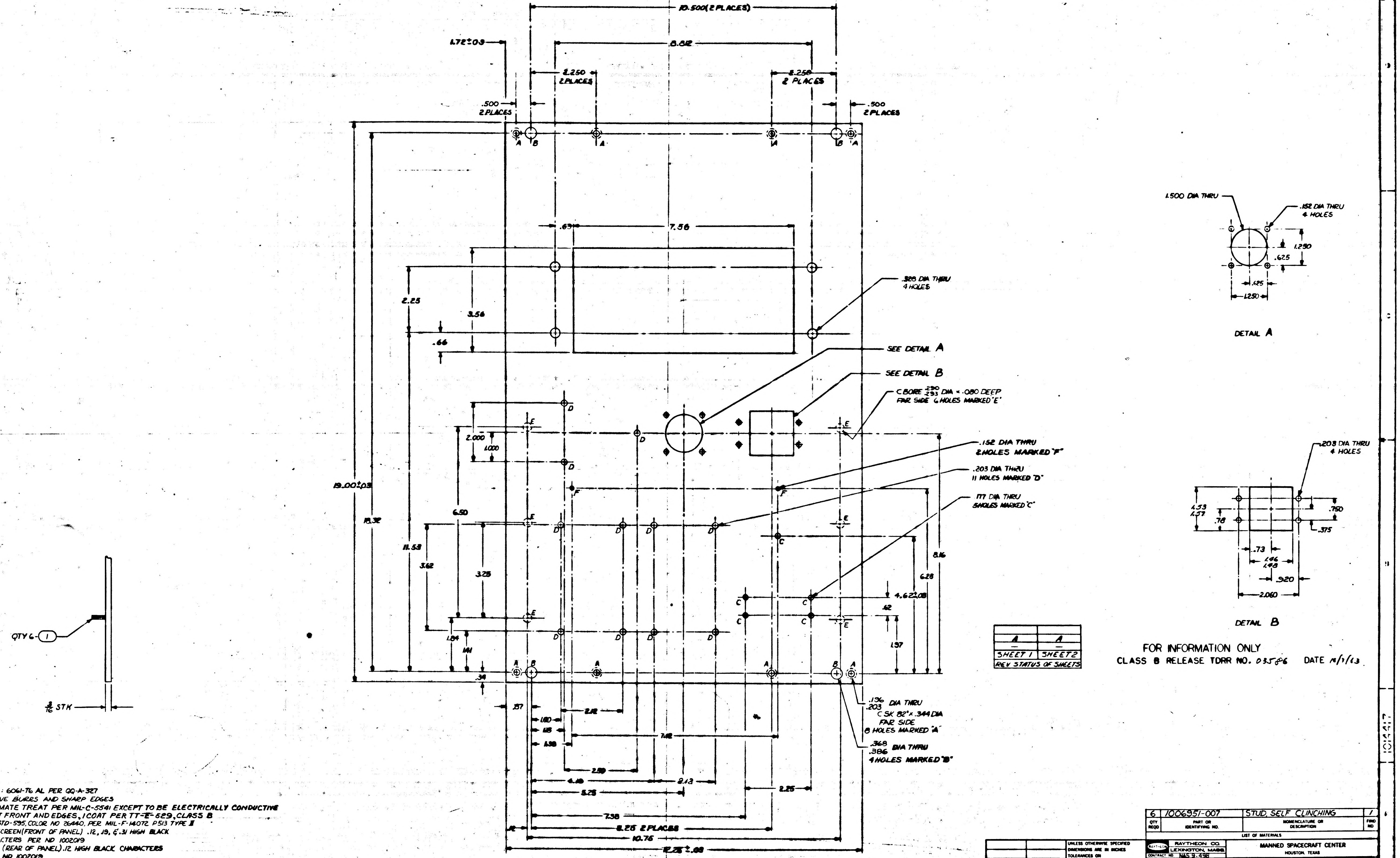
CODE IDENT NO. —
SIZE D
NASA DRAWING NO. 1014416
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014416

1014417

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 03586		
A	CHANGED PER TDRR NO 06902 DR ZWP CHK 8:8 APPD Maniero	9 APR 64	KEB



10.500 (2 PLACES)
8.812
1.72±.03
2.250 2 PLACES
2.250 2 PLACES
.500 2 PLACES
.500 2 PLACES
A
B
.63
7.56
2.25
3.56
.66
.328 DIA THRU 4 HOLES
SEE DETAIL A
SEE DETAIL B
C BORE .290/.293 DIA × .080 DEEP FAR SIDE 6 HOLES MARKED 'E'
.152 DIA THRU 2 HOLES MARKED "F"
.203 DIA THRU 11 HOLES MARKED "D"
.177 DIA THRU 5 HOLES MARKED 'C'
D
E
F
C
2.000
1.000
19.00±.03
18.32
11.53
6.50
3.62
3.25
1.84
1.41
.34
8.16
6.28
4.62±.03
.42
1.57
.136/.203 DIA THRU C SK 82° × .344 DIA FAR SIDE 8 HOLES MARKED 'A'
.368/.386 DIA THRU 4 HOLES MARKED "B"
.57
1.80
1.15
1.38
2.12
7.42
2.50
4.19
2.13
5.25
2.25
7.38
8.25 2 PLACES
.12
10.76
12.25±.03
QTY 6 ①
3/16 STK
1.500 DIA THRU
.152 DIA THRU 4 HOLES
1.250
.625
.125
1.250
DETAIL A
.203 DIA THRU 4 HOLES
4.53/4.57
.78
.750
.375
.73
1.46/1.48
.920
2.060
DETAIL B

A	A
SHEET 1	SHEET 2
REV STATUS OF SHEETS	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 10/1/63

NOTES
1. MATL: 6061-T6 AL PER QQ-A-327
2. REMOVE BURRS AND SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541 EXCEPT TO BE ELECTRICALLY CONDUCTIVE
4. PAINT FRONT AND EDGES, 1 COAT PER TT-E-529, CLASS B FED-STD-595, COLOR NO 26440, PER MIL-F-14072 P513 TYPE II
5. SILK SCREEN (FRONT OF PANEL) .12, .19, & .31 HIGH BLACK CHARACTERS PER ND 1002019
6. MARK (REAR OF PANEL) .12 HIGH BLACK CHARACTERS PER ND 1002019

6	1006951-007	STUD, SELF CLINCHING	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014416	1014465
NEXT ASSY	USED ON
APPLICATION	

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 23 JUL 63
CHECKED 11 SEPT 63
APPROVAL 25 SEPT 63
APPROVAL 9-20-63
APPROVAL
NASA APPROVAL 10-2-63
MIT APPROVAL
MIT APPROVAL 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL, AC INPUT

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014417
SCALE 1/1
WT
SHEET 1 OF 2

1014417

1014417

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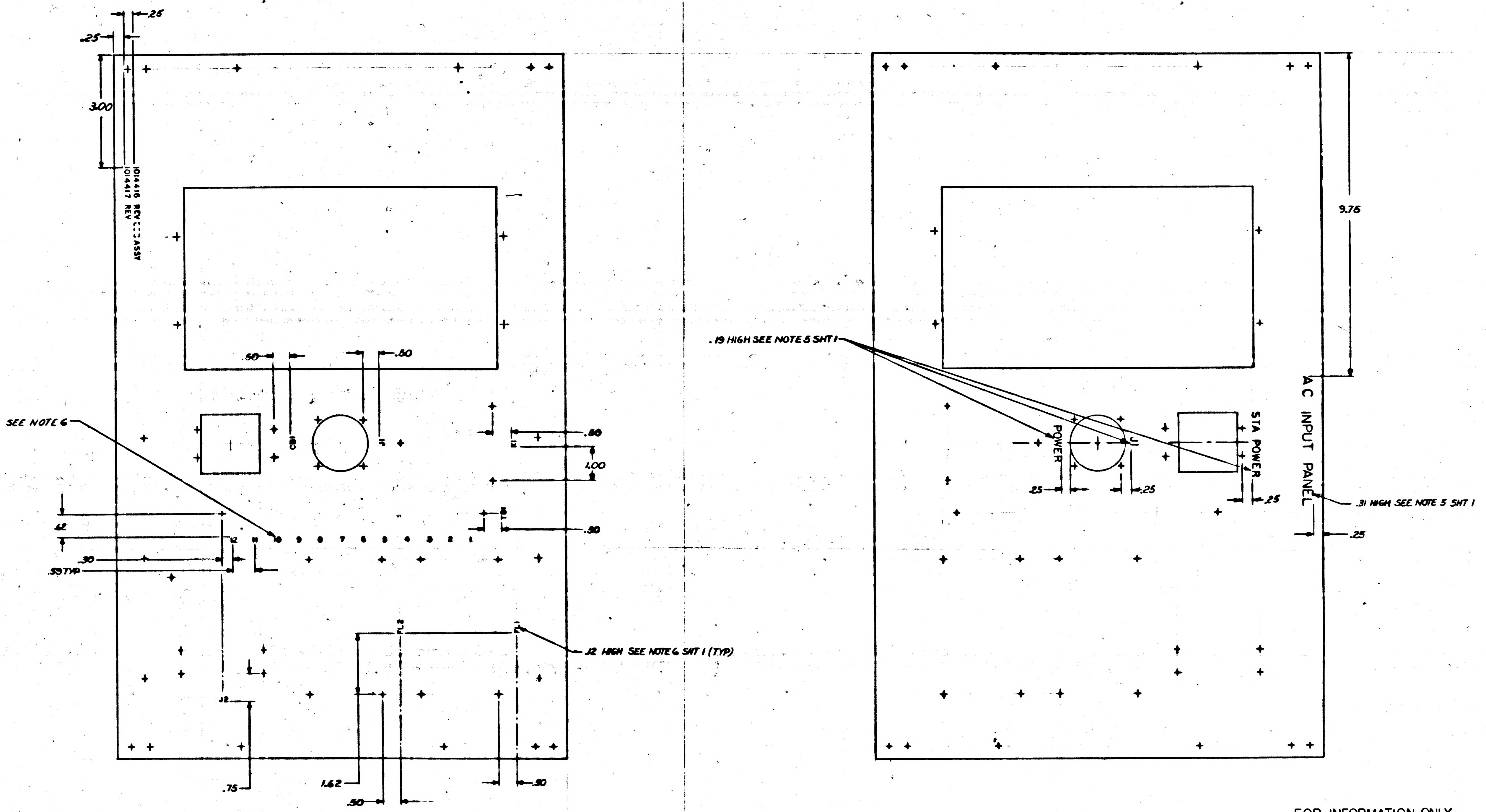
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 03586		
A	CHANGED PER TDRR NO 06902 DR FWP CHK JCG APPD	9 APR 64	KEB


.25
.25
3.00
1014416 REV C ASSY
1014417 REV
.50
.50
SEE NOTE 6
.80
1.00
.42
.30
.39 TYP
.50
.12 HIGH SEE NOTE 6 SHT 1 (TYP)
.75
1.62
.50
.50
.19 HIGH SEE NOTE 5 SHT 1
9.75
A C INPUT PANEL
POWER
J1
STA POWER
.25
.25
.25
.31 HIGH SEE NOTE 5 SHT 1
.25

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 10/3/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

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1014416	1014465

APPLICATION

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MATERIAL SEE NOTES ON SH 1
HEAT TREATMENT
FINAL FINISH SEE NOTES ON SH 1

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN [illegible] DATE 23 JUL 63
CHECKED [illegible] 11 SEPT 63
APPROVAL [illegible] 20 SEPT 63
APPROVAL [illegible] 9-20-63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 3 Oct 63
MIT APPROVAL [illegible] 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL, A C INPUT

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014417
SCALE 1/1
WT
SHEET 2 OF 2

1014417

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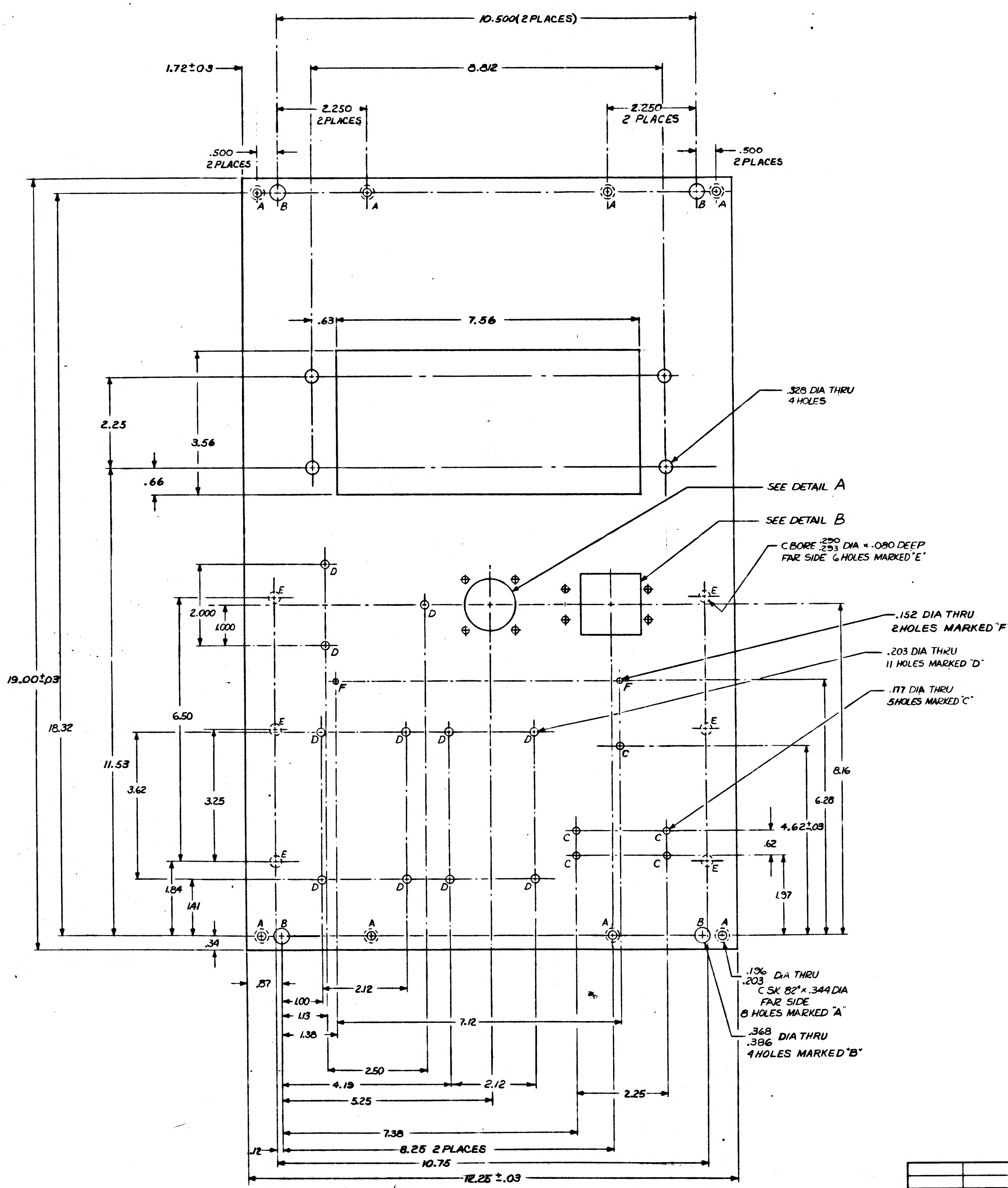
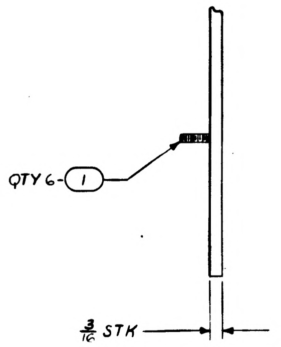
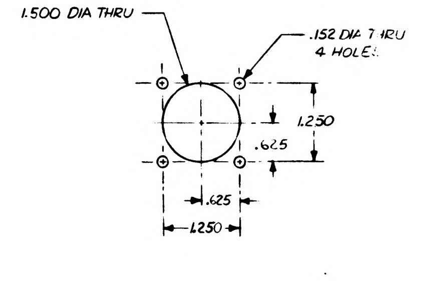
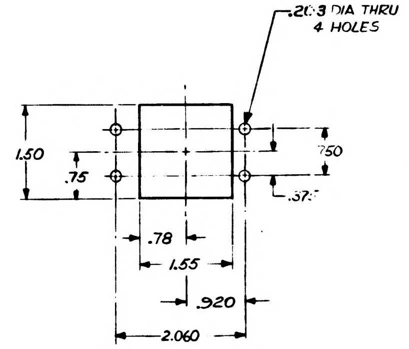
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 0358		


10.500 (2 PLACES)
8.812
1.72±.03
2.250 2 PLACES
2.250 2 PLACES
.500 2 PLACES
.500 2 PLACES
A
B
.63
7.56
2.25
3.56
.66
.328 DIA THRU 4 HOLES
SEE DETAIL A
SEE DETAIL B
C BORE .250/.253 DIA × .080 DEEP FAR SIDE 6 HOLES MARKED "E"
.152 DIA THRU 2 HOLES MARKED "F"
.203 DIA THRU 11 HOLES MARKED "D"
.117 DIA THRU 5 HOLES MARKED "C"
19.00±.03
18.32
11.53
6.50
2.000
1.000
3.62
3.25
1.84
1.41
.34
D
E
F
C
8.16
6.28
4.62±.03
.62
1.97
.196/.203 DIA THRU C SK 82° × .344 DIA FAR SIDE 8 HOLES MARKED "A"
.368/.386 DIA THRU 4 HOLES MARKED "B"
.87
1.00
1.13
1.38
2.12
7.12
2.50
4.19
2.12
5.25
2.25
7.38
.12
8.25 2 PLACES
10.75
12.25±.03


QTY 6 – 1
3/16 STK


1.500 DIA THRU
.152 DIA THRU 4 HOLES
1.250
.625
.625
1.250

DETAIL A


.203 DIA THRU 4 HOLES
1.50
.75
.750
.375
.78
1.55
.920
2.060

DETAIL B

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 10/3/63

NOTES
1. MATL: 6061-T6 AL PER QQ-A-327
2. REMOVE BURRS AND SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541 EXCEPT TO BE ELECTRICALLY CONDUCTIVE
4. PAINT FRONT AND EDGES, 1 COAT PER TT-E-529, CLASS B
FED-STD-595, COLOR NO 26440, PER MIL-F-14072 P513 TYPE II
5. SILK SCREEN (FRONT OF PANEL) .12, .19, & .31 HIGH BLACK
CHARACTERS PER ND 1002019
6. MARK (REAR OF PANEL) .12 HIGH BLACK CHARACTERS
PER ND 1002019

6	1006951-007	STUD, SELF CLINCHING
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
LIST OF MATERIALS		

1014416	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN J. Mc[illegible] DATE 23 JUL 63
CHECKED [illegible] 11 SEPT 63
APPROVAL H. [illegible] 11 SEPT 63
APPROVAL [illegible] 9-26-63
APPROVAL [illegible]
NASA APPROVAL [illegible] 10-2-63
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL, AC INPUT

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014417
SCALE 1/1
WT
SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014417

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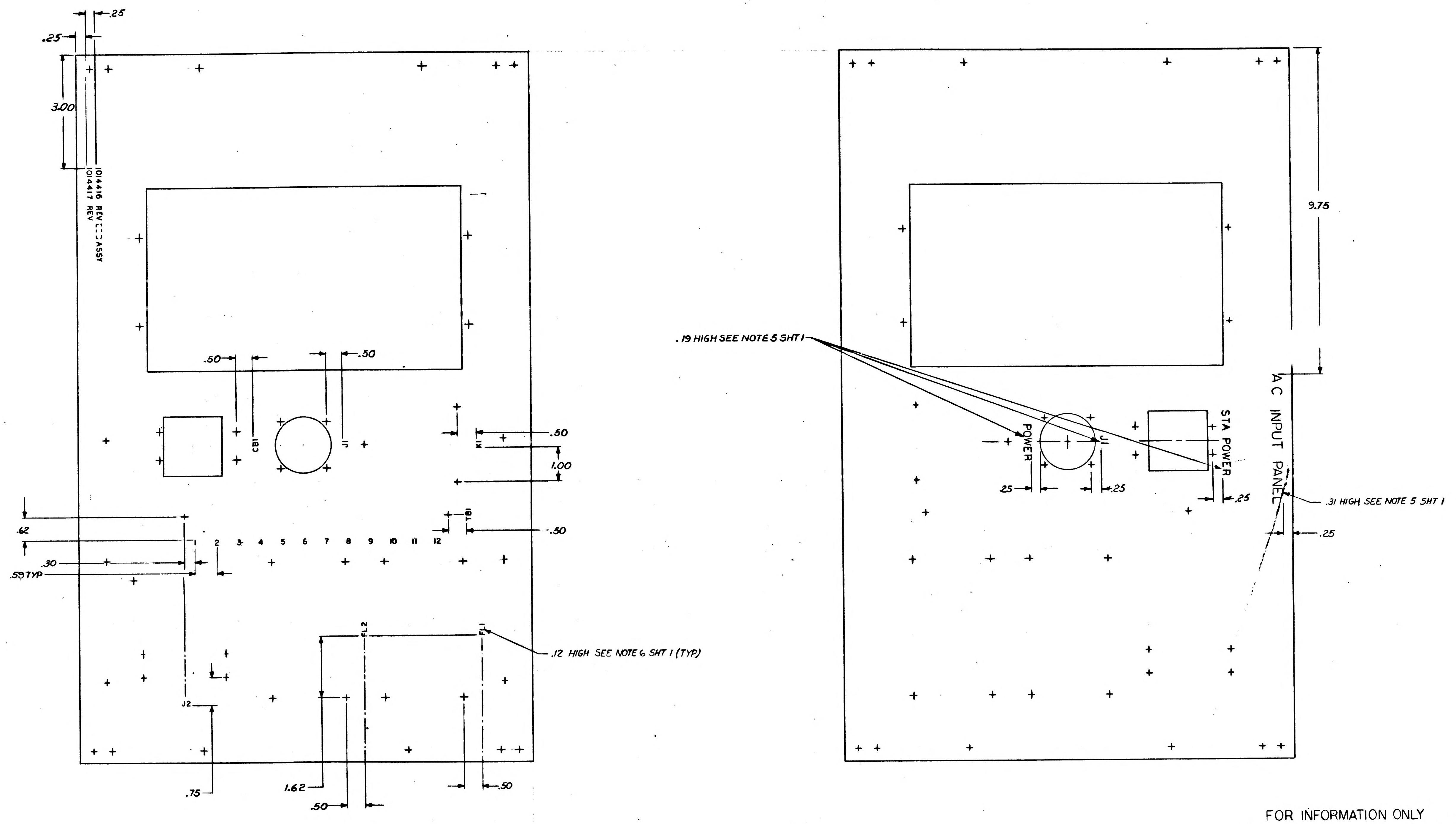
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 0358		


.25
.25
3.00
1014416 REV C ASSY
1014417 REV
.50
.50
CB1
J1
K1
.50
1.00
TB1
.50
.62
.30
.59 TYP
2
3
4
5
6
7
8
9
10
11
12
FL2
FL1
.12 HIGH SEE NOTE 6 SHT 1 (TYP)
J2
.75
1.62
.50
.50
9.75
.19 HIGH SEE NOTE 5 SHT 1
A C INPUT PANEL
POWER
J1
STA POWER
.25
.25
.25
.31 HIGH SEE NOTE 5 SHT 1
.25

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 0358 DATE 11/2/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014416	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.06 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES ON SH 1
HEAT TREATMENT
FINAL FINISH SEE NOTES ON SH 1

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 23 JUL 63
CHECKED 11 SEPT 63
APPROVAL 20 SEPT 63
APPROVAL 9-20-63
APPROVAL
NASA APPROVAL 10-3-63
MIT APPROVAL 3 Oct 63
MIT APPROVAL 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL, A C INPUT

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014417
SCALE 1/1
WT
SHEET 2 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014417

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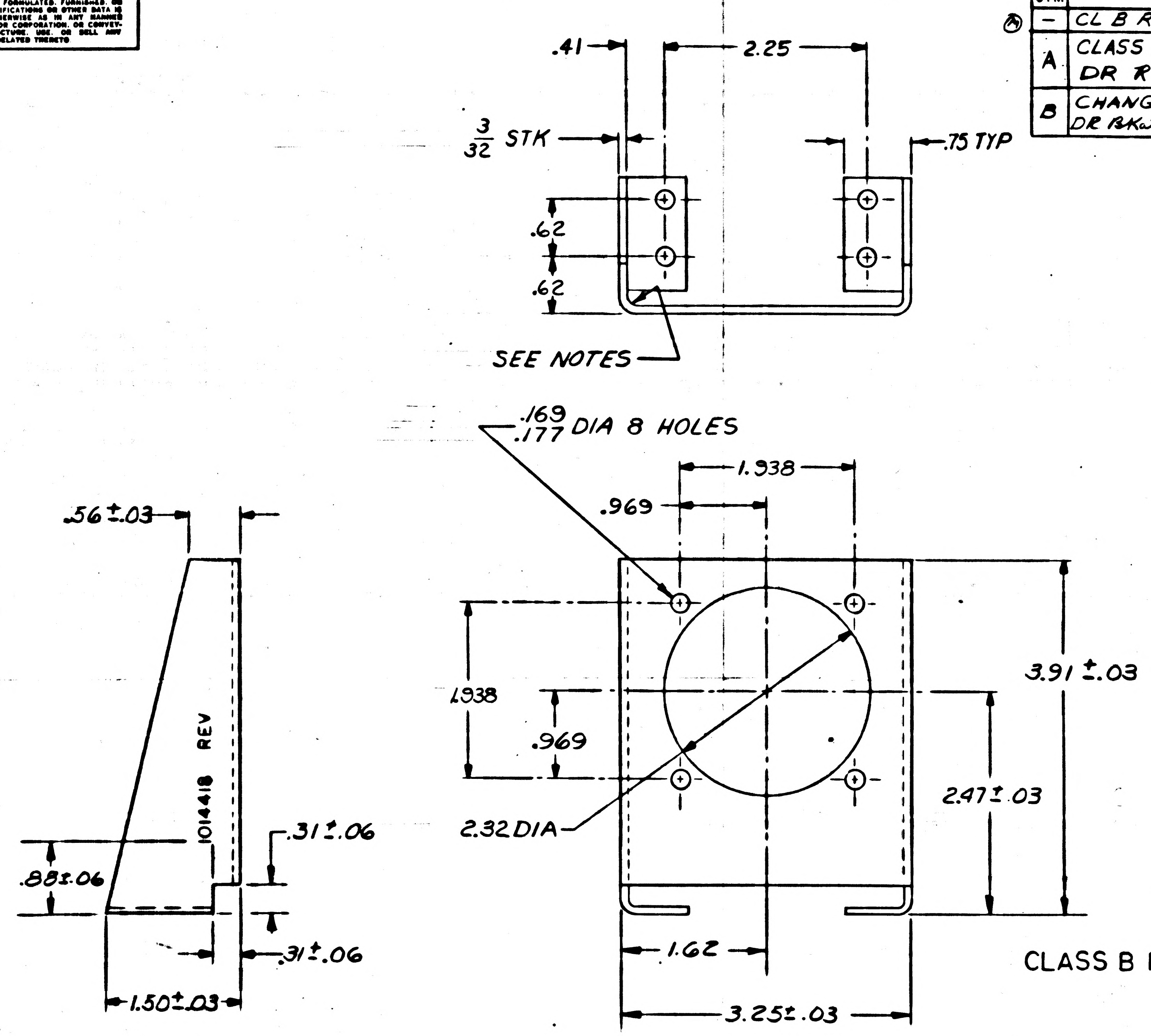
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 03586		
A	CLASS II CHANGE PER RD-R5602 DR R. Rose CHK W. J. Gifford APPD	22 DEC 63	JJS
B	CHANGED PER TDRR 08120 DR B Katsulas CHK A. Caggiano APPD	11 MAY 64	KEB



FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 03586 DATE 11/5/63

NOTES:

1. MATL: 5052-H32 AL PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. BEND RADII .06 +.03 -.01
4. CHROMATE FILM PER MIL-C-5541
5. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014416	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTES

HEAT TREATMENT

FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498

DRAWN F. Mehan DATE 23 JUL 63
CHECKED A. J. Marinaro 11 SEPT 63
APPROVAL
APPROVAL J. Yakich JJS 9-20-63
APPROVAL
NASA APPROVAL 10-2-63
MIT APPROVAL 3 OCT 63
MIT APPROVAL 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET, CONNECTOR

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014418
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014418

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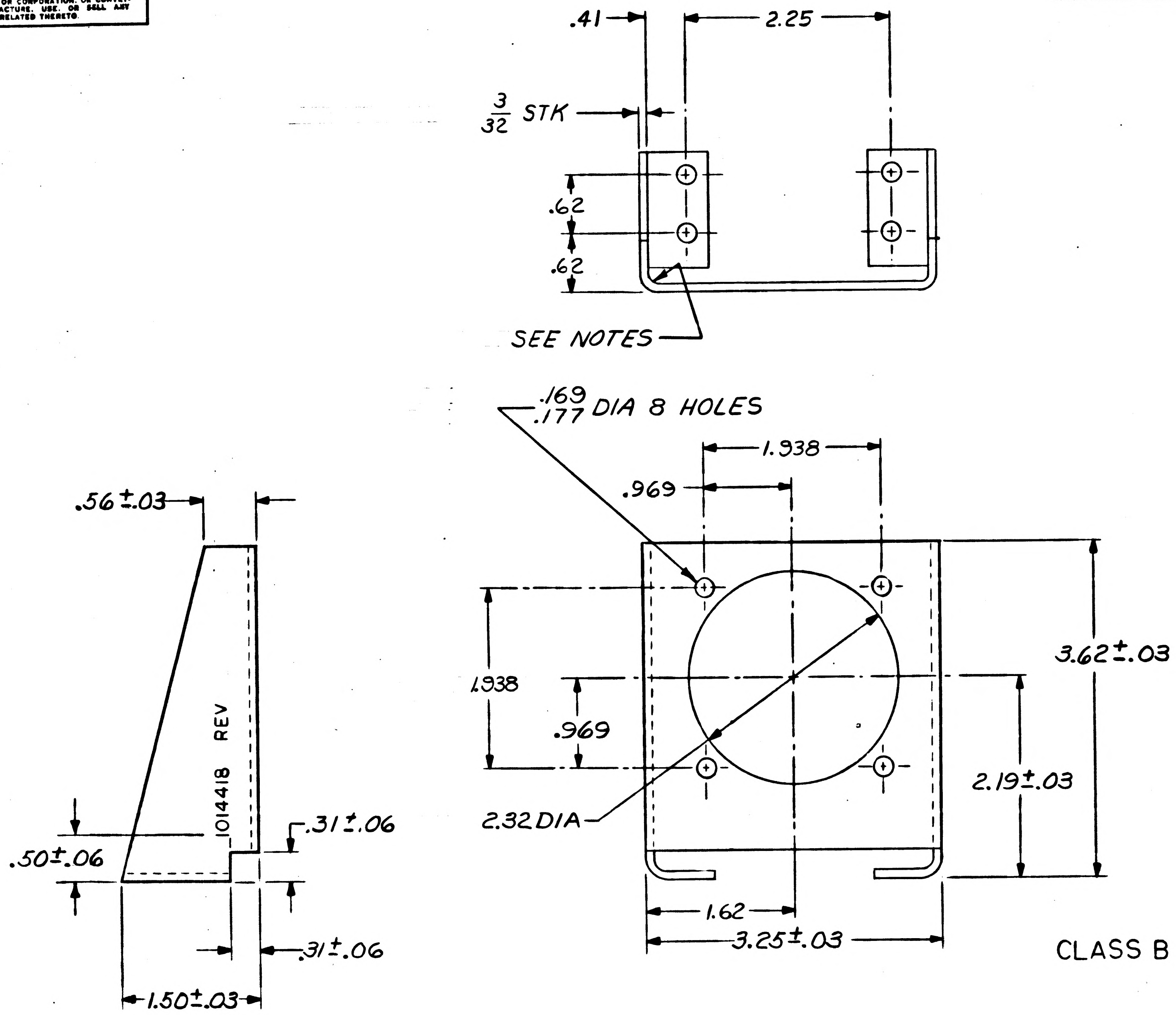
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 03586		



FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 03586 DATE 1/3/63

NOTES:

1. MATL: 5052-H32 AL PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. BEND RADII .06 +.03 -.01
4. CHROMATE FILM PER MIL-C-5541
5. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019

1014416	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN F. Mehan DATE 23 JUL 63
CHECKED A. J. Marinaro 11 SEPT '63
APPROVAL A. Morse 30 SEPT 63
APPROVAL J. Yakich DDS 9-20-63
APPROVAL J. S. Pandolfino 10/1/63
NASA APPROVAL W. J. Rhine 10-2-63
MIT APPROVAL W. Kupfer 3 Oct 63
MIT APPROVAL D. Scolamiero 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET, CONNECTOR

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014418
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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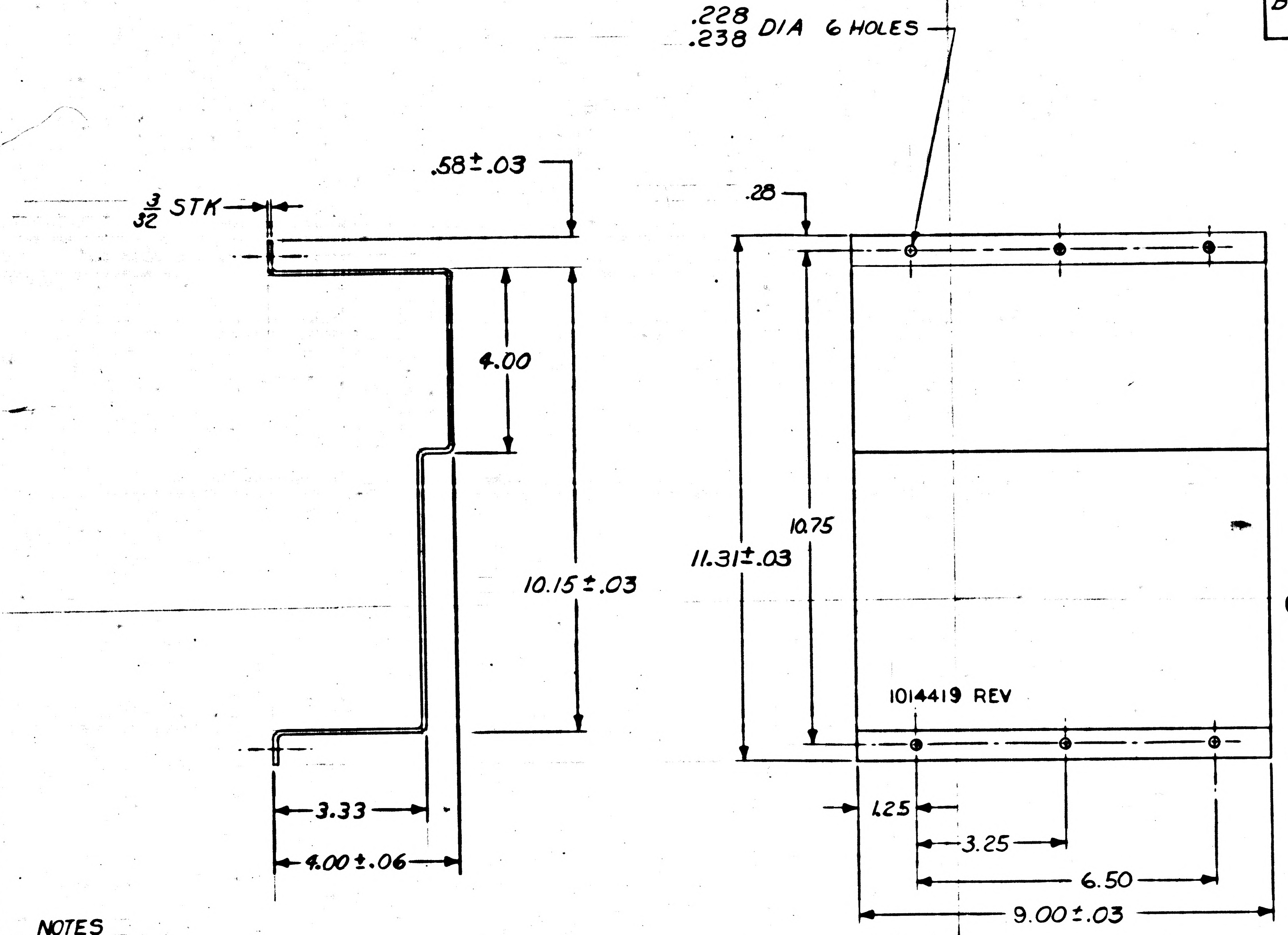
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 03586		
A	CLASS II CHANGE PER RD-R 5515A DR J.P. Leonard CHK J. Ruggeri APPD		JS
B	CHANGED PER TDRR 09763 DR R.E. Hinckley CHK APPD	9 June 64	KCB



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 30 Oct

NOTES
1. MAT'L: 5052-H32 AL PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES
3. BEND RADII .06 + .03 - .01
4. CHROMATE FILM PER MIL-C-5541
5. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019 APPROX AS SHOWN

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

NEXT ASSY	USED ON
1014416	1014465

APPLICATION

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN F Mehan DATE 23 Jul 63
CHECKED A.J. Marinaro 11 SEPT '63
APPROVAL 20 SEPT 63
APPROVAL JJB 9-20-63
APPROVAL 9/20/63
NASA APPROVAL 10-3-63
MIT APPROVAL 3 Oct 63
MIT APPROVAL 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014419
SCALE 1/2
WT
SHEET 1 OF

1014419

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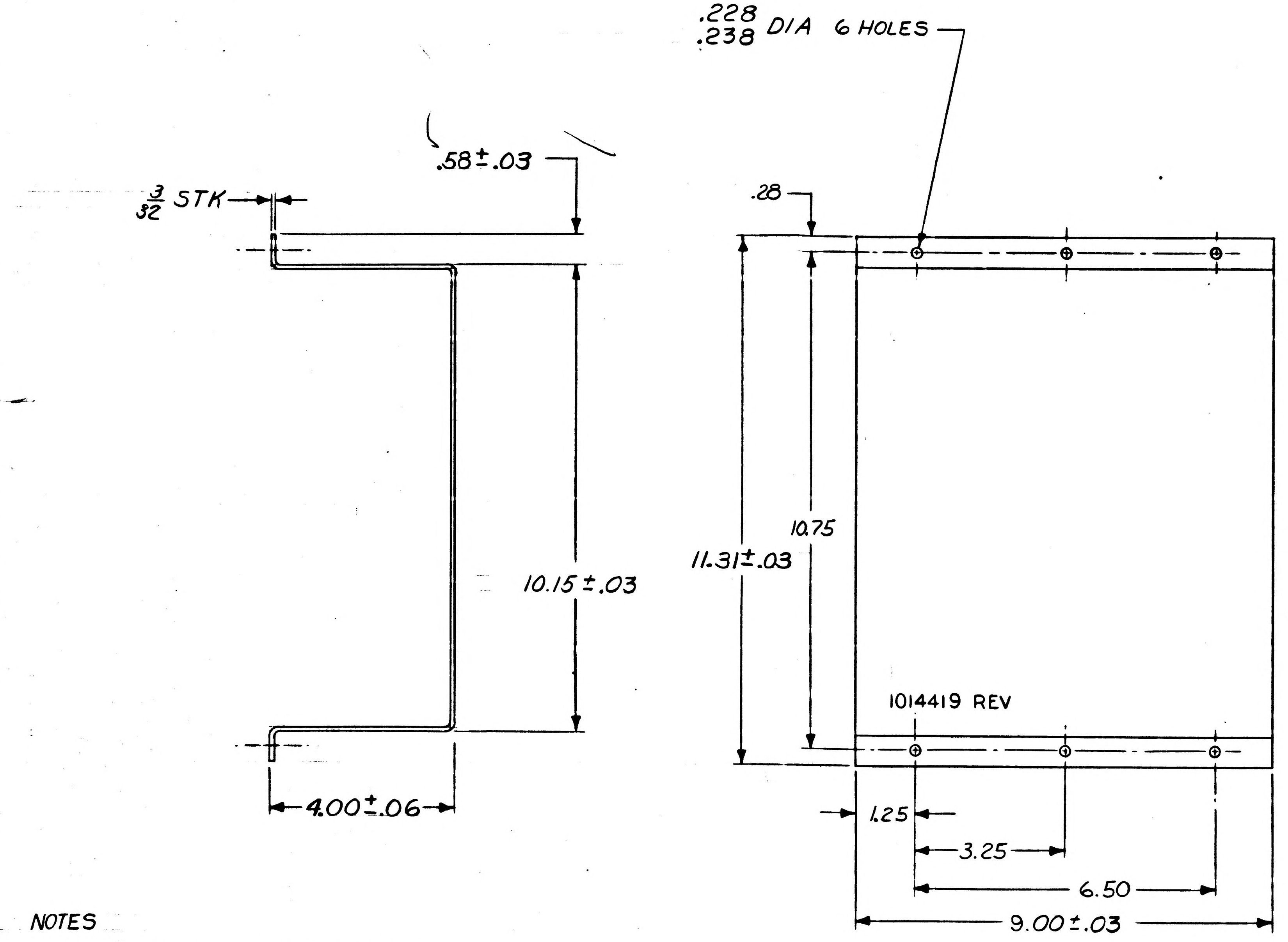
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 03586		



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 30 Oct 63

NOTES
1. MAT'L: 5052-H32 AL PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES
3. BEND RADII .06 + .03 - .01
4. CHROMATE FILM PER MIL-C-5541
5. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019 APPROX AS SHOWN.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014416	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN F. Mehan DATE 23 Jul 63
CHECKED A. J. Marinaro 11 Sept '63
APPROVAL W. Morse Jr. 20 Sept 63
APPROVAL J. Yakaird 9-20-63
APPROVAL J. A. Pendleton 9/20/63
NASA APPROVAL 10-3-63
MIT APPROVAL W. Kupfer 3 Oct 63
MIT APPROVAL 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COVER

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014419
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014419

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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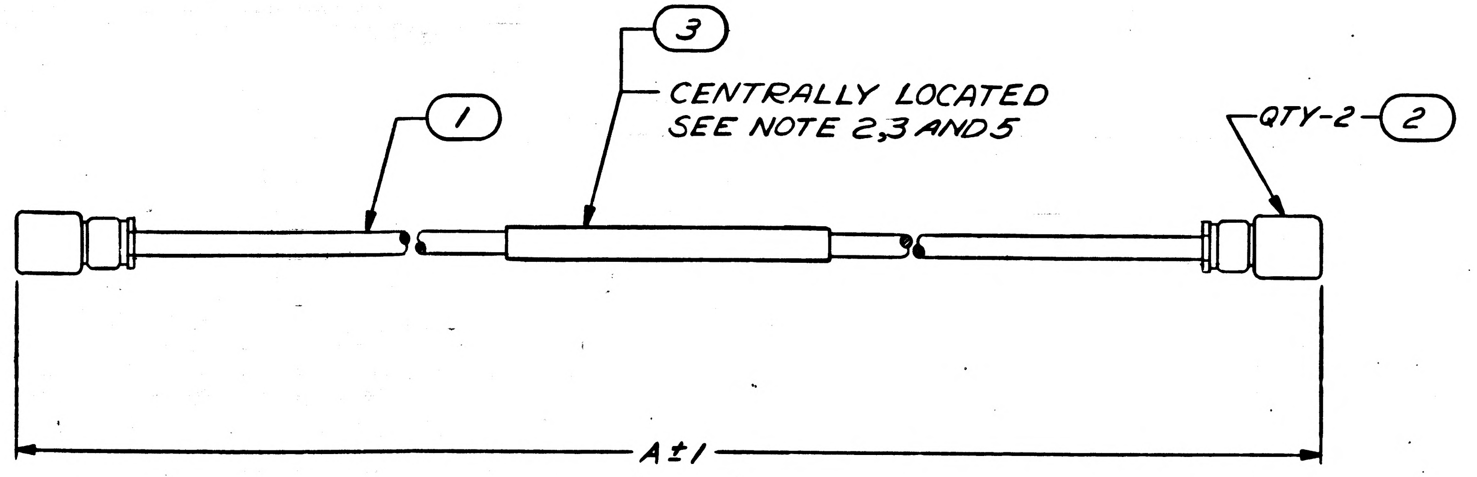
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R 5465 DR W. Kelley CHK T. Duval APPD	10-19-63	
B	CHANGED PER TDRR 05807 DR K. Mattz CHK R Herscher APPD	4 FEB 64	



DASH NO.	REV STATUS OF ASSY	W NUMBER REFENCE	A DIM
1014421-1	A	W33	24
-2	A	W34	
-3	A	W35	
-4	A	W36	
-5	A	W37	
-6	A	W38	
-7	A	W39	
-8	A	W40	24
-9	A	W41	13
-10	A	W42	
-11	A	W43	
-12	A	W44	
-13	A	W45	
-14	A	W46	
1014421-15	A	W47	13

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02910 DATE 9-5-63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
15	1014472-19	BAND MARKER, CABLE	3
30	MS35168-88E	CONNECTOR	2
AR	RG58/U	CABLE, COAXIAL MIL-C-17	1

LIST OF MATERIALS

NOTES
1. FOR SYMBOL, FABRICATION & REQUIRED TEST SEE ND1002032
2. MARK .08 HIGH BLK PER ND1002019
3. BOND FIND NO. 3 USING TETRAHYDROFURAN WITH 10% POLYVINYLCHLORIDE
4. SOLDER PER MIL-S-6872
5. SERIALIZE PER ND1002023

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 19 JUL 63
CHECKED 8 Aug 63
APPROVAL C Sperling
APPROVAL 8/23/63
APPROVAL J. Pemberton
NASA APPROVAL 9/5/63
MIT APPROVAL 9/5/63
MIT APPROVAL 9/5/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014421
SCALE NONE
WT
SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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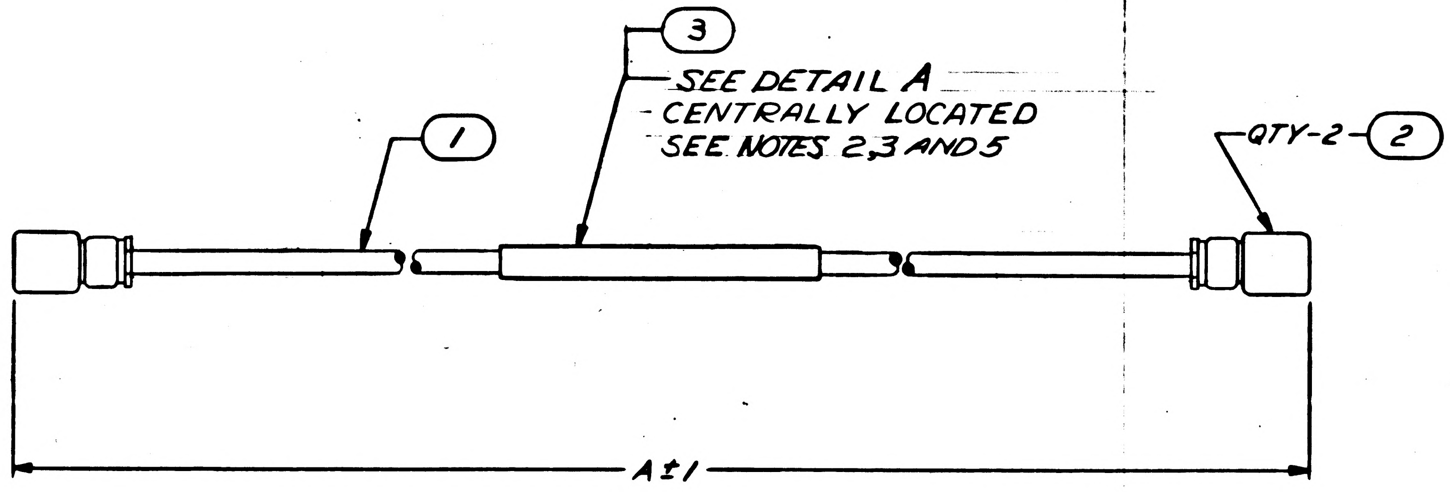
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R 5465 DR W. Kelley CHK T. Duval APPD	10-19-63	
B	CHANGED PER TDRR 05807 DR K. Mutty CHK R. Hascher APPD	4 FEB 64	WN
C	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17501 DR P. Mooney CHK APPD	16 APR 65	4-26



DASH NO.	REV STATUS OF ASSY	W NUMBER REFERENCE	A DIM
1014421-1	A	W33	24
-2	A	W34	
-3	A	W35	
-4	A	W36	
-5	A	W37	
-6	A	W38	
-7	A	W39	
-8	A	W40	24
-9	A	W41	13
-10	A	W42	
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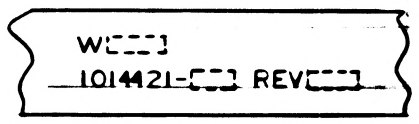
-14	A	W46	
1014421-15	A	W47	13



DETAIL A

NOTES

1. FOR FABRICATION SEE ND1002032
2. MARK .08 HIGH GOTHIC CHARACTERS PER ND1002019 USING BLACK INK 1006256-001
3. BOND FIND NO. 3 USING FIND 4 APPROX AS SHOWN
4. SOLDER PER ND1002071
5. SERIALIZE PER ND1002023

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	1006253	ADHESIVE	4
15	1014472-19A	BAND MARKER, CABLE	3
30	MS35168-88E	CONNECTOR	2
AR	RG58/U	CABLE, COAXIAL MIL-C-17	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 19 Jul 63
CHECKED 8 Aug 63
APPROVAL C
APPROVAL 8/23/63
APPROVAL
NASA APPROVAL
MIT APPROVAL 9/5/63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014421
SCALE NONE
WT
SHEET 1 OF 1

1014421

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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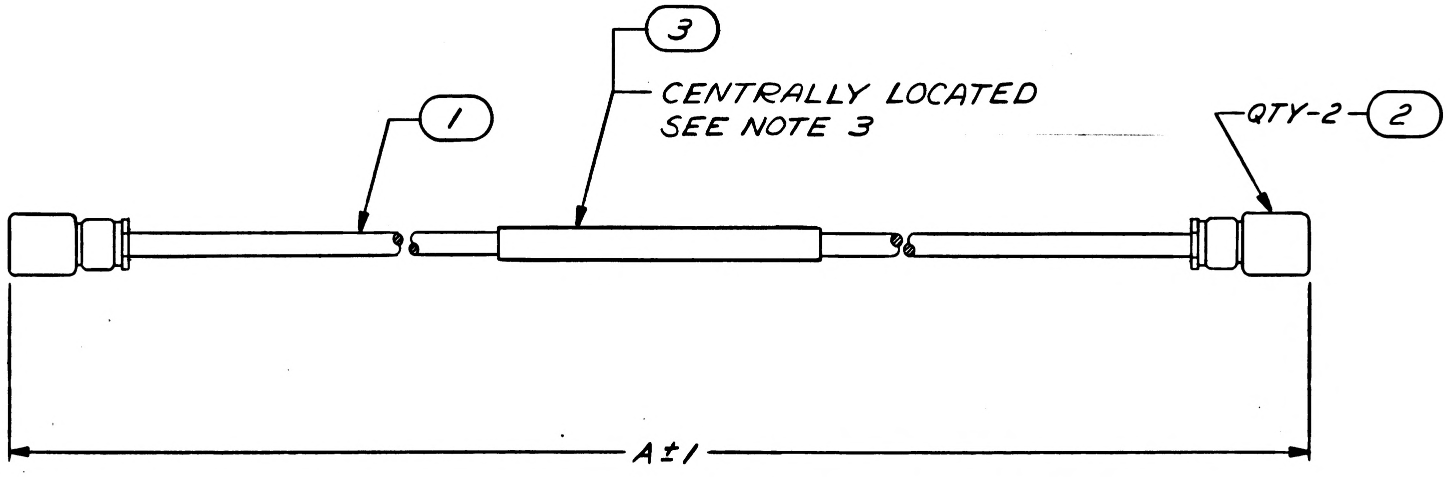
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		



PART NO.	REV STATUS OF ASSY	W NUMBER REFENCE	A DIM
1014421-1	—	W33	24
-2	—	W34	
-3	—	W35	
-4	—	W36	
-5	—	W37	
-6	—	W38	
-7	—	W39	
-8	—	W40	24
-9	—	W41	13
-10	—	W42	
-11	—	W43	
-12	—	W44	
-13	—	W45	
-14	—	W46	
1014421 -15	—	W47	13

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 02910 DATE 9-5-63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
15	1014472-1	BAND MARKER, CABLE	3
30	MS35168	CONNECTOR	2
AR	RG58/U	CABLE, COAXIAL MIL-C-17	1

LIST OF MATERIALS

NOTES
1. FOR SYMBOL, FABRICATION & REQUIRED TEST SEE ND1002032
2. MARK .12 HIGH BLK PER ND1002019

MASTER

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Winfield DATE 19 JUL 63
CHECKED 8 Aug 63
APPROVAL C Sperling
APPROVAL 8/23/63
APPROVAL J. Poindexter
NASA APPROVAL 9/5/63
MIT APPROVAL 9/5/63
MIT APPROVAL D M Scolamiero 9/3/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014421
SCALE NONE
WT
SHEET 1 OF 1

1014421

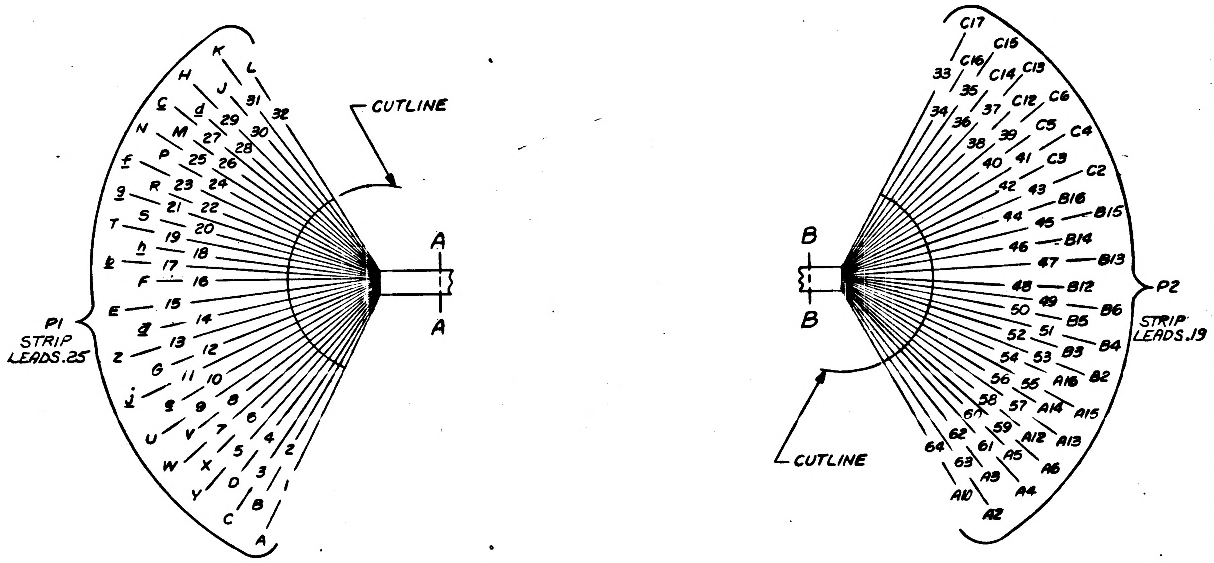
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

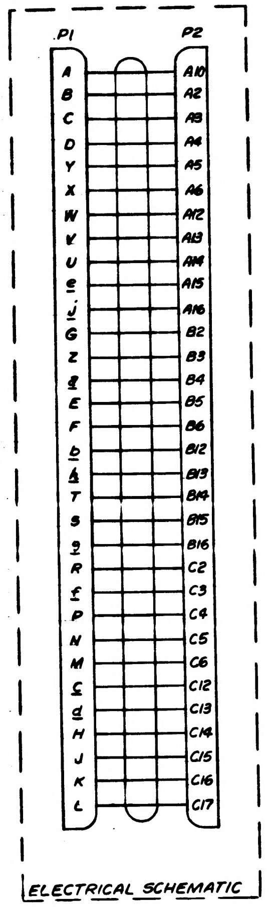
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CHANGED PER TDRR 05243 DR CHK T. APPD		

ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	BLACK	22	12	64	
	2	WHITE	22	14	63	
	3				62	
	4				61	
	5				60	
	6				59	
	7				58	
	8				57	
	9				56	
	10				55	
	11				54	
	12				53	
	13				52	
	14				51	
	15				50	
	16				49	
	17				48	
	18				47	
	19				46	
	20				45	
	21				44	
	22				43	
	23				42	
	24				41	
	25				40	
	26				39	
	27				38	
	28				37	
	29				36	
	30				35	
	31				34	
	32	WHITE	22	14	33	



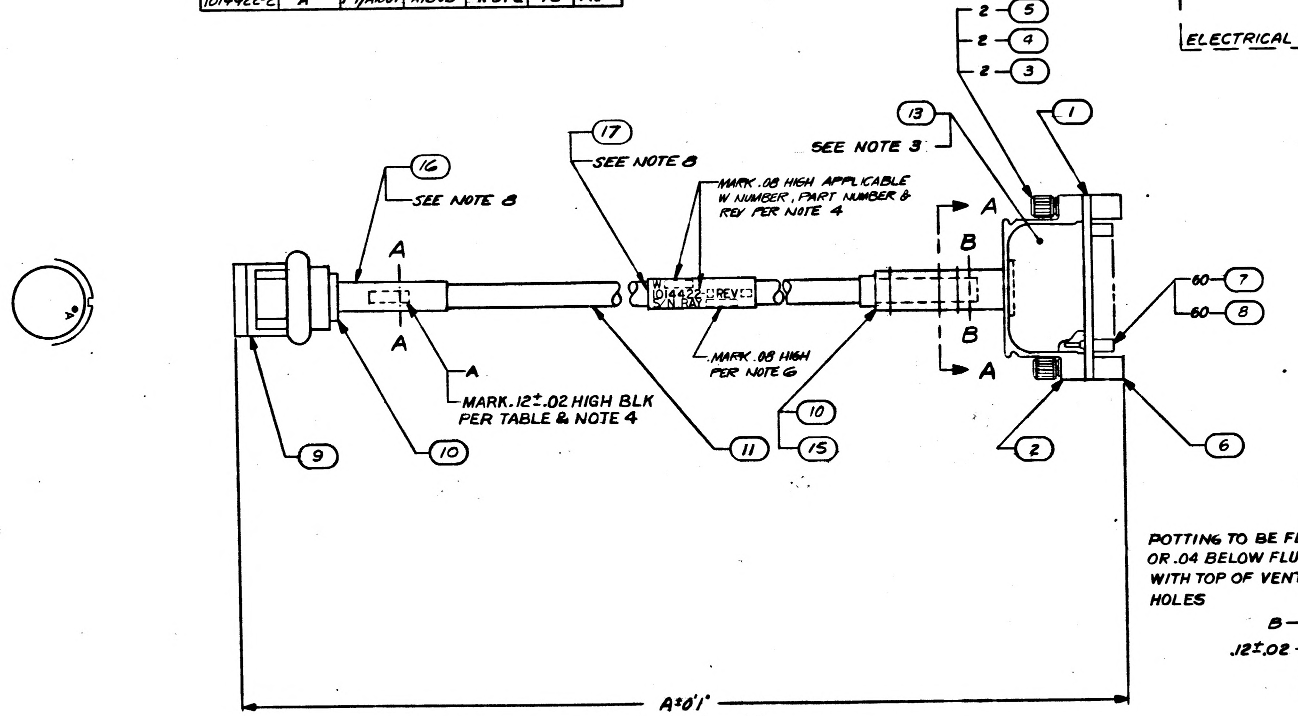
CUTLINE
P1
STRIP LEADS .25
A
A
B
B
P2
STRIP LEADS .19
CUTLINE



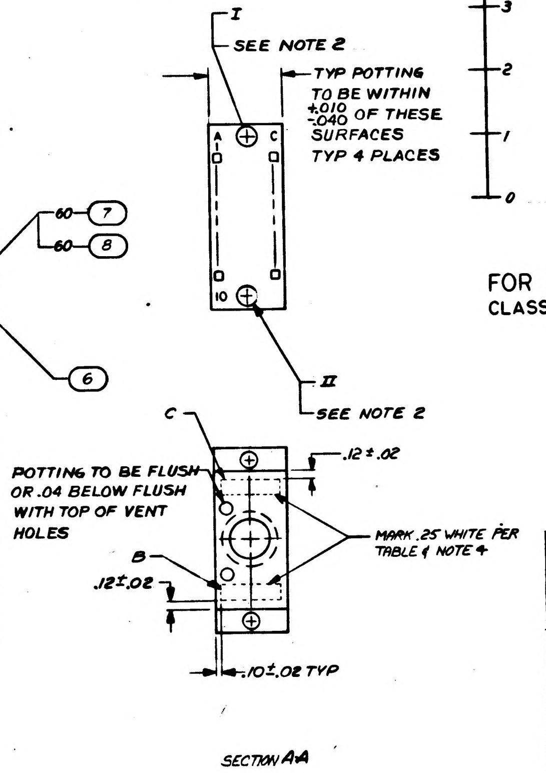
P1
P2
A B C D Y X W V U e j G Z g E F b h T S a R f P N M c d H J K L
A10 A2 A3 A4 A5 A6 A12 A13 A14 A15 A16 B2 B3 B4 B5 B6 B12 B13 B14 B15 B16 C2 C3 C4 C5 C6 C12 C13 C14 C15 C16 C17

ELECTRICAL SCHEMATIC

PART NO	REV STATUS	MARKING LEGEND			A DIM	KEY CODE IDENT
		A	B	C		
1014422-1	A	P1/A1J1	A1BJ6	W1P2	72	AG
1014422-2	A	P1/A10J1	A18J8	W9P2	48	AJ



2 ⑤
2 ④
2 ③
⑬
①
SEE NOTE 3
⑰
SEE NOTE 8
MARK .08 HIGH APPLICABLE W NUMBER, PART NUMBER & REV PER NOTE 4
⑯
SEE NOTE 8
A
A
B
B
A
A
60 ⑦
60 ⑧
MARK .08 HIGH PER NOTE 6
A
MARK .12±.02 HIGH BLK PER TABLE & NOTE 4
⑨
⑩
⑪
⑩
⑮
②
⑥
A±0'1"



I
SEE NOTE 2
TYP POTTING TO BE WITHIN +.010 -.040 OF THESE SURFACES TYP 4 PLACES
A
C
10
II
SEE NOTE 2
C
.12±.02
POTTING TO BE FLUSH OR .04 BELOW FLUSH WITH TOP OF VENT HOLES
B
.12±.02
MARK .25 WHITE PER TABLE & NOTE 4
.10±.02 TYP
SECTION A-A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02143 DATE 9/12/63

NOTES
1. FOR SYMBOLS, FABRICATION AND TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 13 PER ND 1002009 METHOD E
4. MARK PER ND 1002019
5. MIL-I-631 TYPE F, FOAM Ua GRADE a CLASS I CATEGORY I FOR FIND NO. 11 AWG 3/8 IN.
6. MARK SER NO. PER ND 1002023
7. NUMBERS PRECEDING BALLOON DENOTES QUANTITY
8. BOND FIND NO.S 16 & 17 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE

QTY REQD -2	QTY REQD -1	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1	1014472-1	BAND MARKER, CABLE	17
1	1	1014472-1A	BAND MARKER, CABLE	16
1	1	MS39056-5	BUSHING, CABLE ADAPTER	15
AR	AP	MIL-W-16878/4, TYPE E22, WHT	WIRE, ELECTRICAL	14
AR	AP	1006683	COMPOUND, SILICONE RUBBER	13
AR	AR	MIL-W-16878/4, TYPE E22, BLK	WIRE, ELECTRICAL	12
AR	AR	SEE NOTE 5	SLEEVING	11
2	2	MS39056-4	BUSHING, CABLE ADAPTER	10
1	1	MS3126F-18-32S	CONNECTOR, RECEPTACLE	9
60	60	1010380	INSULATOR BUSHING, FEMALE	8
60	60	1010379-1	CONTACT, ELECTRICAL FEMALE	7
2	2	1014032	RECEPTACLE, INDEXING	6
2	2	1006997	WASHER, PLAIN FLAT	5
2	2	MS35337-79	WASHER, LOCK	4
2	2	1006998-1	SCREW, CAPTIVE	3
1	1	1014000-4	FRAME, MODULE	2
1	1	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 7-26-63
CHECKED 8-8-63
APPROVAL C. Sparling
APPROVAL 9/12/63
APPROVAL
NASA APPROVAL
MIT APPROVAL 9/12/63
MIT APPROVAL D. M. 9/12/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
TAPE PUNCH AND READER
CTS

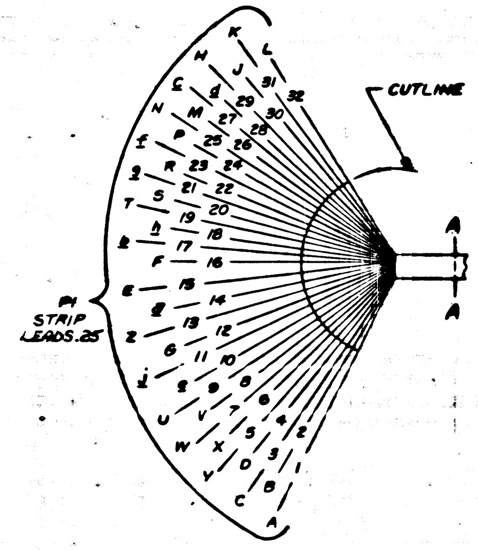
CODE IDENT NO. — | SIZE J | NASA DRAWING NO 1014422
SCALE 1/1 | WT | SHEET 1 OF 1

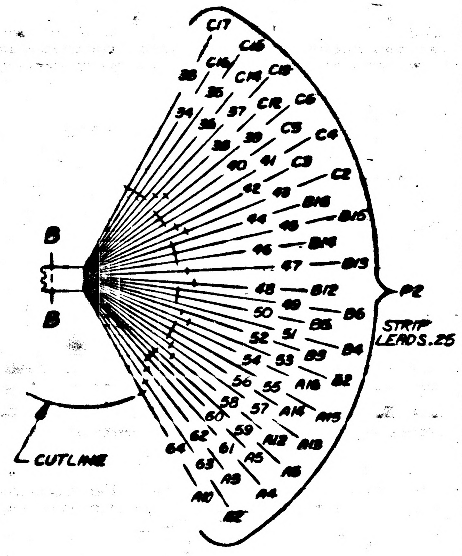
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

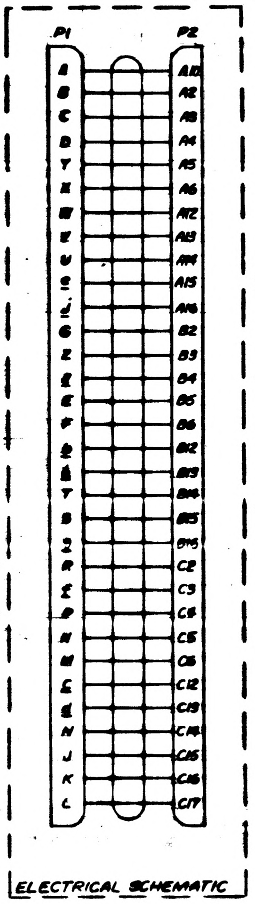
INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 02143	9/12/63	
A	CHANGED PER TDRR 05243 DR CHK T. APPD		
B	CL II CHANGE PER RD R5755A DR J. Manning CHK APPD		JJS
C	CHANGED PER TDRR 09764 DR CHK APPD	10 Jan 64	MCS

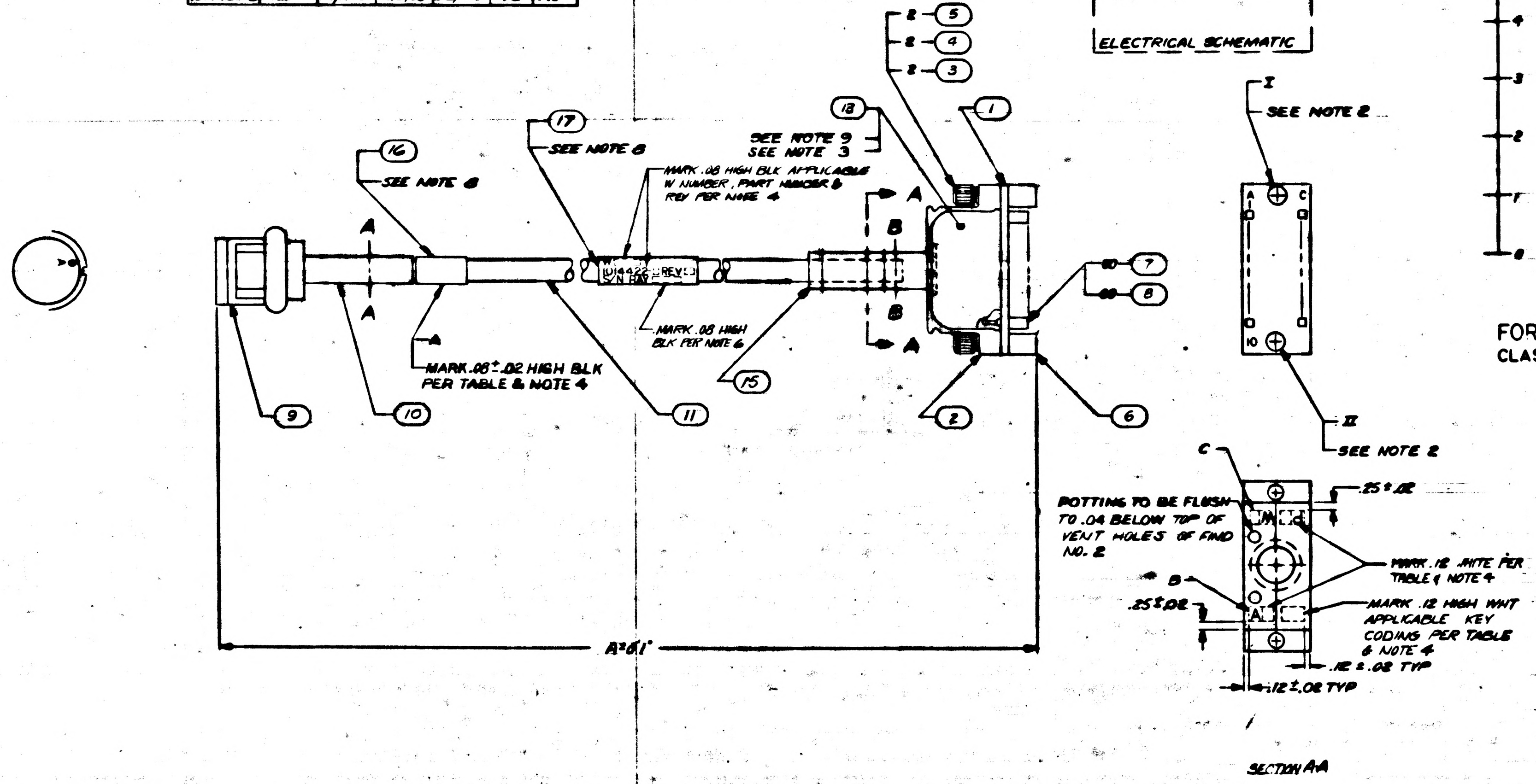
ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	BLACK	22	12	64	
	2	WHITE	22	14	63	
	3				62	
	4				61	
	5				60	
	6				59	
	7				58	
	8				57	
	9				56	
	10				55	
	11				54	
	12				53	
	13				52	
	14				51	
	15				50	
	16				49	
	17				48	
	18				47	
	19				46	
	20				45	
	21				44	
	22				43	
	23				42	
	24				41	
	25				40	
	26				39	
	27				38	
	28				37	
	29				36	
	30				35	
	31				34	
	32	WHITE	22	14	33	


CUTLINE
A
A
P1
STRIP
LEADS.25


B
B
CUTLINE
P2
STRIP
LEADS.25


P1
P2
ELECTRICAL SCHEMATIC

PART NO	REV STATUS	MARKING LEGEND			A DIM	KEY CODE IDENT
		A	B	C		
1014422-1	A	P1/A1J1	A18/J6	P2/W1	72	AG
1014422-2	A	P1/A1J1	A18/J8	P2/W9	48	AJ


17
SEE NOTE 8
16
SEE NOTE 8
MARK .08 HIGH BLK APPLICABLE W NUMBER, PART NUMBER & REV PER NOTE 4
1014422-REV
S/N
18
SEE NOTE 9
SEE NOTE 3
2 5
2 4
2 3
1
A
B
B
A
60 7
60 8
MARK .08 HIGH BLK PER NOTE 6
MARK .08±.02 HIGH BLK PER TABLE & NOTE 4
9
10
11
15
2
6
A=61"
I
SEE NOTE 2
II
SEE NOTE 2
C
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO. 2
B
.25±.02
.25±.02
MARK .12 WHITE PER TABLE & NOTE 4
MARK .12 HIGH WHT APPLICABLE KEY CODING PER TABLE & NOTE 4
.12±.02 TYP
.12±.02 TYP
SECTION AA

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02143 DATE 9/12/63

NOTES
1. FOR SYMBOLS, FABRICATION AND TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 13 PER ND 1002009 METHOD E
4. MARK PER ND 1002019
5. MIL-I-631 TYPE F, FORM U2 GRADE A CLASS I CATEGORY I FOR FIND NO. 11 AWG 3/8 IN.
6. MARK SER NO. PER ND 1002023
7. NUMBERS PRECEDING BALLOON DENOTES QUANTITY
8. BOND FIND NO.S 16 & 17 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
9 POTTING TO BE $^{+.005}_{-.015}$ FROM SURFACES OF FIND NO. 2

QTY REQD -2	QTY REQD -1	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1	1014472-2	BAND MARKER, CABLE	17
1	1	1014472-2A	BAND MARKER, CABLE	16
1	1	MS39056-5	BUSHING, CABLE ADAPTER	15
AR	AR	MIL-W-16878/4, TYPE E22, WHT	WIRE, ELECTRICAL	14
AR	AR	1006683	COMPOUND, SILICONE RUBBER	13
AR	AR	MIL-W-16878/4, TYPE E22, BLK	WIRE, ELECTRICAL	12
AR	AR	SEE NOTE 5	SLEEVING	11
1	1	MS39056-4	BUSHING, CABLE ADAPTER	10
1	1	MS3126F-18-32S	CONNECTOR, RECEPTACLE	9
60	60	1010380	INSULATOR BUSHING, FEMALE	8
60	60	1010379-1	CONTACT, ELECTRICAL FEMALE	7
2	2	1014032	RECEPTACLE, INDEXING	6
2	2	1006997	WASHER, PLAIN FLAT	5
2	2	MS35337-79	WASHER, LOCK	4
2	2	1006998-1	SCREW, CAPTIVE	3
1	1	1014000-4	FRAME, MODULE	2
1	1	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 7-26-63
CHECKED 8-8-63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL A.M.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
TAPE PUNCH AND READER
CTS

CODE IDENT NO. — SIZE J NASA DRAWING NO. 1014422
SCALE 1/1 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 02143	9/12/63	
A	CHANGED PER TDRR 05243 DR J. Manning CHK T. Daniel APPD	1/7/64	
B	CL II CHANGE PER RD R5755A DR J. Manning CHK APPD		
C	CHANGED PER TDRR 09764 DR CHK APPD	10 Jun 64	KCS
D	CHANGED PER TDRR 12319 DR CHK APPD	16 Sep 64	KCS

ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	BLACK	22	12	64	
	2	WHITE	22	14	63	
	3				62	
	4				61	
	5				60	
	6				59	
	7				58	
	8				57	
	9				56	
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	11				54	
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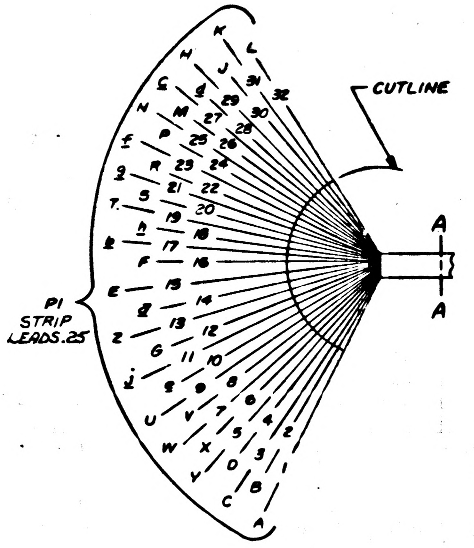
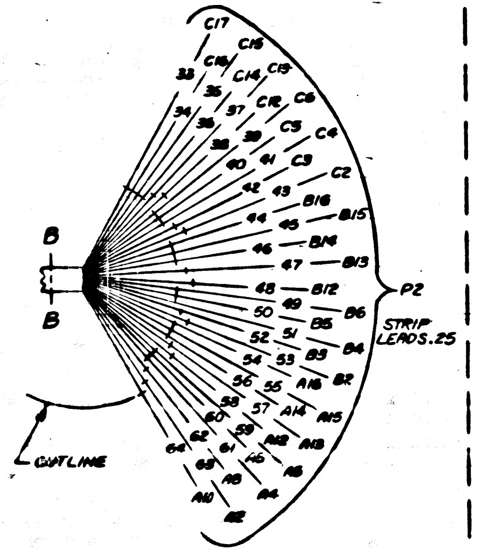
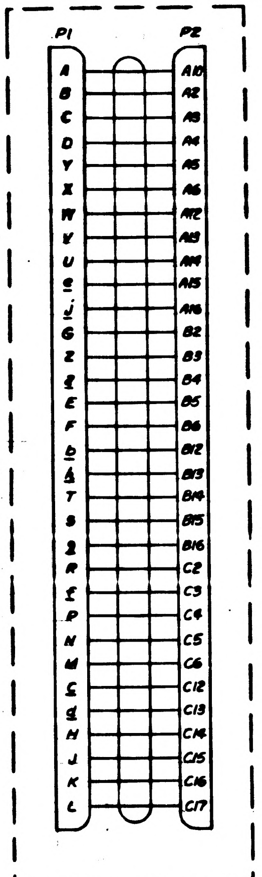
	16				49	
	17				48	
	18				47	
	19				46	
	20				45	
	21				44	
	22				43	
	23				42	
	24				41	
	25				40	
	26				39	
	27				38	
	28				37	
	29				36	
	30				35	
	31				34	
	32	WHITE	22	14	33	

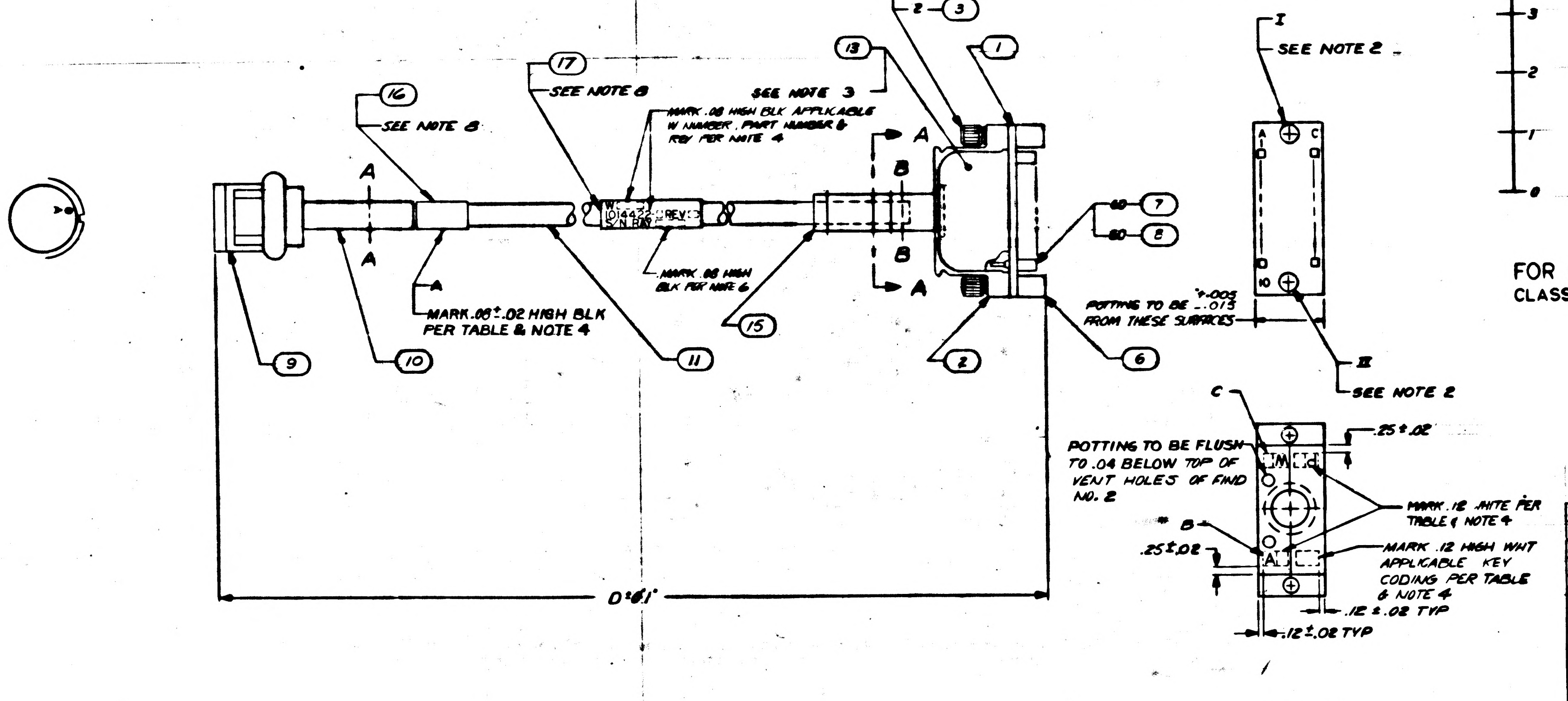

CUTLINE
A
A
P1
STRIP
LEADS .25


B
B
P2
STRIP
LEADS .25
CUTLINE



ELECTRICAL SCHEMATIC

PART NO	REV STATUS	MARKING LEGEND			D DIM	KEY CODE IDENT
		A	B	C		
1014422-1	B	P1/A1J1	A18/J6	P2/W1	72	AG
1014422-2	B	P1/A10J1	A18/J8	P2/W9	48	AJ


2 — 5
2 — 4
2 — 3
13
1
17
SEE NOTE 8
16
SEE NOTE 8
SEE NOTE 3
MARK .08 HIGH BLK APPLICABLE W NUMBER, PART NUMBER & REV PER NOTE 4
A
A
B
B
60 — 7
60 — 8
MARK .08 HIGH BLK PER NOTE 6
MARK .08±.02 HIGH BLK PER TABLE & NOTE 4
POTTING TO BE +.005 -.015 FROM THESE SURFACES
9
10
11
15
2
6
D±1
I
SEE NOTE 2
II
SEE NOTE 2
C
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO. 2
.25±.02
B
.25±.02
MARK .12 WHITE PER TABLE & NOTE 4
MARK .12 HIGH WHT APPLICABLE KEY CODING PER TABLE & NOTE 4
.12±.02 TYP
.12±.02 TYP

SECTION A-A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02143 DATE 9/12/63

NOTES
1. FOR SYMBOLS, FABRICATION AND TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 13 PER ND 1002009 METHOD E
4. MARK PER ND 1002019
5. MIL-I-631 TYPE F, FORM Ua GRADE A CLASS I CATEGORY I FOR FIND NO. 11 AWG 3/8 IN.
6. MARK SER NO. PER ND 1002023
7. NUMBERS PRECEDING BALLOON DENOTES QUANTITY
8. BOND ~~FIND NO 6 TO 8 17~~ USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
~~9 POTTING TO BE ±.005 -.015 FROM SURFACES OF FIND NO 8~~

QTY REQD -2	QTY REQD -1	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1	1014472-2	BAND MARKER, CABLE	17
1	1	1014472-2A	BAND MARKER, CABLE	16
1	1	MS39056-5	BUSHING, CABLE ADAPTER	15
AR	AP	MIL W-K878/4, TYPE E22, WHT	WIRE, ELECTRICAL	14
AR	AP	1006683	COMPOUND, SILICONE RUBBER	13
AR	AR	MIL-W-16878/4, TYPE E22, BLK	WIRE, ELECTRICAL	12
AR	AR	SEE NOTE 5	SLEEVING	11
1	1	MS39056-4	BUSHING, CABLE ADAPTER	10
1	1	MS3126F-18-325	CONNECTOR, RECEPTACLE	9
60	60	1010380	INSULATOR BUSHING, FEMALE	8
60	60	1010379-1	CONTACT, ELECTRICAL FEMALE	7
2	2	1014032	RECEPTACLE, INDEXING	6
2	2	1006997	WASHER, PLAIN FLAT	5
2	2	MS35337-79	WASHER, LOCK	4
2	2	1006998-1	SCREW, CAPTIVE	3
1	1	1014000-4	FRAME, MODULE	2
1	1	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014422

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 7-26-63
CHECKED 8-8-63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
TAPE PUNCH AND READER
CTS

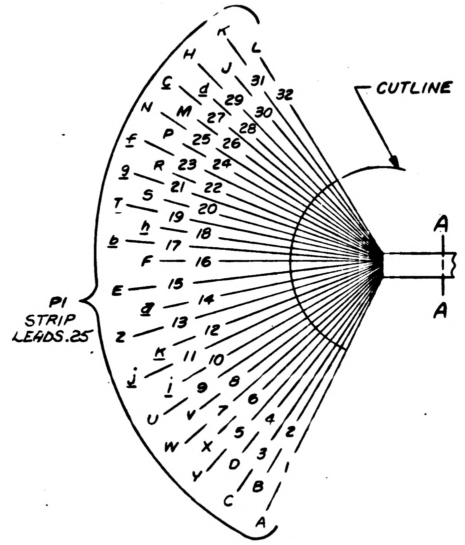
CODE IDENT NO ———
SIZE J
NASA DRAWING NO 1014422
SCALE 1/1
WT
SHEET 1 OF 1

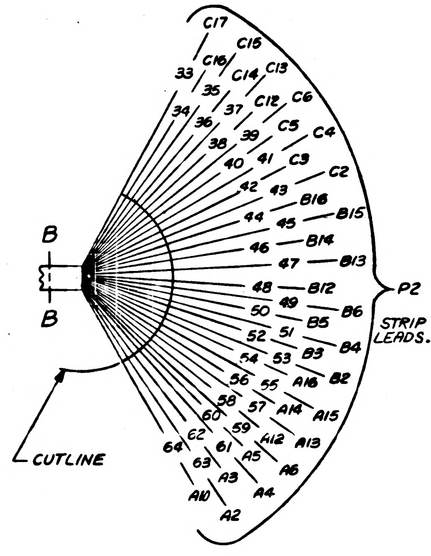
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

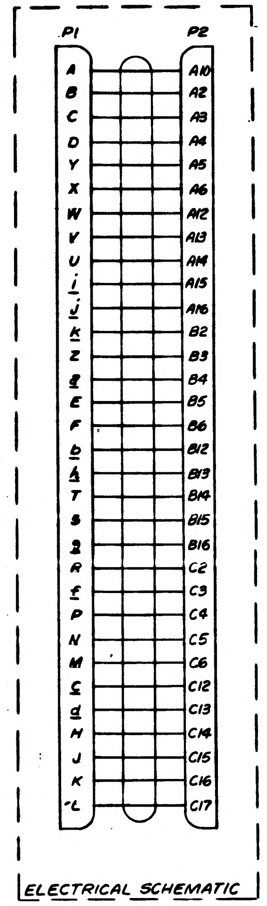
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		

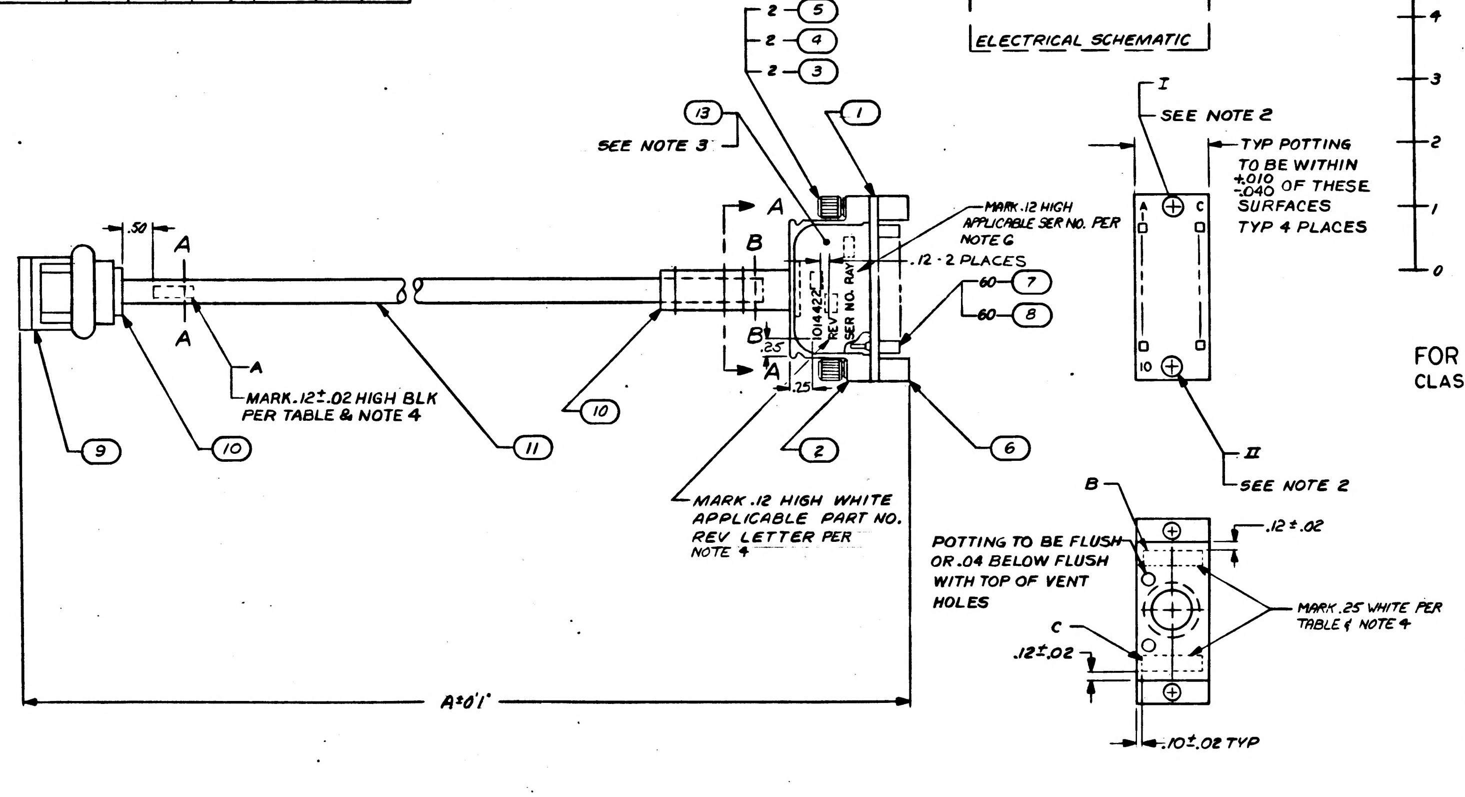
ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	BLACK	22	12	64	
	2	WHITE	22	14	63	
	3				62	
	4				61	
	5				60	
	6				59	
	7				58	
	8				57	
	9				56	
	10				55	
	11				54	
	12				53	
	13				52	
	14				51	
	15				50	
	16				49	
	17				48	
	18				47	
	19				46	
	20				45	
	21				44	
	22				43	
	23				42	
	24				41	
	25				40	
	26				39	
	27				38	
	28				37	
	29				36	
	30				35	
	31				34	
	32	WHITE	22	14	33	


CUTLINE
A
A
P1
STRIP
LEADS .25
K L H J 31 32 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1
A B C D E F G M N P R S T U V W X Y Z


B
B
CUTLINE
P2
STRIP
LEADS .19
C17 C16 C15 C14 C13 C12 C6 C5 C4 C3 C2 B16 B15 B14 B13 B12 B6 B5 B4 B3 B2 A16 A15 A14 A13 A12 A6 A5 A4 A3 A2 A10
33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64


P1
P2
ELECTRICAL SCHEMATIC

PART NO	REV STATUS	MARKING LEGEND			A DIM	KEY CODE IDENT
		A	B	C		
1014422-1	—	A1P1/J1	A18P2/J6	W1	72	AG
1014422-2	—	A10P1/J1	A18P2/J8	W9	48	AJ


.50
A
A
MARK .12±.02 HIGH BLK PER TABLE & NOTE 4
9
10
11
10
A = 0'1"
2 5
2 4
2 3
13
SEE NOTE 3
1
A
B
B
A
.25
.25
MARK .12 HIGH APPLICABLE SER NO. PER NOTE 6
.12 - 2 PLACES
60 7
60 8
1014422 REV SER NO. RAY
2
6
MARK .12 HIGH WHITE APPLICABLE PART NO. REV LETTER PER NOTE 4
I
SEE NOTE 2
TYP POTTING TO BE WITHIN +.010 -.040 OF THESE SURFACES TYP 4 PLACES
A C 10
II
SEE NOTE 2
B
POTTING TO BE FLUSH OR .04 BELOW FLUSH WITH TOP OF VENT HOLES
.12±.02
MARK .25 WHITE PER TABLE & NOTE 4
C
.12±.02
.10±.02 TYP
SECTION A-A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02143 DATE 9/12/63

NOTES
1. FOR SYMBOLS, FABRICATION AND TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 13 PER ND 1002183
4. MARK PER ND 1002019
5. MIL-I-631 TYPE F, FOAM Ua GRADE a CLASS I CATEGORY I FOR FIND NO. 11 AWG 3/8 IN.
6. MARK SER NO. PER ND 1002023
7. NUMBERS PRECEDING BALLOON DENOTES QUANTITY

QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	AP	MIL-W-16878/4, TYPE E22, WHT	WIRE, ELECTRICAL	14
AR	AP	1006904	EPOXY RESIN	13
AR	AR	MIL-W-16878/4, TYPE E22, BLK	WIRE ELECTRICAL	12
AR	AR	SEE NOTE 5	SLEEVING	11
2	2	MS39056-4	BUSHING, CABLE ADAPTER	10
1	1	MS3126F-18-32S	CONNECTOR, RECEPTACLE	9
60	60	1010380	INSULATOR BUSHING, FEMALE	8
60	60	1010379-1	CONTACT, ELECTRICAL, FEMALE	7
2	2	1014032	RECEPTACLE, INDEXING	6
2	2	1006997	WASHER, PLAIN FLAT	5
2	2	MS35337-79	WASHER, LOCK	4
2	2	1006998-1	SCREW, CAPTIVE	3
1	1	1014000-4	FRAME, MODULE	2
1	1	1014021	PLATE, CONNECTOR	1
-2	-1	LIST OF MATERIALS		

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 7-26-63
CHECKED 8-8-63
APPROVAL C Sperling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 9/12/63
MIT APPROVAL 9/12/63

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

CABLE ASSEMBLY
TAPE PUNCH AND READER
CTS

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014422
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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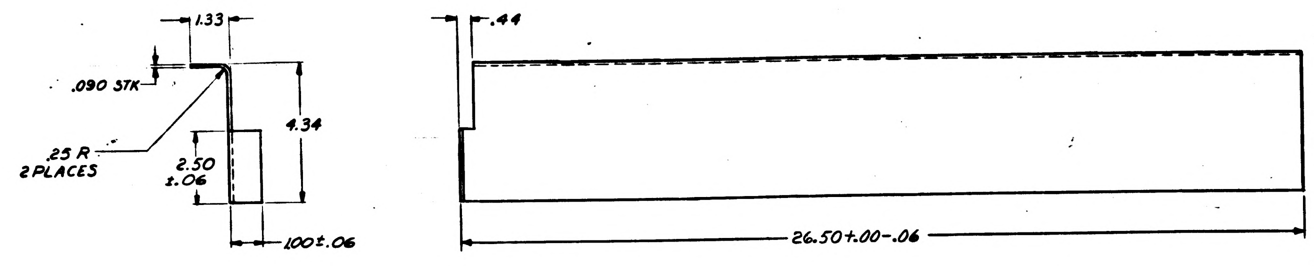
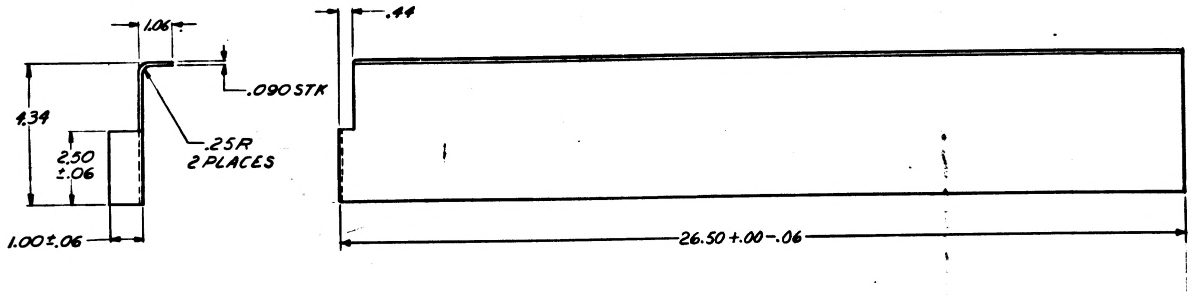

1.33
.090 STK
.25 R
2 PLACES
4.34
2.50
±.06
1.00±.06
.44
26.50+.00-.06

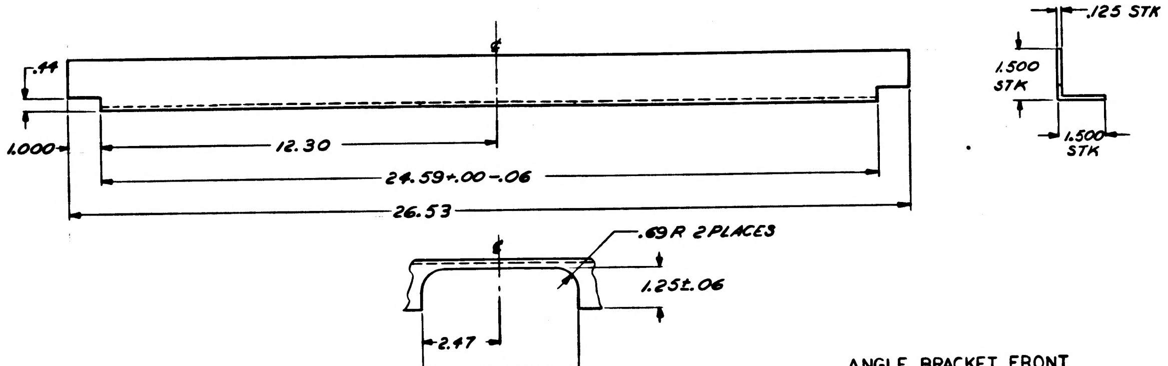
NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES

SIDE BRACKET L.H.
1014423-1


1.06
.090 STK
4.34
.25R
2 PLACES
2.50
±.06
1.00±.06
.44
26.50+.00-.06

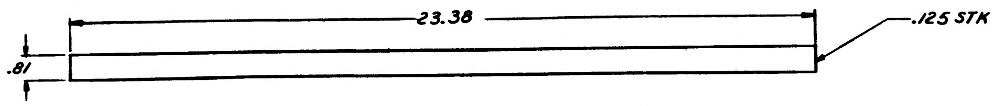
NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES

SIDE BRACKET R.H.
1014423-2


.44
1.000
12.30
24.59+.00-.06
26.53
.125 STK
1.500
STK
1.500
STK
.69 R 2 PLACES
1.25±.06
2.47
4.94±.06

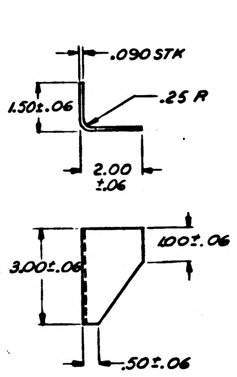
NOTES
1. MATL: AL 6063-T5 CL 713 EXTR ANGLE PER QQ-A-274
2. REMOVE BURRS & SHARP EDGES

ANGLE BRACKET, FRONT
1014423-3


23.38
.125 STK
.81

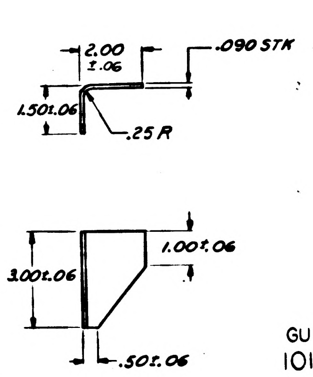
NOTES
1. MATL: AL 6061-T6 CL 713 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES

BAR
1014423-4


.090 STK
1.50±.06
.25 R
2.00
±.06
3.00±.06
1.00±.06
.50±.06

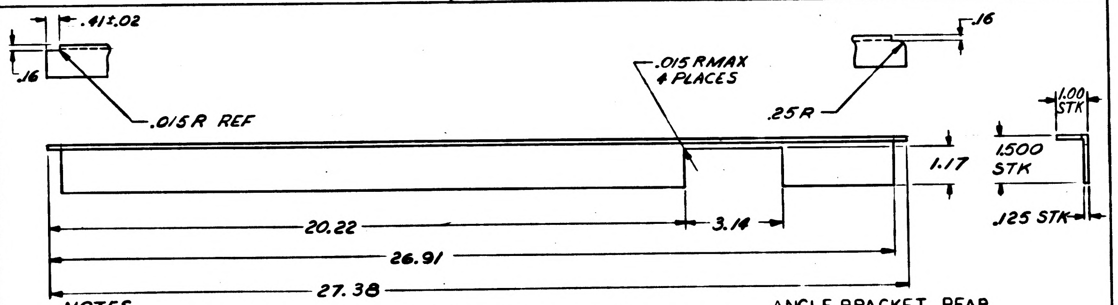
GUSSET R.H.
1014423-5

NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES


2.00
±.06
.090 STK
1.50±.06
.25 R
3.00±.06
1.00±.06
.50±.06

GUSSET L.H.
1014423-6

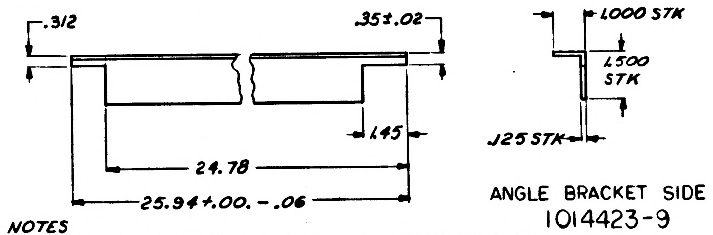
NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES


.41±.02
.16
.015 R REF
.015 R MAX
4 PLACES
.16
.25 R
1.00
STK
1.500
STK
1.17
.125 STK
20.22
3.14
26.91
27.38

NOTES
1. MATL: AL 6063-T5 CL 713 EXTR ANGLE PER QQ-A-274
2. REMOVE BURRS & SHARP EDGES

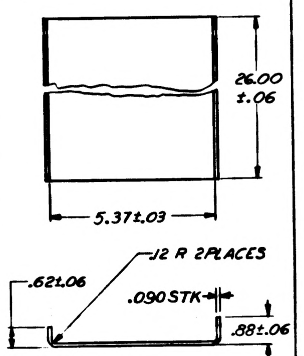
ANGLE BRACKET REAR
1014423-8

FOR INFORMATION ONLY
CLASS B RELEASE FDRR NO. 63143 DATE 7/12/63


.312
.35±.02
1.000 STK
1.500
STK
.125 STK
1.45
24.78
25.94+.00-.06

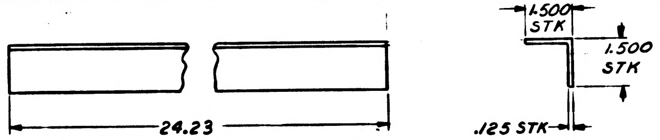
ANGLE BRACKET SIDE
1014423-9

NOTES
1. MATL: AL 6063-T5 CL 713 EXTR ANGLE PER QQ-A-274
2. REMOVE BURRS & SHARP EDGES


26.00
±.06
5.37±.03
.12 R 2 PLACES
.62±.06
.090 STK
.88±.06

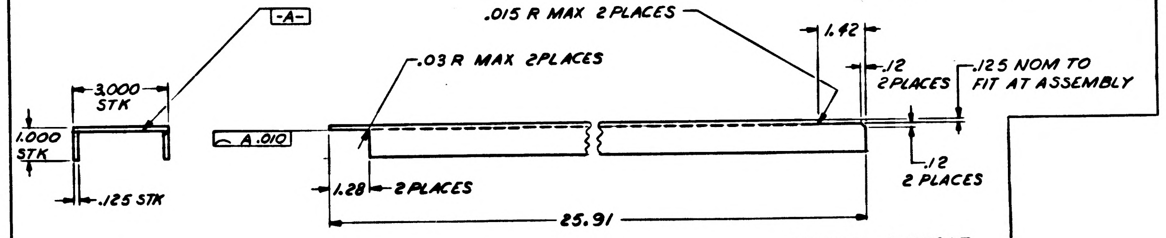
NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES

BRACKET TOP
1014423-7


24.23
1.500
STK
1.500
STK
.125 STK

NOTES
1. MATL: AL 6063-T5 CL 713 EXTR ANGLE PER QQ-A-274
2. REMOVE BURRS & SHARP EDGES

ANGLE SUPPORT
1014423-10


-A-
3.000
STK
1.000
STK
.125 STK
A .010
.015 R MAX 2 PLACES
.03 R MAX 2 PLACES
1.42
.12
2 PLACES
.125 NOM TO
FIT AT ASSEMBLY
.12
2 PLACES
1.28
2 PLACES
25.91

NOTES
1. MATL: AL 6063-T5 CL 713 EXTR CHANNEL PER QQ-A-274
2. REMOVE BURRS & SHARP EDGES

CHANNEL SUPPORT
1014423-11

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER FDRR		
A	CLASS II CHANGE PER RD-R 5526A DR J.P. Leonard CHK	11-25-63	JJB

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.015 ±.02 ANGLE ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

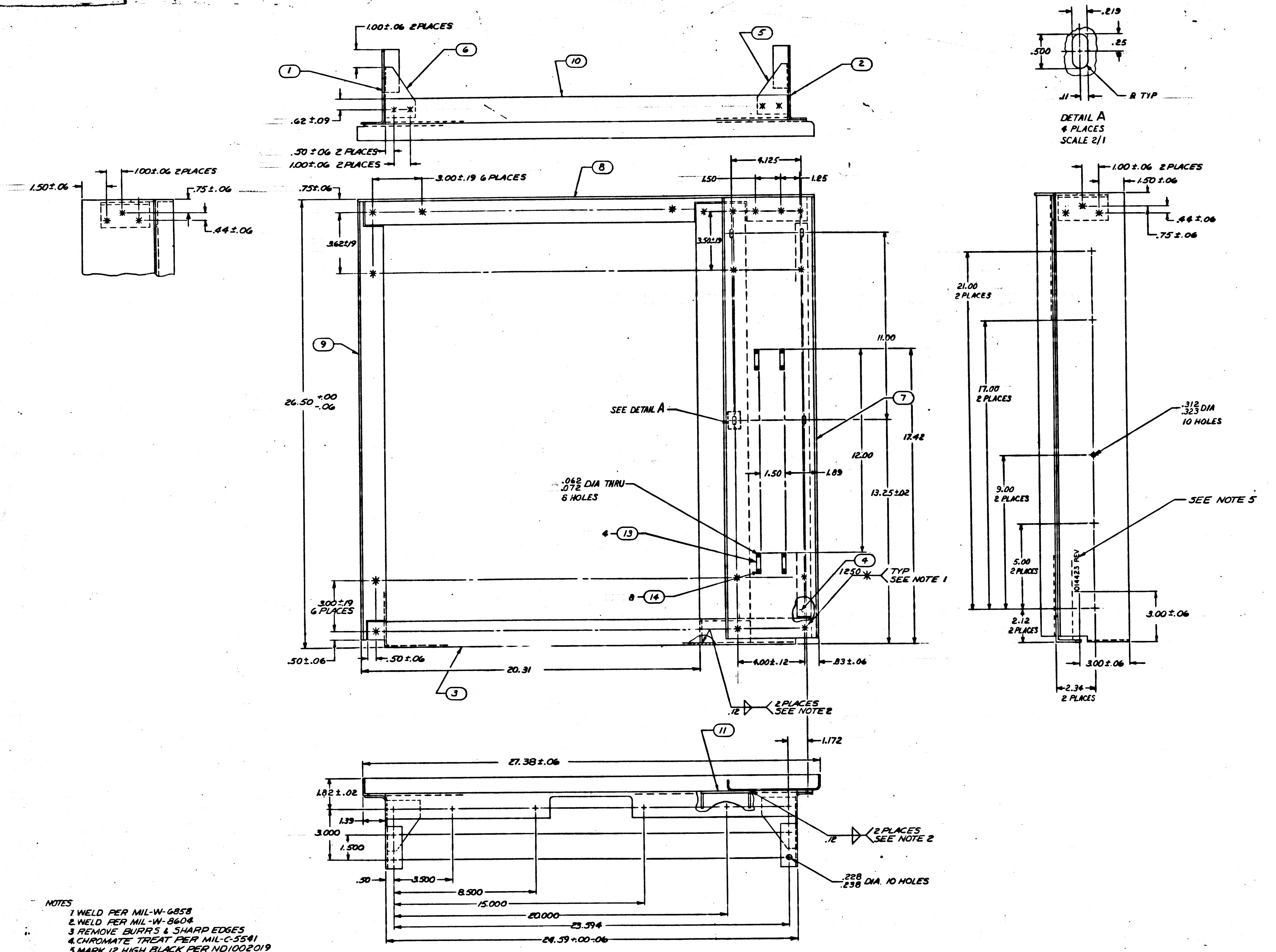
CHASSIS ASSEMBLY,
TEST MOUNT
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014423
SCALE 1/2 SHEET 2 OF 2

1014423

1014423

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR NO. 03143		
A	CLASS II CHANGE PER RD-R5526A DR. J.P Leonard CHK J. Rogers APPD G.Pease	11-21-63	
B	CHANGED PER TDRR 05812 DR. Ken Bull CHK. J. Ryan APPD.	10FEB 64	WK



1.00±.06 2 PLACES
1
6
10
5
2
.62±.09
.50±.06 2 PLACES
1.00±.06 2 PLACES
.219
.25
.500
.11
R TYP
DETAIL A
4 PLACES
SCALE 2/1
1.50±.06
1.00±.06 2 PLACES
.75±.06
.44±.06
.75±.06
3.00±.19 6 PLACES
8
4.125
1.50
1.25
3.62±.19
3.50±.19
1.00±.06 2 PLACES
1.50±.06
.44±.06
.75±.06
21.00 2 PLACES
9
26.50 +.00 -.06
11.00
SEE DETAIL A
7
17.00 2 PLACES
.312 .323 DIA 10 HOLES
17.42
12.00
1.50
1.89
13.25±.02
.062 .072 DIA THRU 6 HOLES
9.00 2 PLACES
SEE NOTE 5
4-13
4
1.250
TYP SEE NOTE 1
5.00 2 PLACES
1014423 REV
8-14
3.00±.19 6 PLACES
2.12 2 PLACES
3.00±.06
.50±.06
.50±.06
20.31
4.00±.12
.83±.06
3.00±.06
3
2.34 2 PLACES
.12
2 PLACES SEE NOTE 2
11
1.172
27.38±.06
1.82±.02
1.39
3.000
1.500
.12
2 PLACES SEE NOTE 2
.50
3.500
8.500
15.000
20.000
23.594
24.59+.00-.06
.228 .238 DIA. 10 HOLES

NOTES
1. WELD PER MIL-W-6858
2. WELD PER MIL-W-8604
3. REMOVE BURRS & SHARP EDGES
4. CHROMATE TREAT PER MIL-C-5541
5. MARK .12 HIGH BLACK PER ND1002019
6. NUMBERS PRECEEDING BALLOON DENOTES QUANTITY

B	A	
A	A	
—	—	
SH 1	SH 2	
REV STATUS OF SHEETS		

REV STATUS OF PARTS	
PART NO	REV SYM
1014423-1	A
1014423-2	A
1014423-3	—
1014423-4	—
1014423-5	—
1014423-6	—
1014423-7	—
1014423-8	A
1014423-9	—
1014423-10	—
1014423-11	—

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03143 DATE 9/12/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
8	MS20470A2-5	RIVET, SOLID	14
4	1006906-2	BRACKET CABLE SUPPORT	13
~~6~~	~~1006951-003~~	~~STUD CAPTIVE SELF CLINCHING~~	~~12~~
1	1014423-11	CHANNEL, SUPPORT	11
1	1014423-10	ANGLE, SUPPORT	10
1	1014423-9	ANGLE, BRACKET, SIDE	9
1	1014423-8	ANGLE, BRACKET, REAR	8
1	1014423-7	BRACKET, TOP	7
1	1014423-6	GUSSET, LH	6
1	1014423-5	GUSSET, RH	5
1	1014423-4	BAR	4
1	1014423-3	ANGLE, BRACKET, FRONT	3
1	1014423-2	SIDE BRACKET RH	2
1	1014423-1	SIDE BRACKET LH	1

LIST OF MATERIALS

1014423

MASTER

1020010	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.015 ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT —
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE
CHECKED 21 AUG 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
SP APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSEMBLY
TEST MOUNT
AGC/CTS OPERATION CONSOLE

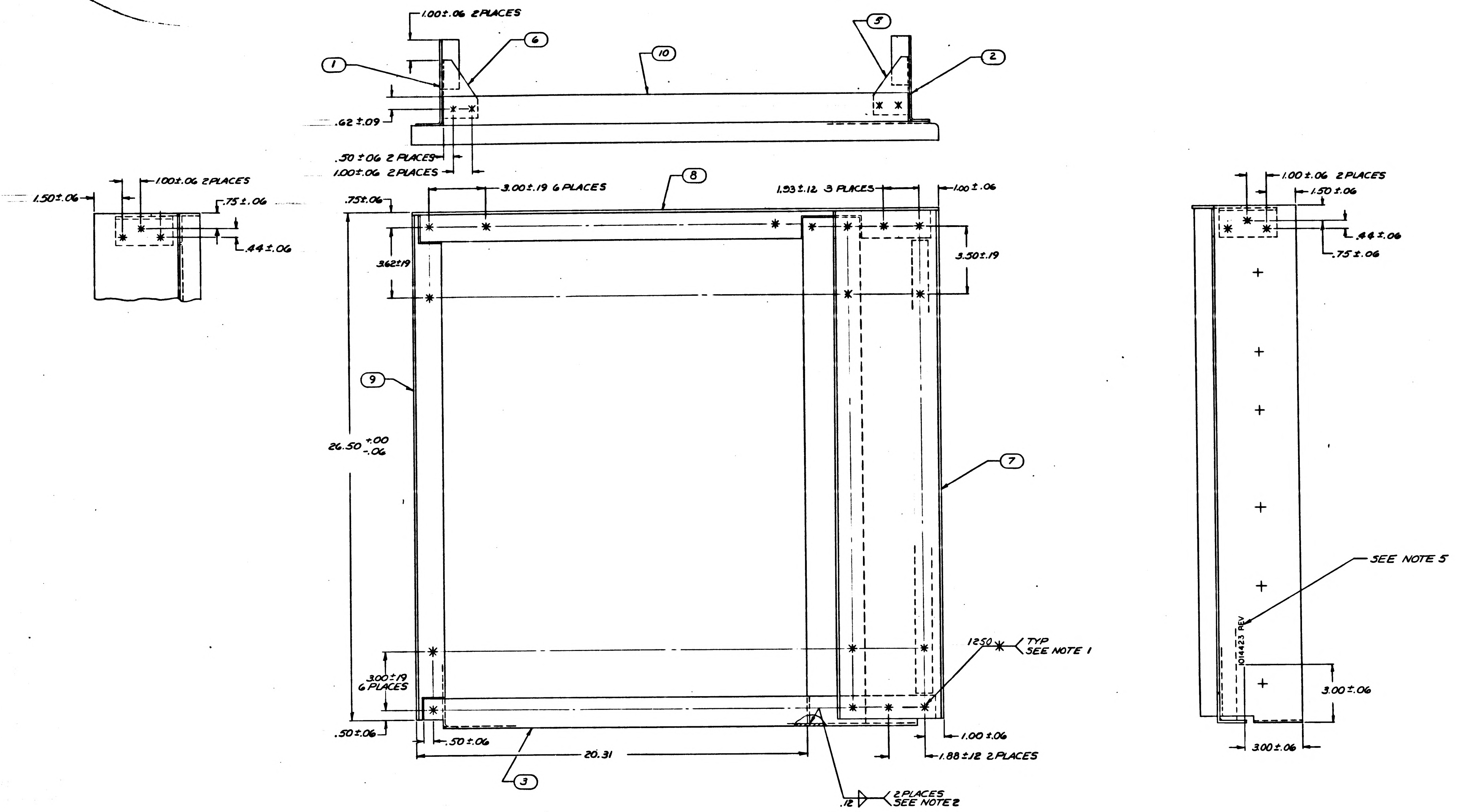
CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014423
SCALE 1/2
WT
SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014423

INCHES
PHOTOGRAPHIC SCALE ONLY

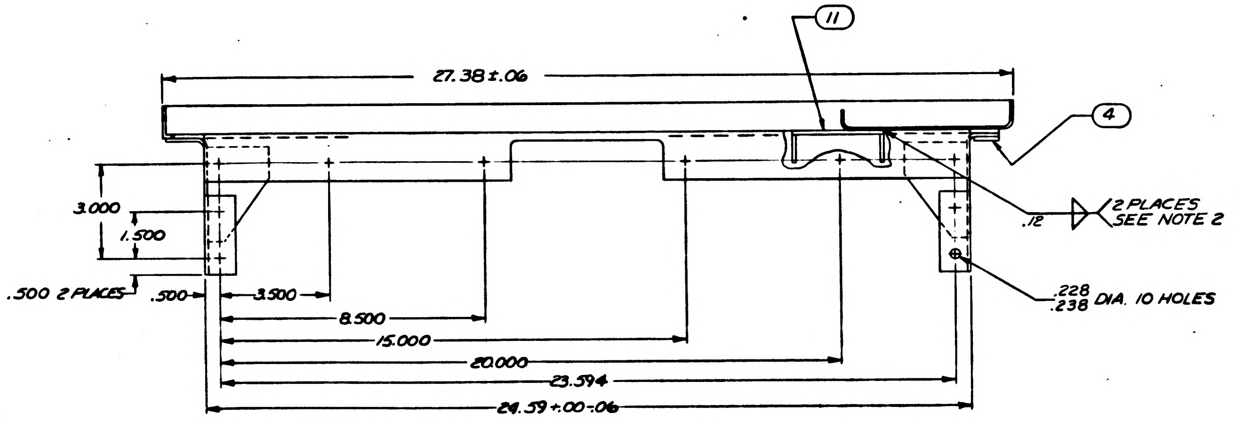
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR NO. 03143	9-13	


1.00±.06 2 PLACES
6
1
10
5
2
.62±.09
.50±.06 2 PLACES
1.00±.06 2 PLACES
1.50±.06
1.00±.06 2 PLACES
.75±.06
.44±.06
8
.75±.06
3.00±.19 6 PLACES
1.93±.12 3 PLACES
1.00±.06
3.62±.19
3.50±.19
9
26.50 +.00 -.06
7
1250 TYP SEE NOTE 1
3.00±.19 6 PLACES
.50±.06
.50±.06
20.31
3
1.00±.06
1.88±.12 2 PLACES
.12 2 PLACES SEE NOTE 2
1.00±.06 2 PLACES
1.50±.06
.44±.06
.75±.06
SEE NOTE 5
1014423 REV
3.00±.06
3.00±.06

SH 1	SH 2	
REV STATUS OF SHEETS		

REV STATUS OF PARTS	
PART NO	REV SYM
1014423-1	
1014423-2	
1014423-3	
1014423-4	
1014423-5	
1014423-6	
1014423-7	
1014423-8	
1014423-9	
1014423-10	
1014423-11	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03143DATE 9/12/63


11
27.38±.06
4
3.000
1.500
.12 2 PLACES SEE NOTE 2
.500 2 PLACES
.500
3.500
8.500
15.000
20.000
23.594
24.59+.00-.06
.228 .238 DIA. 10 HOLES

NOTES
1. WELD PER MIL-W-6858
2. WELD PER MIL-W-8604
3 REMOVE BURRS & SHARP EDGES
4. CHROMATE TREAT PER MIL-C-5541
5 MARK .12 HIGH BLACK PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1014423-11	CHANNEL, SUPPORT	11
1	1014423-10	ANGLE, SUPPORT	10
1	1014423-9	ANGLE, BRACKET, SIDE	9
1	1014423-8	ANGLE, BRACKET, REAR	8
1	1014423-7	BRACKET, TOP	7
1	1014423-6	GUSSET, LH	6
1	1014423-5	GUSSET, RH	5
1	1014423-4	BAR	4
1	1014423-3	ANGLE, BRACKET, FRONT	3
1	1014423-2	SIDE BRACKET RH	2
1	1014423-1	SIDE BRACKET LH	1

LIST OF MATERIALS

1020010	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.015 ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN
CHECKED Q.J. Maningo 21 AUG 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

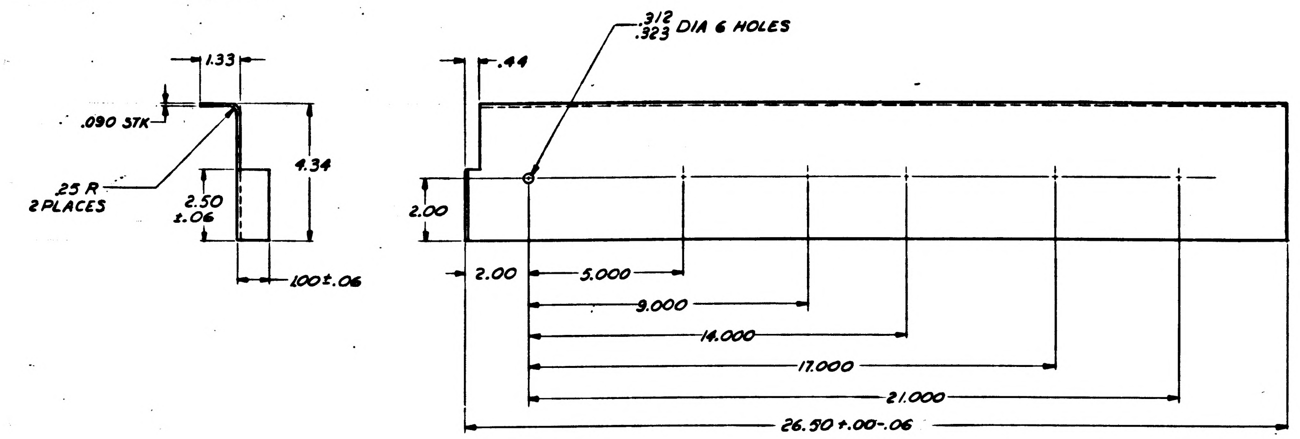
CHASSIS ASSEMBY,
TEST MOUNT
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014423
SCALE 1/2
WT
SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

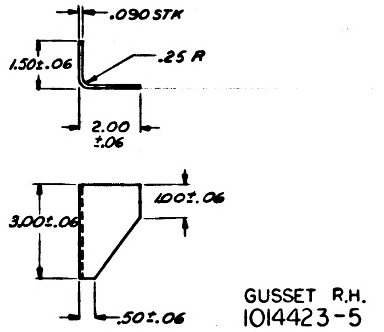
INCHES
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		


1.33
.090 STK
.25 R 2 PLACES
4.34
2.50 ±.06
1.00±.06
.312 .323 DIA 6 HOLES
.44
2.00
2.00
5.000
9.000
14.000
17.000
21.000
26.50+.00-.06

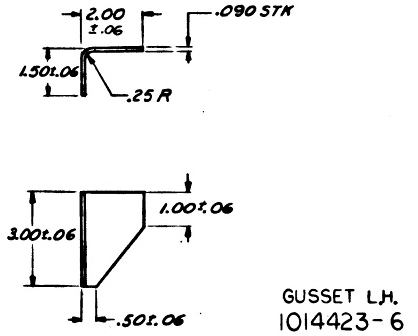
NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES

SIDE BRACKET L.H.
1014423-1


.090 STK
.25 R
1.50±.06
2.00 ±.06
3.00±.06
1.00±.06
.50±.06

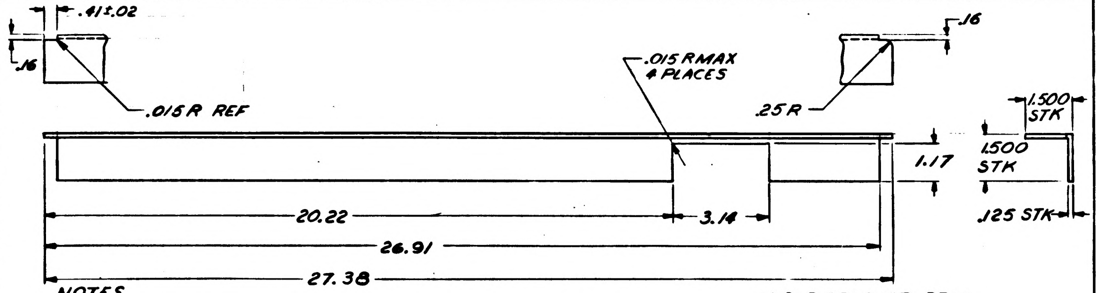
GUSSET R.H.
1014423-5

NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES


2.00 ±.06
.090 STK
1.50±.06
.25 R
3.00±.06
1.00±.06
.50±.06

GUSSET L.H.
1014423-6

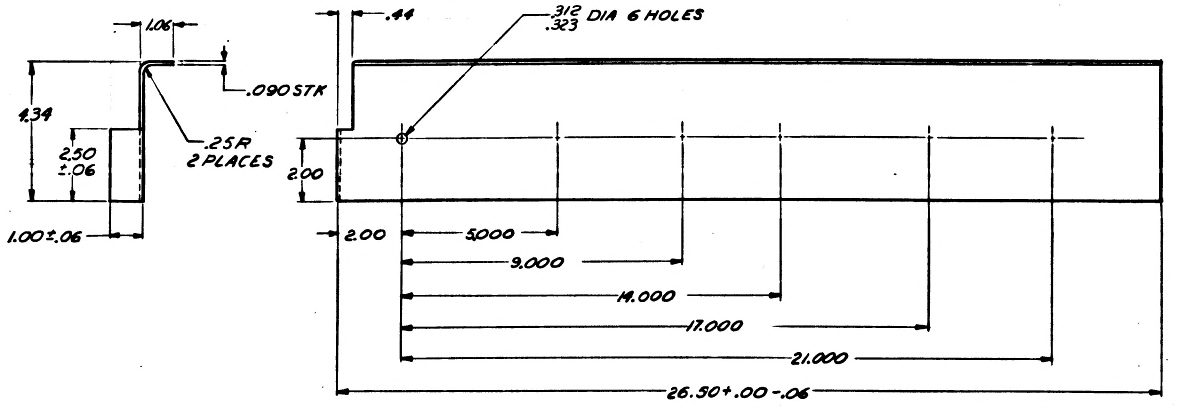
NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES


.41±.02
.16
.015 R REF
.015 R MAX 4 PLACES
.16
.25 R
1.500 STK
1.17
1.500 STK
.125 STK
20.22
3.14
26.91
27.38

NOTES
1. MATL: AL 6063-T5 CL 713 EXTR ANGLE PER QQ-A-274
2. REMOVE BURRS & SHARP EDGES

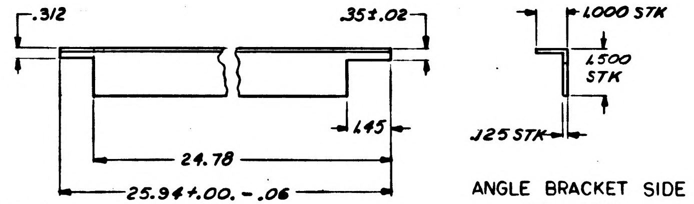
ANGLE BRACKET REAR
1014423-8

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 63143 DATE 7/12/63


1.06
.090 STK
4.34
.25R 2 PLACES
2.50 ±.06
1.00±.06
.312 .323 DIA 6 HOLES
.44
2.00
2.00
5.000
9.000
14.000
17.000
21.000
26.50+.00-.06

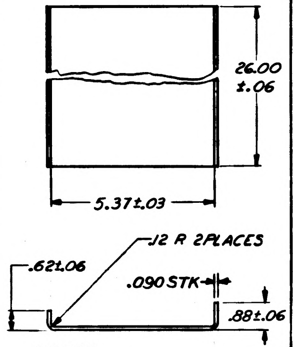
NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES

SIDE BRACKET R.H.
1014423-2


.312
.35±.02
1.45
24.78
25.94+.00-.06
1.000 STK
1.500 STK
.125 STK

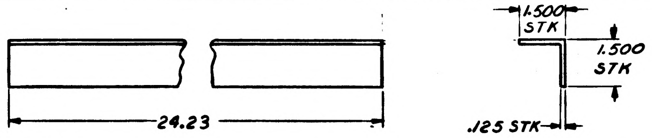
ANGLE BRACKET SIDE
1014423-9

NOTES
1. MATL: AL 6063-T5 CL 713 EXTR ANGLE PER QQ-A-274
2. REMOVE BURRS & SHARP EDGES


26.00 ±.06
5.37±.03
.12 R 2PLACES
.62±.06
.090 STK
.88±.06

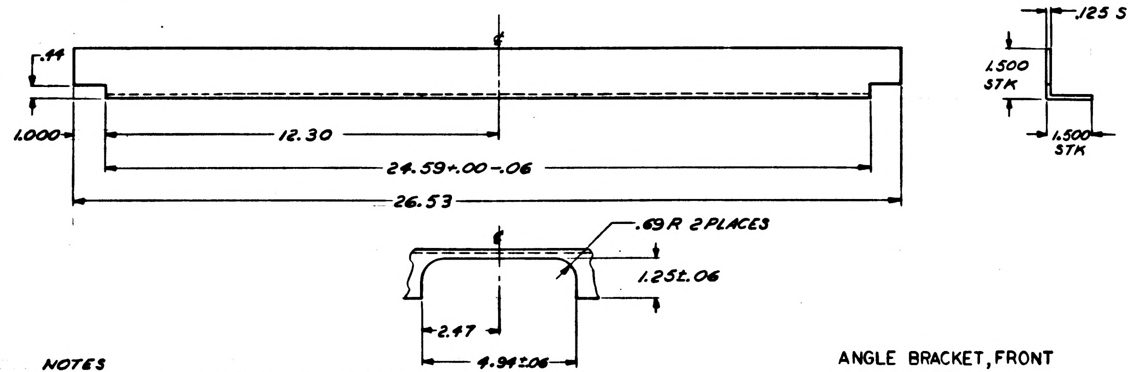
NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES

BRACKET TOP
1014423-7


24.23
1.500 STK
1.500 STK
.125 STK

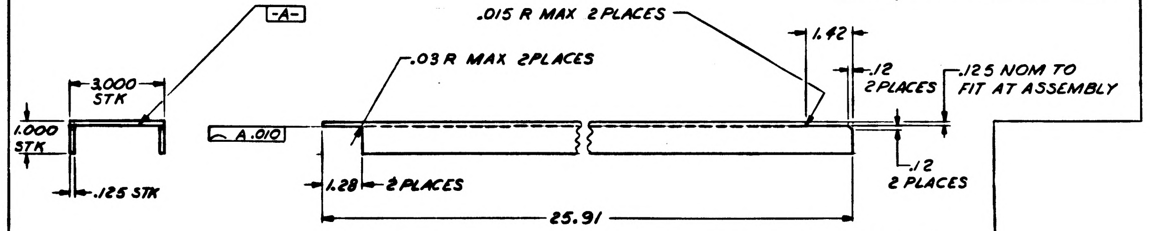
NOTES
1. MATL: AL 6063-T5 CL 713 EXTR ANGLE PER QQ-A-274
2. REMOVE BURRS & SHARP EDGES

ANGLE SUPPORT
1014423-10


.44
1.000
12.30
24.59+.00-.06
26.53
.125 STK
1.500 STK
1.500 STK
.69 R 2 PLACES
1.25±.06
2.47
4.94±.06

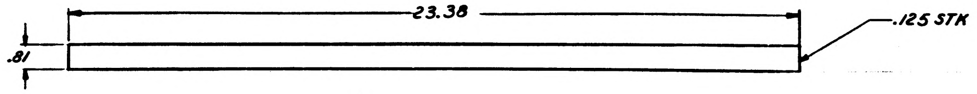
NOTES
1. MATL: AL 6063-T5 CL 713 EXTR ANGLE PER QQ-A-274
2. REMOVE BURRS & SHARP EDGES

ANGLE BRACKET, FRONT
1014423-3


-A-
.015 R MAX 2 PLACES
3.000 STK
1.000 STK
.125 STK
A .010
.03 R MAX 2PLACES
1.42
.12 2PLACES
.125 NOM TO FIT AT ASSEMBLY
.12 2 PLACES
1.28 2 PLACES
25.91

NOTES
1. MATL: AL 6063-T5 CL 713 EXTR CHANNEL PER QQ-A-274
2. REMOVE BURRS & SHARP EDGES

CHANNEL SUPPORT
1014423-11


23.38
.81
.125 STK

NOTES
1. MATL: AL 6061-T6 CL 713 PER QQ-A-327
2. REMOVE BURRS & SHARP EDGES

BAR
1014423-4

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.015 ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN A. Antonio DATE 20 Aug 63
CHECKED A. J. Marinaro 21 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS ASSEMBLY,
TEST MOUNT
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014423
SCALE 1/2
SHEET 2 OF 2

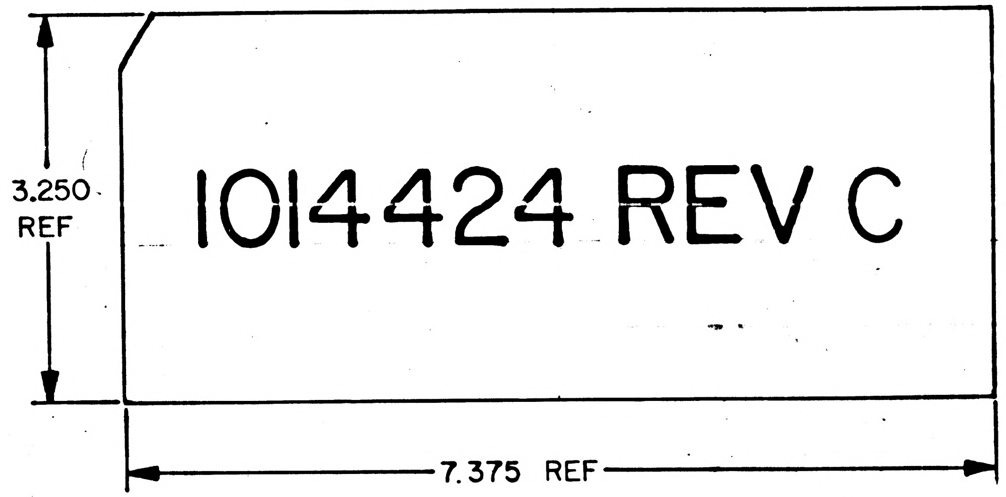
INCHES
PHOTOGRAPHIC SCALE ONLY

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	
A	CLASS II CHANGE PER RDR5752 DR S.T. Quifice CHK W. J. Gifford APPD Cal	27 JAN 64	JJS
B	CLASS II CHANGE PER RDR5810 DR S.T. Quifice CHK A. Coggins APPD	2/21/64	JJS
C	CLASS II CHANGE PER RD R5966 DR CHK APPD S. Conley	23 APR 64	
D	CHANGED PER TDRR 10458 DR. Brown CHK. APPD S. Conley	1 July 64	

DECK T
NO. OF CARDS 676



REFERENCE DRAWINGS
SCHEMATICS 1014269
1014352
1014266
1014379

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 05245 DATE 12/17/63

NOTE:
NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

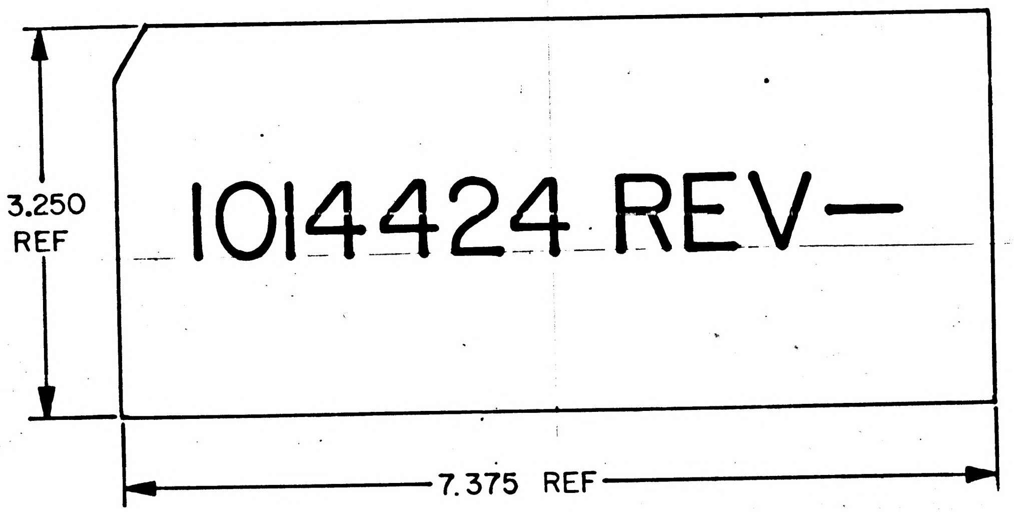
RAYTHEON CO. LEXINGTON, MASS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
CONTRACT NO. NAS-9-498			
DRAWN S. Quifice DATE 2 OCT 63 CHECKED 3 OCT 63 APPROVAL Sparling JPK APPROVAL JJS 12/6/63	WIRE WRAP MACHINE CARDS COMPUTER TEST SET PROGRAMMER AND MONITOR LOGIC PLATE ASSY NO. 1		
NASA APPROVAL 12/12/63 MIT APPROVAL R. Wahl 12/17/63 MIT APPROVAL D. Scolamiero 12/17/63	CODE IDENT NO. —	SIZE B	NASA DRAWING NO. 1014424
	SCALE NONE	WT	SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS —

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	

DECK T
NO OF CARDS 661



REFERENCE DRAWINGS
SCHEMATICS 1014269
1014352
1014266
1014379

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 05245 DATE 12/17/63

NOTE:
NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

MASTER

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE 2 OCT 63
CHECKED 2 OCT 63
APPROVAL JPK
APPROVAL JLS
RHB 12/6/63
NASA APPROVAL 12/17/63
MIT APPROVAL 12/17/63
MIT APPROVAL D. Scolamiero 12/17/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE WRAP MACHINE CARDS
COMPUTER TEST SET
PROGRAMMER AND MONITOR
LOGIC PLATE ASSY NO. 1

CODE IDENT NO. —
SIZE B
NASA DRAWING NO. 1014424
SCALE NONE
WT
SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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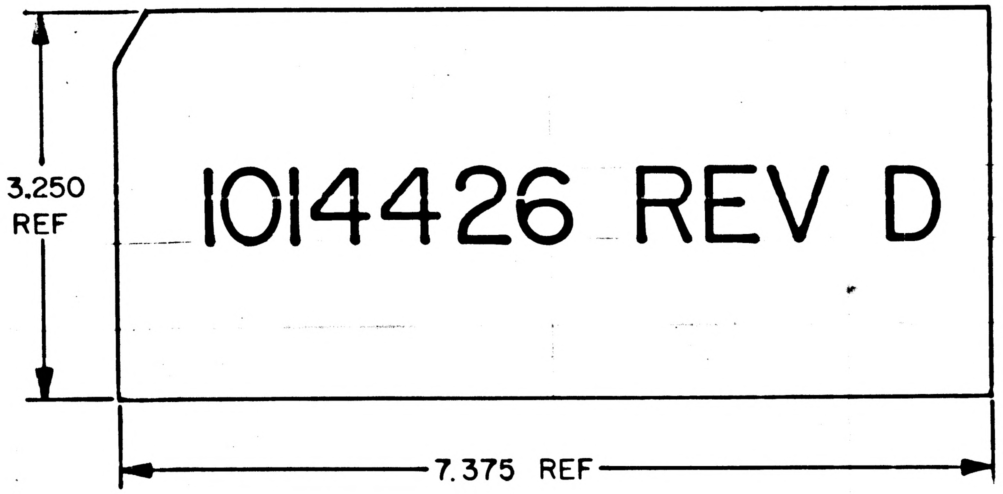
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	
A	CLASS II CHANGE PER RDR 5752 DRS.T. CHK W.J. APPD cal	27 JAN 64	JJS
B	CLASS II CHANGE PER RD-R5510 DR S.T. CHK G. APPD	2/21/64	JJS
C	CLASS II CHANGE PER RD-R5966 DR CHK APPD	13 APR 64	
D	CHANGED PER TDRR 10459 DRS.T. CHK APPD	7 JUL 64	

DECK V

NO. OF CARDS 373



REFERENCE DRAWINGS

SCHEMATICS 1014262

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 05245 DATE 12/17/63

NOTE:

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

DRAWN DATE 2 OCT 63
CHECKED 7 OCT 63
APPROVAL C. Sperling JPK
APPROVAL JJS
NASA APPROVAL 12/17/63
MIT APPROVAL 12/17/63
MIT APPROVAL 12/11/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE WRAP MACHINE CARDS
COMPUTER TEST SET
PROGRAMMER AND MONITOR
LOGIC PLATE ASSY NO.2

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	B	1014426
SCALE NONE	WT	SHEET 1 OF 1

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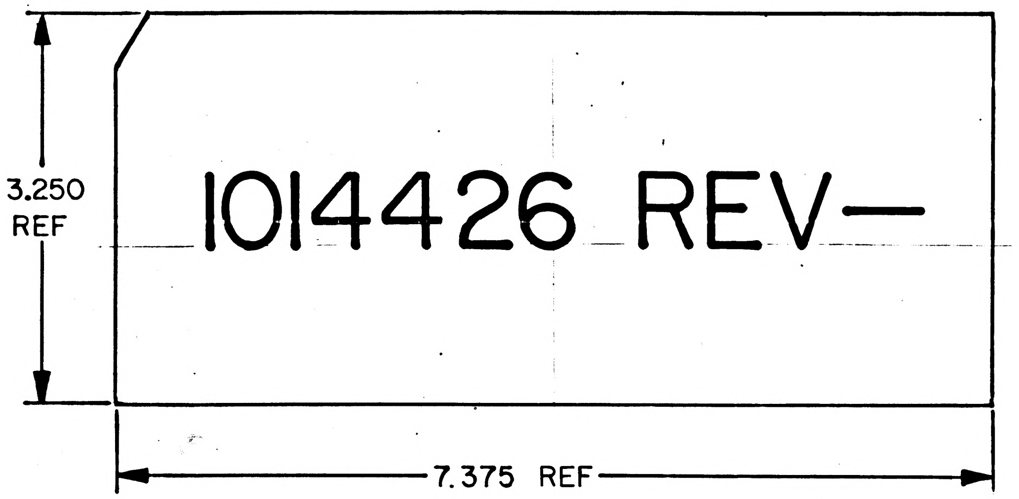
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 05245	12/17/63	

DECK V

NO OF CARDS 370



REFERENCE DRAWINGS

SCHEMATICS 1014262

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO 05245 DATE 12/17/63

NOTE:

NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

MASTER

RAYTHEON RAYTHEON CO. LEXINGTON, MASS.	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
CONTRACT NO. NAS-9-498	
DRAWN DATE 2 OCT 63 CHECKED 7 OCT 63 APPROVAL C. Sperling JPK APPROVAL JJS J. L. Pandolfo JFB 12/13/63	WIRE WRAP MACHINE CARDS COMPUTER TEST SET PROGRAMMER AND MONITOR LOGIC PLATE ASSY NO.2
NASA APPROVAL 12/17/63 MIT APPROVAL 12/17/63 MIT APPROVAL 12/17/63	CODE IDENT NO. — SIZE B NASA DRAWING NO. 1014426 SCALE NONE WT SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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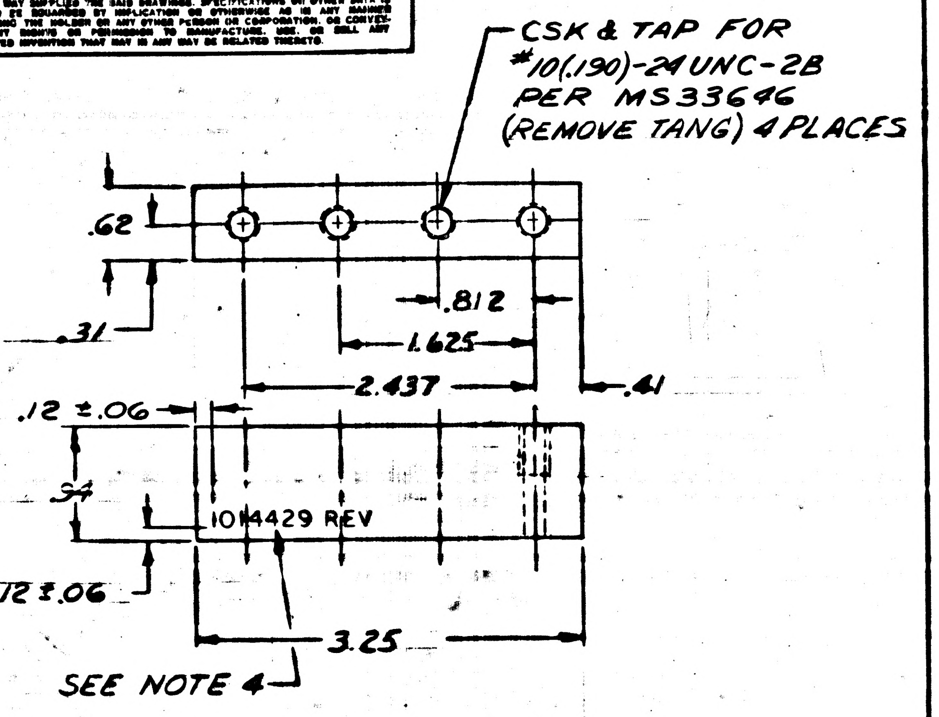
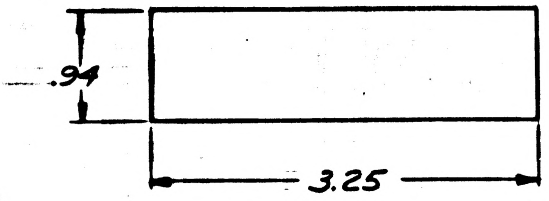


STOP, DOOR

NOTES

1. MATL 6061-T6 AL PER QQ-A-327.
2. BREAK SHARP EDGES.
3. CHROMATE TREAT PER MIL-C-5541
4. MARK .12 HIGH BLACK PER ND 1002019

1014429-2



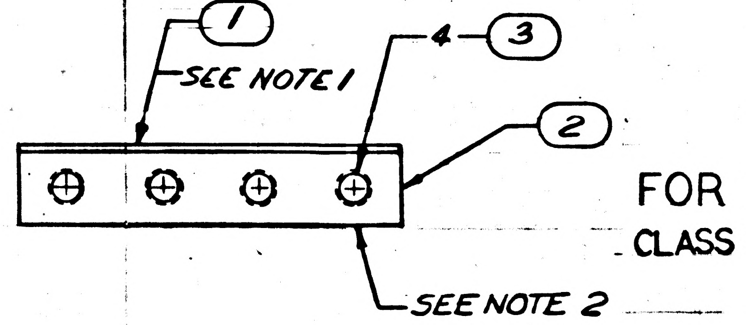
GASKET

NOTES

1. MATL: .06 THK RUBBER PER MIL-R-900D

1014429-1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLB RELEASED PER TDRR 04137		
A	CLASS II CHANGE PER RD-R5608 DR. Ken Bull CHK W. J. Gifford APPD J. Conley	27 DEC 63	
B	CHANGED PER TDRR 10077 DR. Ken Bull CHK A. G. C APPD S. Conley	24 June 64	KEB



FOR INFORMATION ONLY

CLASS B RELEASE TDRR 04137 DATE

NOTES:

1. ASSEMBLE FIND NO. 1 TO FIND NO. 2 USING FIND NO. 4
2. MARK 1014429 REV. ASSY, .12 HIGH PER ND1002012 ON SURFACE INDICATED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	MIL-A-5092, TYPE III	CEMENT	4
4	MS21208-C1-20	INSERT, HELICAL COIL	3
1	1014429-2	STOP, DOOR	2
1	1014429-1	GASKET	1

LIST OF MATERIALS

REV STATUS OF PARTS	
PART NO.	REV SYM
1014429-1	B
1014429-2	B

1014465	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 3 JUL 63
CHECKED 30 SEP 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 24 Oct 63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

STOP, DOOR
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014429
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014429

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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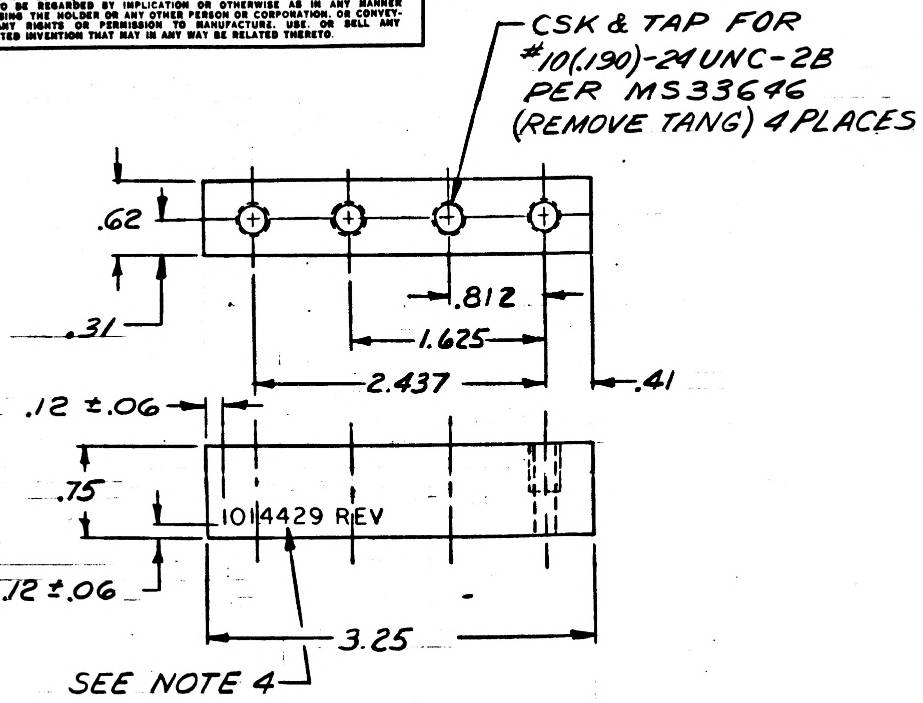
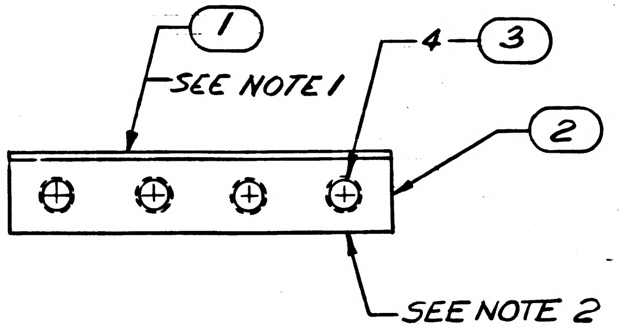
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CLB RELEASED PER TDRR 04137	10/24/63	WK



STOP, DOOR

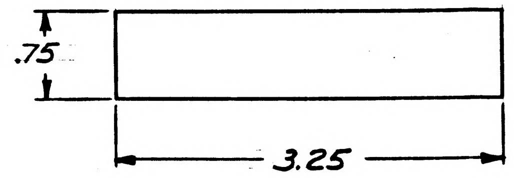
NOTES:
1. MATL: 6061-T6 AL PER QQ-A-327.
2. BREAK SHARP EDGES.
3. CHROMATE TREAT PER MIL-C-5541
4. MARK .12 HIGH BLACK PER ND 1002019

1014429-2



FOR INFORMATION ONLY
CLASS B RELEASE TDRR 04137 DATE 10/24/63

NOTES:
1. ASSEMBLE FIND NO.1 TO FIND NO.2 USING FIND NO.4
2. MARK 1014429 REV, ASSY, .12 HIGH PER ND1002012 ON SURFACE INDICATED



GASKET

NOTES
1. MATL: .06 THK RUBBER PER MIL-R-900D

1014429-1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	MIL-A-5092	CEMENT	4
4	MS21208-C1-20	INSERT, HELICAL COIL	3
1	1014429-2	STOP, DOOR	2
1	1014429-1	GASKET	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 3 JUL 63
CHECKED A.J. Marimon 30 SEP 63
APPROVAL C Sperlin J&K
APPROVAL [illegible]
APPROVAL [illegible] 10/24/63
NASA APPROVAL [illegible] 10/24/63
MIT APPROVAL W Kupfer 24 Oct 63
MIT APPROVAL D Scrlanniers 10/24/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

STOP, DOOR
CTS/AGC OPERATION CONSOLE

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	C	1014429
SCALE 1/1	WT	SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

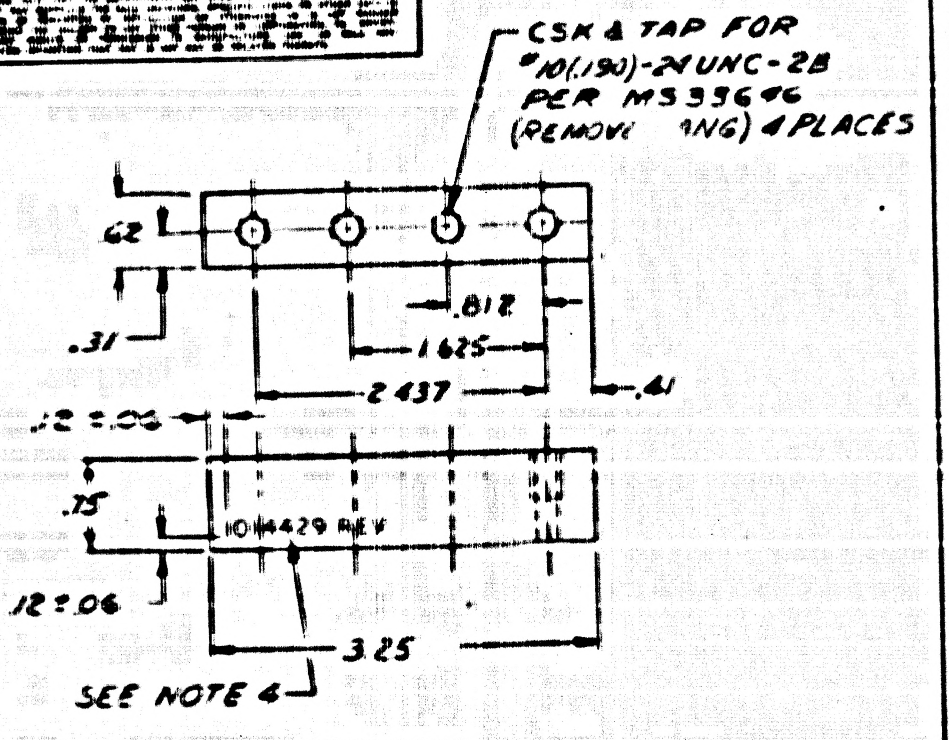
MASTER

1014429

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CLB RELEASED PER TDRR 02137	[illegible]	LK

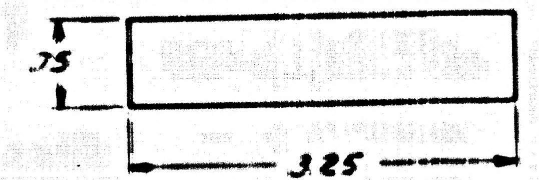


CSK & TAP FOR #10(.190)-24UNC-2B PER MS33696 (REMOVE TANG) 4 PLACES
.62
.31
.812
1.625
2.437
.41
.12 ±.06
.75
1014429 REV
.12 ±.06
3.25
SEE NOTE 4

STOP, DOOR

NOTES
1. MATL 6061-T6 AL PER QQ-A-327
2. BREAK SHARP EDGES.
3. CHROMATE TREAT PER MIL-C-5541
4. MARK .12 HIGH BLACK PER ND 1002019

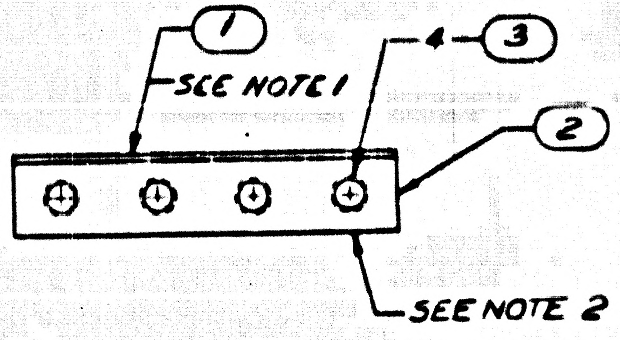
1014429-2



GASKET

NOTES
1. MATL .06 THK RUBBER PER MIL-R-9000

1014429-1



1
SEE NOTE 1
4
3
2
SEE NOTE 2

FOR INFORMATION ONLY
CLASS B RELEASE TDRR 02137 DATE [illegible]

NOTES.
1. ASSEMBLE FIND NO.1 TO FIND NO.2 USING FIND NO.4
2. MARK 1014429 REV , ASSY, .12 HIGH PER ND1002012 ON SURFACE INDICATED

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	MIL-A-5092	CEMENT	4
4	MS21208-C1-20	INSERT, HELICAL COIL	3
1	1014429-2	STOP, DOOR	2
1	1014429-1	GASKET	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO
LEXINGTON, MASS
CONTRACT NO NAS 9-4?5
DRAWN [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

STOP, DOOR
CTS/AGC OPERATION CONSOLE

CODE IDENT NO —
SIZE C
NASA DRAWING NO 1014429
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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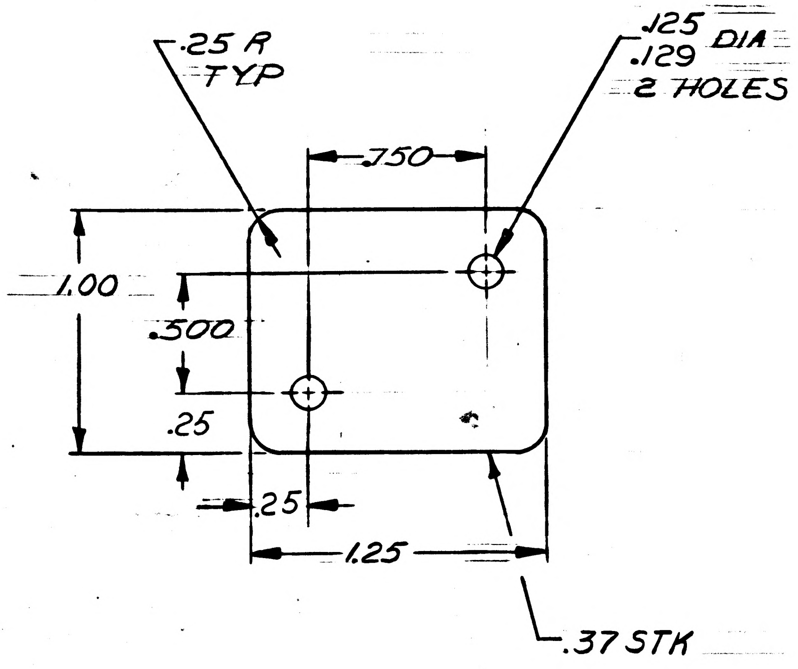
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR 04137	10-24-63	WH



FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO 04137 DATE 10/24/63

NOTES:

1. MATL: POLYAMIDE PLASTIC (NYLON) PER MIL-P-17091B, TYPE II
2. IDENTIFY PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

MASTER

NEXT ASSY	USED ON
1014468	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 .03 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P.D. Glenn DATE 22JUN63
CHECKED A.J. Marinaro 30SEP63
APPROVAL E. Sperling JKK
APPROVAL
APPROVAL 10/24/63
NASA APPROVAL 10/24/63
MIT APPROVAL 24Oct63
MIT APPROVAL 10/22/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BLOCK, STRIKER
CTS/AGC OPERATION CONSOLE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014431
SCALE 2/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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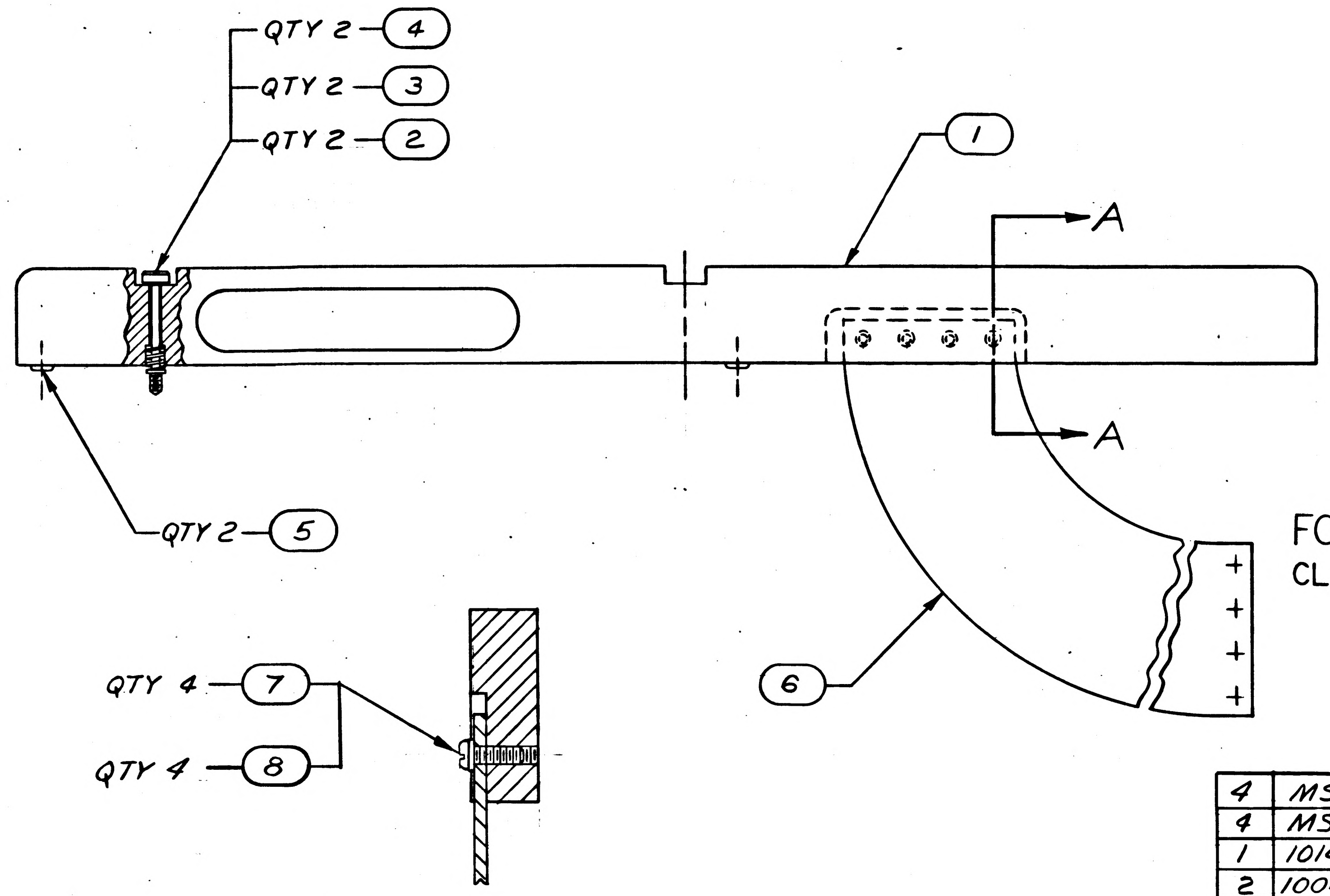
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04137	10/24/63	WL



SECTION A-A
SCALE 1/1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 04137 DATE 10/24/63

NOTES:

1. MARK APPLICABLE REV PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
4	MS15795-307	WASHER, FLAT	8
4	MS35216-41	SCREW, PAN. HD.	7
1	1014430	GUIDE, DOOR	6
2	1006661	PLUG, GUIDE	5
2	1015828	SPRING, COMPRESSION	4
2	1015829	WASHER, RETAINNING	3
2	1015830	SCREW, THUMB	2
1	1014396-1	HANDLE, LEFT	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014468	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±

DO NOT SCALE THIS DRAWING

MATERIAL

HEAT TREATMENT

FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498

DRAWN R.C. Taylor DATE 31 July 63
CHECKED 30 SEP 63
APPROVAL E. Sperling
APPROVAL 10/14/63
APPROVAL 10/14/63
NASA APPROVAL 10/24/63
MIT APPROVAL 24 Oct 63
MIT APPROVAL 10/24/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE ASSY LEFT
CTS/AGC OPERATION CONSOLE

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	C	1014432

SCALE 1/2 WT SHEET 1 OF 1

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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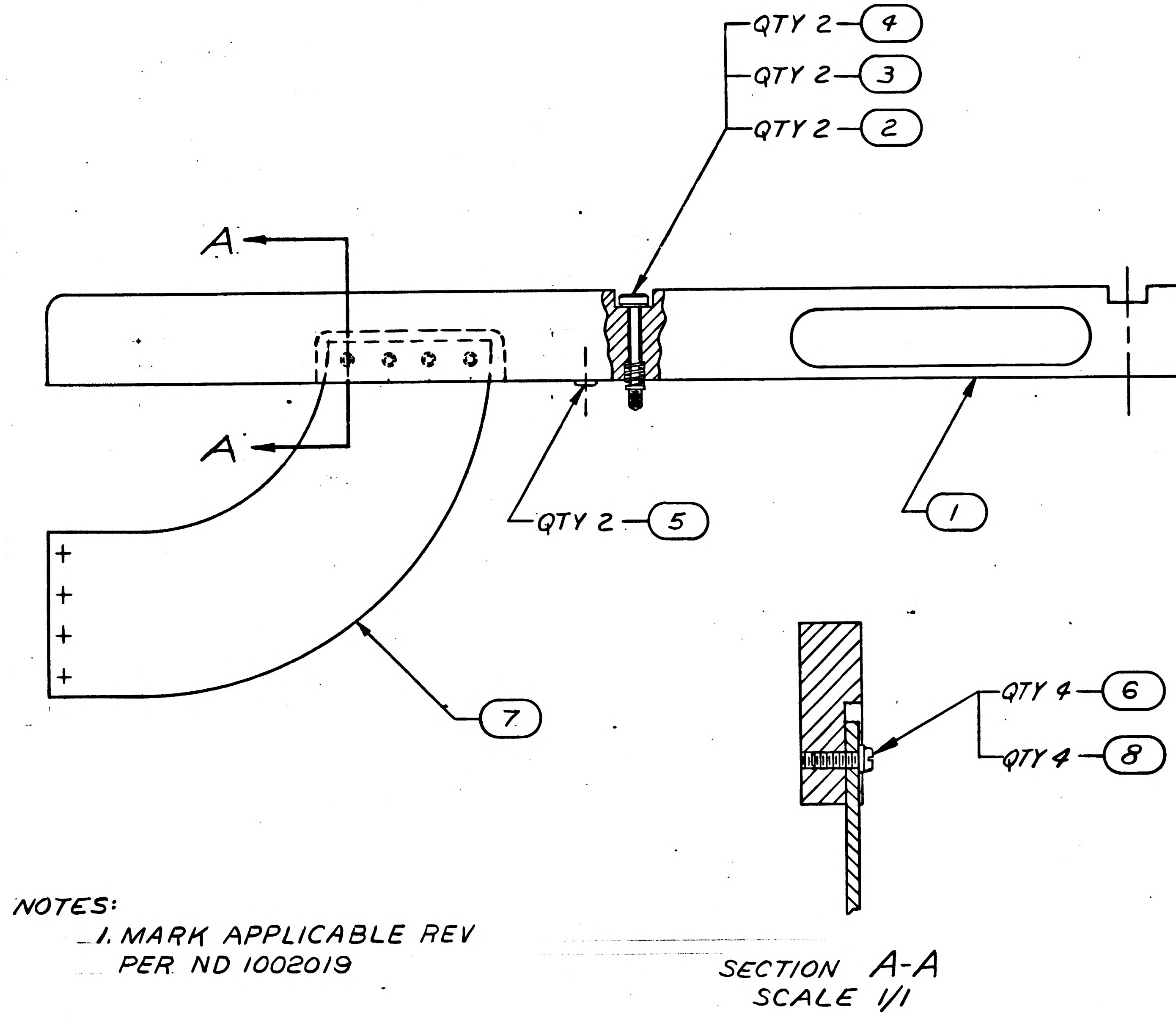
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04137	10/24/63	WK



SECTION A-A
SCALE 1/1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 04137 DATE 10/24/63

NOTES:
1. MARK APPLICABLE REV PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
4	MS15795-307	WASHER, FLAT	8
1	1014430	GUIDE, DOOR	7
4	MS35216-41	SCREW, PAN. HD	6
2	1006661	PLUG, GUIDE	5
2	1015828	SPRING, COMPRESSION	4
2	1015829	WASHER, RETAINING	3
2	1015830	SCREW, THUMB	2
1	1014396-2	HANDLE, RIGHT	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014468	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN R.C. Tyler DATE 31 July 63
CHECKED A.J. Marinaro 30 SEP 63
APPROVAL C Spelin JK
APPROVAL [illegible]
APPROVAL [illegible] 10/24/63
NASA APPROVAL [illegible] 10/24/63
MIT APPROVAL W Kupfer 24 Oct 63
MIT APPROVAL [illegible] 10/24/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE ASSY RIGHT
CTS/AGC OPERATION CONSOLE

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	C	1014433

SCALE 1/2 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

INCHES
0 1 2
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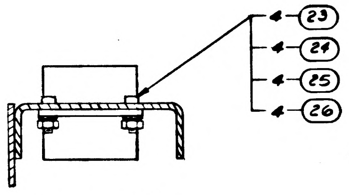
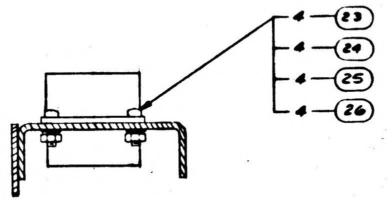
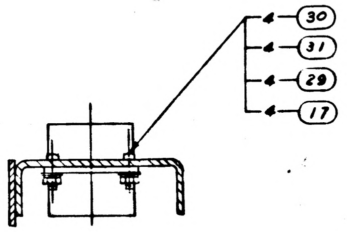
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR C455	[illegible] 63	WK
A	CL II CHANGE PER RDR 5605A DR J Manning CHK W. J. Giffin APPD [illegible]	3 JAN 64	[illegible]
B	CLASS III CHANGE PER TDRR 06754 DR [illegible] CHK [illegible] APPD [illegible]	11 MAR 64	[illegible]



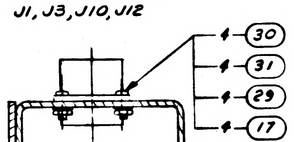
SECTION B-B
SCALE 1/1
TYP 24 SHELL SIZE
J4, J5, J6, J7, J11



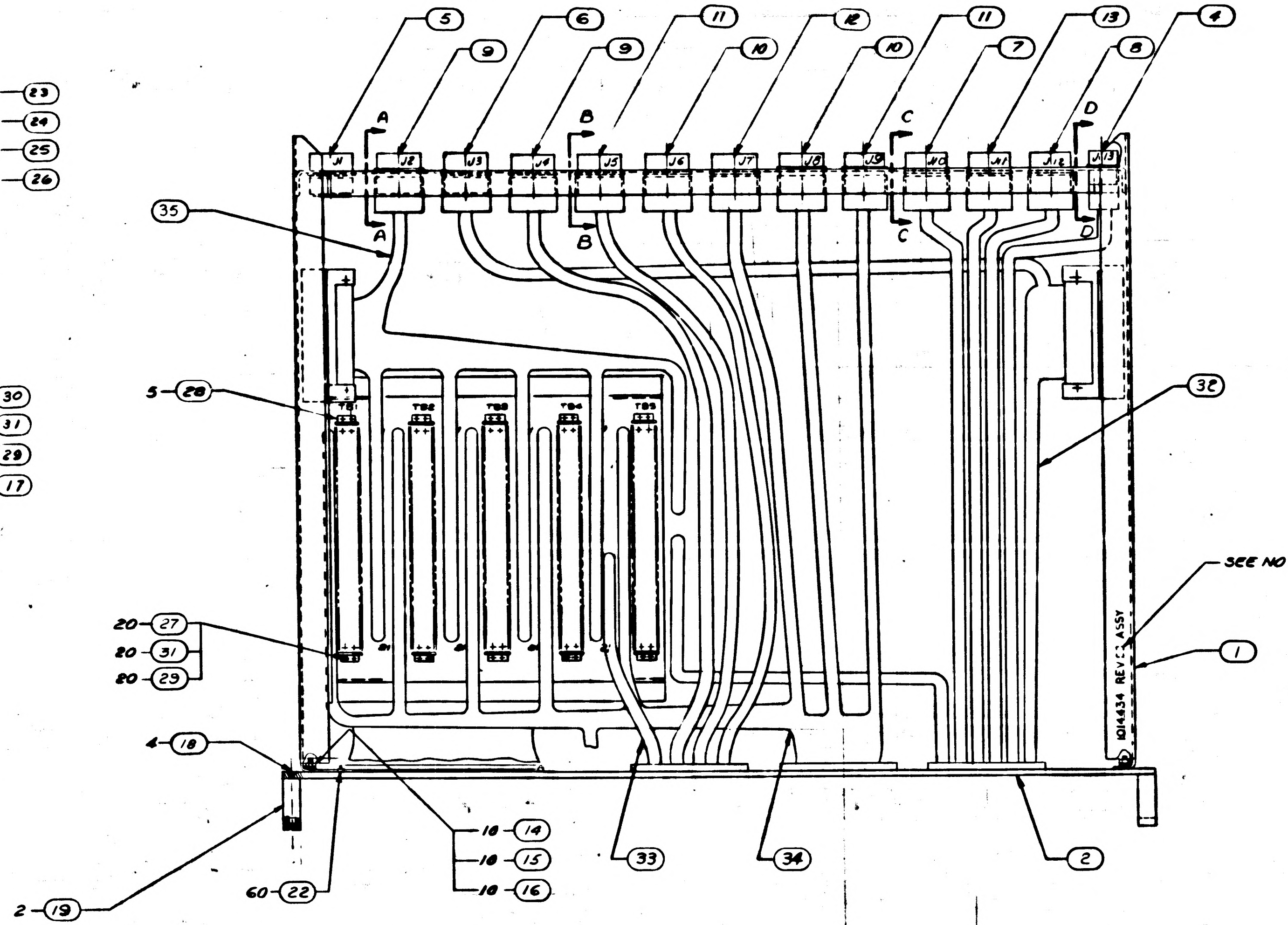
SECTION A-A
SCALE 1/1
TYP 24 SHELL SIZE
J2, J8, J9



SECTION C-C
SCALE 1/1
TYP 22 SHELL SIZE
J1, J3, J10, J12



SECTION D-D
SCALE 1/1
TYP 16 SHELL SIZE
J13



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. C455 DATE 24 Oct 63

NOTES
1. MARK APPLICABLE REV NO. PER ND1002019
2. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1020100	SCHEMATIC JUNCTION BOX (MAIN)	REF
☒	1020117	SCHEMATIC JUNCTION BOX (PCM)	REF
☒	1020126	SCHEMATIC JUNCTION BOX (ND)	REF
☒	1020127	SCHEMATIC JUNCTION BOX (MD)	REF
1	1020125	HARNESS JUNCTION BOX (MD)	35
1	1020103	HARNESS JUNCTION BOX (MAIN)	34
1	1020116	HARNESS JUNCTION BOX (PCM)	33
1	1020124	HARNESS JUNCTION BOX (ND)	32
40	MS15795-303	WASHER, FLAT	31
20	MS35216-16	SCREW, MACH PAN HD	30
40	MS35337-78	WASHER, LOCK	29
5	1006678-1	TERMINAL BOARD	28
20	MS35234-18	SCREW, MACH PAN HD	27
32	MS35649-64	NUT, PLAIN, HEX	26
32	MS35337-79	WASHER, LOCK	25
32	MS15795-305	WASHER, FLAT	24
32	MS35234-29	SCREW, MACH, PAN HD	23
60	1006681-A3	JACK, TIP	22
~~1~~	~~1020062~~	~~PLATE, MOUNTING, CONNECTOR~~	~~21~~
~~1~~	~~MS25036-5~~	~~TERMINAL, LUG, CRIMP STYLE~~	~~20~~
2	1014439	HANDLE ASSY	19
4	MS35200-42	SCREW, FLAT HD	18
20	MS35649-44	NUT, PLAIN HEX	17
10	MS35337-80	WASHER, LOCK	16
10	MS15795-307	WASHER, FLAT	15
10	MS35649-84	NUT, HEX, PLAIN	14
1	MS3119E-24-61W	CONNECTOR, RECEPTICAL	13
1	MS3119E-24-61	CONNECTOR, RECEPTICAL	12
2	MS3119E-24-61X	CONNECTOR, RECEPTICAL	11
2	MS3119E-24-61Y	CONNECTOR, RECEPTICAL	10
2	MS3119E-24-61Z	CONNECTOR, RECEPTICAL	9
1	MS3119E-22-55	CONNECTOR, RECEPTICAL	8
J	MS3119E-22-55W	CONNECTOR, RECEPTICAL	7
1	MS3119E-22-55X	CONNECTOR, RECEPTICAL	6
1	MS3119E-22-55Y	CONNECTOR, RECEPTICAL	5
1	MS3119E-16-8	CONNECTOR, RECEPTICAL	4
~~1~~	~~MS55179-10SNX~~	~~CONNECTOR, RECEPTICAL~~	~~3~~
1	1014436	PANEL, JUNCTION BOX	2
1	1014435	CHASSIS, ELECTRICAL EQUIPMENT	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN C. Ventura DATE 1 AUG 63
CHECKED [illegible] 27 SEPT 63
APPROVAL H. Moore [illegible] 14 OCT 63
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

JUNCTION BOX ASSY

CODE IDENT NO —
SIZE J
NASA DRAWING NO. 1014434
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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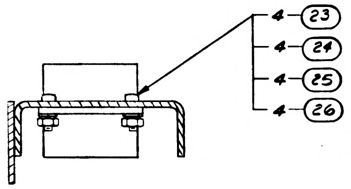
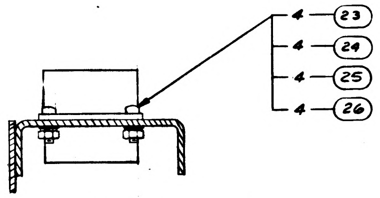
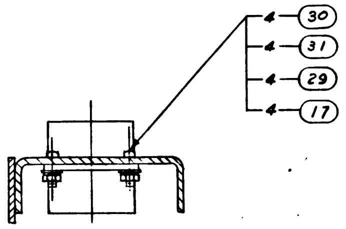
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 0455	63	



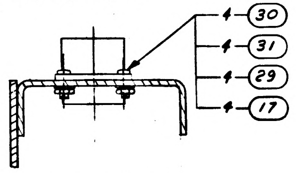
SECTION B-B
SCALE 1/1
TYP 24 SHELL SIZE
J4, J5, J6, J7, J11



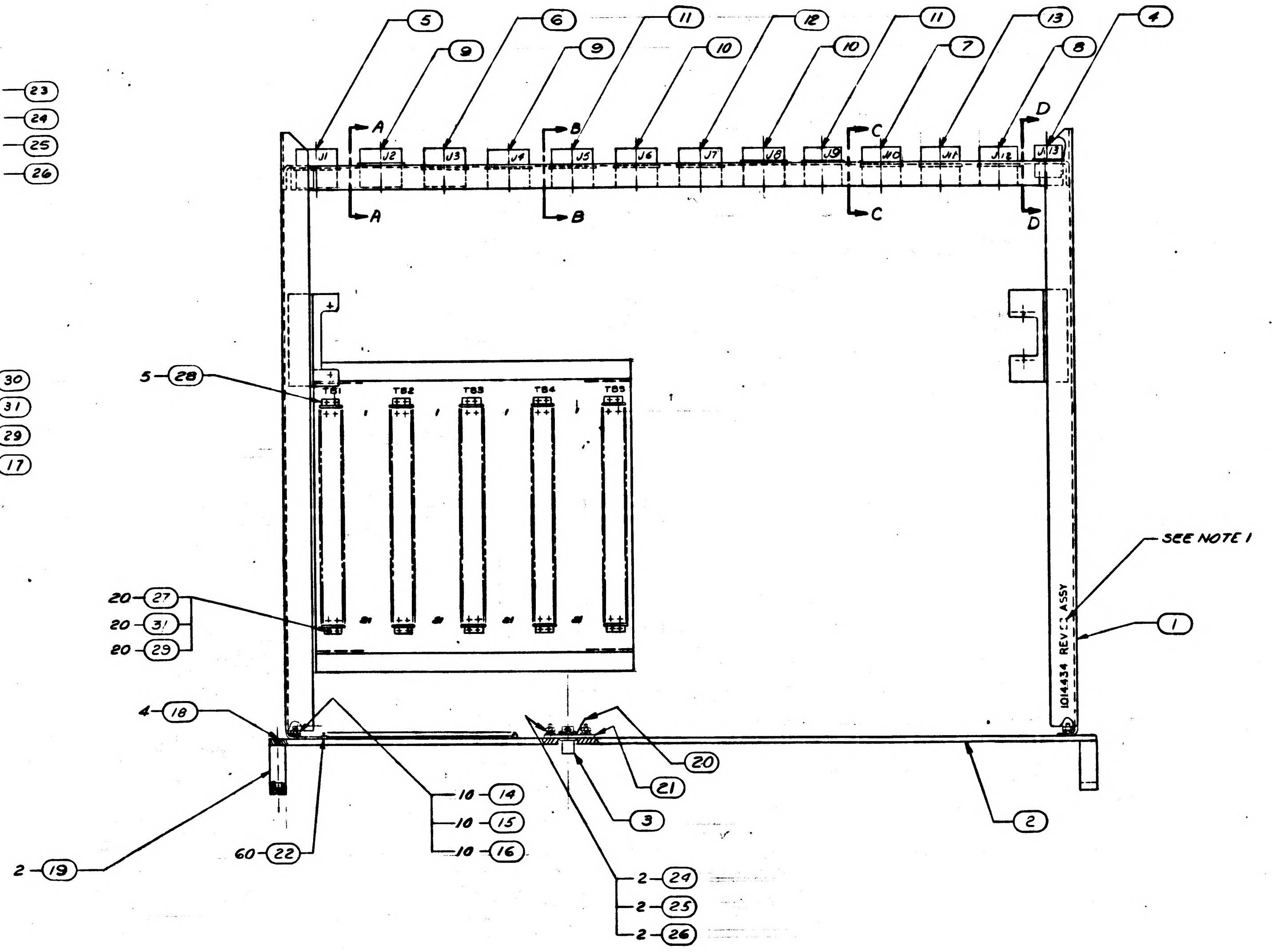
SECTION A-A
SCALE 1/1
TYP 24 SHELL SIZE
J2, J8, J9



SECTION C-C
SCALE 1/1
TYP 22 SHELL SIZE
J1, J3, J10, J12



SECTION D-D
SCALE 1/1
TYP 16 SHELL SIZE
J13



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04138 DATE 24 Oct 63

NOTES
1. MARK APPLICABLE REV NO. PER ND1002019
2. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
40	MS15795-303	WASHER, FLAT	31
20	MS35216-16	SCREW, MACH PAN HD	30
40	MS35337-78	WASHER, LOCK	29
5	1006678	TERMINAL BOARD	28
20	MS35234-18	SCREW, MACH PAN HD	27
34	MS35649-64	NUT, PLAIN, HEX	26
34	MS35337-79	WASHER, LOCK	25
34	MS15795-305	WASHER, FLAT	24
32	MS35234-29	SCREW, MACH, PAN HD	23
60	1006681	JACK, TIP	22
1	1020062	PLATE, MOUNTING, CONNECTOR	21
1	MS25036-5	TERMINAL, LUG, CRIMP STYLE	20
2	1014439	HANDLE ASSY	19
4	MS35200-42	SCREW, FLAT HD	18
20	MS35649-44	NUT, PLAIN HEX	17
10	MS35337-80	WASHER, LOCK	16
10	MS15795-307	WASHER, FLAT	15
10	MS35649-84	NUT, HEX, PLAIN	14
1	MS3119E-24-61W	CONNECTOR, RECEPTICAL	13
1	MS3119E-24-61	CONNECTOR, RECEPTICAL	12
2	MS3119E-24-61X	CONNECTOR, RECEPTICAL	11
2	MS3119E-24-61Y	CONNECTOR, RECEPTICAL	10
2	MS3119E-24-61Z	CONNECTOR, RECEPTICAL	9
1	MS3119E-22-55	CONNECTOR, RECEPTICAL	8
1	MS3119E-22-55W	CONNECTOR, RECEPTICAL	7
1	MS3119E-22-55X	CONNECTOR, RECEPTICAL	6
1	MS3119E-22-55Y	CONNECTOR, RECEPTICAL	5
1	MS3119E-16-8	CONNECTOR, RECEPTICAL	4
1	MS35179-1094A	CONNECTOR, RECEPTICAL	3
1	1014436	PANEL, JUNCTION BOX	2
1	1014435	CHASSIS, ELECTRICAL EQUIPMENT	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 1 AUG 63
CHECKED 27 SEPT 63
APPROVAL 19 OCT 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

JUNCTION BOX ASSY

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014434
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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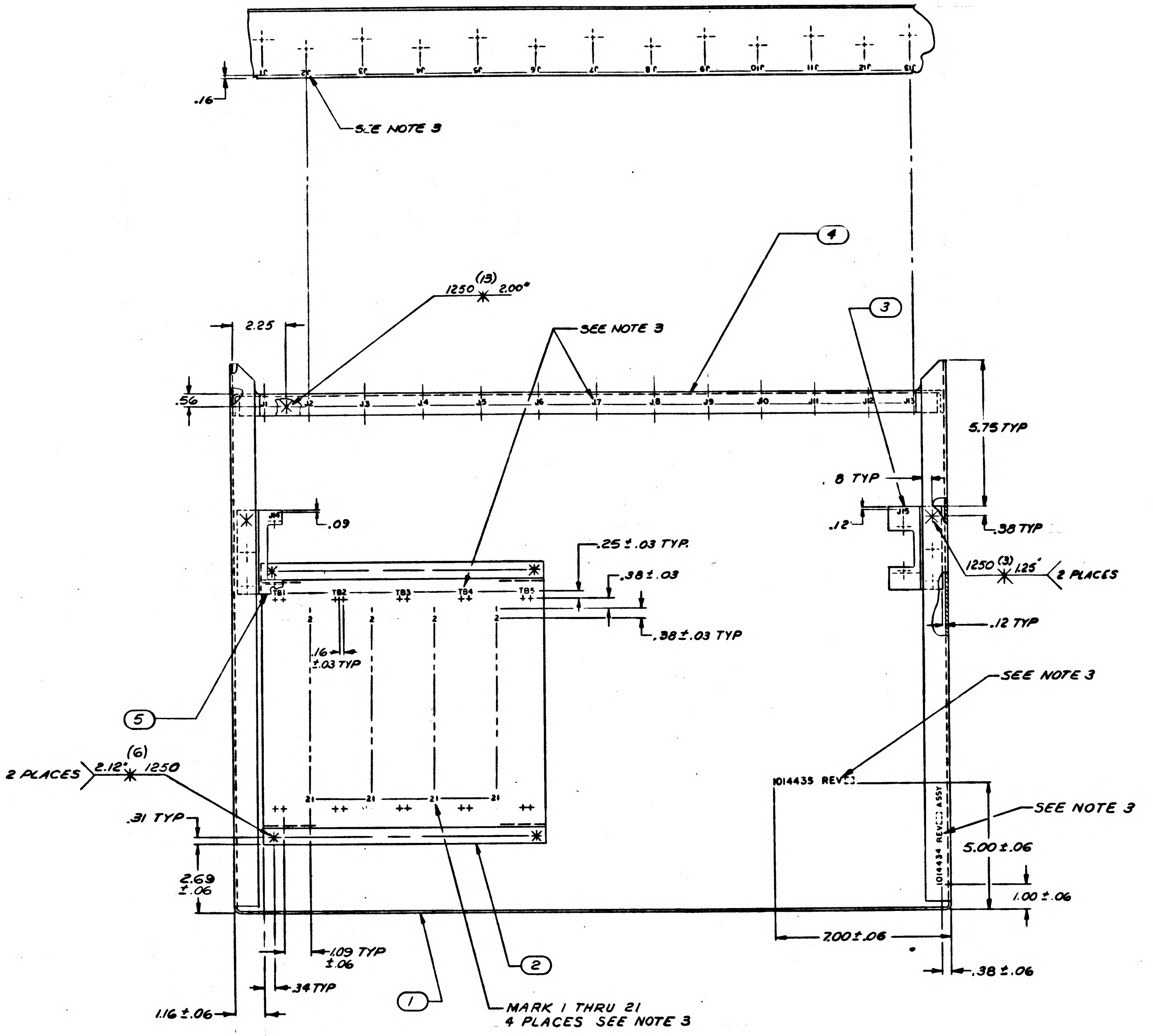
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04138		


.16
SEE NOTE 3
1250 (13) 2.00°
2.25
SEE NOTE 3
4
3
.56
J1 J2 J3 J4 J5 J6 J7 J8 J9 J10 J11 J12 J13
5.75 TYP
.8 TYP
.12
.09
.38 TYP
1250 (3) .125 2 PLACES
.25±.03 TYP.
.38±.03
.38±.03 TYP
TB1 TB2 TB3 TB4 TB5
.16 ±.03 TYP
.12 TYP
SEE NOTE 3
5
2 PLACES 2.12 (6) 1250
1014435 REV
SEE NOTE 3
.31 TYP
1014434 REV ASSY
5.00±.06
2.69 ±.06
1.00±.06
7.00±.06
.38±.06
1.09 TYP ±.06
.34 TYP
1.16±.06
1
2
MARK 1 THRU 21 4 PLACES SEE NOTE 3

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04138 DATE 24 Oct 63

REV STATUS OF PARTS	
PART NO	REV SYMBOL
1014435-1	—
1014435-2	—
1014435-3	—
1014435-4	—
1014435-5	—

—	—	—
SH 1	SH 2	SH 3

REV STATUS OF SHEETS

NOTES
1. WELD PER MIL-W-6858
2. CHROMATE TREAT PER MIL-C-5541
3. MARK .12 HIGH BLACK CHARACTERS PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
20	1006989-7	NUT, SELF-CLINCHING	6
1	1014435-5	BRKT, CONNECTOR	5
1	1014435-4	BRKT, CONNECTOR, REAR	4
1	1014435-3	BRKT, CONNECTOR	3
1	1014435-2	BRKT, TERMINAL BOARD	2
1	1014435-1	CHASSIS	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014434	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO. NAS 9-498
DRAWN DATE 26 July 63
CHECKED 30 Sept 63
APPROVAL 1 Oct 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

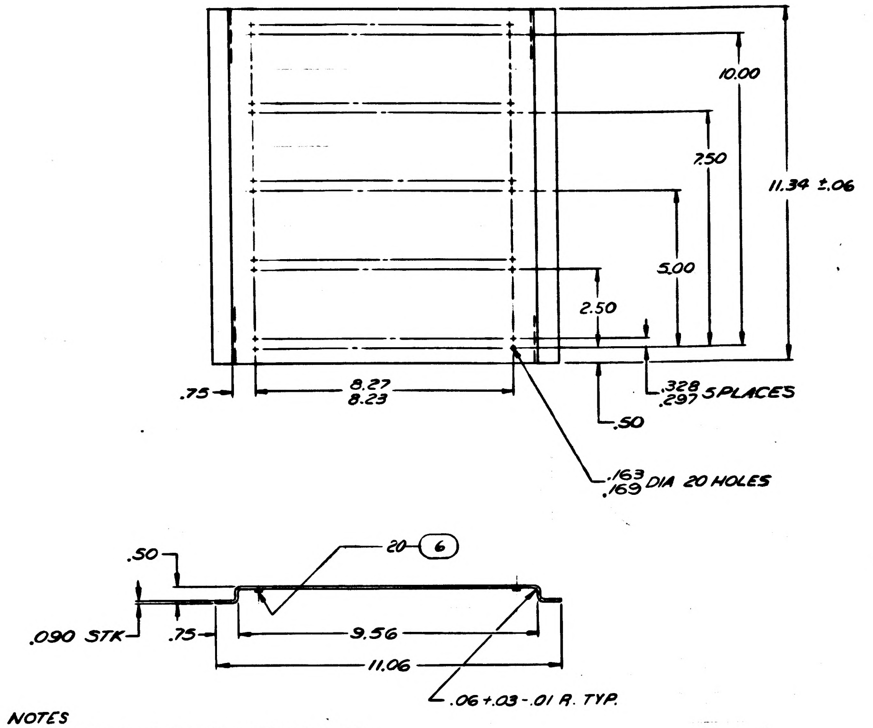
CHASSIS, ELECTRICAL EQUIPMENT
JUNCTION BOX

CODE IDENT NO. —— SIZE J NASA DRAWING NO 1014435
SCALE 1/2 WT SHEET 1 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

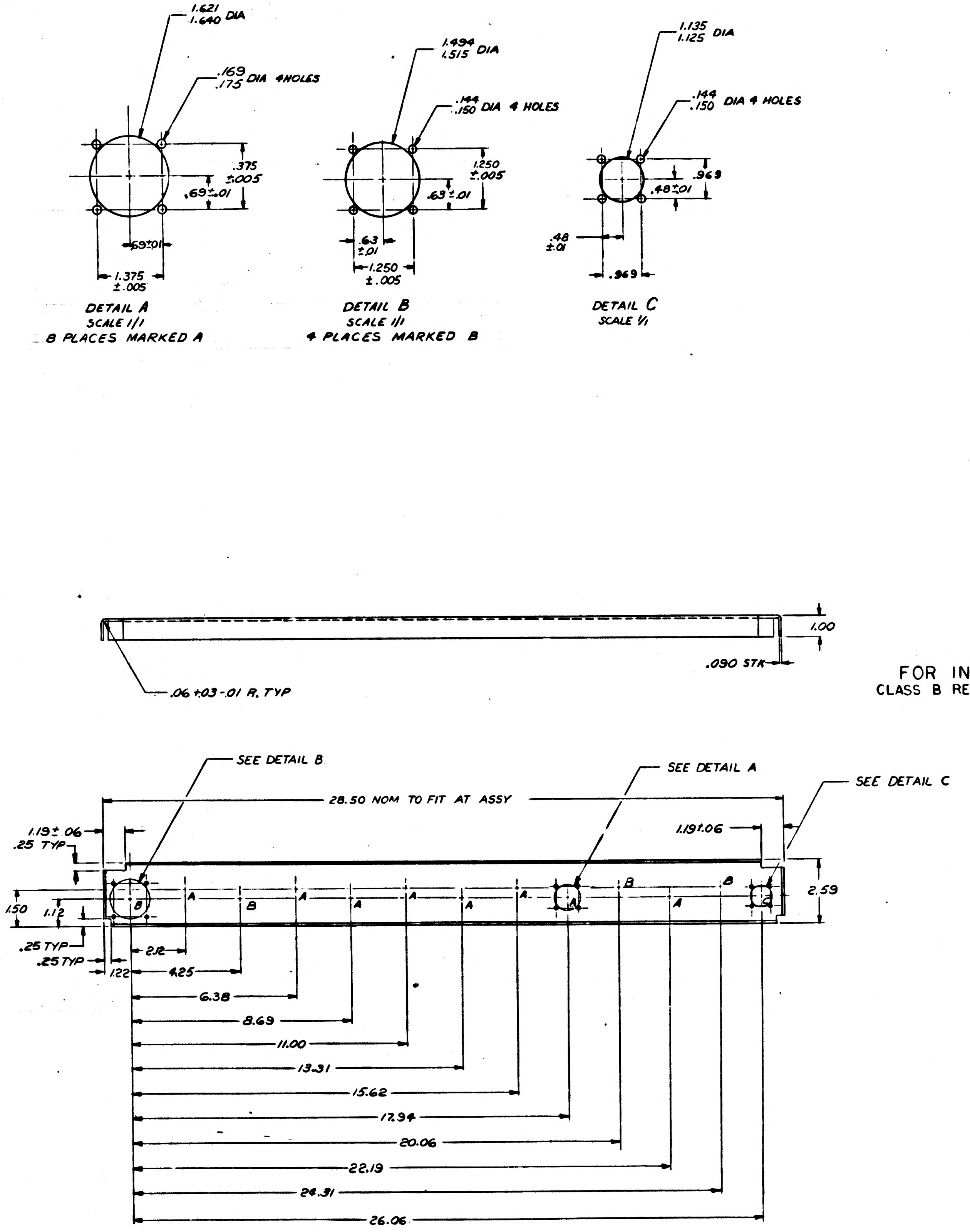
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 04135	Feb 63	



10.00
7.50
11.34 ±.06
5.00
2.50
.75
8.27
8.23
.328
.297 5 PLACES
.50
.163
.169 DIA 20 HOLES
.50
20-⑥
.090 STK
.75
9.56
11.06
.06+.03-.01 R. TYP.

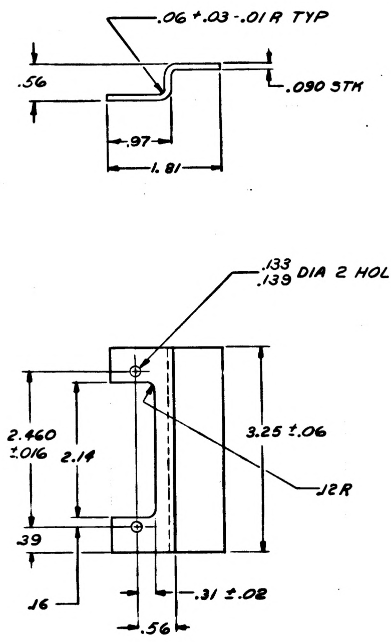
NOTES
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. SCALE 1/2
4. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES

BRACKET, TERMINAL BOARD
1014435-2



1.621
1.640 DIA
.169
.175 DIA 4 HOLES
.375
±.005
.69±.01
.69±.01
1.375
±.005
DETAIL A
SCALE 1/1
8 PLACES MARKED A
1.494
1.515 DIA
.144
.150 DIA 4 HOLES
1.250
±.005
.63±.01
.63
±.01
1.250
±.005
DETAIL B
SCALE 1/1
4 PLACES MARKED B
1.135
1.125 DIA
.144
.150 DIA 4 HOLES
.969
.48±.01
.48
±.01
.969
DETAIL C
SCALE 1/1
1.00
.090 STK
.06+.03-.01 R. TYP
SEE DETAIL B
SEE DETAIL A
SEE DETAIL C
28.50 NOM TO FIT AT ASSY
1.19±.06
.25 TYP
1.19±.06
1.50
1.12
2.59
.25 TYP
.25 TYP
.122
2.12
4.25
6.38
8.69
11.00
13.31
15.62
17.94
20.06
22.19
24.31
26.06
A
B

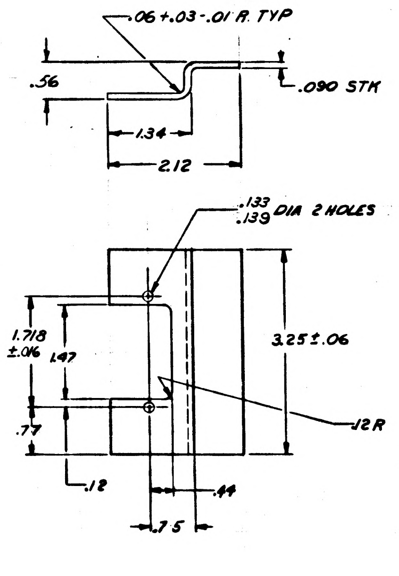
FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04135 DATE 24 Oct 63



.06+.03-.01 R TYP
.56
.090 STK
.97
1.81
.133
.139 DIA 2 HOLES
2.460
±.016
2.14
3.25±.06
.12R
.39
.16
.31±.02
.56

NOTES
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. SCALE 1/1

BRACKET, CONNECTOR
1014435-5



.06+.03-.01 R. TYP
.56
.090 STK
1.34
2.12
.133
.139 DIA 2 HOLES
1.718
±.06
1.47
3.25±.06
.77
.12R
.12
.44
.75

NOTES
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. SCALE: 1/1

BRACKET, CONNECTOR
1014435-3

NOTES
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. SCALE 1/2

BRACKET, CONNECTOR, REAR
1014435-4

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014434	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 29 Aug 63
CHECKED 30 SEPT 63
APPROVAL 14 OCT 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CHASSIS, ELECTRICAL EQUIPMENT
JUNCTION BOX

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014435
SCALE NOTED
WT
SHEET 2 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014435

INCHES
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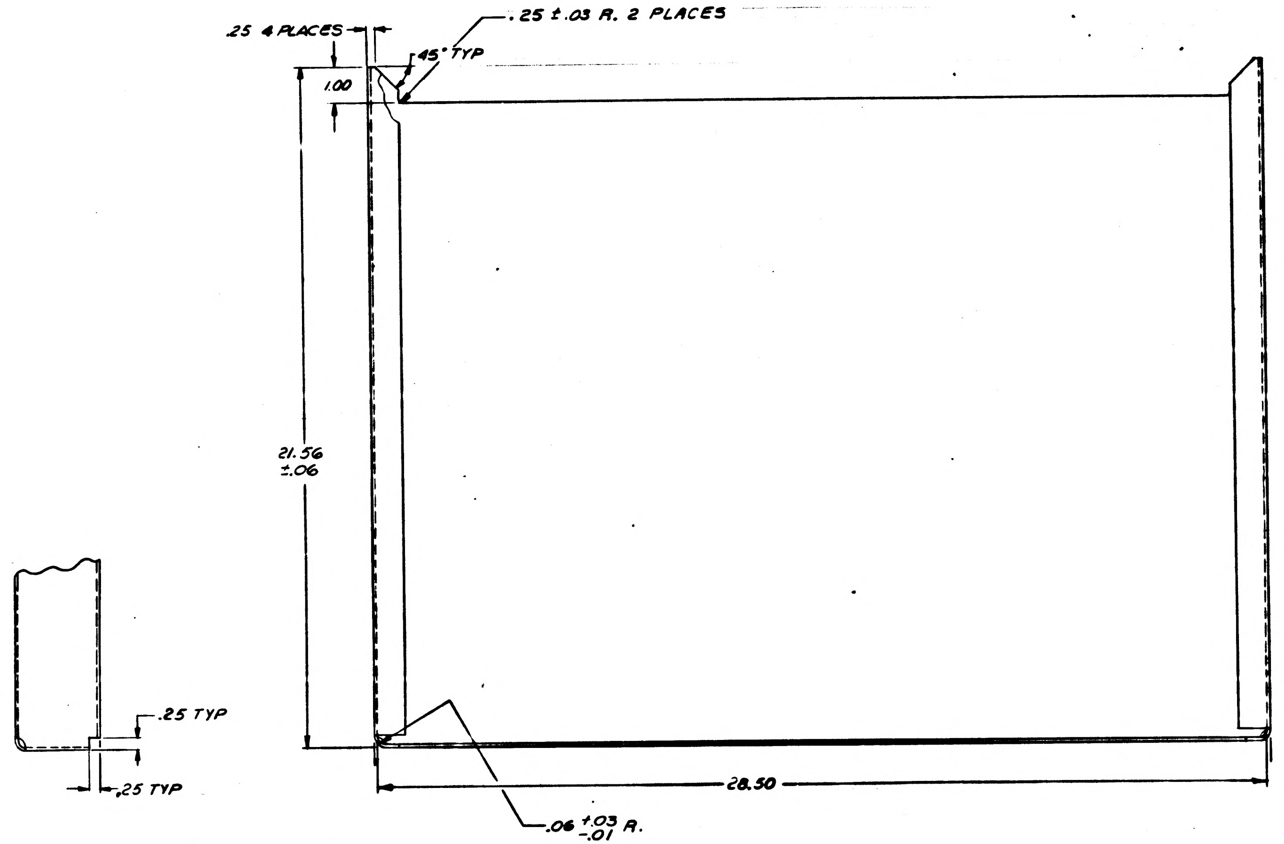
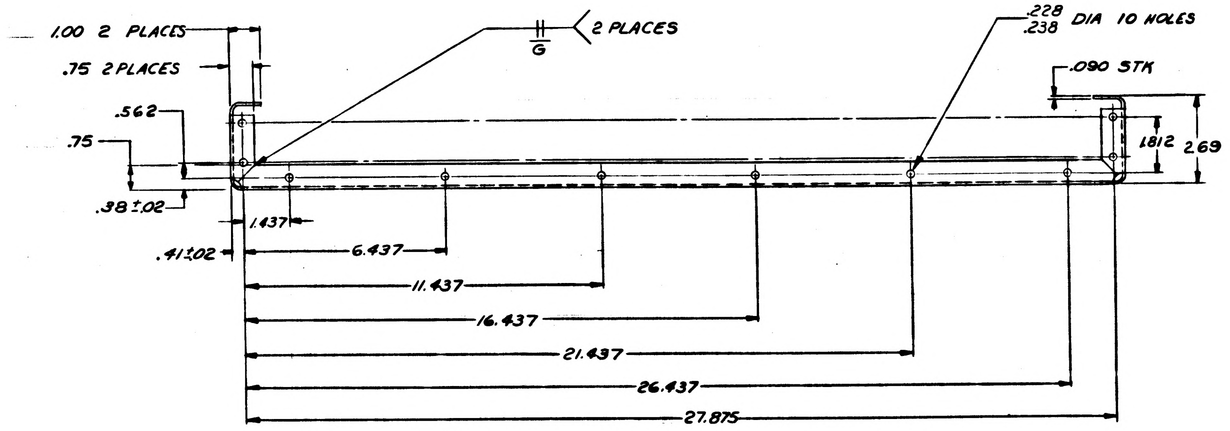
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 24138	24 Oct 63	





FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 24138 DATE 24 Oct 63

NOTES
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS AND SHARP EDGES
3. WELD PER MIL-W-8604

CHASSIS
1014435-1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014434	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±.016 ±.03
ANGLES ±2°0'
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 20 May 63
CHECKED [illegible] 23 Sept 63
APPROVAL [illegible] 14 Oct 63
APPROVAL [illegible] 10/14/63
APPROVAL [illegible] 10/14/63
NASA APPROVAL [illegible] 10/24/63
MIT APPROVAL [illegible] 24 Oct 63
MIT APPROVAL [illegible] 10/10/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

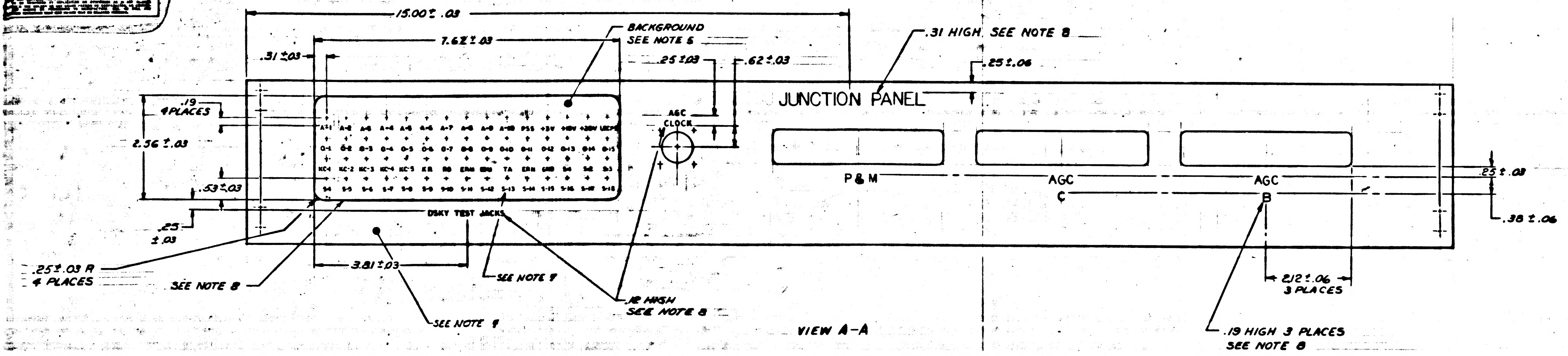
CHASSIS, ELECTRICAL EQUIPMENT
JUNCTION BOX

CODE IDENT NO. ———
SIZE J
NASA DRAWING NO. 1014435
SCALE 1/2
WT
SHEET 3 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

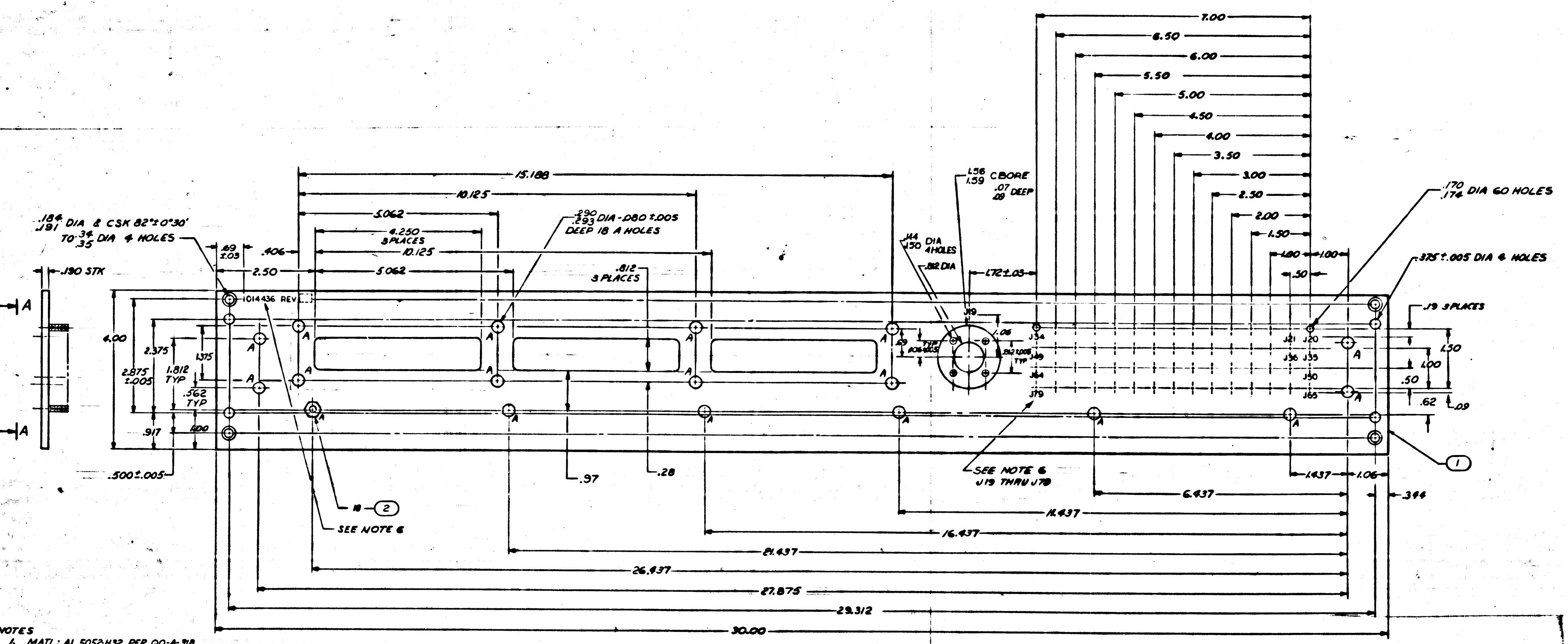
INCHES
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION 04158	DATE	APPROVED
—	TDRR 04158	24 Oct 63	
A	CLASS II CHANGE PER RDR5625 DR R & Ream CHK APPD	22 DEC 63	
B	CHANGED PER TDRR 08876 DR CHK APPD	3 June 64	KCO


15.00 ± .03
7.62 ± .03
.31 ± .03
BACKGROUND SEE NOTE 5
.25 ± .03
.62 ± .03
.31 HIGH SEE NOTE 8
.25 ± .06
JUNCTION PANEL
.19 4 PLACES
2.56 ± .03
.53 ± .03
.25 ± .03
A-1 A-2 A-3 A-4 A-5 A-6 A-7 A-8 A-9 A-10 PSS +3V +10V +28V UECP
O-1 O-2 O-3 O-4 O-5 O-6 O-7 O-8 O-9 O-10 O-11 O-12 O-13 O-14 O-15
KC-1 KC-2 KC-3 KC-4 KC-5 KR RO ERM ENU TA ERN GND S-1 S-2 S-3
S-4 S-5 S-6 S-7 S-8 S-9 S-10 S-11 S-12 S-13 S-14 S-15 S-16 S-17 S-18
DSKY TEST JACKS
AGC CLOCK
P & M
AGC C
AGC B
.25 ± .03
.38 ± .06
3.81 ± .03
.25 ± .03 R 4 PLACES
SEE NOTE 8
SEE NOTE 9
SEE NOTE 7
.12 HIGH SEE NOTE 8
2.12 ± .06 3 PLACES
.19 HIGH 3 PLACES SEE NOTE 8

VIEW A-A

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 04158 DATE 24 Oct 63


.184 .191 DIA & CSK 82° ± 0°30' TO .34 .35 DIA 4 HOLES
.190 STK
A
A
.69 ± .03
.406
2.50
5.062
4.250 3 PLACES
10.125
5.062
10.125
15.188
.290 .293 DIA - .080 ± .005 DEEP 18 A HOLES
.812 3 PLACES
1014436 REV
4.00
2.375
1.375
2.875 ± .005
1.812 TYP
.562 TYP
.917
.500
.500 ± .005
.97
.28
18 ②
SEE NOTE 6
1.56 1.59 CBORE .07 .09 DEEP
.144 .150 DIA 4 HOLES
.812 DIA
.172 ± .03
.106 ± .005 TYP
.812 ± .005 TYP
.06
J19 J34 J49 J64 J79
J21 J20 J36 J35 J50 J65
7.00 6.50 6.00 5.50 5.00 4.50 4.00 3.50 3.00 2.50 2.00 1.50 1.00 1.00 .50
.170 .174 DIA 60 HOLES
.375 ± .005 DIA 4 HOLES
.19 3 PLACES
1.50
1.00
.50
.62
.09
SEE NOTE 6 J19 THRU J79
①
1.437
1.06
.344
6.437
11.437
16.437
21.437
26.437
27.875
29.312
30.00

NOTES
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541, EXCEPT ELECTRICALLY CONDUCTIVE
4. PAINT (FRONT & EDGES) 1 COAT TT-E-529 CLASS B FED-STD-595
COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
5. PAINT 1 COAT TT-E-529, CLASS B, FED-STD-595, COLOR NO. 26251 PER MIL-F-14072, TYPE II
6. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019 (REAR OF PANEL)
7. SILKSCREEN .09 HIGH WHITE CHARACTERS PER ND 1002019 (FRONT OF PANEL)
8. SILKSCREEN BLACK CHARACTERS & .02 WIDE LINE PER ND 1002019 (FRONT OF PANEL)
9. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
~~2~~	~~1006951-006~~	~~STUD, CAPTIVE, SELF-CLINCHING~~	~~3~~
18	1006951-007	STUD, CAPTIVE, SELF-CLINCHING	2
1	1014436-1	PANEL	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014434	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 .02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

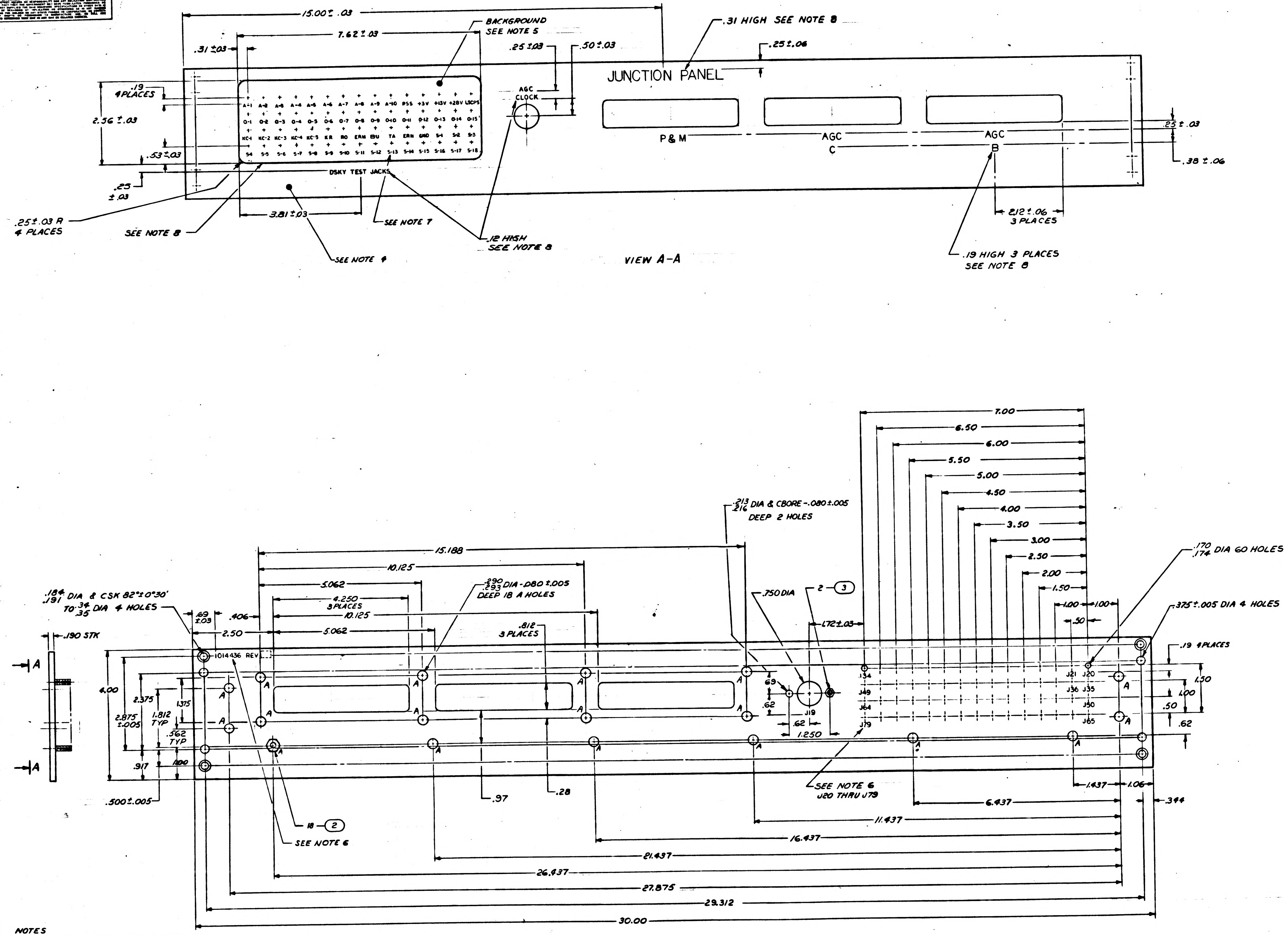
RAYTHEON CO. LEXINGTON, MASS.
CONTRACT NO.
DRAWN DATE
CHECKED
APPROVED 8 OCT 63
APPROVED
NASA APPROVAL
UNIT APPROVAL
UNIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL, FRONT
JUNCTION BOX

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014436
SCALE 1/1
WT
SHEET 1 OF 1

SYM	DESCRIPTION	DATE	APPROVED
	04138 TDRR 04138	240ct63	



15.00 ± .03
7.62 ± .03
.31 ± .03
.19 4 PLACES
2.56 ± .03
.53 ± .03
.25 ± .03
.25 ± .03 R 4 PLACES
SEE NOTE 8
3.81 ± .03
SEE NOTE 4
SEE NOTE 7
.12 HIGH SEE NOTE 8
BACKGROUND SEE NOTE 5
.25 ± .03
.50 ± .03
.31 HIGH SEE NOTE 8
.25 ± .06
JUNCTION PANEL
AGC CLOCK
A-1 A-2 A-3 A-4 A-5 A-6 A-7 A-8 A-9 A-10 PSS +3V +13V +28V LSCPS
0-1 0-2 0-3 0-4 0-5 0-6 0-7 0-8 0-9 0-10 0-11 0-12 0-13 0-14 0-15
KC-1 KC-2 KC-3 KC-4 KC-5 KR RO ERM EBU TA ERN GND S-1 S-2 S-3
S4 S-5 S-6 S-7 S-8 S-9 S-10 S-11 S-12 S-13 S-14 S-15 S-16 S-17 S-18
DSKY TEST JACKS
P & M
AGC C
AGC B
.25 ± .03
.38 ± .06
2.12 ± .06 3 PLACES
.19 HIGH 3 PLACES SEE NOTE 8
VIEW A-A
7.00
6.50
6.00
5.50
5.00
4.50
4.00
3.50
3.00
2.50
2.00
1.50
1.00
1.00
.50
.213/.216 DIA & CBORE - .080 ± .005 DEEP 2 HOLES
15.188
10.125
5.062
4.250 3 PLACES
10.125
5.062
.290/.293 DIA - .080 ± .005 DEEP 18 A HOLES
.812 3 PLACES
.750 DIA
2 - 3
.172 ± .03
.170/.174 DIA 60 HOLES
.375 ± .005 DIA 4 HOLES
.19 4 PLACES
.184/.191 DIA & CSK 82° ± 0°30' TO .34/.35 DIA 4 HOLES
.69 ± .03
.406
2.50
.190 STK
A
A
1014436 REV
4.00
2.375
1.812 TYP
1.375
2.875 ± .005
.562 TYP
.917
.100
.69
.62
.62
1.250
J19
J34 J49 J64 J79
J21 J20
J36 J35
J50
J65
1.50
1.00
.50
.62
.500 ± .005
.97
.28
SEE NOTE 6 J20 THRU J79
1.437
1.06
.344
6.437
11.437
16.437
21.437
26.437
27.875
29.312
30.00
18 - 2
SEE NOTE 6

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 04138 DATE 24Oct63

NOTES
1. MATL: AL 5052-H32 PER QQ-A-318
2. REMOVE BURRS & SHARP EDGES
3. CHROMATE TREAT PER MIL-C-5541, EXCEPT ELECTRICALLY CONDUCTIVE
4. PAINT (FRONT & EDGES) 1 COAT TT-E-529 CLASS B FED-STD-595 COLOR NO. 26440 PER MIL-F-14072 P513 TYPE II
5. PAINT 1 COAT TT-E-529, CLASS B, FED-STD-595, COLOR NO. 26251 PER MIL-F-14072, TYPE II
6. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019 (REAR OF PANEL)
7. SILKSCREEN .09 HIGH WHITE CHARACTERS PER ND 1002019 (FRONT OF PANEL)
8. SILKSCREEN BLACK CHARACTERS & .02 WIDE LINE PER ND 1002019 (FRONT OF PANEL)
9. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2	1006951-004	STUD, CAPTIVE, SELF-CLINCHING	3
18	1006951-007	STUD, CAPTIVE, SELF-CLINCHING	2
1	1014436-1	PANEL	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014434	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 .02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO.
DRAWN DATE 9-20-63
CHECKED 21 SEPT 63
APPROVAL 11 OCT 63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL, FRONT
JUNCTION BOX

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014436
SCALE 1/1 WT SHEET 1 OF 1

1014436

1014436

INCHES
PHOTOGRAPHIC SCALE ONLY

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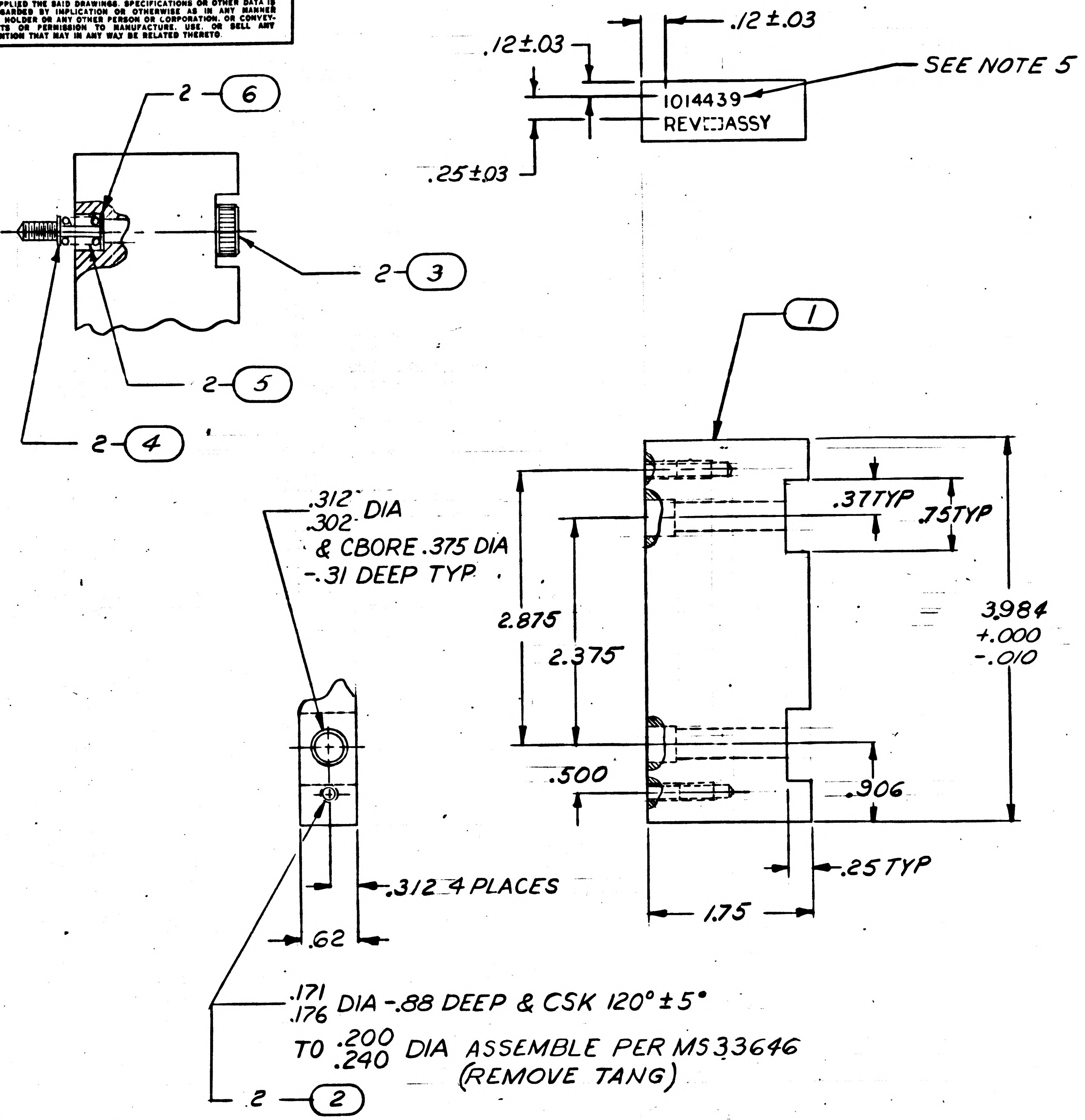
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 04138	24Oct63	



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04138, 24 Oct 63

①

NOTES

1. MATL AL 6061 T6 PER QQ-A-327
2. 125/ SURFACE QUALITY
3. REMOVE BURRS & SHARP EDGES
4. MASK TAPPED HOLES & CLEAR ANODIZE PER MIL-A-8625, TYPE II
5. MARK .12 HIGH BLACK CHARACTERS PER ND1002019
6. NUMBERS PRECEDING BALLOONS INDICATES QUANTITY

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2	1006851-2	WASHER, RETAINING	6
2	1006850	SPRING - COMPRESSION	5
2	1006851-1	WASHER, RETAINING	4
2	1006852	SCREW - THUMB	3
2	MS21209C0820	INSERT, THREADED	2
1	1014439-1	HANDLE	1

LIST OF MATERIALS

1014434	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±.005 ±.02
ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN G. Antosca DATE 30 July 63
CHECKED David Conley 27 SEPT. 63
APPROVAL H. Morse JPK 14 OCT 63
APPROVAL [illegible] 10/14/63
APPROVAL [illegible] 10/14/63
NASA APPROVAL [illegible] 24 Oct 63
MIT APPROVAL W. [illegible] 24 Oct 63
MIT APPROVAL D. Scolamiero 10/22/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE ASSY
JUNCTION BOX

CODE IDENT NO. —— SIZE C NASA DRAWING NO. 1014439
SCALE 1/1 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014439

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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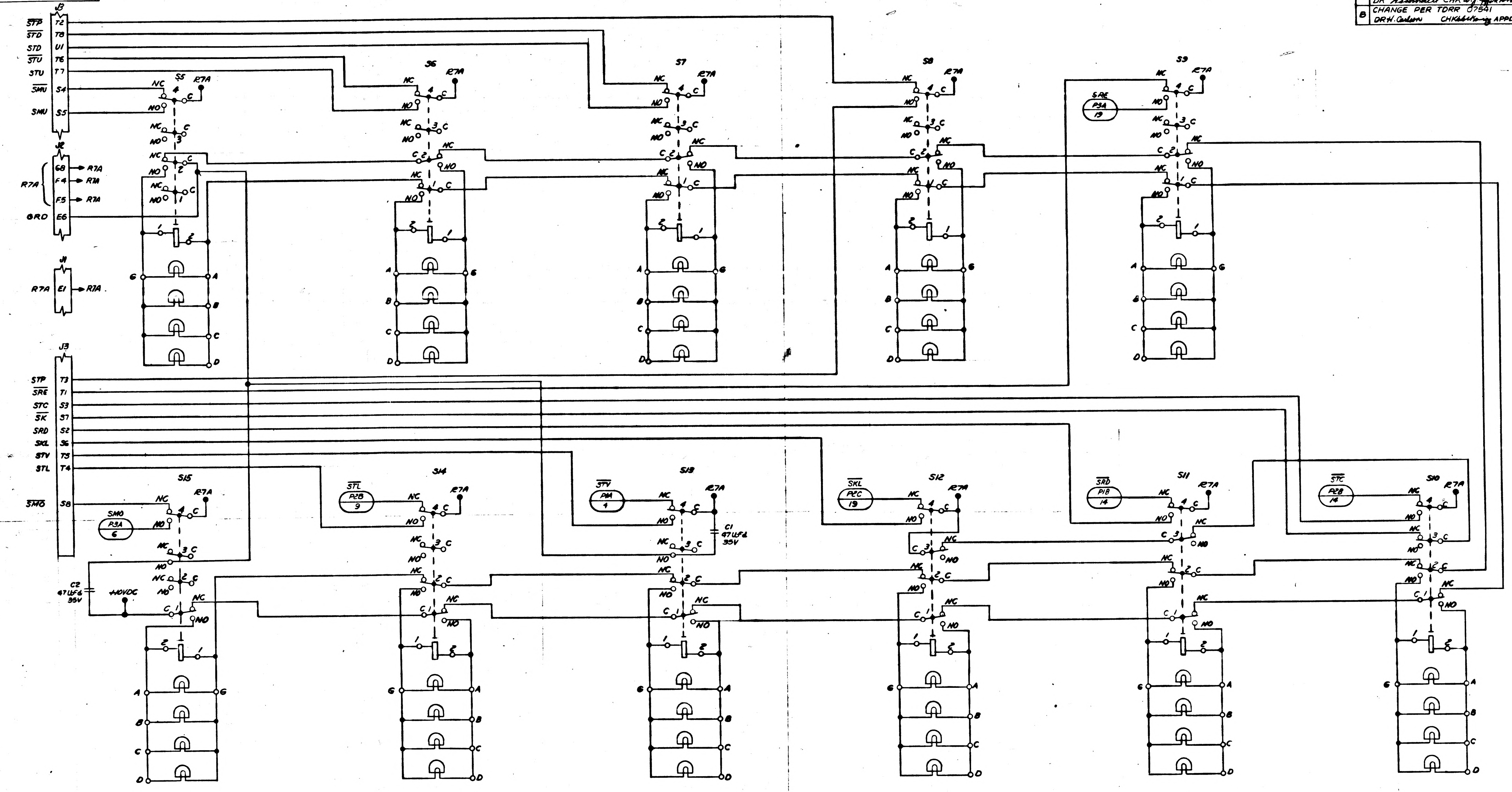
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PEP TDRR 03835		
A	CLASS II CHANGE PER RD-R5668C DR H. Swindell CHK W. J. Gifford APPD	21 JAN 64	JJB
B	CHANGE PER TDRR 07541 DR H. Carlson CHK APPD	16 APR 64	KCB



J3
STP T2
STD T8
STD U1
STU T6
STU T7
SMU S4
SMU S5
J2
R7A
68 → R7A
F4 → R7A
F5 → R7A
GRD E6
J1
R7A E1 → R7A
J3
STP T3
SRE T1
STC S3
SK S7
SRD S2
SKL S6
STV T5
STL T4
SMO S8
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
R7A
NC
NO
C
A
B
C
D
G
SRE P3A 19
SMO P3A 6
STL P2B 9
STV P1A 4
SKL P2C 19
SRD P1B 14
STC P2B 14
C1 47 UF 6 35V
C2 47 UF 6 35V
+40VDC

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03835 DATE 1/7/63

B	B	B
A	A	A
—	—	—
SH 1	SH 2	SH 3

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014143	1014309
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APPLICATION	

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TOLERANCES ON
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED A. G. 12 Aug 63
APPROVAL C. 30 Sept 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER TEST SET
PROGRAMMER AND MONITOR FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014440
SCALE NONE
WT
SHEET 1 OF 3

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014440

1014440

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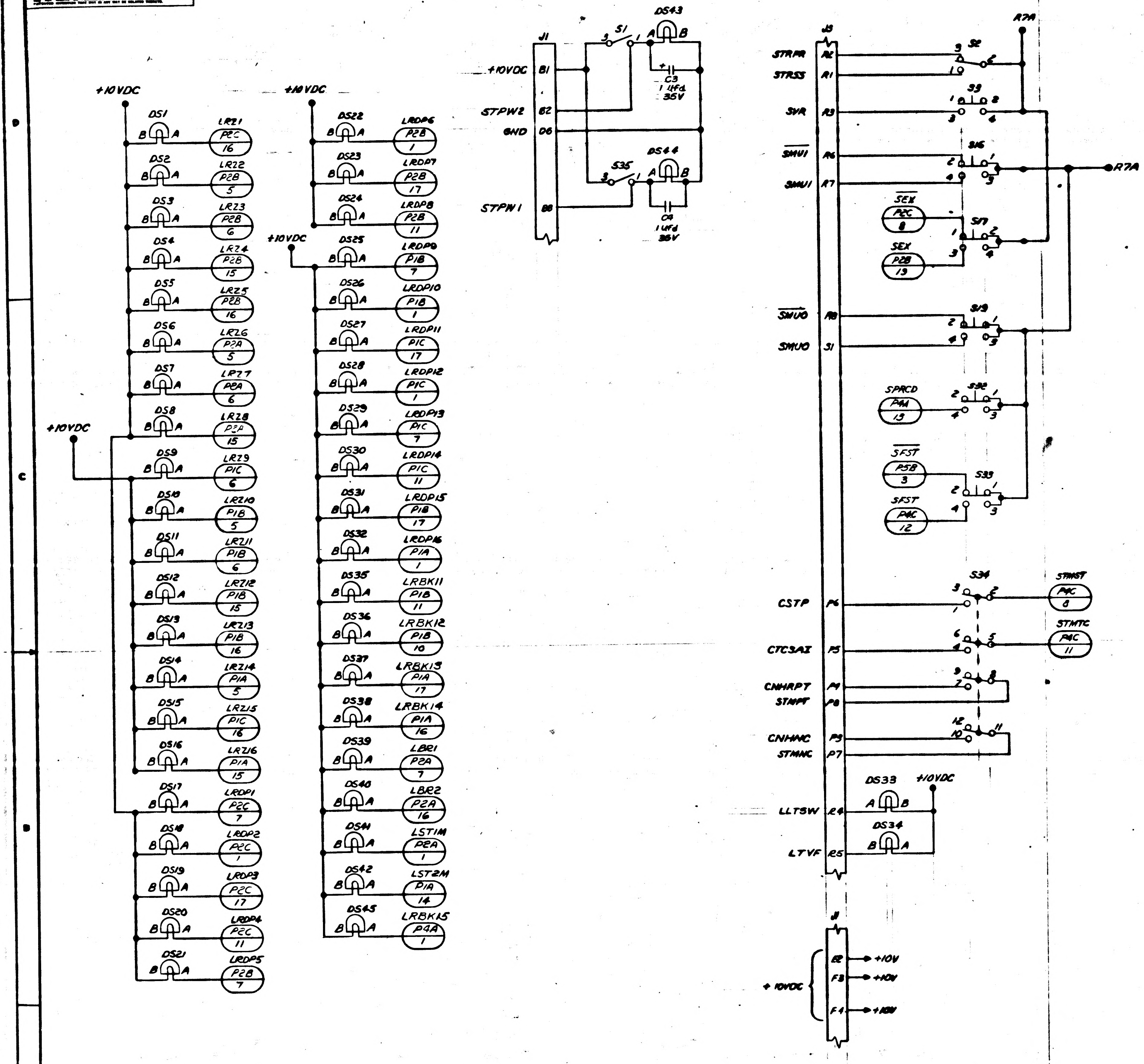
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 03855		
A	CLASS II CHANGE PER RD-R5668C DR H. Swendell CHK W. J. Gifford APPD	21 JAN 64	
B	CHANGE PER TDRR # 07541 DR H. Carlson CHK APPD	16 APR 64	KEB



+10VDC
DS1 LR21 P2C 16
DS2 LR22 P2B 5
DS3 LR23 P2B 6
DS4 LR24 P2B 15
DS5 LR25 P2B 16
DS6 LR26 P2A 5
DS7 LR27 P2A 6
DS8 LR28 P2P 11
DS9 LR29 P1C 6
DS10 LR210 P1B 5
DS11 LR211 P1B 6
DS12 LR212 P1B 15
DS13 LR213 P1B 16
DS14 LR214 P1A 5
DS15 LR215 P1C 16
DS16 LR216 P1A 15
DS17 LRDP1 P2C 7
DS18 LRDP2 P2C 1
DS19 LRDP3 P2C 17
DS20 LRDP4 P2C 11
DS21 LRDP5 P2B 7
DS22 LRDP6 P2B 1
DS23 LRDP7 P2B 17
DS24 LRDP8 P2B 11
DS25 LRDP9 P1B 7
DS26 LRDP10 P1B 1
DS27 LRDP11 P1C 17
DS28 LRDP12 P1C 1
DS29 LRDP13 P1C 7
DS30 LRDP14 P1C 11
DS31 LRDP15 P1B 17
DS32 LRDP16 P1A 1
DS35 LRBK11 P1B 11
DS36 LRBK12 P1B 10
DS37 LRBK13 P1A 17
DS38 LRBK14 P1A 16
DS39 LBR1 P2A 7
DS40 LBR2 P2A 16
DS41 LSTIM P2A 1
DS42 LST2M P1A 14
DS45 LRBK15 P4A 1
B A
J1
+10VDC B1
STPW2 B2
GND D6
STPW1 B8
S1 DS43 C3 1 UFD 35V
S35 DS44 C4 1 UFD 35V
J3
R7A
STRPR R2
STRSS R1
S2
SVR R3
S3
SMU1 R6
SMU1 R7
S16
SEX P2C 8
SEX P2B 13
S17
SMUO R8
SMUO S1
S19
SPRCD P4A 13
S32
SFST P5B 3
SFST P4C 12
S33
CSTP P6
CTCSAI P5
CNHRPT P4
STMPT P8
CNHNC P3
STMNC P7
S34
STMST P4C 6
STMTC P4C 11
DS33 +10VDC
LLTSW R4
DS34
LTVF R5
J1
+10VDC
E2 +10V
F3 +10V
F4 +10V

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03855 DATE 10/10/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED 12 Aug 63
APPROVAL C. Sperling 30 Sept 63
APPROVAL
APPROVAL
NASA APPROVAL
UNIT APPROVAL
UNIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER TEST SET
PROGRAMMER AND MONITOR FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014440
SCALE NONE
WT
SHEET 2 OF 3

DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014440

1014440

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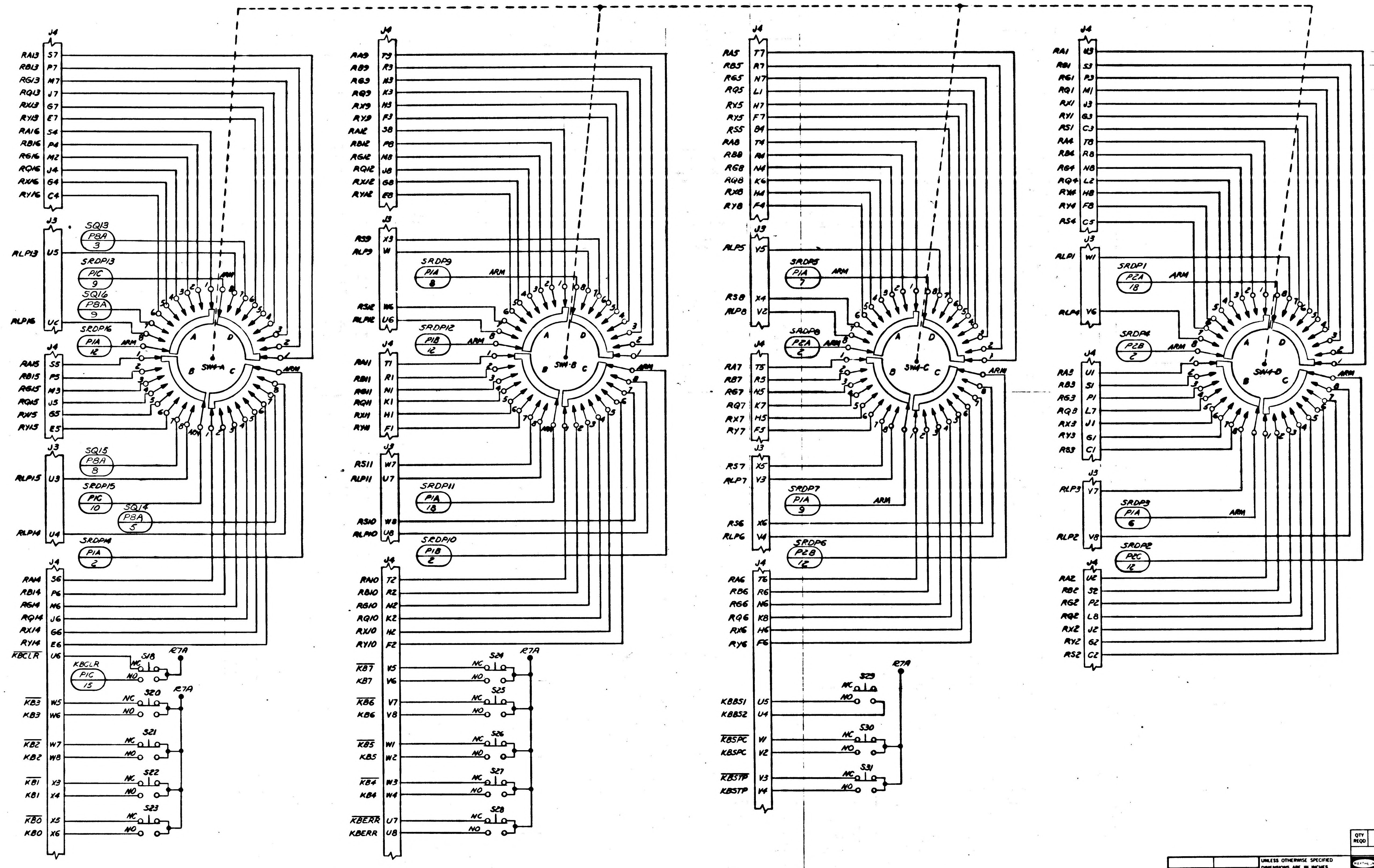
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 03835		
A	CLASS II CHANGE PER RD-R5668C DR H. Scandell CHK W. J. Gifford	21 JAN 64	
B	CHANGE PER TDRR # 07541 DR H. Carlson CHK	16 APR 64	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RA13 S7
RB13 P7
RG13 M7
RQ13 J7
RX13 G7
RY13 E7
RA16 S4
RB16 P4
RG16 M2
RQ16 J4
RX16 G4
RY16 C4
J3
SQ13 P8A 3
RLP13 U5
SRDP13 P1C 9
SQ16 P8A 9
RLP16 U6
SRDP16 P1A 12
ARM
J4
RA15 S5
RB15 P5
RG15 M3
RQ15 J5
RX15 G5
RY15 E5
SW4-A
A
B
C
D
J3
SQ15 P8A 8
RLP15 U3
SRDP15 P1C 10
SQ14 P8A 5
RLP14 U4
SRDP14 P1A 2
J4
RA14 S6
RB14 P6
RG14 M6
RQ14 J6
RX14 G6
RY14 E6
KBCLR U6
KBCLR P1C 15
S18
NC
NO
R7A
KB3 W5
KB3 W6
S20
KB2 W7
KB2 W8
S21
KB1 X3
KB1 X4
S22
KB0 X5
KB0 X6
S23
J4
RA9 T3
RB9 R3
RG9 N3
RQ9 K3
RX9 H3
RY9 F3
RA12 S8
RB12 P8
RG12 M8
RQ12 J8
RX12 G8
RY12 E8
J3
RS9 X3
RLP9 W
SRDP9 P1A 8
RS12 W6
RLP12 U6
SRDP12 P1B 12
J4
RA11 T1
RB11 R1
RG11 N1
RQ11 K1
RX11 H1
RY11 F1
SW4-B
J3
RS11 W7
RLP11 U7
SRDP11 P1A 18
RS10 W8
RLP10 U8
SRDP10 P1B 2
J4
RA10 T2
RB10 R2
RG10 N2
RQ10 K2
RX10 H2
RY10 F2
KB7 V5
KB7 V6
S24
KB6 V7
KB6 V8
S25
KB5 W1
KB5 W2
S26
KB4 W3
KB4 W4
S27
KBERR U7
KBERR U8
S28
J4
RA5 T7
RB5 R7
RG5 N7
RQ5 L1
RX5 H7
RY5 F7
RS5 B4
RA8 T4
RB8 R4
RG8 N4
RQ8 K6
RX8 H4
RY8 F4
J3
RLP5 V5
SRDP5 P1A 7
RS8 X4
RLP8 V2
SRDP8 P2A 2
J4
RA7 T5
RB7 R5
RG7 N5
RQ7 K7
RX7 H5
RY7 F5
SW4-C
J3
RS7 X5
RLP7 V3
SRDP7 P1A 9
RS6 X6
RLP6 V4
SRDP6 P2B 12
J4
RA6 T6
RB6 R6
RG6 N6
RQ6 K8
RX6 H6
RY6 F6
KBBS1 U5
KBBS2 U4
S29
KBSPC V1
KBSPC V2
S30
KBSTP V3
KBSTP V4
S31
J4
RA1 U3
RB1 S3
RG1 P3
RQ1 M1
RX1 J3
RY1 G3
RS1 C3
RA4 T8
RB4 R8
RG4 N8
RQ4 L2
RX4 H8
RY4 F8
RS4 C5
J3
RLP1 W1
SRDP1 P2A 18
RLP4 V6
SRDP4 P2B 2
J4
RA3 U1
RB3 S1
RG3 P1
RQ3 L7
RX3 J1
RY3 G1
RS3 C1
SW4-D
J3
RLP3 Y7
SRDP3 P1A 6
RLP2 V8
SRDP2 P2C 12
J4
RA2 U2
RB2 S2
RG2 P2
RQ2 L8
RX2 J2
RY2 G2
RS2 C2
1
2
3
4
5
6
7
8

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CLASS B RELEASE TDRR NO. 03835 DATE 10/14/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014143	1014308
NEXT ASSY	USED ON

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MATERIAL
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN J. F. McGrath DATE Aug 5 '63
CHECKED A. G. Cassiano 12 Aug 63
APPROVAL C. Sparling 30 Sept 63
APPROVAL 10/2/63
APPROVAL 10/4/63
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

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COMPUTER TEST SET
PROGAMMER AND MONITOR FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO ——— SIZE J NASA DRAWING NO 1014440

SCALE NONE WT SHEET 3 OF 5

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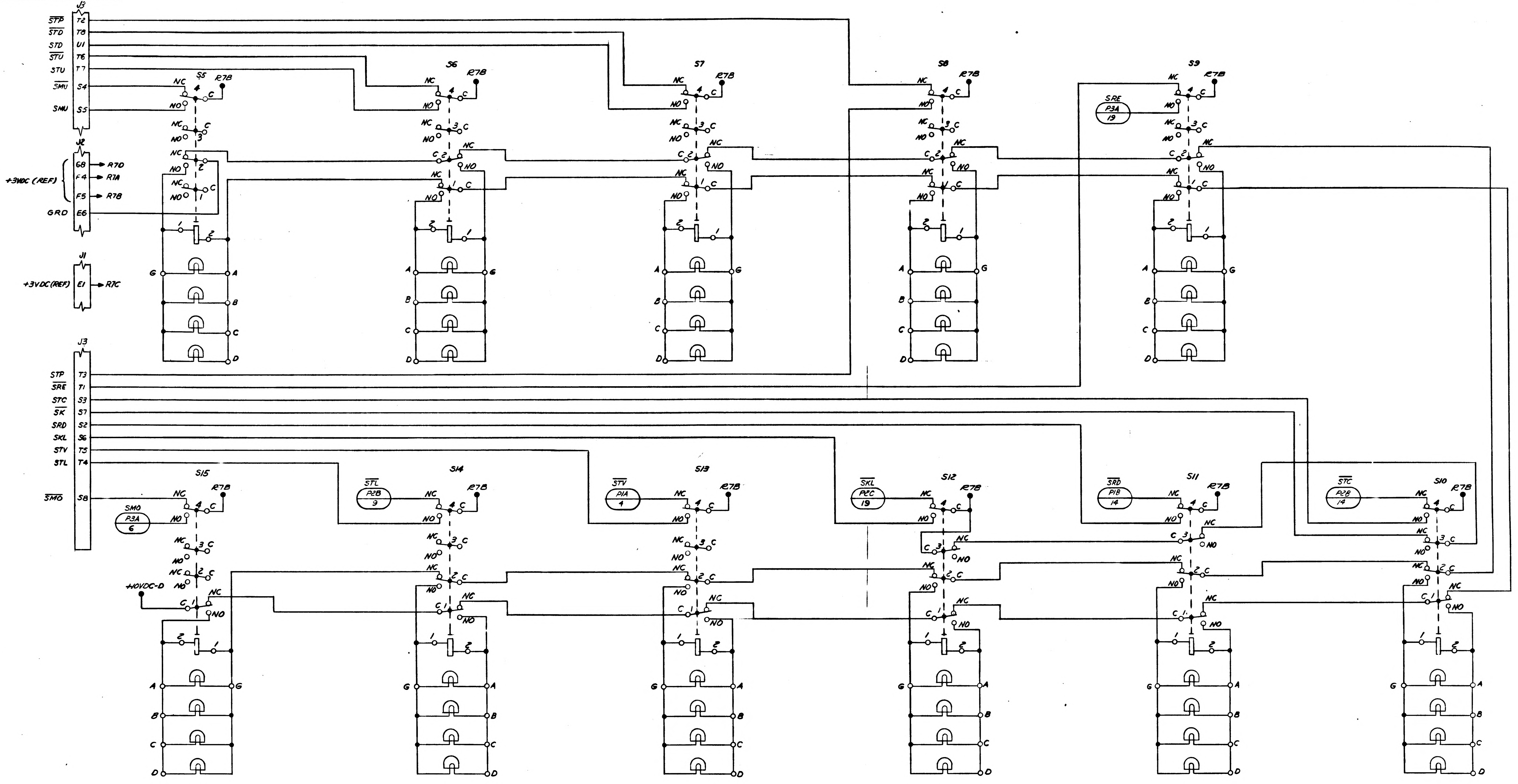
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PEP TDRR 03835		



J3
STP T2
STD T8
STD U1
STU T6
STU T7
SMU S4
SMU S5
J2
+3VDC (REF)
G8 → R7D
F4 → R7A
F5 → R7B
GRD E6
J1
+3VDC(REF) E1 → R7C
J3
STP T3
SRE T1
STC S3
SK S7
SRD S2
SKL S6
STV T5
STL T4
SMO S8
S5
S6
S7
S8
S9
S10
S11
S12
S13
S14
S15
R7B
NC
NO
C
SRE P3A 19
SMO P3A 6
STL P2B 9
STV P1A 4
SKL P2C 19
SRD P1B 14
STC P2B 14
+10VDC-D
A
B
C
D
G

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CLASS B RELEASE TDRR NO. 03835 DATE

—	—	—
SH 1	SH 2	SH 3
REVISION STATUS OF SHEETS		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014143	1014309

APPLICATION

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN J F McDonald DATE Aug 7 63
CHECKED A G Caragiane 12 Aug 63
APPROVAL C. Sperling 30 Sept 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

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COMPUTER TEST SET
PROGRAMMER AND MONITOR FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014440
SCALE NONE
WT
SHEET 1 OF 3

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1014440

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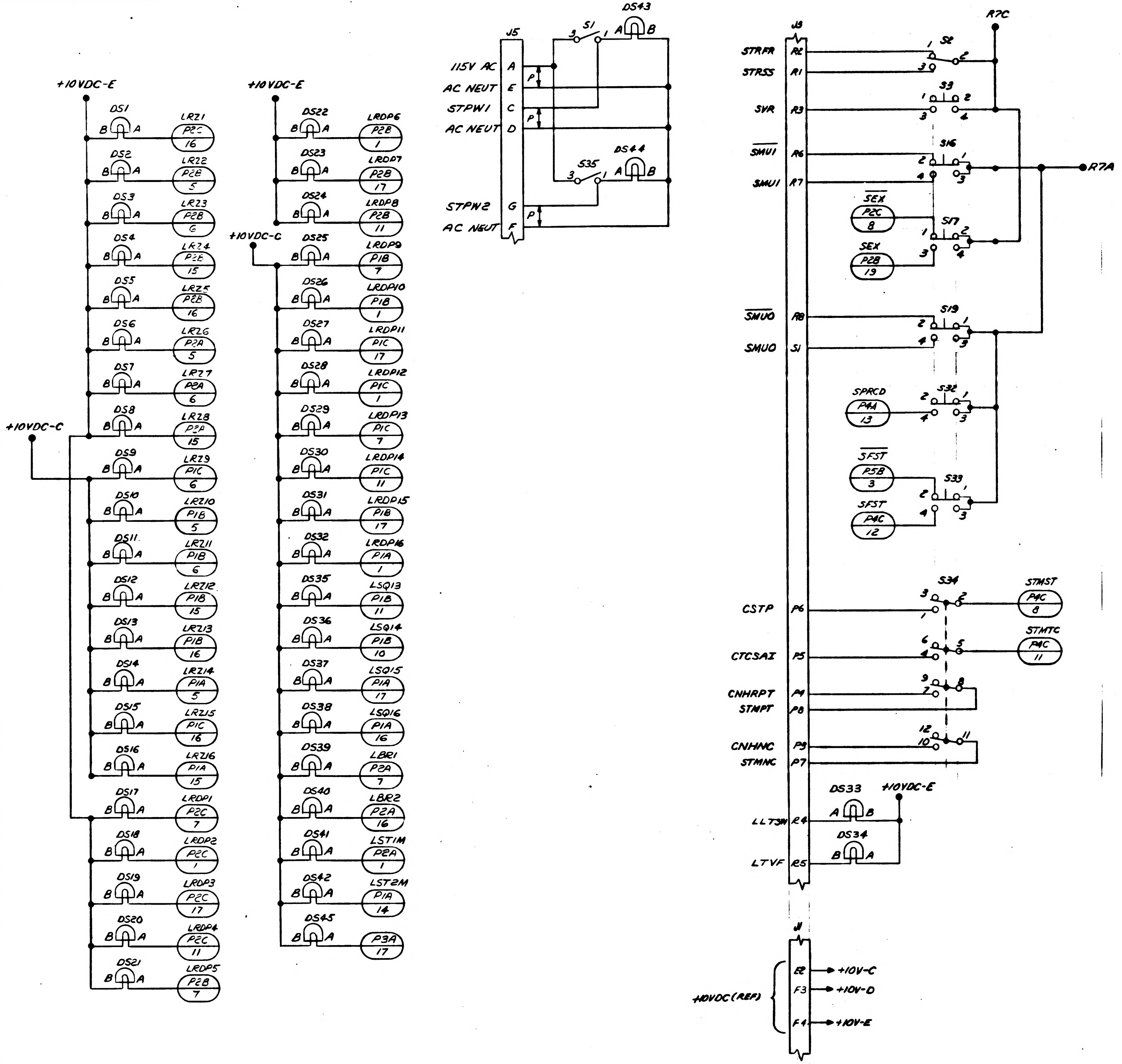
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 03835	10/63	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DS2 B A LRZ2 P2B 5
DS3 B A LRZ3 P2B 6
DS4 B A LRZ4 P2B 15
DS5 B A LRZ5 P2B 16
DS6 B A LRZ6 P2A 5
DS7 B A LRZ7 P2A 6
DS8 B A LRZ8 P2A 15
+10VDC-C
DS9 B A LRZ9 P1C 6
DS10 B A LRZ10 P1B 5
DS11 B A LRZ11 P1B 6
DS12 B A LRZ12 P1B 15
DS13 B A LRZ13 P1B 16
DS14 B A LRZ14 P1A 5
DS15 B A LRZ15 P1C 16
DS16 B A LRZ16 P1A 15
DS17 B A LRDP1 P2C 7
DS18 B A LRDP2 P2C 1
DS19 B A LRDP3 P2C 17
DS20 B A LRDP4 P2C 11
DS21 B A LRDP5 P2B 7
+10VDC-E
DS22 B A LRDP6 P2B 1
DS23 B A LRDP7 P2B 17
DS24 B A LRDP8 P2B 11
+10VDC-C
DS25 B A LRDP9 P1B 7
DS26 B A LRDP10 P1B 1
DS27 B A LRDP11 P1C 17
DS28 B A LRDP12 P1C 1
DS29 B A LRDP13 P1C 7
DS30 B A LRDP14 P1C 11
DS31 B A LRDP15 P1B 17
DS32 B A LRDP16 P1A 1
DS35 B A LSQ13 P1B 11
DS36 B A LSQ14 P1B 10
DS37 B A LSQ15 P1A 17
DS38 B A LSQ16 P1A 16
DS39 B A LBR1 P2A 7
DS40 B A LBR2 P2A 16
DS41 B A LSTIM P2A 1
DS42 B A LST2M P1A 14
DS45 B A P3A 17
J5
115V AC A
AC NEUT E
STPW1 C
AC NEUT D
STPW2 G
AC NEUT F
P
S1 3 1
DS43 A B
S35 3 1
DS44 A B
J3
STRFR R2
STRSS R1
SVR R3
SMU1 R6
SMU1 R7
SMU0 R8
SMU0 S1
CSTP P6
CTCSAI P5
CNHRPT P4
STMPT P8
CNHNC P9
STMNC P7
LLTSW R4
LTVF R5
R7C
R7A
S2 1 2 3
S3 1 2 3 4
S16 1 2 3 4
S17 1 2 3 4
S19 1 2 3 4
S32 1 2 3 4
S33 1 2 3 4
S34 1 2 3 4 5 6 7 8 9 10 11 12
SEX P2C 8
SEX P2B 19
SPRCD P4A 13
SFST P5B 3
SFST P4C 12
STMST P4C 8
STMTC P4C 11
DS33 A B
DS34 B A
+10VDC-E
J1
+10VDC (REF)
E2 +10V-C
F3 +10V-D
F4 +10V-E

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QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN J. Fairland DATE Aug 7 63
CHECKED A. G. Cappers 12 Aug 63
APPROVAL C. Sperling 30 Sept 63
APPROVAL Varich 9/30/63
APPROVAL J. L. Pendleton 9/30/63
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 9 Oct 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER TEST SET
PROGRAMMER AND MONITOR FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014440
SCALE NONE
WT
SHEET 2

INCHES
PHOTOGRAPHIC SCALE ONLY

1014440

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 03835		

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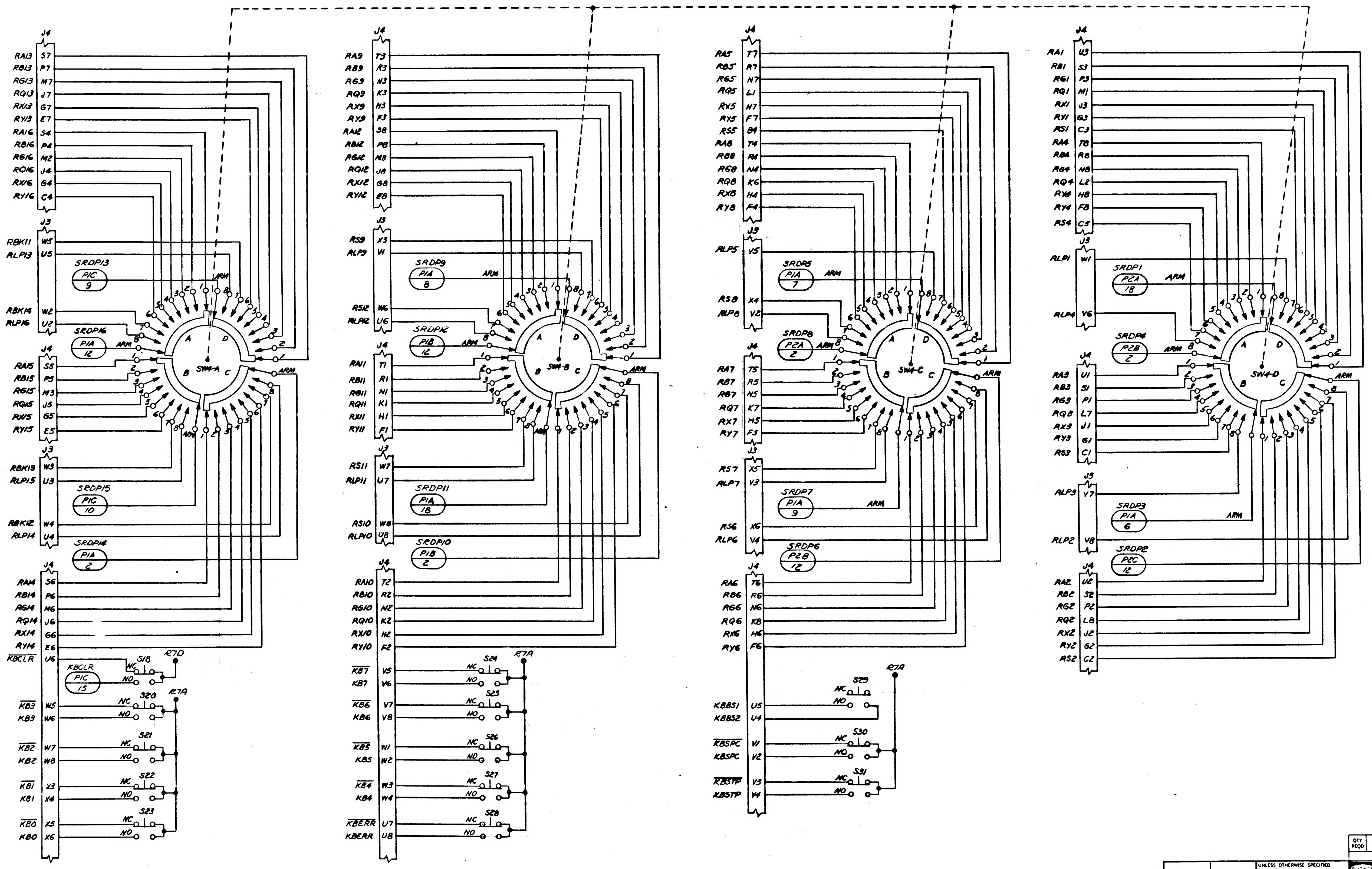

J4
RA13 S7
RB13 P7
RG13 M7
RQ13 J7
RX13 G7
RY13 E7
RA16 S4
RB16 P4
RG16 M2
RQ16 J4
RX16 G4
RY16 C4
J3
RBK11 W5
RLP13 U5
SRDP13
P1C 9
RBK14 W2
RLP16 U2
SRDP16
P1A 12
ARM
J4
RA15 S5
RB15 P5
RG15 M3
RQ15 J5
RX15 G5
RY15 E5
J3
RBK13 W3
RLP15 U3
SRDP15
P1C 10
RBK12 W4
RLP14 U4
SRDP14
P1A 2
J4
RA14 S6
RB14 P6
RG14 M6
RQ14 J6
RX14 G6
RY14 E6
KBCLR U6
KBCLR
P1C 15
S18
R7D
NC
NO
S20
R7A
KB3 W5
KB3 W6
S21
KB2 W7
KB2 W8
S22
KB1 X3
KB1 X4
S23
KB0 X5
KB0 X6
SW4-A
A
B
C
D
J4
RA9 T3
RB9 R3
RG9 N3
RQ9 K3
RX9 H3
RY9 F3
RA12 S8
RB12 P8
RG12 M8
RQ12 J8
RX12 G8
RY12 E8
J3
RS9 X3
RLP9 W
SRDP9
P1A 8
RS12 W6
RLP12 U6
SRDP12
P1B 12
J4
RA11 T1
RB11 R1
RG11 N1
RQ11 K1
RX11 H1
RY11 F1
J3
RS11 W7
RLP11 U7
SRDP11
P1A 18
RS10 W8
RLP10 U8
SRDP10
P1B 2
J4
RA10 T2
RB10 R2
RG10 N2
RQ10 K2
RX10 H2
RY10 F2
KB7 V5
KB7 V6
S24
R7A
KB6 V7
KB6 V8
S25
KB5 W1
KB5 W2
S26
KB4 W3
KB4 W4
S27
KBERR U7
KBERR U8
S28
SW4-B
J4
RA5 T7
RB5 R7
RG5 N7
RQ5 L1
RX5 H7
RY5 F7
RS5 B4
RA8 T4
RB8 R4
RG8 N4
RQ8 K6
RX8 H4
RY8 F4
J3
RLP5 V5
SRDP5
P1A 7
RS8 X4
RLP8 V2
SRDP8
P2A 2
J4
RA7 T5
RB7 R5
RG7 N5
RQ7 K7
RX7 H5
RY7 F5
J3
RS7 X5
RLP7 V3
SRDP7
P1A 9
RS6 X6
RLP6 V4
SRDP6
P2B 12
J4
RA6 T6
RB6 R6
RG6 N6
RQ6 K8
RX6 H6
RY6 F6
KBBS1 U5
KBBS2 U4
S29
R7A
KBSPC V1
KBSPC V2
S30
KBSTP V3
KBSTP V4
S31
SW4-C
J4
RA1 U3
RB1 S3
RG1 P3
RQ1 M1
RX1 J3
RY1 G3
RS1 C3
RA4 T8
RB4 R8
RG4 N8
RQ4 L2
RX4 H8
RY4 F8
RS4 C5
J3
RLP1 W1
SRDP1
P2A 18
RLP4 V6
SRDP4
P2B 2
J4
RA3 U1
RB3 S1
RG3 P1
RQ3 L7
RX3 J1
RY3 G1
RS3 C1
J3
RLP3 V7
SRDP3
P1A 6
RLP2 V8
SRDP2
P2C 12
J4
RA2 U2
RB2 S2
RG2 P2
RQ2 L8
RX2 J2
RY2 G2
RS2 C2
SW4-D

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE Aug 5 63
CHECKED 12 Aug 63
APPROVAL 30 Sept 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER TEST SET
PROGAMMER AND MONITOR FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014440
SCALE NONE
WT
SHEET 3 OF

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014440

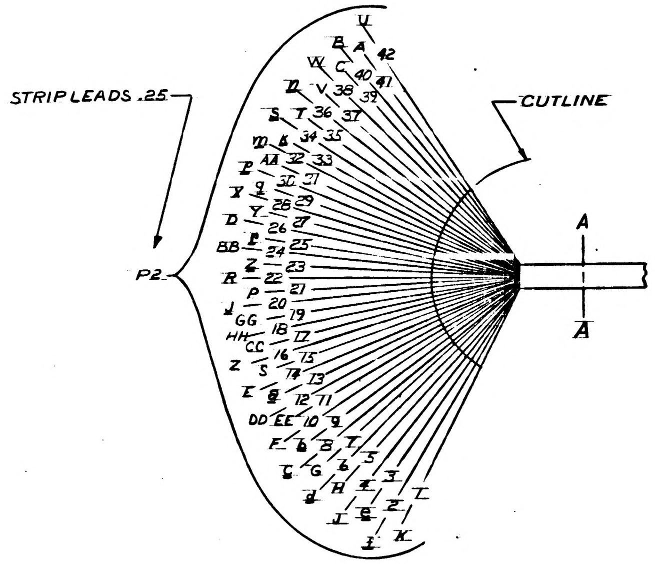
INCHES
PHOTOGRAPHIC SCALE ONLY

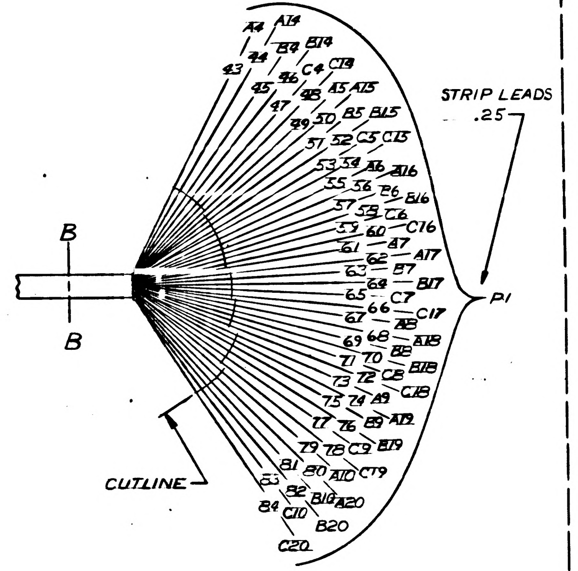
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

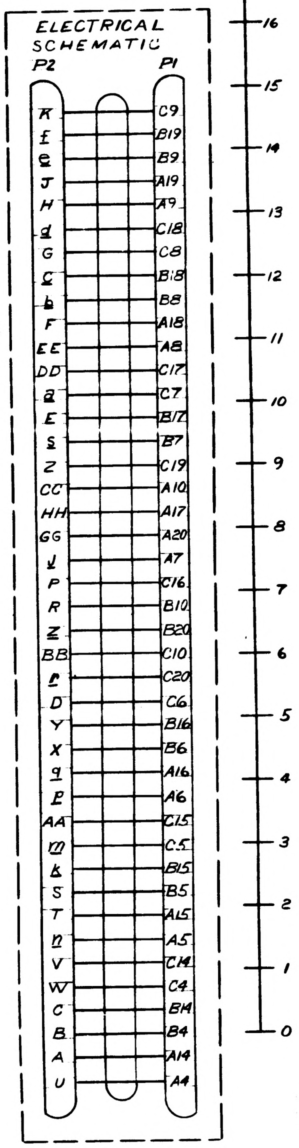
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R 5477A DR C. Gorp CHK Klieger APPD	11-11-63	JJS
B	CHANGED PER TDRR 06325 DR C. Lo Bok CHK A. Caggiano APPD J. Curley	20 FEB 64	

1014441

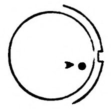
ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	WHITE	22	12	77	
	2				76	
	3				75	
	4				74	
	5				73	
	6				72	
	7				71	
	8				70	
	9				69	
	10				68	
	11				67	
	12				66	
	13				65	
	14				64	
	15				63	
	18				62	
	20				61	
	21				60	
	26				59	
	27				58	
	28				57	
	29				56	
	30				55	
	31				54	
	32				53	
	33				52	
	34				51	
	35				50	
	36				49	
	37				48	
	38				47	
	39				46	
	40				45	
	41				44	
	42	WHITE	22	12	43	
	16	BLACK	22	13	78	
	17				79	
	19				80	
	22				81	
	23				82	
	24				83	
	25	BLACK	22	13	84	

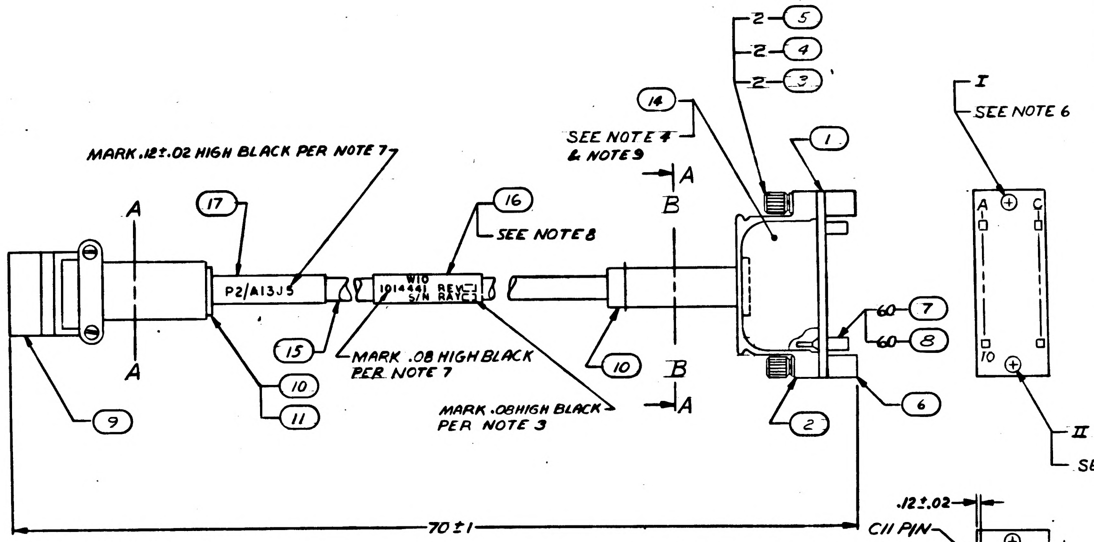

STRIP LEADS .25
CUTLINE
P2
A
A

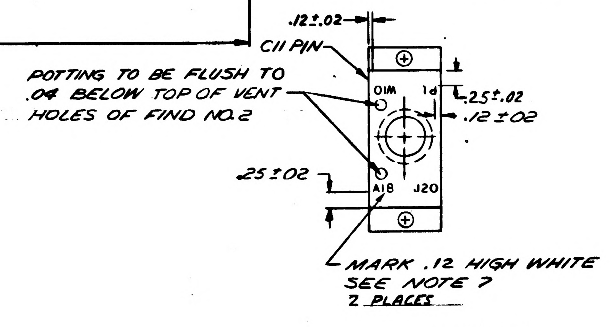

STRIP LEADS .25
CUTLINE
P1
B
B


ELECTRICAL SCHEMATIC
P2
P1
K C9
f B19
e B9
J A19
H A9
d C18
G C8
c B18
b B8
F A18
EE A8
DD C17
a C7
E B17
s B7
Z C19
CC A10
HH A17
GG A20
j A7
P C16
R B10
z B20
BB C10
r C20
D C6
Y B16
X B6
q A16
p A6
AA C15
m C5
k B15
S B5
T A15
n A5
V C14
W C4
C B14
B B4
A A14
U A4

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02910 DATE 9-5-63




MARK .12±.02 HIGH BLACK PER NOTE 7
17
16
SEE NOTE 8
14
SEE NOTE 4 & NOTE 9
2 5
2 4
2 3
1
A
B
A
A
B
A
P2/A13J5
W10 1014441 REV. S/N RAY
15
10
11
9
MARK .08 HIGH BLACK PER NOTE 7
MARK .08 HIGH BLACK PER NOTE 3
10
60 7
60 8
6
2
I
SEE NOTE 6
II
SEE NOTE 6
A
C
10
70±1


.12±.02
C11 PIN
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO.2
.25±.02
.12±.02
.25±.02
A18
J20
MARK .12 HIGH WHITE SEE NOTE 7 2 PLACES

VIEW AA

NOTES

1. FOR SYMBOLS, FABRICATION AND REQD TEST SEE ND 1002032
2. MIL-I-631 TYPE F, FOAM U2, GRADE 2 CLASS I CATEGORY I FOR FIND NO. 15 AWG 7/16 IN. COLOR WHT
3. MARK SER NO. PER ND1002023
4. FILL WITH FIND NO. 14 PER ND1002009 METHOD E
5. NUMBER PRECEDING BALLOON DENOTES QUANTITY
6. LOCATE KEY IN POSITION PER KEYCODING CHART USING DWG NO. 1014047
7. MARK PER ND1002019
8. BOND FIND NO. 16 & 17 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
9. POTTING TO BE $^{+.005}_{-.015}$ FROM SURFACES OF FIND NO. 2

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1014472-2A	BAND MARKER, CABLE	17
1	1014472-2	BAND MARKER, CABLE	16
AR	SEE NOTE 2	SLEEVING	15
AR	1006683	COMPOUND, SILICONE RUBBER	14
AR	MIL-W-16878/4, TYPE E, 22 BLK	WIRE ELEC	13
AR	MIL-W-16878/4, TYPE E 22 WHT	WIRE ELEC	12
1	MS39056-6	BUSHING, CABLE ADPT	11
2	MS39056-5	BUSHING, CABLE ADPT	10
1	MS3126F-22-55S	CONNECTOR, RECEPTACLE	9
60	1010380	INSULATOR BUSH. FEMALE	8
60	1010379-1	CONTACT ELEC FEMALE	7
2	1014032	RECEPTACLE, INDEXING	6
2	1006997	WASHER, PLAIN FLAT	5
2	MS35337-79	WASHER, LOCK	4
2	1006998-1	SCREW, CAPTIVE	3
1	1014000-4	FRAME, MODULE	2
1	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014441

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

1014156	
NEXT ASSY	USED ON
APPLICATION	

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN K. Matty DATE 8/5/63
CHECKED A. Caggiano 6 Aug 63
APPROVAL
APPROVAL 8/20/63
APPROVAL
NASA APPROVAL 9/5/63
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W10

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014441
SCALE 1/1
WT
SHEET 1 OF 1

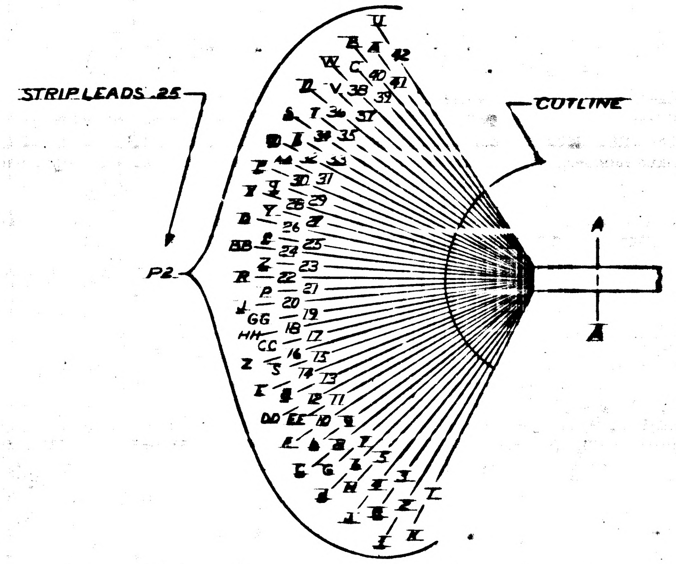
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

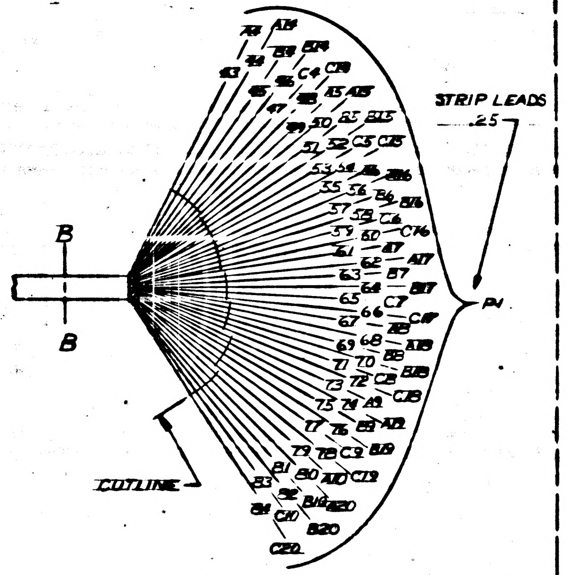
1014441

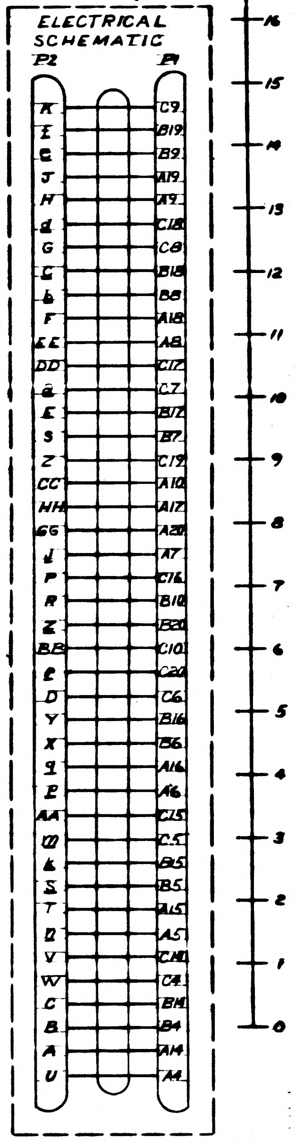
INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R 5477A DR C. [illegible] CHK [illegible] APPD [illegible]	11-11-63	[illegible]
B	CHANGED PER TDRR 06325 DR C. [illegible] CHK A. [illegible] APPD J. Conley	20 FEB 64	3/10/64
C	CHANGED PER TDRR 08874 DR R. [illegible] CHK [illegible] APPD J. Conley	June 64	KEGS

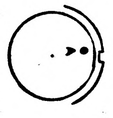
ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG.	FIND NO.	RUN NO.	REMARKS
	1	WHITE	22	12	77	
	2				76	
	3				75	
	4				74	
	5				73	
	6				72	
	7				71	
	8				70	
	9				69	
	10				68	
	11				67	
	12				66	
	13				65	
	14				64	
	15				63	
	18				62	
	20				61	
	21				60	
	26				59	
	27				58	
	28				57	
	29				56	
	30				55	
	31				54	
	32				53	
	33				52	
	34				51	
	35				50	
	36				49	
	37				48	
	38				47	
	39				46	
	40				45	
	41				44	
	42	WHITE	22	12	43	
	16	BLACK	22	13	78	
	17				79	
	19				80	
	22				81	
	23				82	
	24				83	
	25	BLACK	22	13	84	

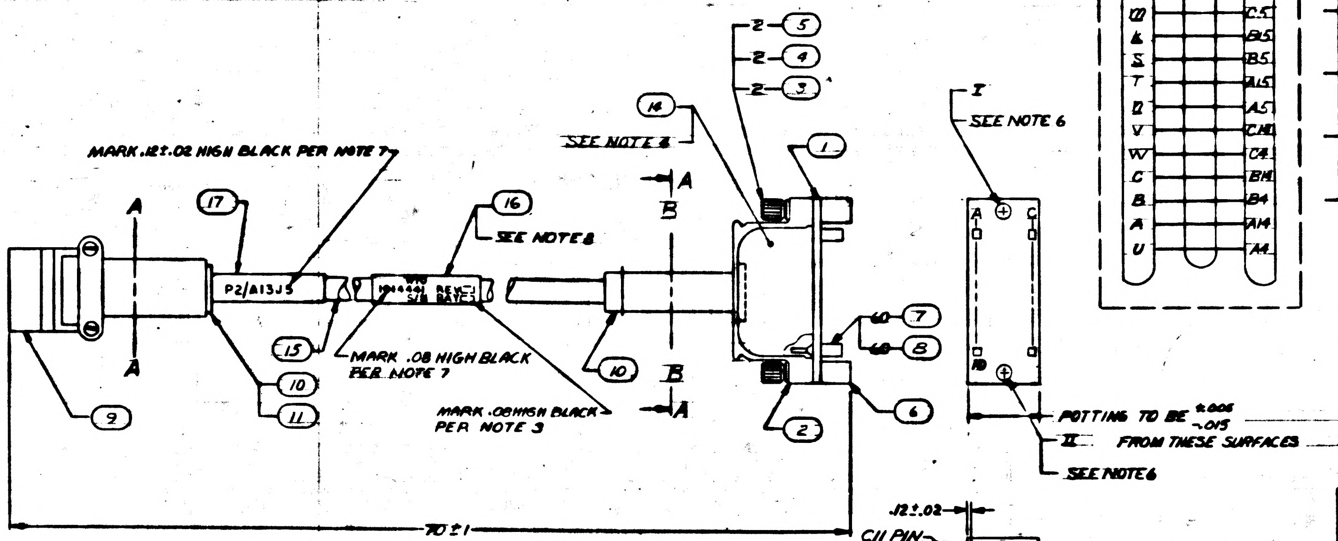

STRIP LEADS .25
CUTLINE
P2
A
A

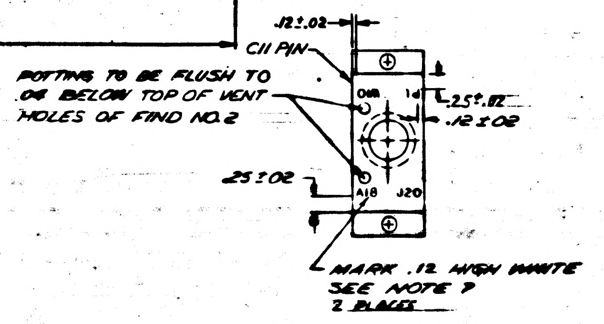

STRIP LEADS .25
CUTLINE
P1
B
B


ELECTRICAL SCHEMATIC
P2
P1
K C9
I B19
e B9
J A19
H A9
d C18
G C8
c B18
b B8
F A18
EE A8
DD C17
a C7
E B17
S B7
Z C19
CC A10
HH A17
GG A20
j A7
P C16
R B10
z B20
BB C10
f C20
D C6
Y B16
X B6
g A16
p A6
AA C15
m C5
k B15
s B5
T A15
n A5
V C14
W C4
C B14
B B4
A A14
U A4

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02410 DATE 6-5-63




MARK .12±.02 HIGH BLACK PER NOTE 7
17
16
SEE NOTE 8
14
SEE NOTE 4
2 5
2 4
2 3
1
A
B
A
B
A
A
P2/A13J5
1014441 REV
S/N DATE
15
MARK .08 HIGH BLACK PER NOTE 7
10
11
9
MARK .08 HIGH BLACK PER NOTE 3
10
60 7
60 8
2
6
I
SEE NOTE 6
A
C
B
POTTING TO BE ±.005 -.015
II FROM THESE SURFACES
SEE NOTE 6
70 ± 1


.12±.02
C11 PIN
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO. 2
.25±.02
.12±.02
.25±.02
A18
J20
MARK .12 HIGH WHITE SEE NOTE 7 2 PLACES

VIEW AA

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TEST SEE ND 1002032
2. MIL-I-631 TYPE F, FOAM U2, GRADE B CLASS I CATEGORY I FOR FIND NO. 15 AWG 7/16 IN. COLOR WHT.
3. MARK SER NO. PER ND1002023
4. FILL WITH FIND NO. 14 PER ND1002009 METHOD E
5. NUMBER PRECEDING BALLOON DENOTES QUANTITY
6. LOCATE KEY IN POSITION PER KEYCODING CHART USING DWG NO. 1014047
7. MARK PER ND1002019
8. BOND FIND NO. 16 & 17 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
~~9. POTTING TO BE [illegible] FROM SURFACES OF FIND NO. 2~~

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1014472-2A	BAND MARKER, CABLE	17
1	1014472-2	BAND MARKER, CABLE	16
AR	SEE NOTE 2	SLEEVING	15
AR	1006683	COMPOUND, SILICONE RUBBER	14
AR	MIL-W-16878/4, TYPE E, 22 BLK	WIRE ELEC	13
AR	MIL-W-16878/4, TYPE E 22 WHT	WIRE ELEC	12
1	MS39056-6	BUSHING, CABLE ADPT	11
2	MS39056-5	BUSHING, CABLE ADPT	10
1	MS3126F-22-55S	CONNECTOR, RECEPTACLE	9
60	1010330	INSULATOR BUSH. FEMALE	8
60	1010379-1	CONTACT ELEC FEMALE	7
2	1014032	RECEPTACLE, INDEXING	6
2	1006997	WASHER, PLAIN FLAT	5
2	MS35337-79	WASHER, LOCK	4
2	1006998-1	SCREW, CAPTIVE	3
1	1014000-4	FRAME, MODULE	2
1	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014441

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Matty DATE 6/6/63
CHECKED A. [illegible] 6/6/63
APPROVAL C. [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W10

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014441
SCALE 1/1
WT
SHEET 1 OF 1

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1014441 D

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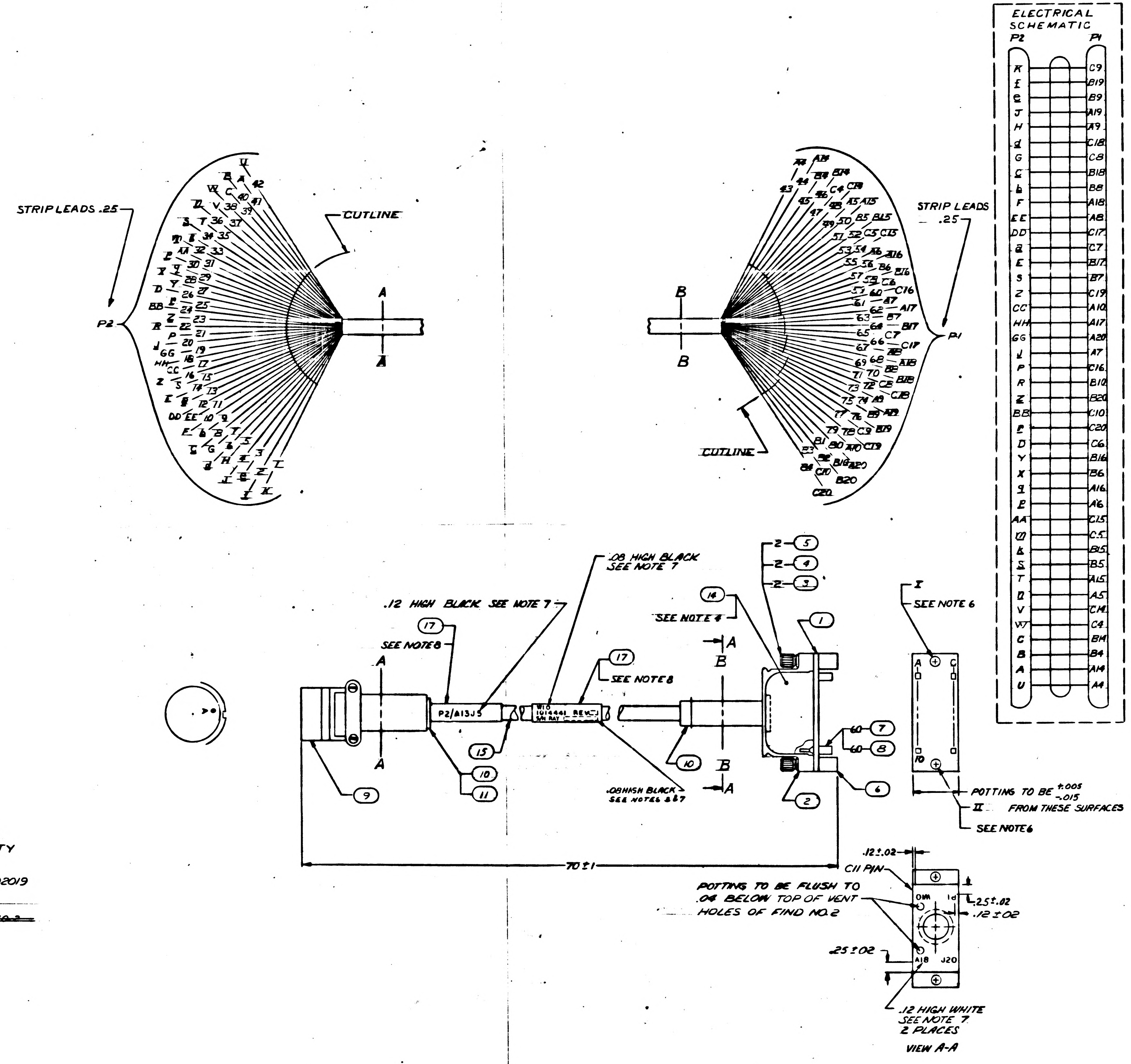
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R 5477A DR C. Gorfi CHK T. Yager APPD	11-11-63	
B	CHANGED PER TDRR 06325 DR C. La Bak CHK J. Cassiano APPD	20 FEB 64	
C	CHANGED PER TDRR 08874 DR R. Fleischer CHK APPD	June 64	
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17501 DR P. Haney CHK APPD	13 Apr 65	

ASSEMELY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	WHITE	22	12	77	
	2				76	
	3				75	
	4				74	
	5				73	
	6				72	
	7				71	
	8				70	
	9				69	
	10				68	
	11				67	
	12				66	
	13				65	
	14				64	
	15				63	
	18				62	
	20				61	
	21				60	
	26				59	
	27				58	
	28				57	
	29				56	
	30				55	
	31				54	
	32				53	
	33				52	
	34				51	
	35				50	
	36				49	
	37				48	
	38				47	
	39				46	
	40				45	
	41				44	
	42	WHITE	22	12	43	
	16	BLACK	22	13	78	
	17				79	
	19				80	
	22				81	
	23				82	
	24				83	
	25	BLACK	22	13	84	


STRIP LEADS .25
CUTLINE
P2
A
A
B
B
P1
STRIP LEADS .25
CUTLINE
ELECTRICAL SCHEMATIC
P2 P1
K C9
f B19
e B9
J A19
H A9
d C18
G C8
c B18
b B8
F A18
EE A8
DD C17
a C7
E B17
S B7
Z C19
CC A10
HH A17
GG A20
j A7
P C16
R B10
z B20
BB C10
r C20
D C6
Y B16
X B6
g A16
p A6
AA C15
m C5
k B15
s B5
T A15
n A5
V C14
W C4
C B14
B B4
A A14
U A4
.12 HIGH BLACK SEE NOTE 7
.08 HIGH BLACK SEE NOTE 7
SEE NOTE 8
SEE NOTE 8
SEE NOTE 4
P2/A13J5
W10 1014441 REV S/N RAY
.08 HIGH BLACK SEE NOTES 6&7
2 5
2 4
2 3
14
1
17
17
15
10
11
9
10
2
6
60 7
60 8
I SEE NOTE 6
POTTING TO BE +.005 -.015
II FROM THESE SURFACES
SEE NOTE 6
70 ±1
.12 ±.02
C11 PIN
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO.2
.25 ±.02
.12 ±.02
.25 ±.02
A18 J20
.12 HIGH WHITE SEE NOTE 7 2 PLACES
VIEW A-A

NOTES

1. FOR FABRICATION SEE ND1002032
2. MIL-I-7444 TYPE I FOR FIND NO. 15 AWG 7/16 IN.
3. SERIALIZE PER ND1002023
4. FILL WITH FIND NO. 14 PER ND1002009 METHOD E
5. NUMBER PRECEDING BALLOON DENOTES QUANTITY
6. LOCATE KEY IN POSITION PER KEYCODING CHART USING DWG NO. 1014047
7. MARK GOTHIC CHARACTERS AS SHOWN PER ND1002019 USING MARKING INKS 1006256-001 & 1006271-1
8. BOND USING FIND NO. 18 APPROX AS SHOWN
9. ~~POTTING TO BE +.005 -.015 FROM SURFACES OF FIND NO. 2~~
10. CRIMP PER ND1002206

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	1006253	ADHESIVE	18
2	1014472-2A	BAND MARKER, CABLE	17
~~1~~	~~1014472-2~~	~~BAND MARKER, CABLE~~	~~16~~
AR	SEE NOTE 2	SLEEVING	15
AR	1006683	COMPOUND, SILICONE RUBBER	14
AR	MIL W 16878/4, TYPE E, 22 BLK	WIRE ELEC	13
AR	MIL W 16878/4, TYPE E 22 WHT	WIRE ELEC	12
1	MS39056-6	BUSHING, CABLE ADPT	11
2	MS39056-5	BUSHING, CABLE ADPT	10
1	MS3126F-22-55S	CONNECTOR, RECEPTACLE	9
60	1010380	INSULATOR BUSH. FEMALE	8
60	1010379-1	CONTACT ELEC FEMALE	7
2	1014032	RECEPTACLE, INDEXING	6
2	1006997	WASHER, PLAIN FLAT	5
2	MS35337-79	WASHER, LOCK	4
2	1006998-1	SCREW, CAPTIVE	3
1	1014000-4	FRAME, MODULE	2
1	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014441 D

NEXT ASSY	USED ON
1020341	
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN K. Matty DATE 8/5/63
CHECKED A. Cassiano 6 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 9/5/63
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

CABLE ASSEMBLY
W10

CODE IDENT NO —— SIZE J NASA DRAWING NO 1014441
SCALE 1/1 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014441

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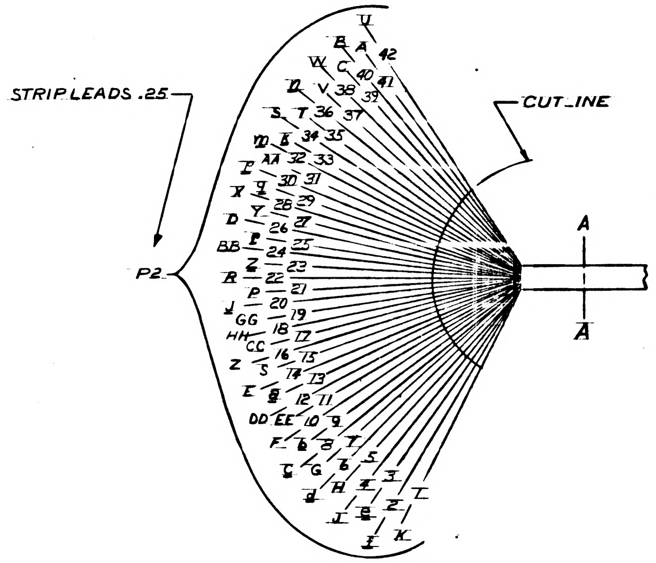
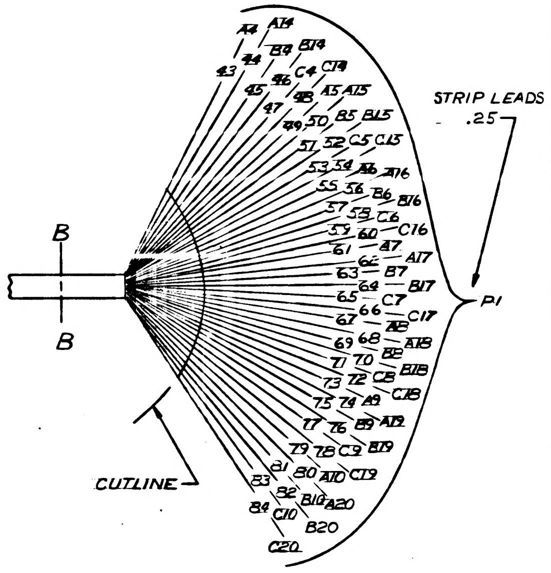
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		

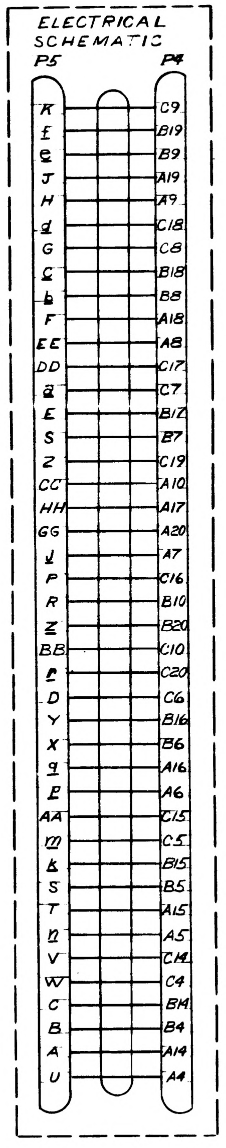
1014441

ASSEMBLY INFORMATION CHART

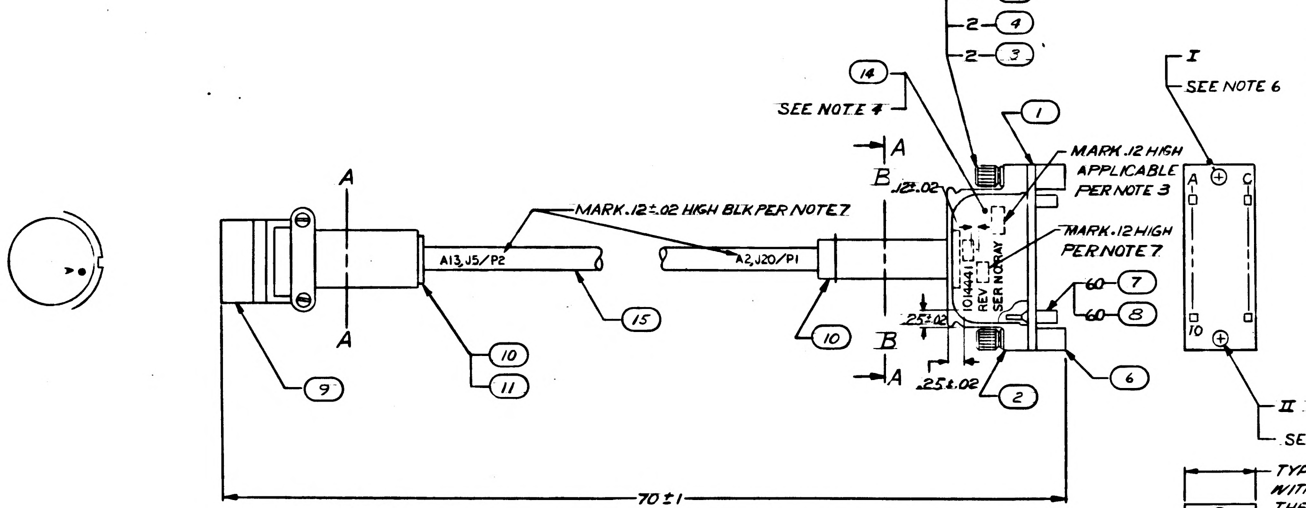
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	WHITE	22	12	77	
	2				76	
	3				75	
	4				74	
	5				73	
	6				72	
	7				71	
	8				70	
	9				69	
	10				68	
	11				67	
	12				66	
	13				65	
	14				64	
	15				63	
	18				62	
	20				61	
	21				60	
	26				59	
	27				58	
	28				57	
	29				56	
	30				55	
	31				54	
	32				53	
	33				52	
	34				51	
	35				50	
	36				49	
	37				48	
	38				47	
	39				46	
	40				45	
	41				44	
	42	WHITE	22	12	43	
	16	BLACK	22	13	78	
	17				79	
	19				80	
	22				81	
	23				82	
	24				83	
	25	BLACK	22	13	84	


STRIP LEADS .25
CUT LINE
P2
A
A

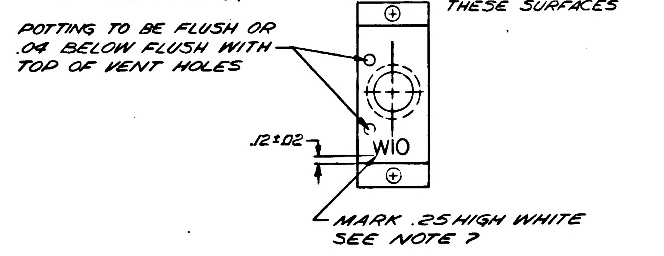

STRIP LEADS .25
CUTLINE
P1
B
B


ELECTRICAL SCHEMATIC
P5
P4
K C9
f B19
e B9
J A19
H A9
d C18
G C8
c B18
b B8
F A18
EE A8
DD C17
a C7
E B17
S B7
Z C19
CC A10
HH A17
GG A20
j A7
P C16
R B10
z B20
BB C10
r C20
D C6
Y B16
X B6
q A16
p A6
AA C15
m C5
k B15
s B5
T A15
n A5
V C14
W C4
C B14
B B4
A A14
U A4

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02910 DATE 9-5-63


A
A
MARK .12±.02 HIGH BLK PER NOTE 7
A13, J5/P2
A2, J20/P1
9
10
11
15
10
70±1
SEE NOTE 4
14
2 5
2 4
2 3
1
A
A
B
B
.12±.02
MARK .12 HIGH APPLICABLE PER NOTE 3
MARK .12 HIGH PER NOTE 7
1014441
REV
SER NO RAY
.25±.02
.25±.02
60 7
60 8
2
6
I
SEE NOTE 6
II
SEE NOTE 6
A
C
10

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TEST SEE ND 1002032
2. MIL-I-631 TYPE F, FOAM Ua, GRADE a CLASS I CATEGORY I FOR FIND NO. 15 AWG 7/16 IN. COLOR WHT
3. MARK SER NO. PER ND1002023
4. FILL WITH EPOXY RESIN PER ND 1002183
5. NUMBER PRECEDING BALLOON DENOTES QUANTITY
6. LOCATE KEY IN POSITION PER KEYCODING CHART USING DWG NO. 1014047
7. MARK PER ND 1002019


TYP POTTING TO BE WITHIN +.010 -.040 OF THESE SURFACES
POTTING TO BE FLUSH OR .04 BELOW FLUSH WITH TOP OF VENT HOLES
.12±.02
W10
MARK .25 HIGH WHITE SEE NOTE 7

VIEW AA

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	SEE NOTE 2	SLEEVING	15
AR	1006904	EPOXY RESIN	14
AR	MIL-W-16878/4, E22	WIRE, ELECTRICAL BLACK	13
AR	MIL-W-16878/4, E22	WIRE, ELECTRICAL WHITE	12
1	MS39056-6	BUSHING, CABLE ADPT	11
2	MS39056-5	BUSHING, CABLE ADPT	10
1	MS3126F-22-55S	CONNECTOR, RECEPTACLE	9
60	1010380	INSULATOR BUSH. FEMALE	8
60	1010379-1	CONTACT ELEC F. MALE	7
2	1014032	RECEPTACLE, INDEXING	6
2	1006997	WASHER, PLAIN FLAT	5
2	MS35337-79	WASHER, LOCK	4
2	1006998-1	SCREW, CAPTIVE	3
1	1014000-4	FRAME, MODULE	2
1	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN K. Natty DATE 8/13/63
CHECKED A. Cazzone 6 Aug 63
APPROVAL
APPROVAL 9/10/63
APPROVAL
NASA APPROVAL 9/7/63
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W10

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014441
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

SA4101

JUMPER LIST				ATTACH
FROM	TO	LENGTH	FIND NO.	FIND NO. 2
S5A-A2	S5A-B1	3.38	1	LG2.88
S5A-A3	S5A-B2	3.38		LG2.88
S5A-B2	S5A-C1	2.25		LG1.75
S5A-C2	S5A-B3	2.25		LG1.75
S5A-B3	S5A-A4	3.38		LG2.88
S5A-A5	S5A-B4	3.38		LG2.88
S5A-B4	S5A-C3	2.25		LG1.75
S5A-C4	S5A-B5	2.25		LG1.75
S5A-B5	S5A-A6	3.38		LG2.88
S5A-A7	S5A-B6	3.38		LG2.88
S5A-B6	S5A-C5	2.25		LG1.75
S5A-C6	S5A-B7	2.25		LG1.75
S5A-B7	S5A-A8	3.38		LG2.88
S5A-A9	S5A-B8	3.38		LG2.88
S5A-B8	S5A-C7	2.25		LG1.75
S5A-C8	S5A-B9	2.25		LG1.75
S5B-A2	S5B-B1	3.38		LG2.88
S5B-C1	S5B-B2	2.25		LG1.75
S5B-B2	S5B-A3	3.38		LG2.88
S5B-A4	S5B-B3	3.38		LG2.88
S5B-B3	S5B-C2	2.25		LG1.75
S5B-C3	S5B-B4	2.25		LG1.75
S5B-B4	S5B-A5	3.38		LG2.88
S5B-A6	S5B-B5	3.38		LG2.88
S5B-B5	S5B-C4	2.25		LG1.75
S5B-C5	S5B-B6	2.25		LG1.75
S5B-B6	S5B-A7	3.38		LG2.88
S5B-A8	S5B-B7	3.38		LG2.88
S5B-C6	S5B-B7	2.50		LG2.38
S5B-C7	S5B-B8	2.25		LG1.75
S5B-B8	S5B-A9	3.38		LG2.88
S5B-C8	S5B-B9	2.25		LG1.75
S7A-A2	S7A-B1	3.38		LG2.88
S7A-A3	S7A-B2	3.38		LG2.88
S7A-B2	S7A-C1	2.25		LG1.75
S7A-C2	S7A-B3	2.25		LG1.75
S7A-B3	S7A-A4	3.38		LG2.88
S7A-A5	S7A-B4	3.38		LG2.88
S7A-B4	S7A-C3	2.25		LG1.75
S7A-C4	S7A-B5	2.25		LG1.75
S7A-B5	S7A-A6	3.38		LG2.88
S7A-A7	S7A-B6	3.38		LG2.88
S7A-B6	S7A-C5	2.25		LG1.75
S7A-C6	S7A-B7	2.25		LG1.75
S7A-B7	S7A-A8	3.38		LG2.88
S7A-A9	S7A-B8	3.38		LG2.88
S7A-B8	S7A-C7	2.25		LG1.75
S7A-C8	S7A-B9	2.25		LG1.75
S7B-A2	S7B-B1	3.38		LG2.88
S7B-C1	S7B-B2	2.25		LG1.75
S7B-B2	S7B-A3	3.38		LG2.88
S7B-A4	S7B-B3	3.38		LG2.88
S7B-B3	S7B-C2	2.25		LG1.75
S7B-C3	S7B-B4	2.25		LG1.75
S7B-B4	S7B-A5	3.38		LG2.88
S7B-A6	S7B-B5	3.38		LG2.88
S7B-B5	S7B-C4	2.25		LG1.75
S7B-C5	S7B-B6	2.25		LG1.75
S7B-B6	S7B-A7	3.38		LG2.88
S7B-A8	S7B-B7	3.38		LG2.88
S7B-B7	S7B-C6	2.25		LG1.75
S7B-C7	S7B-B8	2.25		LG1.75
S7B-B8	S7B-A9	3.38		LG2.88
S7B-C8	S7B-B9	2.25		LG1.75
S1A-A2	S1A-B1	3.38		LG2.88
S1A-A3	S1A-B2	3.38		LG2.88
S1A-B2	S1A-C1	2.25		LG1.75
S1A-C2	S1A-B3	2.25		LG1.75
S1A-B3	S1A-A4	3.38		LG2.88
S1A-A5	S1A-B4	3.38		LG2.88
S1A-B4	S1A-C3	2.25		LG1.75
S1A-C4	S1A-B5	2.25		LG1.75
S1A-B5	S1A-A6	3.38		LG2.88
S1A-A7	S1A-B6	3.38		LG2.88
S1A-B6	S1A-C5	2.25		LG1.75
S1A-C6	S1A-B7	2.25		LG1.75
S1A-B7	S1A-A8	3.38		LG2.88
S1A-A9	S1A-B8	3.38		LG2.88
S1A-B8	S1A-C7	2.25		LG1.75
S1A-C8	S1A-B9	2.25	1	LG1.75

JUMPER LIST				ATTACH
FROM	TO	LENGTH	FIND NO.	FIND NO. 2
S1B-A2	S1B-B1	3.38	1	LG2.88
S1B-C1	S1B-B2	2.25		LG1.75
S1B-B2	S1B-A3	3.38		LG2.88
S1B-A4	S1B-B3	3.38		LG2.88
S1B-B3	S1B-C2	2.25		LG1.75
S1B-C3	S1B-B4	2.25		LG1.75
S1B-B4	S1B-A5	3.38		LG2.88
S1B-A6	S1B-B5	3.38		LG2.88
S1B-B5	S1B-C4	2.25		LG1.75
S1B-C5	S1B-B6	2.25		LG1.75
S1B-B6	S1B-A7	3.38		LG2.88
S1B-A8	S1B-B7	3.38		LG2.88
S1B-B7	S1B-C6	2.25		LG1.75
S1B-C7	S1B-B8	2.25		LG1.75
S1B-B8	S1B-A9	3.38		LG2.88
S1B-C8	S1B-B9	2.25		LG1.75
S8A-A2	S8A-B1	3.38		LG2.88
S8A-A3	S8A-C1	3.12		LG2.62
S8A-C1	S8A-B2	2.25		LG1.75
S8A-B3	S8A-C2	2.25		LG1.75
S8A-C2	S8A-A4	3.12		LG2.62
S8A-A5	S8A-C3	3.12		LG2.62
S8A-C3	S8A-B4	2.25		LG1.75
S8A-B5	S8A-C4	2.25		LG1.75
S8A-C4	S8A-A6	3.12		LG2.62
S8A-A7	S8A-C5	3.12		LG2.62
S8A-C5	S8A-B6	2.25		LG1.75
S8A-B7	S8A-C6	2.25		LG1.75
S8A-C6	S8A-A8	3.12		LG2.62
S8A-A9	S8A-C7	3.12		LG2.62
S8A-C7	S8A-B8	2.25		LG1.75
S8A-C8	S8A-B9	2.25		LG1.75
S8B-A2	S8B-B1	3.38		LG2.88
S8B-B2	S8B-C1	2.25		LG1.75
S8B-C1	S8B-A3	3.12		LG2.62
S8B-A4	S8B-C2	3.12		LG2.62
S8B-C2	S8B-B3	2.25		LG1.75
S8B-B4	S8B-C3	2.25		LG1.75
S8B-C3	S8B-A5	3.12		LG2.62
S8B-A6	S8B-C4	3.12		LG2.62
S8B-C4	S8B-B5	2.25		LG1.75
S8B-B6	S8B-C5	2.25		LG1.75
S8B-C5	S8B-A7	3.12		LG2.62
S8B-A8	S8B-C6	3.12		LG2.62
S8B-C6	S8B-B7	2.25		LG1.75
S8B-B8	S8B-C7	2.25		LG1.75
S8B-C7	S8B-A9	3.12		LG2.62
S8B-C8	S8B-B9	2.25		LG1.75
S4A-A2	S4A-B1	3.38		LG2.88
S4A-A3	S4A-C1	3.12		LG2.62
S4A-C1	S4A-B2	2.25		LG1.75
S4A-B3	S4A-C2	2.25		LG1.75
S4A-C2	S4A-A4	3.12		LG2.62
S4A-A5	S4A-C3	3.12		LG2.62
S4A-C3	S4A-B4	2.25		LG1.75
S4A-B5	S4A-C4	2.25		LG1.75
S4A-C4	S4A-A6	3.12		LG2.62
S4A-A7	S4A-C5	3.12		LG2.62
S4A-C5	S4A-B6	2.25		LG1.75
S4A-B7	S4A-C6	2.25		LG1.75
S4A-C6	S4A-A8	3.12		LG2.62
S4A-A9	S4A-C7	3.12		LG2.62
S4A-C7	S4A-B8	2.25		LG1.75
S4A-C8	S4A-B9	2.25		LG1.75
S4B-A2	S4B-B1	3.38		LG2.88
S4B-B2	S4B-C1	2.25		LG1.75
S4B-C1	S4B-A3	3.12		LG2.62
S4B-A4	S4B-C2	3.12		LG2.62
S4B-C2	S4B-B3	2.25		LG1.75
S4B-B4	S4B-C3	2.25		LG1.75
S4B-C3	S4B-A5	3.12		LG2.62
S4B-A6	S4B-C4	3.12		LG2.62
S4B-C4	S4B-B5	2.25		LG1.75
S4B-B6	S4B-C5	2.25		LG1.75
S4B-C5	S4B-A7	3.12		LG2.62
S4B-A8	S4B-C6	3.12		LG2.62
S4B-C6	S4B-B7	2.25		LG1.75
S4B-B8	S4B-C7	2.25		LG1.75
S4B-C7	S4B-A9	3.12		LG2.62
S4B-C8	S4B-B9	2.25	1	LG1.75

JUMPER LIST				ATTACH
FROM	TO	LENGTH	FIND NO	FIND NO. 2
S6A-A2	S6A-B1	3.38	1	LG2.88
S6A-A3	S6A-C1	3.12		LG2.62
S6A-C1	S6A-B2	2.25		LG1.75
S6A-B3	S6A-C2	2.25		LG1.75
S6A-C2	S6A-A4	3.12		LG2.62
S6A-A5	S6A-C3	3.12		LG2.62
S6A-C3	S6A-B4	2.25		LG1.75
S6A-B5	S6A-C4	2.25		LG1.75
S6A-C4	S6A-A6	3.12		LG2.62
S6A-A7	S6A-C5	3.12		LG2.62
S6A-C5	S6A-B6	2.25		LG1.75
S6A-B7	S6A-C6	2.25		LG1.75
S6A-C6	S6A-A8	3.12		LG2.62
S6A-A9	S6A-C7	3.12		LG2.62
S6A-C7	S6A-B8	2.25		LG1.75
S6A-C8	S6A-B9	2.25		LG1.75
S6B-A2	S6B-B1	3.38		LG2.88
S6B-B2	S6B-C1	2.25		LG1.75
S6B-C1	S6B-A3	3.12		LG2.62
S6B-A4	S6B-C2	3.12		LG2.62
S6B-C2	S6B-B3	2.25		LG1.75
S6B-B4	S6B-C3	2.25		LG1.75
S6B-C3	S6B-A5	3.12		LG2.62
S6B-A6	S6B-C4	3.12		LG2.62
S6B-C4	S6B-B5	2.25		LG1.75
S6B-B6	S6B-C5	2.25		LG1.75
S6B-C5	S6B-A7	3.12		LG2.62
S6B-A8	S6B-C6	3.12		LG2.62
S6B-C6	S6B-B7	2.25		LG1.75
S6B-B8	S6B-C7	2.25		LG1.75
S6B-C7	S6B-A9	3.12		LG2.62
S6B-C8	S6B-B9	2.25	1	LG1.75
S5A-A4	S5B-A1	5.00*	3	
S5B-A2	S5A-A5	4.75*		
S5A-A6	S5B-A3	4.13*		
S5A-A7	S5B-A4	3.38*		
S5A-A8	S5B-A5	3.00*		
S5A-A9	S5B-A6	3.00*		
S5A-C8	S5B-C5	3.50*		
S5A-C9	S5B-C6	3.50*		
S7A-A4	S7B-A1	5.00*		
S7B-A2	S7A-A5	4.75*		
S7A-A6	S7B-A3	4.13*		
S7A-B6	S7B-B3	4.25*		
S7A-B7	S7B-B4	5.38*		
S7A-B8	S7B-B5	5.38*		
S7A-C8	S7B-C5	3.50*		
S7A-C9	S7B-C6	3.50*		
S1A-A4	S1B-A1	5.00*		
S1B-A2	S1A-A5	4.75*		
S1A-A6	S1B-A3	4.13*		
S1A-A7	S1B-A4	3.38*		
S1A-A8	S1B-A5	3.00*		
S1A-A9	S1B-A6	3.00*		
S1A-C8	S1B-C5	3.50*		
S1A-C9	S1B-C6	3.50*		
S8A-A4	S8B-A1	5.00*		
S8B-A2	S8A-A5	4.75*		
S8A-A6	S8B-A3	4.13*		
S8A-B6	S8B-B3	4.25*		
S8A-B7	S8B-B4	5.38*		
S8A-B8	S8B-B5	5.38*		
S8A-B9	S8B-B6	3.75*		
S8A-C9	S8B-B7	3.50*		
S4A-A4	S4B-A1	5.00*		
S4A-A5	S4B-A2	4.75*		
S4A-A6	S4B-A3	4.13*		
S4A-B6	S4B-B3	4.25*		
S4A-B7	S4B-B4	5.38*		
S4A-B8	S4B-B5	5.38*		
S4A-B9	S4B-B6	3.75*		
S4A-C9	S4B-B7	3.50*		
S6A-A4	S6B-A1	5.00*		
S6A-A5	S6B-A2	4.75*		
S6A-A6	S6B-A3	4.13*		
S6A-A7	S6B-A4	3.38*		
S6A-A8	S6B-A5	3.00*		
S6A-A9	S6B-A6	3.00*		
S6A-B9	S6B-B6	3.75*		
S6A-C9	S6B-B7	3.50*		
S11-1A	S12-4	4.00*		
S12-3	S12-1	1.00*	3	

*STRIP .25 BOTH ENDS

NOTES
1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032
2. SOLDER PER MIL-S-6872

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR 03835		
A	CHANGED PER TDRR NO 06765 DR CHK APPD		

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03835 DATE 10/10/63

MASTER

AR	MIL-W-... TYPE E22 WHT	WIRE, ELEC	3
AR	1006776-21	INSULATION, SLEEVING	2
AR	1006787-3	WIRE, ELECTRICAL	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014158	1014124

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED
APPROVAL C. Sperling 30 Sept 63
APPROVAL
NASA APPROVAL
UNIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LEAD, ELECTRICAL
LOGIC DRAWER NO. 1
FRONT PANEL

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014442
SCALE NONE WT SHEET 1 OF 1

1014442

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR 03P3[illegible]		
A	CHANGED PER TDRR NO 06765 DR [illegible] CHK [illegible] APPD [illegible]	[illegible] 64	[illegible]
B	CHANGED PER TDRR 09768 DR [illegible] CHK [illegible] APPD [illegible]	9 JUN 64	[illegible]

JUMPER LIST				ATTACH
FROM	TO	LENGTH	FIND NO.	FIND NO.2
S5A-A2	S5A-B1	3.38	1	LG2.88
S5A-A3	S5A-B2	3.38		LG2.88
S5A-B2	S5A-C1	2.25		LG1.75
S5A-C2	S5A-B3	2.25		LG1.75
S5A-B3	S5A-A4	3.38		LG2.88
S5A-A5	S5A-B4	3.38		LG2.88
S5A-B4	S5A-C3	2.25		LG1.75
S5A-C4	S5A-B5	2.25		LG1.75
S5A-B5	S5A-A6	3.38		LG2.88
S5A-A7	S5A-B6	3.38		LG2.88
S5A-B6	S5A-C5	2.25		LG1.75
S5A-C6	S5A-B7	2.25		LG1.75
S5A-B7	S5A-A8	3.38		LG2.88
S5A-A9	S5A-B8	3.38		LG2.88
S5A-B8	S5A-C7	2.25		LG1.75
S5A-C8	S5A-B9	2.25		LG1.75
S5B-A2	S5B-B1	3.38		LG2.88
S5B-C1	S5B-B2	2.25		LG1.75
S5B-B2	S5B-A3	3.38		LG2.88
S5B-A4	S5B-B3	3.38		LG2.88
S5B-B3	S5B-C2	2.25		LG1.75
S5B-C3	S5B-B4	2.25		LG1.75
S5B-B4	S5B-A5	3.38		LG2.88
S5B-A6	S5B-B5	3.38		LG2.88
S5B-B5	S5B-C4	2.25		LG1.75
S5B-C5	S5B-B6	2.25		LG1.75
S5B-B6	S5B-A7	3.38		LG2.88
S5B-A8	S5B-B7	3.38		LG2.88
S5B-C6	S5B-B7	2.50		LG2.62
S5B-C7	S5B-B8	2.25		LG1.75
S5B-B8	S5B-A9	3.38		LG2.88
S5B-C8	S5B-B9	2.25		LG1.75
S7A-A2	S7A-B1	3.38		LG2.88
S7A-A3	S7A-B2	3.38		LG2.88
S7A-B2	S7A-C1	2.25		LG1.75
S7A-C2	S7A-B3	2.25		LG1.75
S7A-B3	S7A-A4	3.38		LG2.88
S7A-A5	S7A-B4	3.38		LG2.88
S7A-B4	S7A-C3	2.25		LG1.75
S7A-C4	S7A-B5	2.25		LG1.75
S7A-B5	S7A-A6	3.38		LG2.88
S7A-A7	S7A-B6	3.38		LG2.88
S7A-B6	S7A-C5	2.25		LG1.75
S7A-C6	S7A-B7	2.25		LG1.75
S7A-B7	S7A-A8	3.38		LG2.88
S7A-A9	S7A-B8	3.38		LG2.88
S7A-B8	S7A-C7	2.25		LG1.75
S7A-C8	S7A-B9	2.25		LG1.75
S7B-A2	S7B-B1	3.38		LG2.88
S7B-C1	S7B-B2	2.25		LG1.75
S7B-B2	S7B-A3	3.38		LG2.88
S7B-A4	S7B-B3	3.38		LG2.88
S7B-B3	S7B-C2	2.25		LG1.75
S7B-C3	S7B-B4	2.25		LG1.75
S7B-B4	S7B-A5	3.38		LG2.88
S7B-A6	S7B-B5	3.38		LG2.88
S7B-B5	S7B-C4	2.25		LG1.75
S7B-C5	S7B-B6	2.25		LG1.75
S7B-B6	S7B-A7	3.38		LG2.88
S7B-A8	S7B-B7	3.38		LG2.88
S7B-B7	S7B-C6	2.25		LG1.75
S7B-C7	S7B-B8	2.25		LG1.75
S7B-B8	S7B-A9	3.38		LG2.88
S7B-C8	S7B-B9	2.25		LG1.75
S1A-A2	S1A-B1	3.38		LG2.88
S1A-A3	S1A-B2	3.38		LG2.88
S1A-B2	S1A-C1	2.25		LG1.75
S1A-C2	S1A-B3	2.25		LG1.75
S1A-B3	S1A-A4	3.38		LG2.88
S1A-A5	S1A-B4	3.38		LG2.88
S1A-B4	S1A-C3	2.25		LG1.75
S1A-C4	S1A-B5	2.25		LG1.75
S1A-B5	S1A-A6	3.38		LG2.88
S1A-A7	S1A-B6	3.38		LG2.88
S1A-B6	S1A-C5	2.25		LG1.75
S1A-C6	S1A-B7	2.25		LG1.75
S1A-B7	S1A-A8	3.38		LG2.88
S1A-A9	S1A-B8	3.38		LG2.88
S1A-B8	S1A-C7	2.25		LG1.75
S1A-C8	S1A-B9	2.25	1	LG1.75

JUMPER LIST				ATTACH
FROM	TO	LENGTH	FIND NO.	FIND NO.2
S1B-A2	S1B-B1	3.38	1	LG2.88
S1B-C1	S1B-B2	2.25		LG1.75
S1B-B2	S1B-A3	3.38		LG2.88
S1B-A4	S1B-B3	3.38		LG2.88
S1B-B3	S1B-C2	2.25		LG1.75
S1B-C3	S1B-B4	2.25		LG1.75
S1B-B4	S1B-A5	3.38		LG2.88
S1B-A6	S1B-B5	3.38		LG2.88
S1B-B5	S1B-C4	2.25		LG1.75
S1B-C5	S1B-B6	2.25		LG1.75
S1B-B6	S1B-A7	3.38		LG2.88
S1B-A8	S1B-B7	3.38		LG2.88
S1B-B7	S1B-C6	2.25		LG1.75
S1B-C7	S1B-B8	2.25		LG1.75
S1B-B8	S1B-A9	3.38		LG2.88
S1B-C8	S1B-B9	2.25		LG1.75
S8A-A2	S8A-B1	3.38		LG2.88
S8A-A3	S8A-C1	3.12		LG2.62
S8A-C1	S8A-B2	2.25		LG1.75
S8A-B3	S8A-C2	2.25		LG1.75
S8A-C2	S8A-A4	3.12		LG2.62
S8A-A5	S8A-C3	3.12		LG2.62
S8A-C3	S8A-B4	2.25		LG1.75
S8A-B5	S8A-C4	2.25		LG1.75
S8A-C4	S8A-A6	3.12		LG2.62
S8A-A7	S8A-C5	3.12		LG2.62
S8A-C5	S8A-B6	2.25		LG1.75
S8A-B7	S8A-C6	2.25		LG1.75
S8A-C6	S8A-A8	3.12		LG2.62
S8A-A9	S8A-C7	3.12		LG2.62
S8A-C7	S8A-B8	2.25		LG1.75
S8A-C8	S8A-B9	2.25		LG1.75
S8B-A2	S8B-B1	3.38		LG2.88
S8B-B2	S8B-C1	2.25		LG1.75
S8B-C1	S8B-A3	3.12		LG2.62
S8B-A4	S8B-C2	3.12		LG2.62
S8B-C2	S8B-B3	2.25		LG1.75
S8B-B4	S8B-C3	2.25		LG1.75
S8B-C3	S8B-A5	3.12		LG2.62
S8B-A6	S8B-C4	3.12		LG2.62
S8B-C4	S8B-B5	2.25		LG1.75
S8B-B6	S8B-C5	2.25		LG1.75
S8B-C5	S8B-A7	3.12		LG2.62
S8B-A8	S8B-C6	3.12		LG2.62
S8B-C6	S8B-B7	2.25		LG1.75
S8B-B8	S8B-C7	2.25		LG1.75
S8B-C7	S8B-A9	3.12		LG2.62
S8B-C8	S8B-B9	2.25		LG1.75
S4A-A2	S4A-B1	3.38		LG2.88
S4A-A3	S4A-C1	3.12		LG2.62
S4A-C1	S4A-B2	2.25		LG1.75
S4A-B3	S4A-C2	2.25		LG1.75
S4A-C2	S4A-A4	3.12		LG2.62
S4A-A5	S4A-C3	3.12		LG2.62
S4A-C3	S4A-B4	2.25		LG1.75
S4A-B5	S4A-C4	2.25		LG1.75
S4A-C4	S4A-A6	3.12		LG2.62
S4A-A7	S4A-C5	3.12		LG2.62
S4A-C5	S4A-B6	2.25		LG1.75
S4A-B7	S4A-C6	2.25		LG1.75
S4A-C6	S4A-A8	3.12		LG2.62
S4A-A9	S4A-C7	3.12		LG2.62
S4A-C7	S4A-B8	2.25		LG1.75
S4A-C8	S4A-B9	2.25		LG1.75
S4B-A2	S4B-B1	3.38		LG2.88
S4B-B2	S4B-C1	2.25		LG1.75
S4B-C1	S4B-A3	3.12		LG2.62
S4B-A4	S4B-C2	3.12		LG2.62
S4B-C2	S4B-B3	2.25		LG1.75
S4B-B4	S4B-C3	2.25		LG1.75
S4B-C3	S4B-A5	3.12		LG2.62
S4B-A6	S4B-C4	3.12		LG2.62
S4B-C4	S4B-B5	2.25		LG1.75
S4B-B6	S4B-C5	2.25		LG1.75
S4B-C5	S4B-A7	3.12		LG2.62
S4B-A8	S4B-C6	3.12		LG2.62
S4B-C6	S4B-B7	2.25		LG1.75
S4B-B8	S4B-C7	2.25		LG1.75
S4B-C7	S4B-A9	3.12		LG2.62
S4B-C8	S4B-B9	2.25	1	LG1.75

JUMPER LIST				ATTACH
FROM	TO	LENGTH	FIND NO	FIND NO.2
S6A-A2	S6A-B1	3.38	1	LG2.88
S6A-A3	S6A-C1	3.12		LG2.62
S6A-C1	S6A-B2	2.25		LG1.75
S6A-B3	S6A-C2	2.25		LG1.75
S6A-C2	S6A-A4	3.12		LG2.62
S6A-A5	S6A-C3	3.12		LG2.62
S6A-C3	S6A-B4	2.25		LG1.75
S6A-B5	S6A-C4	2.25		LG1.75
S6A-C4	S6A-A6	3.12		LG2.62
S6A-A7	S6A-C5	3.12		LG2.62
S6A-C5	S6A-B6	2.25		LG1.75
S6A-B7	S6A-C6	2.25		LG1.75
S6A-C6	S6A-A8	3.12		LG2.62
S6A-A9	S6A-C7	3.12		LG2.62
S6A-C7	S6A-B8	2.25		LG1.75
S6A-C8	S6A-B9	2.25		LG1.75
S6B-A2	S6B-B1	3.38		LG2.88
S6B-B2	S6B-C1	2.25		LG1.75
S6B-C1	S6B-A3	3.12		LG2.62
S6B-A4	S6B-C2	3.12		LG2.62
S6B-C2	S6B-B3	2.25		LG1.75
S6B-B4	S6B-C3	2.25		LG1.75
S6B-C3	S6B-A5	3.12		LG2.62
S6B-A6	S6B-C4	3.12		LG2.62
S6B-C4	S6B-B5	2.25		LG1.75
S6B-B6	S6B-C5	2.25		LG1.75
S6B-C5	S6B-A7	3.12		LG2.62
S6B-A8	S6B-C6	3.12		LG2.62
S6B-C6	S6B-B7	2.25		LG1.75
S6B-B8	S6B-C7	2.25		LG1.75
S6B-C7	S6B-A9	3.12		LG2.62
S6B-C8	S6B-B9	2.25	1	LG1.75
S5A-A4	S5B-A1	5.00*	3	
S5B-A2	S5A-A5	4.75*		
S5A-A6	S5B-A3	4.13*		
S5A-A7	S5B-A4	3.38*		
S5A-A8	S5B-A5	3.00*		
S5A-A9	S5B-A6	3.00*		
S5A-C8	S5B-C5	3.50*		
S5A-C9	S5B-C6	3.50*		
S7A-A4	S7B-A1	5.00*		
S7B-A2	S7A-A5	4.75*		
S7A-A6	S7B-A3	4.13*		
S7A-B6	S7B-B3	4.25*		
S7A-B7	S7B-B4	5.38*		
S7A-B8	S7B-B5	5.38*		
S7A-C8	S7B-C5	3.50*		
S7A-C9	S7B-C6	3.50*		
S1A-A4	S1B-A1	5.00*		
S1B-A2	S1A-A5	4.75*		
S1A-A6	S1B-A3	4.13*		
S1A-A7	S1B-A4	3.38*		
S1A-A8	S1B-A5	3.00*		
S1A-A9	S1B-A6	3.00*		
S1A-C8	S1B-C5	3.50*		
S1A-C9	S1B-C6	3.50*		
S8A-A4	S8B-A1	5.00*		
S8B-A2	S8A-A5	4.75*		
S8A-A6	S8B-A3	4.13*		
S8A-B6	S8B-B3	4.25*		
S8A-B7	S8B-B4	5.38*		
S8A-B8	S8B-B5	5.38*		
S8A-B9	S8B-B6	3.75*		
S8A-C9	S8B-B7	3.50*		
S4A-A4	S4B-A1	5.00*		
S4A-A5	S4B-A2	4.75*		
S4A-A6	S4B-A3	4.13*		
S4A-B6	S4B-B3	4.25*		
S4A-B7	S4B-B4	5.38*		
S4A-B8	S4B-B5	5.38*		
S4A-B9	S4B-B6	3.75*		
S4A-C9	S4B-B7	3.50*		
S6A-A4	S6B-A1	5.00*		
S6A-A5	S6B-A2	4.75*		
S6A-A6	S6B-A3	4.13*		
S6A-A7	S6B-A4	3.38*		
S6A-A8	S6B-A5	3.00*		
S6A-A9	S6B-A6	3.00*		
S6A-B9	S6B-B6	3.75*		
S6A-C9	S6B-B7	3.50*		
S11-1A	S12-4	4.00*		
S12-3	S12-1	1.00*	3	

* STRIP .25 BOTH ENDS

NOTES

1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032
2. SOLDER PER MIL-S-6872

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03P35 DATE 10/10/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	MIL-W-16878/4 TYPE EE WHT	WIRE, ELEC	3
AR	1006776-21	INSULATION, SLEEVING	2
AR	1006787-3	WIRE, ELECTRICAL	1

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

NEXT ASSY	USED ON
1014158	1014124

APPLICATION

RAYTHEON CO
LEXINGTON, MASS
CONTRACT NO. NAS [illegible]
DRAWN [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

LEAD, ELECTRICAL
LOGIC DRAWER NO.4
FRONT PANEL

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014442
SCALE NONE
SHEET 1 OF 1

MASTER

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 03P35		

JUMPER LIST				ATTACH
FROM	TO	LENGTH	FIND NO.	FIND NO. 2
S5A-A2	S5A-B1	3.62	1	LG2.88
S5A-A3	S5A-B2	3.62		LG2.88
S5A-B2	S5A-C1	2.50		LG1.75
S5A-C2	S5A-B3	2.50		LG1.75
S5A-B3	S5A-A4	3.62		LG2.88
S5A-A5	S5A-B4	3.62		LG2.88
S5A-B4	S5A-C3	2.50		LG1.75
S5A-C4	S5A-B5	2.50		LG1.75
S5A-B5	S5A-A6	3.62		LG2.88
S5A-A7	S5A-B6	3.62		LG2.88
S5A-B6	S5A-C5	2.50		LG1.75
S5A-C6	S5A-B7	2.50		LG1.75
S5A-B7	S5A-A8	3.62		LG2.88
S5A-A9	S5A-B8	3.62		LG2.88
S5A-B8	S5A-C7	2.50		LG1.75
S5A-C8	S5A-B9	2.50		LG1.75
S5B-A2	S5B-B1	3.62		LG2.88
S5B-C1	S5B-B2	2.50		LG1.75
S5B-B2	S5B-A3	3.62		LG2.88
S5B-A4	S5B-B3	3.62		LG2.88
S5B-B3	S5B-C2	2.50		LG1.75
S5B-C3	S5B-B4	2.50		LG1.75
S5B-B4	S5B-A5	3.62		LG2.88
S5B-A6	S5B-B5	3.62		LG2.88
S5B-B5	S5B-C4	2.50		LG1.75
S5B-C5	S5B-B6	2.50		LG1.75
S5B-B6	S5B-A7	3.62		LG2.88
S5B-A8	S5B-B7	3.62		LG2.88
S5B-B7	S5B-C9	3.12		LG2.38
S5B-C7	S5B-B8	2.50		LG1.75
S5B-B8	S5B-A9	3.62		LG2.88
S5B-C8	S5B-B9	2.50		LG1.75
S7A-A2	S7A-B1	3.62		LG2.88
S7A-A3	S7A-B2	3.62		LG2.88
S7A-B2	S7A-C1	2.50		LG1.75
S7A-C2	S7A-B3	2.50		LG1.75
S7A-B3	S7A-A4	3.62		LG2.88
S7A-A5	S7A-B4	3.62		LG2.88
S7A-B4	S7A-C3	2.50		LG1.75
S7A-C4	S7A-B5	2.50		LG1.75
S7A-B5	S7A-A6	3.62		LG2.88
S7A-A7	S7A-B6	3.62		LG2.88
S7A-B6	S7A-C5	2.50		LG1.75
S7A-C6	S7A-B7	2.50		LG1.75
S7A-B7	S7A-A8	3.62		LG2.88
S7A-A9	S7A-B8	3.62		LG2.88
S7A-B8	S7A-C7	2.50		LG1.75
S7A-C8	S7A-B9	2.50		LG1.75
S7B-A2	S7B-B1	3.62		LG2.88
S7B-C1	S7B-B2	2.50		LG1.75
S7B-B2	S7B-A3	3.62		LG2.88
S7B-A4	S7B-B3	3.62		LG2.88
S7B-B3	S7B-C2	2.50		LG1.75
S7B-C3	S7B-B4	2.50		LG1.75
S7B-B4	S7B-A5	3.62		LG2.88
S7B-A6	S7B-B5	3.62		LG2.88
S7B-B5	S7B-C4	2.50		LG1.75
S7B-C5	S7B-B6	2.50		LG1.75
S7B-B6	S7B-A7	3.62		LG2.88
S7B-A8	S7B-B7	3.62		LG2.88
S7B-B7	S7B-C6	2.50		LG1.75
S7B-C7	S7B-B8	2.50		LG1.75
S7B-B8	S7B-A9	3.62		LG2.88
S7B-C8	S7B-B9	2.50		LG1.75
S1A-A2	S1A-B1	3.62		LG2.88
S1A-A3	S1A-B2	3.62		LG2.88
S1A-B2	S1A-C1	2.50		LG1.75
S1A-C2	S1A-B3	2.50		LG1.75
S1A-B3	S1A-A4	3.62		LG2.88
S1A-A5	S1A-B4	3.62		LG2.88
S1A-B4	S1A-C3	2.50		LG1.75
S1A-C4	S1A-B5	2.50		LG1.75
S1A-B5	S1A-A6	3.62		LG2.88
S1A-A7	S1A-B6	3.62		LG2.88
S1A-B6	S1A-C5	2.50		LG1.75
S1A-C6	S1A-B7	2.50		LG1.75
S1A-B7	S1A-A8	3.62		LG2.88
S1A-A9	S1A-B8	3.62		LG2.88
S1A-B8	S1A-C7	2.50		LG1.75
S1A-C8	S1A-B9	2.50	1	LG1.75

JUMPER LIST				ATTACH
FROM	TO	LENGTH	FIND NO.	FIND NO. 2
S1B-A2	S1B-B1	3.62	1	LG2.88
S1B-C1	S1B-B2	2.50		LG1.75
S1B-B2	S1B-A3	3.62		LG2.88
S1B-A4	S1B-B3	3.62		LG2.88
S1B-B3	S1B-C2	2.50		LG1.75
S1B-C3	S1B-B4	2.50		LG1.75
S1B-B4	S1B-A5	3.62		LG2.88
S1B-A6	S1B-B5	3.62		LG2.88
S1B-B5	S1B-C4	2.50		LG1.75
S1B-C5	S1B-B6	2.50		LG1.75
S1B-B6	S1B-A7	3.62		LG2.88
S1B-A8	S1B-B7	3.62		LG2.88
S1B-B7	S1B-C6	2.50		LG1.75
S1B-C7	S1B-B8	2.50		LG1.75
S1B-B8	S1B-A9	3.62		LG2.88
S1B-C8	S1B-B9	2.50		LG1.75
S8A-A2	S8A-B1	3.62		LG2.88
S8A-A3	S8A-C1	3.12		LG2.38
S8A-C1	S8A-B2	2.50		LG1.75
S8A-B3	S8A-C2	2.50		LG1.75
S8A-C2	S8A-A4	3.12		LG2.38
S8A-A5	S8A-C3	3.12		LG2.38
S8A-C3	S8A-B4	2.50		LG1.75
S8A-B5	S8A-C4	2.50		LG1.75
S8A-C4	S8A-A6	3.12		LG2.38
S8A-A7	S8A-C5	3.12		LG2.38
S8A-C5	S8A-B6	2.50		LG1.75
S8A-B7	S8A-C6	2.50		LG1.75
S8A-C6	S8A-A8	3.12		LG2.38
S8A-A9	S8A-C7	3.12		LG2.38
S8A-C7	S8A-B8	2.50		LG1.75
S8A-C8	S8A-B9	2.50		LG1.75
S8B-A2	S8B-B1	3.62		LG2.88
S8B-B2	S8B-C1	2.50		LG1.75
S8B-C1	S8B-A3	3.12		LG2.38
S8B-A4	S8B-C2	3.12		LG2.38
S8B-C2	S8B-B3	2.50		LG1.75
S8B-B4	S8B-C3	2.50		LG1.75
S8B-C3	S8B-A5	3.12		LG2.38
S8B-A6	S8B-C4	3.12		LG2.38
S8B-C4	S8B-B5	2.50		LG1.75
S8B-B6	S8B-C5	2.50		LG1.75
S8B-C5	S8B-A7	3.12		LG2.38
S8B-A8	S8B-C6	3.12		LG2.38
S8B-C6	S8B-B7	2.50		LG1.75
S8B-B8	S8B-C7	2.50		LG1.75
S8B-C7	S8B-A9	3.12		LG2.38
S8B-C8	S8B-B9	2.50		LG1.75
S4A-A2	S4A-B1	3.62		LG2.88
S4A-A3	S4A-C1	3.12		LG2.38
S4A-C1	S4A-B2	2.50		LG1.75
S4A-B3	S4A-C2	2.50		LG1.75
S4A-C2	S4A-A4	3.12		LG2.38
S4A-A5	S4A-C3	3.12		LG2.38
S4A-C3	S4A-B4	2.50		LG1.75
S4A-B5	S4A-C4	2.50		LG1.75
S4A-C4	S4A-A6	3.12		LG2.38
S4A-A7	S4A-C5	3.12		LG2.38
S4A-C5	S4A-B6	2.50		LG1.75
S4A-B7	S4A-C6	2.50		LG1.75
S4A-C6	S4A-A8	3.12		LG2.38
S4A-A9	S4A-C7	3.12		LG2.38
S4A-C7	S4A-B8	2.50		LG1.75
S4A-C8	S4A-B9	2.50		LG1.75
S4B-A2	S4B-B1	3.62		LG2.88
S4B-B2	S4B-C1	2.50		LG1.75
S4B-C1	S4B-A3	3.12		LG2.38
S4B-A4	S4B-C2	3.12		LG2.38
S4B-C2	S4B-B3	2.50		LG1.75
S4B-B4	S4B-C3	2.50		LG1.75
S4B-C3	S4B-A5	3.12		LG2.38
S4B-A6	S4B-C4	3.12		LG2.38
S4B-C4	S4B-B5	2.50		LG1.75
S4B-B6	S4B-C5	2.50		LG1.75
S4B-C5	S4B-A7	3.12		LG2.38
S4B-A8	S4B-C6	3.12		LG2.38
S4B-C6	S4B-B7	2.50		LG1.75
S4B-B8	S4B-C7	2.50		LG1.75
S4B-C7	S4B-A9	3.12		LG2.38
S4B-C8	S4B-B9	2.50	1	LG1.75

JUMPER LIST				ATTACH
FROM	TO	LENGTH	FIND NO	FIND NO. 2
S6A-A2	S6A-B1	3.62	1	LG2.88
S6A-A3	S6A-C1	3.12		LG2.38
S6A-C1	S6A-B2	2.50		LG1.75
S6A-B3	S6A-C2	2.50		LG1.75
S6A-C2	S6A-A4	3.12		LG2.38
S6A-A5	S6A-C3	3.12		LG2.38
S6A-C3	S6A-B4	2.50		LG1.75
S6A-B5	S6A-C4	2.50		LG1.75
S6A-C4	S6A-A6	3.12		LG2.38
S6A-A7	S6A-C5	3.12		LG2.38
S6A-C5	S6A-B6	2.50		LG1.75
S6A-B7	S6A-C6	2.50		LG1.75
S6A-C6	S6A-A8	3.12		LG2.38
S6A-A9	S6A-C7	3.12		LG2.38
S6A-C7	S6A-B8	2.50		LG1.75
S6A-C8	S6A-B9	2.50		LG1.75
S6B-A2	S6B-B1	3.62		LG2.88
S6B-B2	S6B-C1	2.50		LG1.75
S6B-C1	S6B-A3	3.12		LG2.38
S6B-A4	S6B-C2	3.12		LG2.38
S6B-C2	S6B-B3	2.50		LG1.75
S6B-B4	S6B-C3	2.50		LG1.75
S6B-C3	S6B-A5	3.12		LG2.38
S6B-A6	S6B-C4	3.12		LG2.38
S6B-C4	S6B-B5	2.50		LG1.75
S6B-B6	S6B-C5	2.50		LG1.75
S6B-C5	S6B-A7	3.12		LG2.38
S6B-A8	S6B-C6	3.12		LG2.38
S6B-C6	S6B-B7	2.50		LG1.75
S6B-B8	S6B-C7	2.50		LG1.75
S6B-C7	S6B-A9	3.12		LG2.38
S6B-C8	S6B-B9	2.50	1	LG1.75
S5A-A4	S5B-A1	5.00	3	
S5B-A2	S5A-A5	4.88		
S5A-A6	S5B-A3	4.75		
S5A-A7	S5B-A4	4.75		
S5A-A8	S5B-A5	4.88		
S5A-A9	S5B-A6	5.00		
S5A-C8	S5B-C5	5.12		
S5A-C9	S5B-C6	5.25		
S7A-A4	S7B-A1	5.00		
S7B-A2	S7A-A5	4.88		
S7A-A6	S7B-A3	4.75		
S7A-A7	S7B-A4	4.75		
S7A-A8	S7B-A5	4.88		
S7A-A9	S7B-A6	5.00		
S7A-C8	S7B-C5	5.12		
S7A-C9	S7B-C6	5.25		
S1A-A4	S1B-A1	5.00		
S1B-A2	S1A-A5	4.88		
S1A-A6	S1B-A3	4.75		
S1A-A7	S1B-A4	4.75		
S1A-A8	S1B-A5	4.88		
S1A-A9	S1B-A6	5.00		
S1A-C8	S1B-C5	5.12		
S1A-C9	S1B-C6	5.25		
S8A-A4	S8B-A1	5.00		
S8B-A2	S8A-A5	4.88		
S8A-A6	S8B-A3	4.75		
S8A-A7	S8B-A4	4.75		
S8A-A8	S8B-A5	4.88		
S8A-A9	S8B-A6	5.00		
S8A-B9	S8B-B6	5.00		
S8A-C9	S8B-C6	5.25		
S4A-A4	S4B-A1	5.00		
S4A-A5	S4B-A2	4.88		
S4A-A6	S4B-A3	4.75		
S4A-A7	S4B-A4	4.75		
S4A-A8	S4B-A5	4.88		
S4A-A9	S4B-A6	5.00		
S4A-B9	S4B-B6	5.00		
S4A-C9	S4B-C6	5.25		
S6A-A4	S6B-A1	5.00		
S6A-A5	S6B-A2	4.88		
S6A-A6	S6B-A3	4.75		
S6A-A7	S6B-A4	4.75		
S6A-A8	S6B-A5	4.88		
S6A-A9	S6B-A6	5.00		
S6A-B9	S6B-B6	5.00		
S6A-C9	S6B-C6	5.25	3	

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 03835 DATE 10/10/63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032
2. SOLDER PER MIL-S-6872

AR	ND1002181 TYPE I CL I	WIRE, ELEC AWG 22 W T	3
AR	1006776-21	INSULATION, SLEEVING	2
AR	1006787-3	WIRE, ELECTRICAL	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014158	1014124
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

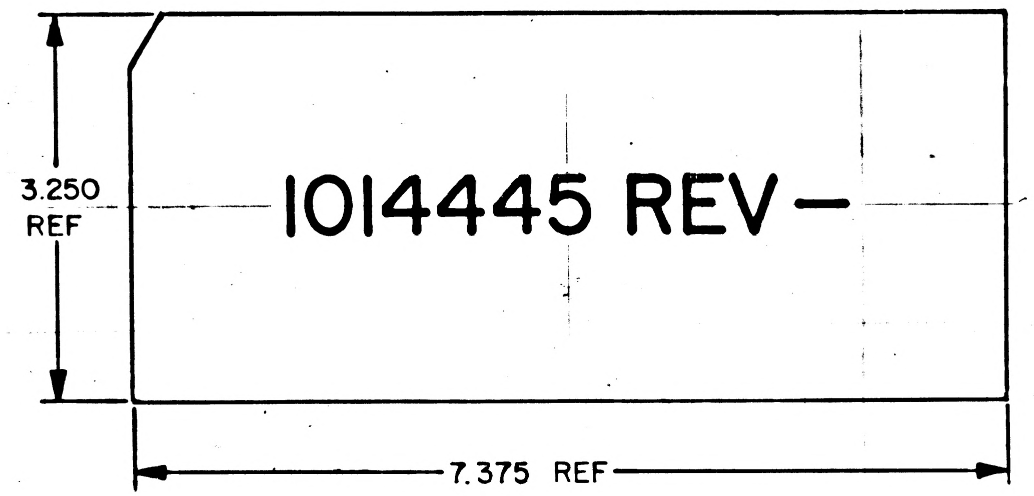
LEAD, ELECTRICAL
LOGIC DRAWER NO
FRONT PANEL

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014442
SCALE NONE
WT
SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER. AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASE PER TDRR 07360	[illegible]	[illegible]

DECK AA
NO OF CARDS 377



REFERENCE DRAWINGS
SCHEMATICS 1014488

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO DATE

NOTE:
NEGATIVE SHALL BE SCREENED TO 50% OF BLACK

RAYTHEON
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN [illegible] DATE [illegible]
CHECKED Jon W Miles
APPROVAL F O Bryant JJB
APPROVAL H W Morse PK
J S [illegible] RHB 3/31/64
NASA APPROVAL [illegible] 3/31/64
MIT APPROVAL [illegible] 3/31/64
MIT APPROVAL [illegible] 3-30-64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HAND WRAR
COMPUTER TEST SET
INTERCONNECTION PLATE
(A18)

CODE IDENT NO.	SIZE	NASA DRAWING NO.
-	B	1014445

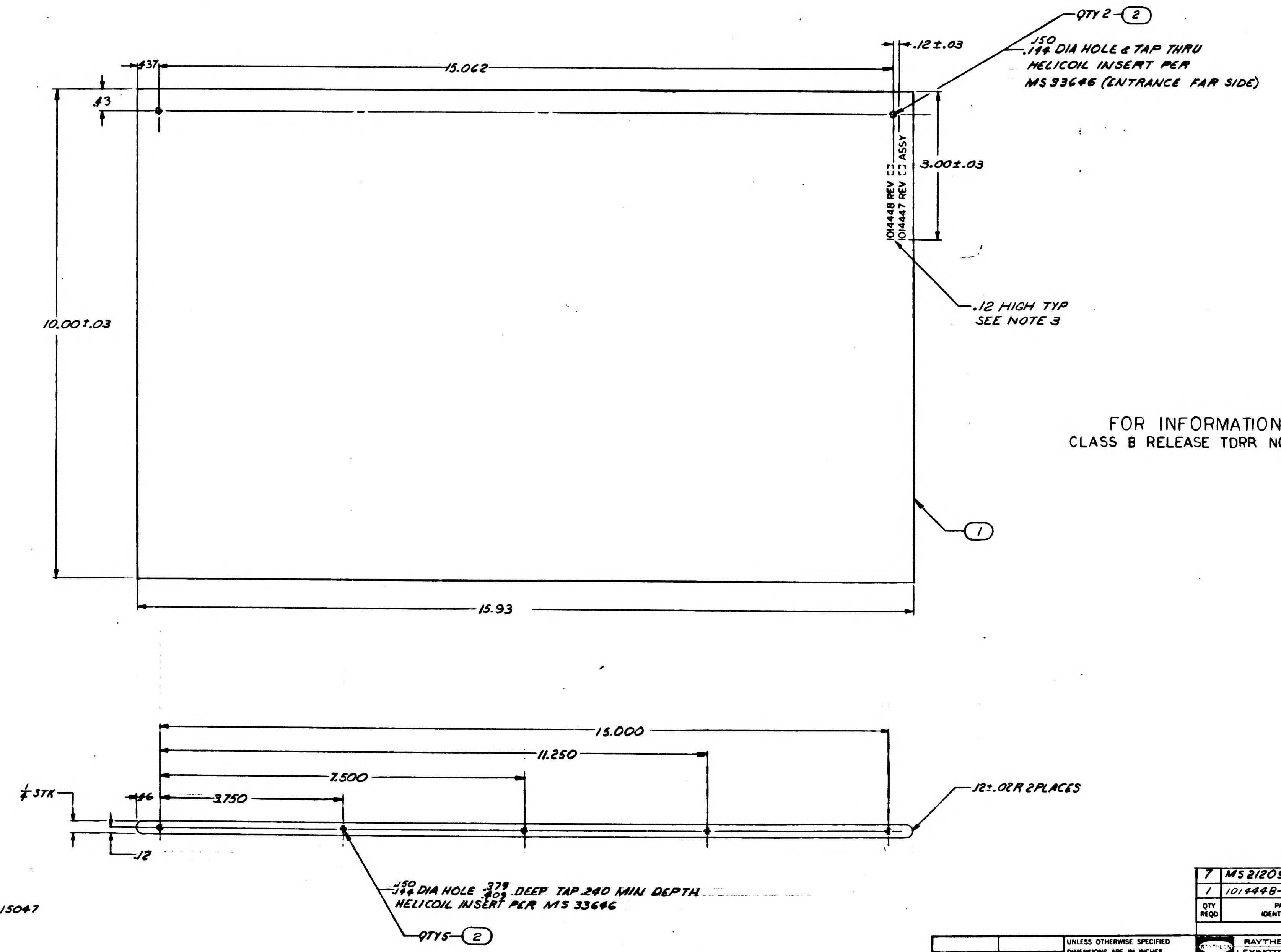
SCALE NONE | WT | SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR NO.		


QTY 2 — 2
.150 .144 DIA HOLE & TAP THRU HELICOIL INSERT PER MS 33646 (ENTRANCE FAR SIDE)
.12 ±.03
.437
15.062
.43
3.00±.03
1014448 REV ☐
1014447 REV ☐ ASSY
.12 HIGH TYP SEE NOTE 3
10.00±.03
1
15.93
15.000
11.250
7.500
3.750
.46
1/4 STK
.12
.12±.02R 2PLACES
.150 .144 DIA HOLE .379 .409 DEEP TAP .240 MIN DEPTH HELICOIL INSERT PER MS 33646
QTYS — 2

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03143 DATE 9/12/63

NOTES
1. MATL NYLON PHENOLIC PER MIL-P-15047
2. REMOVE SHARP EDGES
3. MARK BLACK PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
7	MS21209-C0615	INSERT, SCREW THD	2
1	1014448-1	SHELF, CABLE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014447	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.016 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

TRAY, CABLE

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014448
SCALE 1/1
WT
SHEET 1 OF 1

1014448

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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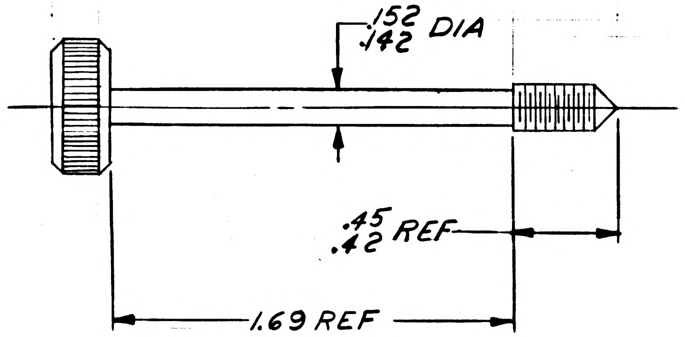
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03143 DATE 9/12/63

NOTES
1. REWORK FIND NO. 1 AS SHOWN
2. PASSIVATE REWORKED AREA PER MIL-F-14072, E300

1	1006850	THUMBSCREW, CAPTIVE	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014292	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 6AUG63
CHECKED W. J. Gifford 14AUG63
APPROVAL JPK
APPROVAL 9/3/63
APPROVAL 9/3/63
NASA APPROVAL 63
MIT APPROVAL 12 Sep 63
MIT APPROVAL 11 Sept 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

THUMBSCREW, CROSS RECESSED, CAPTIVE

CODE IDENT NO. — SIZE C NASA DRAWING NO. 1014452
SCALE 2/1 WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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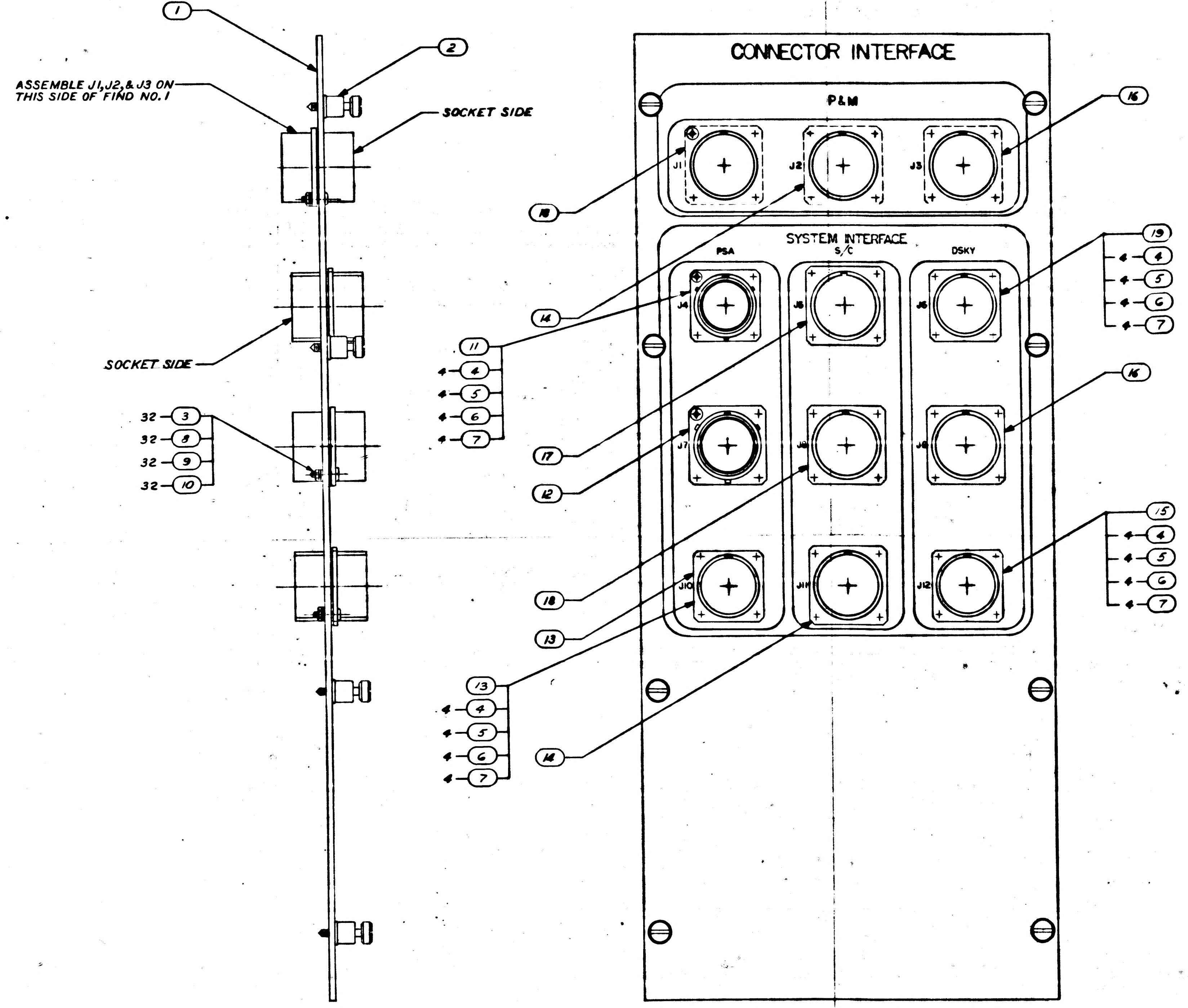
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
⑥ –	CLASS B RELEASED PER TDRR 02170	9/17	
A	CL III CHANGE PER RD-R 5512A DR H Mattoz CHK T. Dowd APPD	#1465	
B	CHANGED PER TDRR 08866 DR H. Kelley CHK H/W APPD	3 June 64	



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02170 DATE 9/17/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	MS3119E-22-55W	CONNECTOR	19
2	MS3119E-24-61X	CONNECTOR	18
1	MS3119E-24-61W	CONNECTOR	17
2	MS3119E-24-61Y	CONNECTOR	16
1	MS3119E-22-55Y	CONNECTOR	15
2	MS3119E-24-61Z	CONNECTOR	14
1	MS3119E-22-55X	CONNECTOR	13
1	MS3119E-24-61	CONNECTOR	12
1	MS3119E-22-55	CONNECTOR	11
32	MS35337-79	WASHER, LOCK	10
32	MS15795-305	WASHER, FLAT	9
32	MS35216-26	SCR, PAN HD, CROSS-RECESSED	8
16	MS35649-94	NUT, PLAIN HEX	7
16	MS35337-78	WASHER, LOCK	6
16	MS15795-303	WASHER, FLAT	5
16	MS35216-16	SCR, PAN HD, CROSS-RECESSED	4
32	MS35649-64	NUT, PLAIN HEX	3
8	1006942-2	FASTENER ASSEMBLY, CAPTIVE	2
1	1014454	PANEL	1

LIST OF MATERIALS

NOTE:
1. MARK APPLICABLE REV. NO. IN BLOCK PROVIDED PER ND1002019
2. NUMBERS PRECEDING BALLOONS DENOTE QUANTITIES

MASTER

NEXT ASSY	USED ON
1014465	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN P. Bousard DATE
CHECKED 7 Nov 1962
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL Jack Barnard
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRONT PANEL ASSY
CONNECTOR INTERFACE
AGC/CTS OPERATION
CONSOLE

CODE IDENT NO. —
SIZE F.
NASA DRAWING NO. 1014453
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014453

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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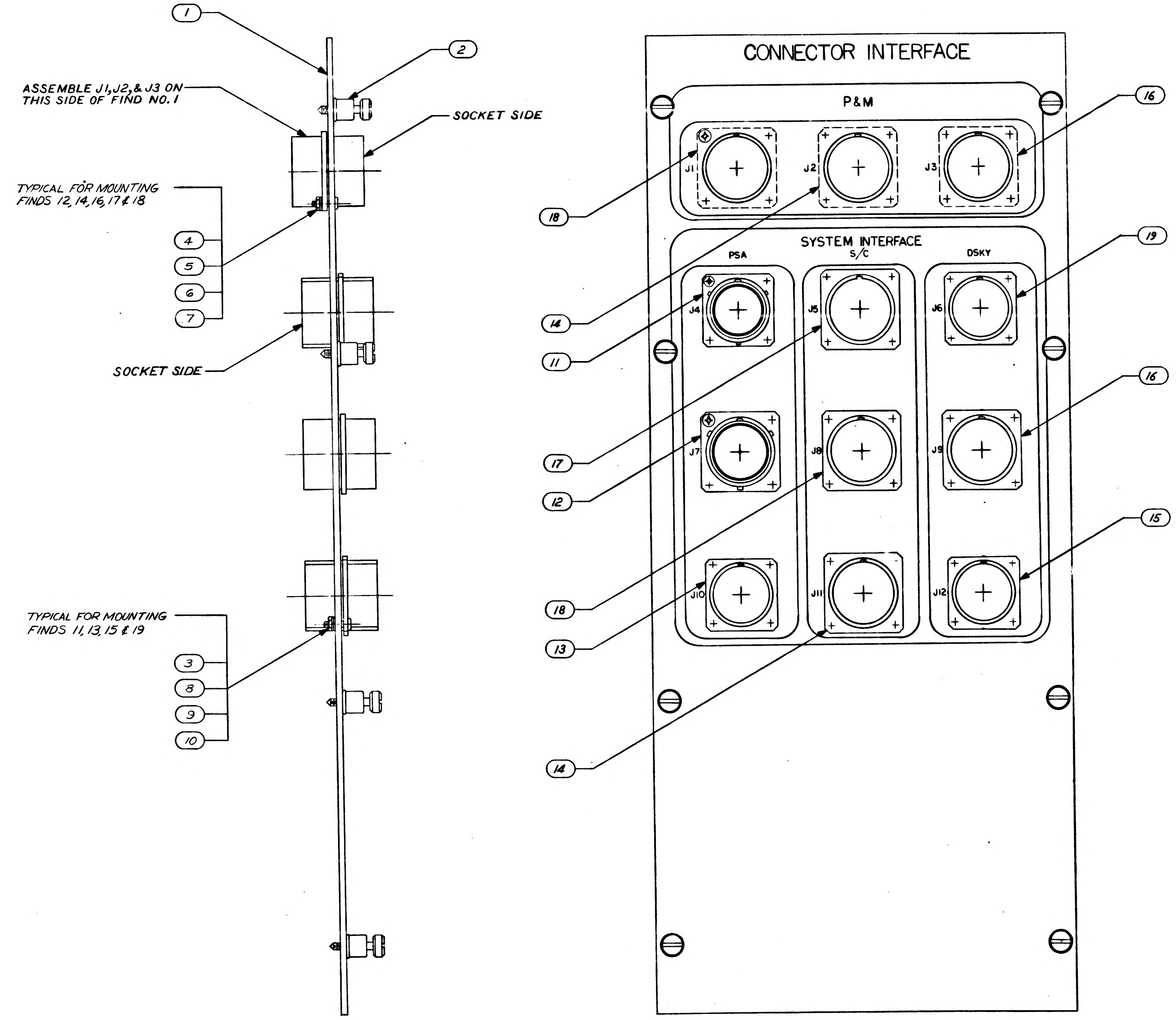
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 03 70	9 7 6	


1
2
ASSEMBLE J1, J2, & J3 ON THIS SIDE OF FIND NO. 1
SOCKET SIDE
TYPICAL FOR MOUNTING FINDS 12, 14, 16, 17 & 18
4
5
6
7
SOCKET SIDE
TYPICAL FOR MOUNTING FINDS 11, 13, 15 & 19
3
8
9
10
CONNECTOR INTERFACE
P&M
J1
J2
J3
SYSTEM INTERFACE
PSA
S/C
DSKY
J4
J5
J6
J7
J8
J9
J10
J11
J12
16
18
14
11
19
17
12
16
18
13
15
14

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02170 DATE 9/17/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	MS3119E-22-55W	CONNECTOR	19
2	MS3119E-24-61X	CONNECTOR	18
1	MS3119E-24-61W	CONNECTOR	17
2	MS3119E-24-61Y	CONNECTOR	16
1	MS3119E-22-55Y	CONNECTOR	15
2	MS3119E-24-61Z	CONNECTOR	14
1	MS3119E-22-55X	CONNECTOR	13
1	MS3119E-24-61	CONNECTOR	12
1	MS3119E-22-55	CONNECTOR	11
16	MS35337-78	WASHER, LOCK	10
16	MS15795-303	WASHER, FLAT	9
16	MS35216-16	SCR, PANHD, CROSS-RECESSED	8
32	MS35649-64	NUT, PLAIN HEX	7
32	MS35337-79	WASHER, LOCK	6
32	MS15795-305	WASHER, FLAT	5
32	MS35216-27	SCR, PANHD, CROSS-RECESSED	4
16	MS35649-44	NUT, PLAIN HEX	3
8	1006942-2	FASTENER ASSEMBLY, CAPTIVE	2
1	1014454	PANEL	1

LIST OF MATERIALS

NOTE:
1. MARK APPLICABLE REV. NO. IN BLOCK PROVIDED PER ND1002019

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

NEXT ASSY	USED ON
1014405	1014156
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED 7 Aug 1963
APPROVAL
APPROVAL 9/3/63
APPROVAL 9/3/63
NASA APPROVAL
MIT APPROVAL 9/17/63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

FRONT PANEL ASSY
CONNECTOR INTERFACE

CODE IDENT NO —
SIZE F
NASA DRAWING NO. 1014453
SCALE 1/1
WT
SHEET 1 OF 1

1014453

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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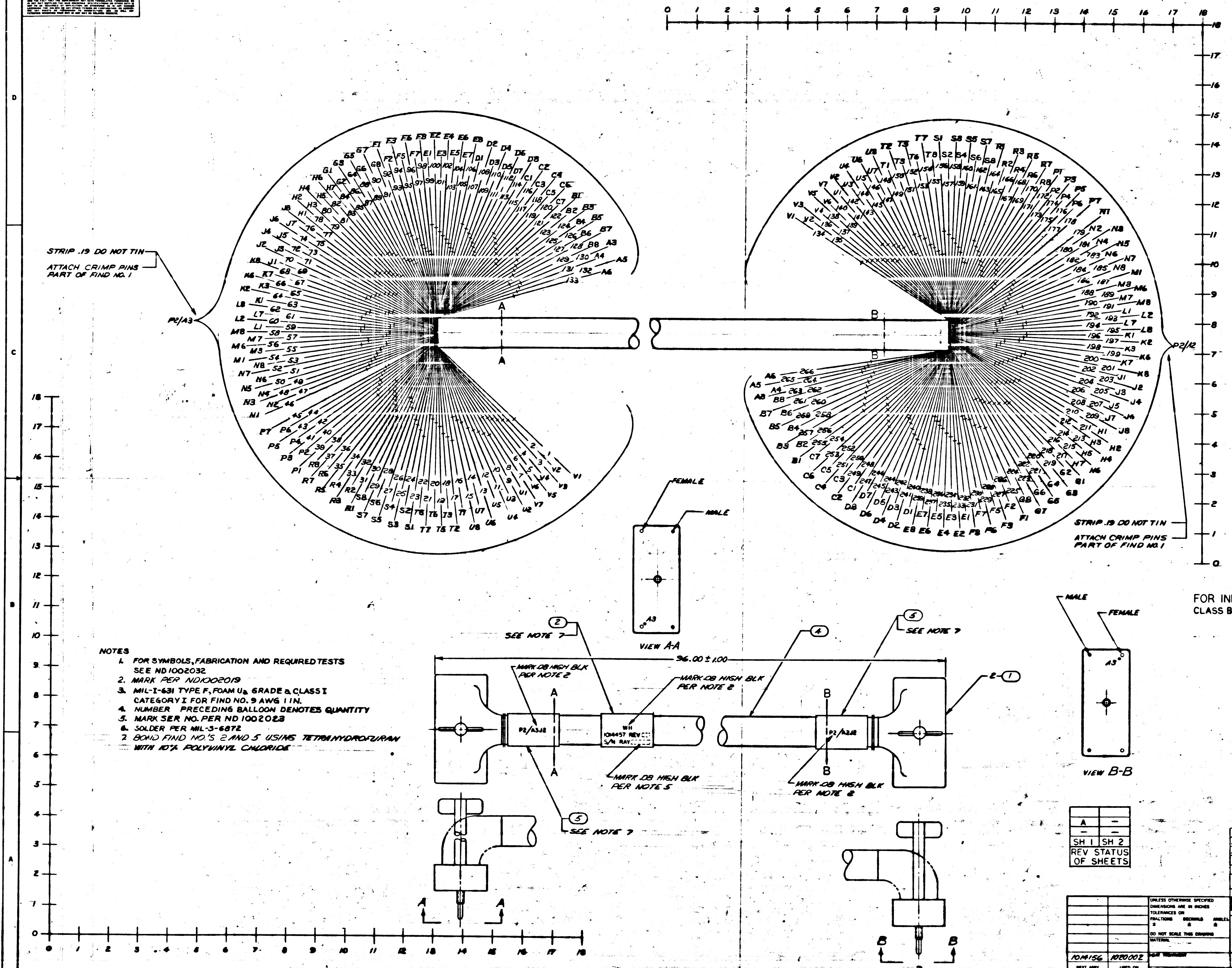
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 03430	26 Jul 63	
A	CHANGED PER TDRR NO.06446 DR RD CHK APPD	2 MAR 64	YEB



STRIP .19 DO NOT TIN
ATTACH CRIMP PINS PART OF FIND NO. 1
P2/A3
P2/J2
A
B
FEMALE
MALE
A3
VIEW A-A
VIEW B-B
2
SEE NOTE 7
MARK .08 HIGH BLK PER NOTE 2
MARK .08 HIGH BLK PER NOTE 2
96.00 ± 1.00
P2/A3J2
WH
1014457 REV
S/N RAY
MARK .08 HIGH BLK PER NOTE 5
4
5
SEE NOTE 7
P2/A2J2
MARK .08 HIGH BLK PER NOTE 2
2-1
5
SEE NOTE 7
A
B

NOTES
1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032
2. MARK PER ND1002019
3. MIL-I-631 TYPE F, FOAM U_a GRADE a CLASS I CATEGORY I FOR FIND NO. 9 AWG 1 IN.
4. NUMBER PRECEDING BALLOON DENOTES QUANTITY
5. MARK SER NO. PER ND 1002023
6. SOLDER PER MIL-S-6872
7. BOND FIND NO.'S 2 AND 5 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03430 DATE 26 Jul 63

A	–
–	–
SH 1	SH 2

REV STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2	1014472-7A	BAND MARKER, CABLE	5
AR	SEE NOTE 3	SLEEVING	4
AR	MIL-W-16878/4 E22	WIRE, ELECTRICAL, WHT	3
1	1014472-7	BAND MARKER, CABLE	2
2	1006672	CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE 8-7-63
CHECKED 9 Jul 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 4/25/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W11
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO. 1014457
SCALE 1/1
WT
SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

[illegible] SPECIFICATIONS OR OTHER DATA [illegible] THAN IN CONNECTION WITH A DEFINITELY [illegible] OPERATION THE UNITED STATES GOVERN[illegible] [illegible]LITY NOR ANY OBLIGATION WHATSOEVER; [illegible] IT MAY HAVE FORMULATED, FURNISHED OR [illegible] SPECIFICATIONS OR OTHER DATA IS [illegible] OR OTHERWISE AS IN ANY MANNER [illegible] PERSON OR CORPORATION OR CONVEY[illegible] TO MANUFACTURE, USE, OR SELL ANY [illegible] MAY BE RELATED THERETO.

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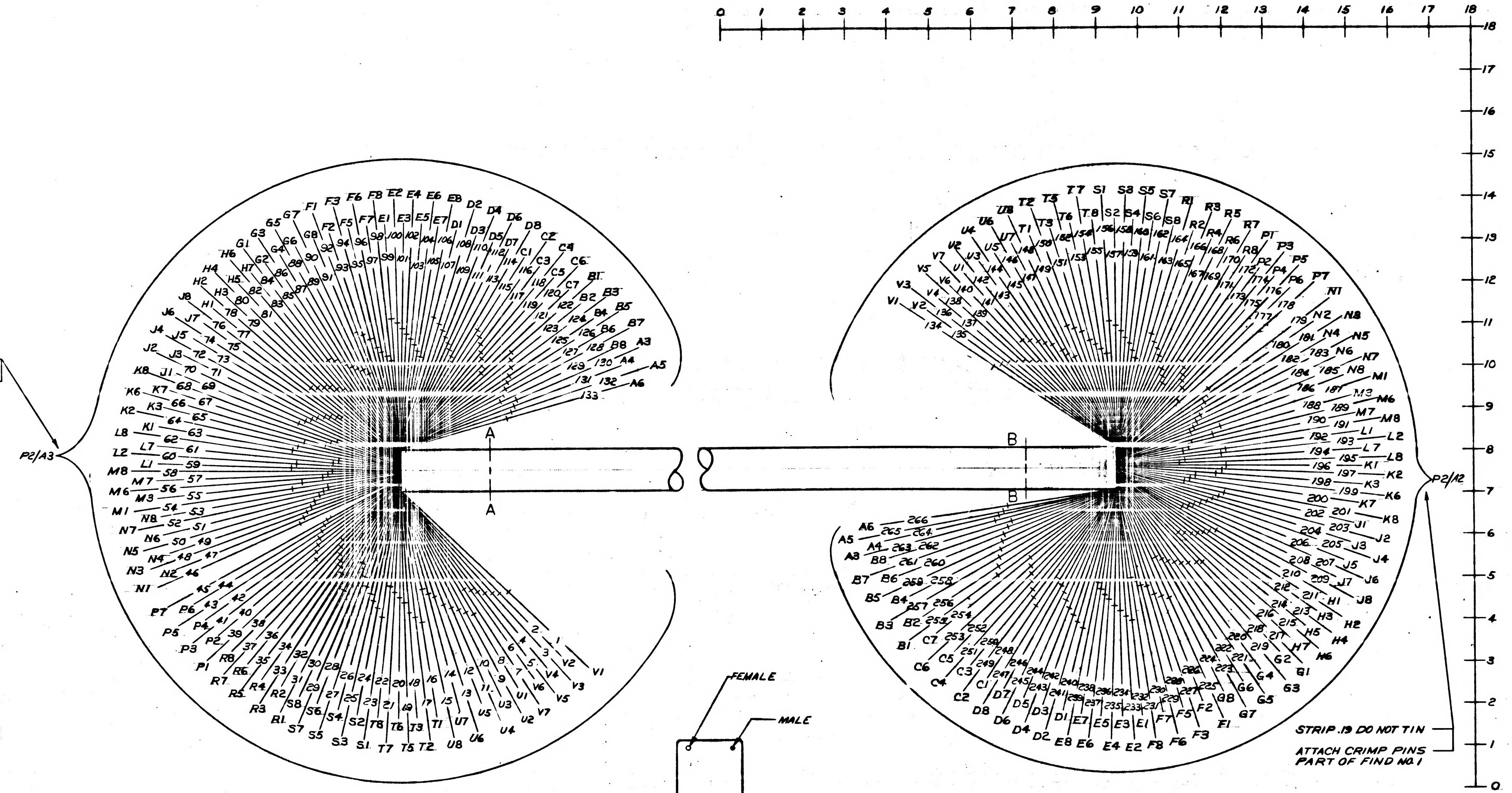
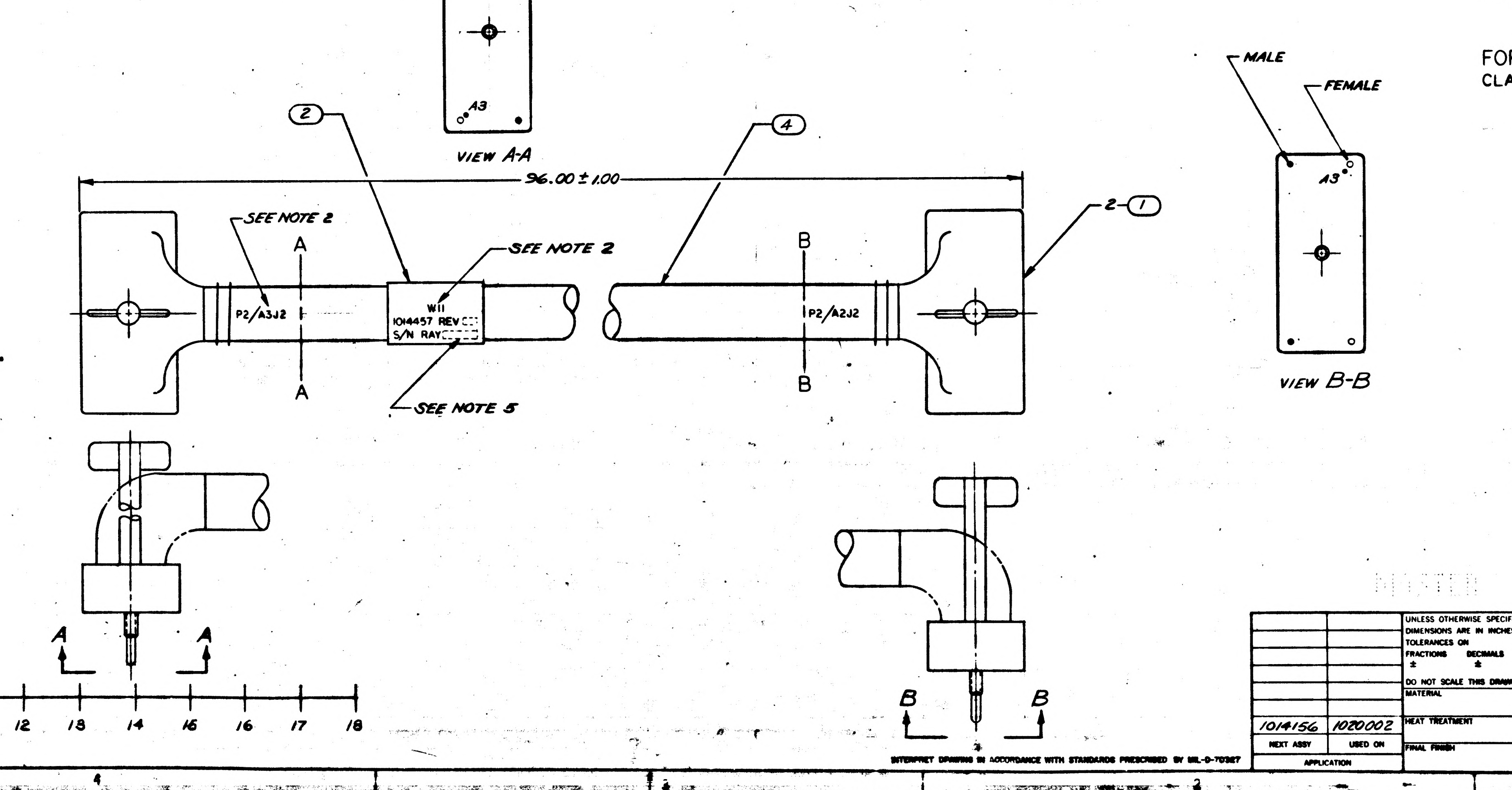
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 03430	[illegible]	



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
P2/A3
STRIP .19 DO NOT TIN
ATTACH CRIMP PINS PART OF FIND NO. 1
A
A
B
B
P2/A2
STRIP .19 DO NOT TIN
ATTACH CRIMP PINS PART OF FIND NO. 1
FEMALE
MALE

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03430 DATE 26 Sep 63



A3
VIEW A-A
2
96.00 ± 1.00
SEE NOTE 2
A
A
P2/A3J2
SEE NOTE 2
W11
1014457 REV
S/N RAY
SEE NOTE 5
4
B
B
P2/A2J2
2-1
MALE
FEMALE
A3
VIEW B-B
A
A
B
B

NOTES
1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND 1002032
2. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019
3. MIL-I-631 TYPE F, FOAM Ua GRADE a CLASS I CATEGORY I FOR FIND NO. 9 AWG 1 IN.
4. NUMBER PRECEDING BALLOON DENOTES QUANTITY
5. MARK SER NO. PER ND 1002023
6. SOLDER PER MIL-S-6872

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	SEE NOTE 3	SLEEVING	4
AR	MIL-W-16878/4 E22	WIRE, ELECTRICAL, WHT	3
1	1014472-6	BAND MARKER	2
2	1006672	CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN H Swindell DATE 8-7-63
CHECKED [illegible] 9 Sept 63
APPROVAL C [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 9/25/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W11
COMPUTER TEST SET

CODE IDENT NO. — SIZE J NASA DRAWING NO. 1014457
SCALE 1/1 WT SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

1014457

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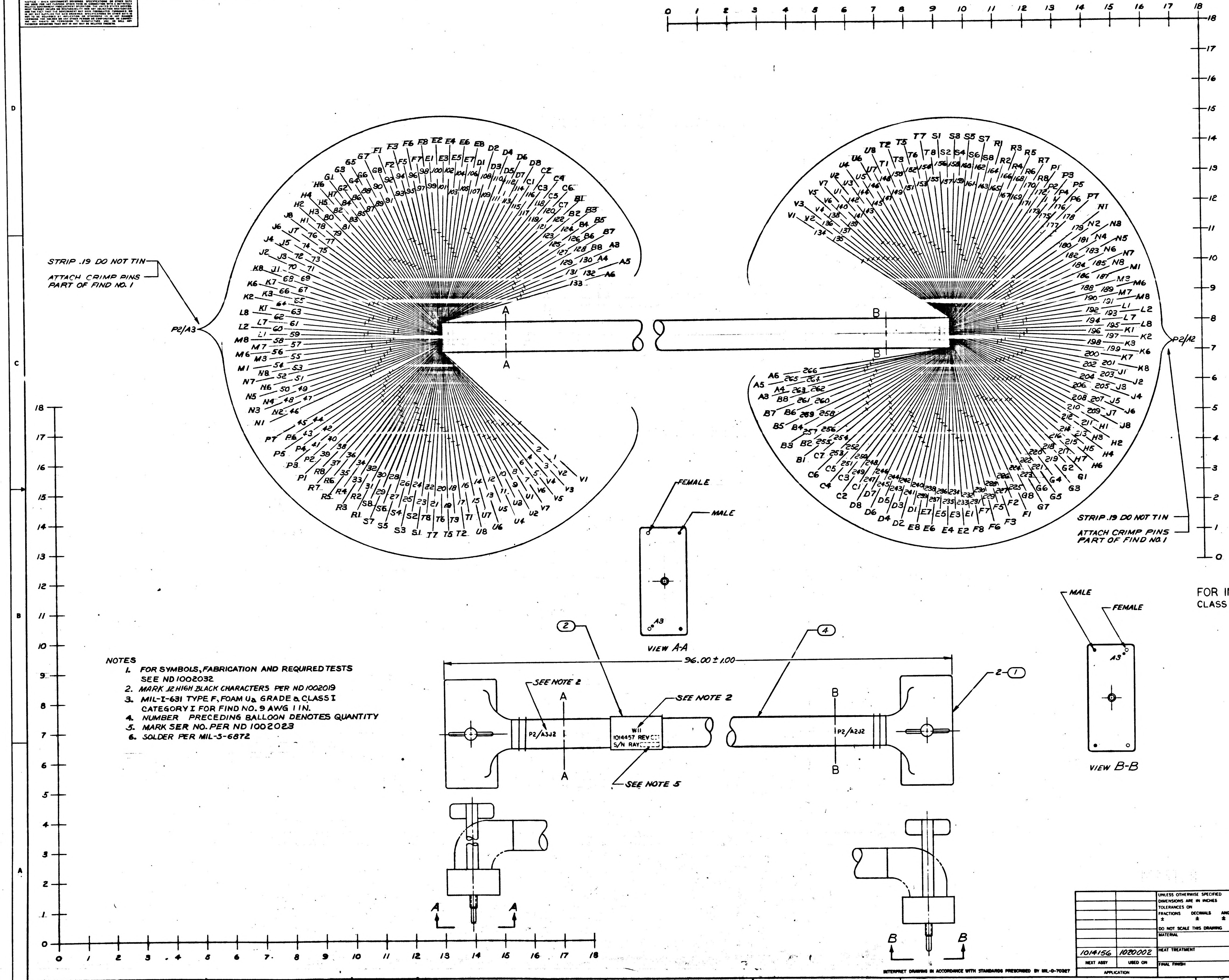
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS

		REVISIONS
SYM	DESCRIPTION	
—	CLASS B RELEASED PER T	



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03430 DAT

NOTES
1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND 1002032
2. MARK .12 HIGH BLACK CHARACTERS PER ND 1002019
3. MIL-I-631 TYPE F, FOAM U2 GRADE a CLASS I CATEGORY I FOR FIND NO. 9 AWG 1 IN.
4. NUMBER PRECEDING BALLOON DENOTES QUANTITY
5. MARK SER NO. PER ND 1002023
6. SOLDER PER MIL-S-6872

QTY REQD	PART OR IDENTIFYING NO.	NO
AR	SEE NOTE 3	SLEEVING
AR	MIL-W-16878/4 E22	WIRE, ELE
1	1014472-6	BAND M
2	1006672	CONNECT

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN H Swindell DATE 8-7-6
CHECKED 9 Apr 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED
CABLE
COMPUTE
CODE IDENT NO —
SIZE J
SCALE 1/1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014457

INCHES
PHOTOGRAPHIC SCALE ONLY

1014457

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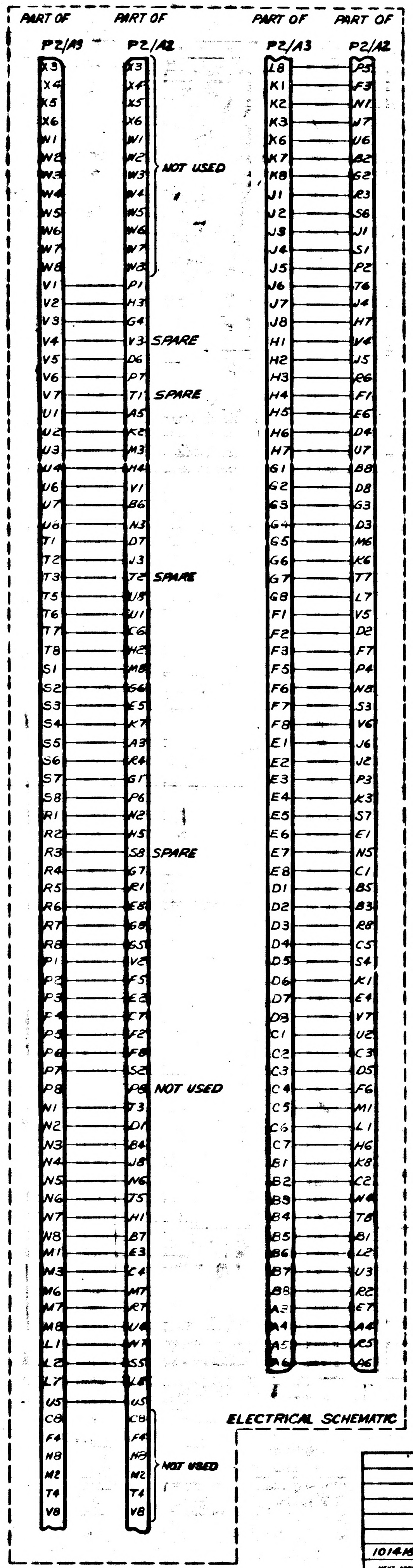
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 03430		

ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	WHT	22	3	172	
	2				212	
	3				220	
	4				136	
	5				245	
	6				178	
	7				149	
	8				265	
	9				197	
	10				188	
	11				213	
	12				145	
	13				134	
	14				260	
	15				131	
	16				246	
	17				204	
	18				150	
	19				148	
	20				141	
	21				253	
	22				211	
	23				191	
	24				222	
	25				236	
	26				200	
	27				263	
	28				167	
	29				217	
	30				177	
	31				180	
	32				214	
	33				163	
	34				223	
	35				164	
	36				239	
	37				224	
	38				221	
	39				135	
	40				228	
	41				233	
	42				254	
	43				226	
	44				231	
	45				157	
	46				151	
	47				240	
	48				258	
	49				209	
	50				184	
	51				152	
	52				210	
	53				261	
	54				234	
	55				251	
	56				190	
	57				170	
	58				144	
	59				185	
	60				160	
	61				195	
	62				176	
	63				227	
	64				179	
	65				208	
	66				146	
	67	WHT	22	3	256	

ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	68	WHT	22	3	218	
	69				166	
	70				161	
	71				202	
	72				156	
	73				173	
	74				153	
	75				205	
	76				216	
	77				137	
	78				206	
	79				169	
	80				225	
	81				237	
	82				243	
	83				147	
	84				262	
	85				247	
	86				219	
	87				242	
	88				189	
	89				199	
	90				154	
	91				194	
	92				138	
	93				241	
	94				230	
	95				175	
	96				186	
	97				158	
	98				139	
	99				207	
	100				203	
	101				174	
	102				198	
	103				162	
	104				232	
	105				183	
	106				248	
	107				259	
	108				257	
	109				171	
	110				252	
	111				159	
	112				196	
	113				235	
	114				140	
	115				142	
	116				250	
	117				244	
	118				229	
	119				187	
	120				192	
	121				215	
	122				201	
	123				249	
	124				182	
	125				155	
	126				255	
	127				193	
	128				143	
	129				165	
	130				238	
	131				264	
	132				168	
	133	WHT	22	3	266	


PART OF
P2/A3
PART OF
P2/A2
PART OF
P2/A3
PART OF
P2/A2
X3
X4
X5
X6
W1
W2
W3
W4
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C8
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H8
M2
T4
V8
X3
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X6
W1
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W3
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W6
W7
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NOT USED
P1
H3
G4
V3
SPARE
D6
P7
T1
SPARE
A5
K2
M3
H4
V1
B6
N3
D7
J3
T2
SPARE
U8
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C6
H2
M8
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K7
A3
R4
G1
P6
N2
H5
S8
SPARE
G7
R1
E8
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V2
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E2
C7
F2
F8
S2
P8
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B4
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C4
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V8
NOT USED
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V5
D2
F7
P4
N8
S3
V6
J6
J2
P3
K3
S7
E1
N5
C1
B5
B3
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A6

ELECTRICAL SCHEMATIC

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03430 DATE 26 Aug 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN H. Swindell DATE 8-6-63
CHECKED A. Cosgrove 9 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

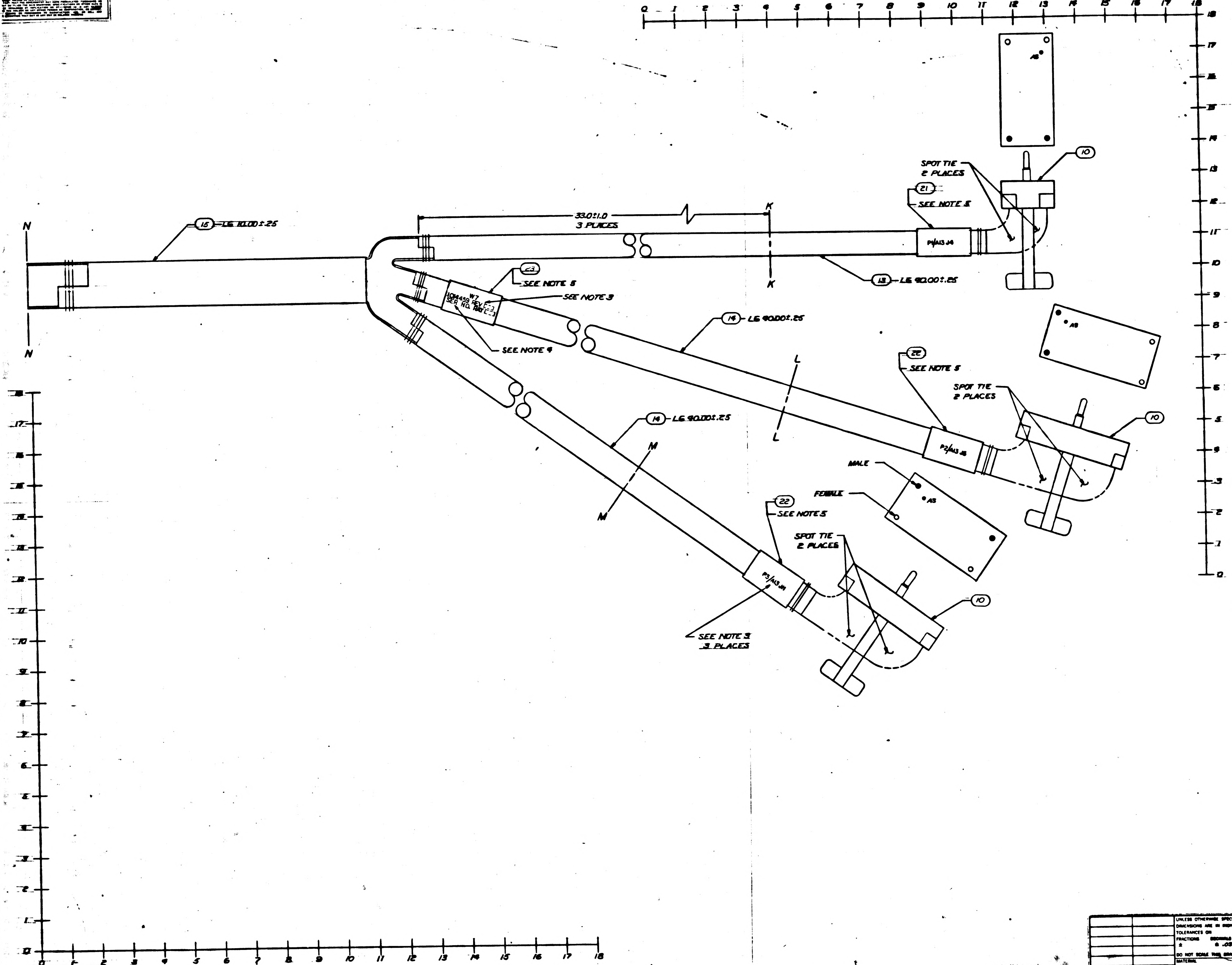
CABLE ASSEMBLY
W11
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014457
SCALE NONE
WT
SHEET 2 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014457

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R5791A DR [illegible] CHKR [illegible] APPD [illegible]	15 FEB 6[illegible]	[illegible]


N
N
15 LG 10.00±.25
33.0±1.0
3 PLACES
K
K
21
SEE NOTE 5
SPOT TIE
2 PLACES
10
P1/A13 J4
13 LG 90.00±.25
23
SEE NOTE 5
SEE NOTE 3
W7
1014459 REV [--]
SER NO. RAY [--]
SEE NOTE 4
14 LG 90.00±.25
L
L
22
SEE NOTE 5
SPOT TIE
2 PLACES
10
P2/A13 J5
A5
MALE
FEMALE
A5
14 LG 90.00±.25
M
M
22
SEE NOTE 5
SPOT TIE
2 PLACES
P3/A13 J1
10
SEE NOTE 3
3 PLACES
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10
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18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. [illegible] DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

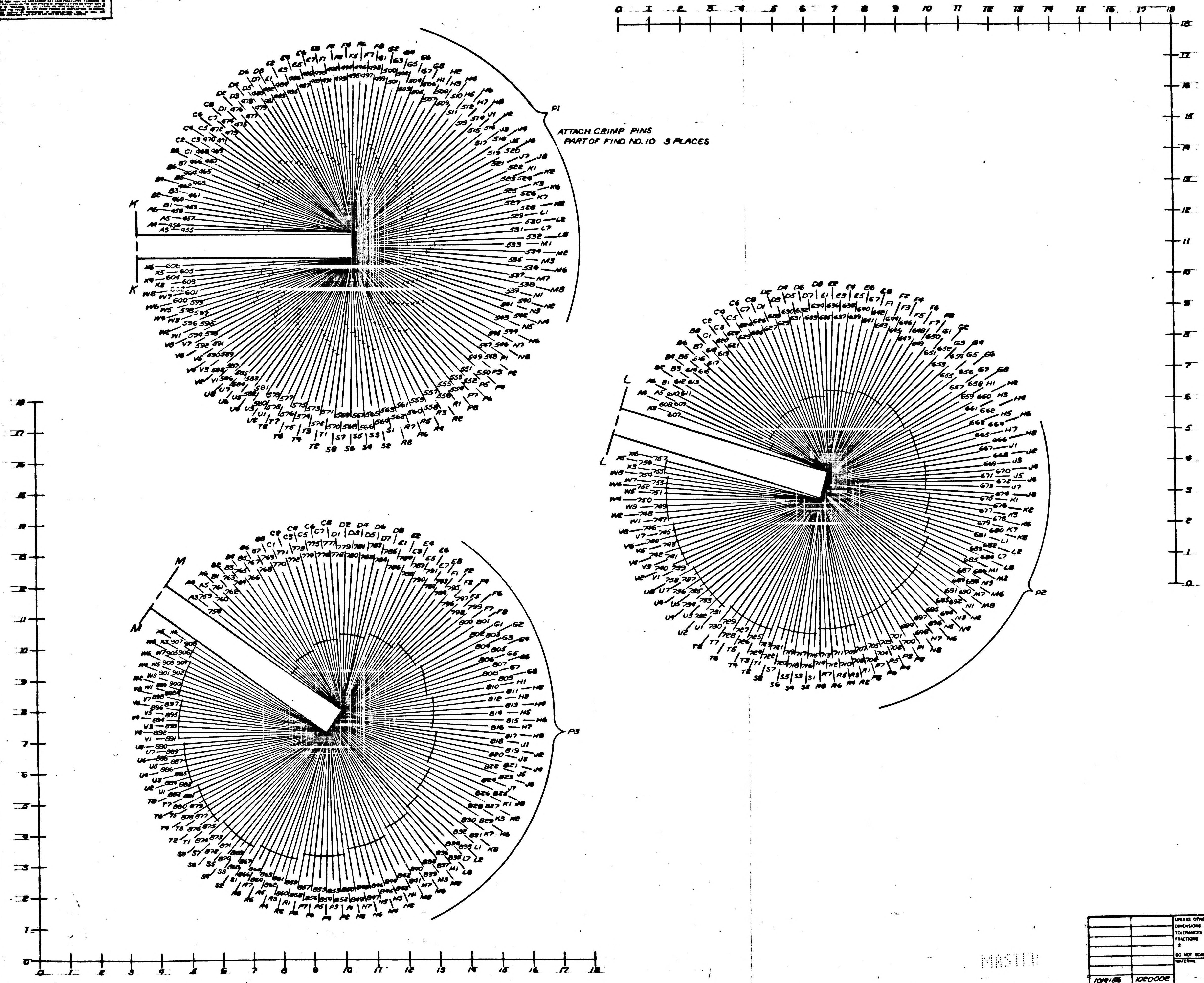
CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014459
SCALE 1/1
WT
SHEET 2 OF 2

1014459

1014459

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		



ATTACH CRIMP PINS
PART OF FIND NO. 10 3 PLACES

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04776 DATE 11/20/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1019156	1020002
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS9-498
DRAWN K. Matley DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL

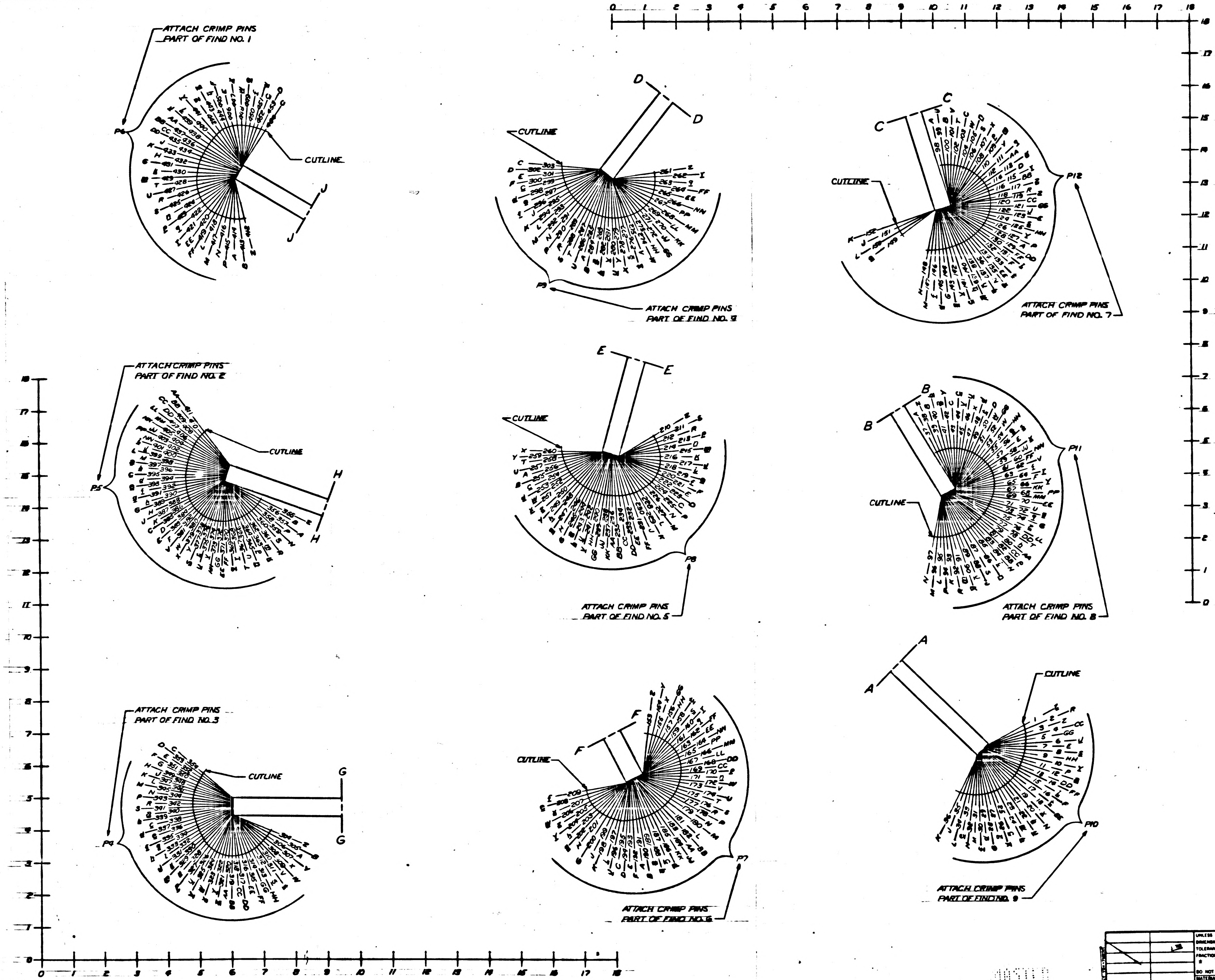
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014459
SCALE 1/1
WT
SHEET 3 OF 7

1014459

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		



ATTACH CRIMP PINS PART OF FIND NO. 1
P6
CUTLINE
J
CUTLINE
D
P3
ATTACH CRIMP PINS PART OF FIND NO. 4
C
CUTLINE
P12
ATTACH CRIMP PINS PART OF FIND NO. 7
ATTACH CRIMP PINS PART OF FIND NO. 2
P5
CUTLINE
H
E
CUTLINE
P8
ATTACH CRIMP PINS PART OF FIND NO. 5
B
CUTLINE
P11
ATTACH CRIMP PINS PART OF FIND NO. 8
ATTACH CRIMP PINS PART OF FIND NO. 3
P4
CUTLINE
G
F
CUTLINE
P7
ATTACH CRIMP PINS PART OF FIND NO. 6
A
CUTLINE
P10
ATTACH CRIMP PINS PART OF FIND NO. 9

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04778 DATE 11/21/61

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

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CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO. — SIZE J NASA DRAWING NO. 1014459

SCALE 1/1 WT SHEET 2 OF 2

MASTER

1014459

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR	2-7-64	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	69	BLACK	22	17	457	
	38				459	
	3				464	
	119				509	
	150				592	
	70				597	
	304				627	
	355				755	
	412				635	
	153				810	
	210				802	
	261	BLACK	22	17	906	
	1	WHITE	22	16	458	
	2				463	
	4				468	
	5				600	
	6				513	
	7				505	
	8				497	
	9				489	
	10				481	
	11				473	
	12				465	
	13				588	
	14				580	
	15				572	
	16				564	
	17				556	
	18				548	
	19				540	
	20				541	
	21				534	
	22				530	
	23				524	
	24				573	
	25				516	
	26				581	
	27				483	
	28				455	
	29				461	
	30				469	
	31				477	
	32				485	
	33				501	
	34				601	
	35				605	
	36				606	
	37				538	
	39				460	
	40				602	
	41				528	
	42				474	
	43				472	
	44				480	
	45				488	
	46				496	
	47				504	
	48				512	
	49				520	
	50				526	
	51				536	
	52				544	
	53				552	
	54				560	
	55				568	
	56				576	
	57				584	
	58				539	
	59				547	
	60				555	
	61				563	
	62				571	
	63				579	
	64				522	
	65				514	
	66				595	
	67				587	
	68				466	
	71				603	
	72	WHITE	22	16	456	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	73	WHITE	22	16	462	
	74				604	
	75				596	
	76				532	
	77				533	
	78				529	
	79				523	
	80				515	
	81				507	
	82				499	
	83				491	
	84				549	
	85				557	
	86				565	
	87				593	
	88				585	
	89				577	
	90				569	
	91				561	
	92				553	
	93				545	
	94				537	
	95				531	
	96				527	
	97				521	
	98				586	
	99				594	
	100				508	
	101				500	
	102				476	
	103				498	
	104				546	
	105				490	
	106				554	
	107				578	
	108				570	
	109				562	
	110				484	
	111				482	
	112				493	
	113				492	
	114				506	
	115				471	
	116				479	
	117				487	
	118				495	
	120				511	
	121				519	
	122				543	
	123				551	
	124				559	
	125				567	
	126				575	
	127				583	
	128				591	
	129				599	
	130				470	
	131				478	
	132				486	
	133				494	
	134				502	
	135				510	
	136				518	
	137				542	
	138				550	
	139				558	
	140				566	
	141				574	
	142				582	
	143				590	
	144				598	
	145				503	
	146				517	
	147				525	
	148				535	
	149				589	
	151				475	
	152	WHITE	22	16	467	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	155	WHT	22	18	882	
	154	BLK			890	
	157	WHT	22	18	881	
	156	BLK			889	
	159	WHT	22	18	880	
	158	BLK			888	
	161	WHT	22	18	866	
	160	BLK			874	
	163	WHT	22	18	857	
	162	BLK			858	
	165	WHT	22	18	855	
	164	BLK			856	
	167	WHT	22	18	865	
	166	BLK			873	
	169	WHT	22	18	864	
	168	BLK			872	
	171	WHT	22	18	863	
	170	BLK			871	
	173	WHT	22	18	841	
	172	BLK			849	
	175	WHT	22	18	840	
	174	BLK			848	
	177	WHT	22	18	839	
	176	BLK			847	
	179	WHT	22	18	834	
	178	BLK			835	
	181	WHT	22	18	823	
	180	BLK			829	
	183	WHT	22	18	821	
	182	BLK			822	
	185	WHT	22	18	806	
	184	BLK			814	
	187	WHT	22	18	805	
	186	BLK			813	
	189	WHT	22	18	804	
	188	BLK			812	
	191	WHT	22	18	803	
	190	BLK			811	
	193	WHT	22	18	825	
	192	BLK			831	
	195	WHT	22	18	824	
	194	BLK			830	
	197	WHT	22	18	838	
	196	BLK			844	
	199	WHT	22	18	837	
	198	BLK			843	
	201	WHT	22	18	836	
	200	BLK			842	
	203	WHT	22	18	832	
	202	BLK			833	
	205	WHT	22	18	820	
	204	BLK			828	
	207	WHT	22	18	819	
	206	BLK			827	
	209	WHT	22	18	818	
	208	BLK			826	
	212	WHT	22	18	777	
	211	BLK			785	
	214	WHT	22	18	776	
	213	BLK			784	
	216	WHT	22	18	787	
	215	BLK			795	
	218	WHT	22	18	786	
	217	BLK			794	
	220	WHT	22	18	793	
	219	BLK			801	
	222	WHT	22	18	792	
	221	BLK			800	
	224	WHT	22	18	791	
	223	BLK			799	
	226	WHT	22	18	772	
	225	BLK			780	
	228	WHT	22	18	771	
	227	BLK			779	
	230	WHT	22	18	770	
	229	BLK			778	
	232	WHT	22	18	809	
	231	BLK			817	
	234	WHT	22	18	808	
	233	BLK			816	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 0472 DATE 1/2/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
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NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014459
SCALE NONE
WT
SHEET 5 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	236	WHT	22	18	807	
	235	BLK			815	
	238	WHT	22	18	790	
	237	BLK			798	
	240	WHT	22	18	789	
	239	BLK			797	
	242	WHT	22	18	788	
	241	BLK			796	
	244	WHT	22	18	775	
	243	BLK			783	
	246	WHT	22	18	774	
	245	BLK			782	
	248	WHT	22	18	773	
	247	BLK			781	
	250	WHT	22	18	768	
	249	BLK			769	
	252	WHT	22	18	766	
	251	BLK			767	
	254	WHT	22	18	764	
	253	BLK			765	
	256	WHT	22	18	762	
	255	BLK			763	
	258	WHT	22	18	760	
	257	BLK			761	
	260	WHT	22	18	758	
	259	BLK			759	
	263	WHT	22	18	894	
	262	BLK			901	
	265	WHT	22	18	879	
	264	BLK			887	
	267	WHT	22	18	870	
	266	BLK			878	
	269	WHT	22	18	854	
	268	BLK			862	
	271	WHT	22	18	853	
	270	BLK			861	
	273	WHT	22	18	845	
	272	BLK			846	
	275	WHT	22	18	885	
	274	BLK			886	
	277	WHT	22	18	883	
	276	BLK			884	
	279	WHT	22	18	893	
	278	BLK			900	
	281	WHT	22	18	892	
	280	BLK			899	
	283	WHT	22	18	891	
	282	BLK			898A	
	285	WHT	22	18	907	
	284	BLK			908	
	287	WHT	22	18	852	
	286	BLK			860	
	289	WHT	22	18	850	
	288	BLK			859	
	291	WHT	22	18	869	
	290	BLK			877	
	293	WHT	22	18	868	
	292	BLK			876	
	295	WHT	22	18	867	
	294	BLK			875	
	297	WHT	22	18	895	
	296	BLK			902	
	299	WHT	22	18	896	
	298	BLK			903	
	301	WHT	22	18	897	
	300	BLK			904	
	303	WHT	22	18	898	
	302	BLK			905	
	306	WHT	22	18	618	
	305	BLK			626	
	308	WHT	22	18	617	
	307	BLK			625	
	310	WHT	22	18	616	
	309	BLK			624	
	312	WHT	22	18	615	
	311	BLK			623	
	314	WHT	22	18	614	
	313	BLK			622	
	316	WHT	22	18	613	
	315	BLK			621	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	318	WHT	22	18	612	
	317	BLK			620	
	320	WHT	22	18	611	
	319	BLK			619	
	322	WHT	22	18	609	
	321	BLK			610	
	324	WHT	22	18	607	
	323	BLK			608	
	326	WHT	22	18	680	
	325	BLK			684	
	328	WHT	22	18	679	
	327	BLK			683	
	330	WHT	22	18	678	
	329	BLK			688	
	332	WHT	22	18	666	
	331	BLK			674	
	334	WHT	22	18	665	
	333	BLK			673	
	336	WHT	22	18	664	
	335	BLK			672	
	338	WHT	22	18	663	
	337	BLK			671	
	340	WHT	22	18	650	
	339	BLK			658	
	342	WHT	22	18	649	
	341	BLK			657	
	344	WHT	22	18	648	
	343	BLK			656	
	346	WHT	22	18	647	
	345	BLK			655	
	348	WHT	22	18	634	
	347	BLK			642	
	350	WHT	22	18	633	
	349	BLK			641	
	352	WHT	22	18	632	
	351	BLK			640	
	354	WHT	22	18	631	
	353	BLK			639	
	357	WHT	22	18	689	
	356	BLK			690	
	359	WHT	22	18	730	
	358	BLK			738	
	361	WHT	22	18	729	
	360	BLK			737	
	363	WHT	22	18	714	
	362	BLK			722	
	365	WHT	22	18	713	
	364	BLK			721	
	367	WHT	22	18	712	
	366	BLK			720	
	369	WHT	22	18	711	
	368	BLK			719	
	371	WHT	22	18	710	
	370	BLK			718	
	373	WHT	22	18	709	
	372	BLK			717	
	375	WHT	22	18	698	
	374	BLK			706	
	377	WHT	22	18	697	
	376	BLK			705	
	379	WHT	22	18	696	
	378	BLK			704	
	381	WHT	22	18	695	
	380	BLK			703	
	383	WHT	22	18	756	
	382	BLK			757	
	385	WHT	22	18	746	
	384	BLK			754	
	387	WHT	22	18	745	
	386	BLK			753	
	389	WHT	22	18	744	
	388	BLK			752	
	391	WHT	22	18	743	
	390	BLK			751	
	393	WHT	22	18	742	
	392	BLK			750	
	395	WHT	22	18	741	
	394	BLK			749	
	397	WHT	22	18	740	
	396	BLK			748	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	399	WHT	22	18	739	
	398	BLK			747	
	401	WHT	22	18	728	
	400	BLK			736	
	403	WHT	22	18	727	
	402	BLK			735	
	405	WHT	22	18	726	
	404	BLK			734	
	407	WHT	22	18	725	
	406	BLK			733	
	409	WHT	22	18	724	
	408	BLK			732	
	411	WHT	22	18	723	
	410	BLK			731	
	414	WHT	22	18	630	
	413	BLK			638	
	416	WHT	22	18	628	
	415	BLK			636	
	418	WHT	22	18	629	
	417	BLK			637	
	420	WHT	22	18	708	
	419	BLK			716	
	422	WHT	22	18	707	
	421	BLK			715	
	424	WHT	22	18	694	
	423	BLK			702	
	426	WHT	22	18	693	
	425	BLK			701	
	428	WHT	22	18	692	
	427	BLK			700	
	430	WHT	22	18	691	
	429	BLK			699	
	432	WHT	22	18	677	
	431	BLK			687	
	434	WHT	22	18	685	
	433	BLK			686	
	436	WHT	22	18	676	
	435	BLK			682	
	438	WHT	22	18	675	
	437	BLK			681	
	440	WHT	22	18	662	
	439	BLK			670	
	442	WHT	22	18	661	
	441	BLK			669	
	444	WHT	22	18	660	
	443	BLK			668	
	446	WHT	22	18	659	
	445	BLK			667	
	448	WHT	22	18	646	
	447	BLK			654	
	450	WHT	22	18	645	
	449	BLK			653	
	452	WHT	22	18	644	
	451	BLK			652	
	454	WHT	22	18	643	
	453	BLK			651	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED 2 Nov 63
APPROVAL C
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

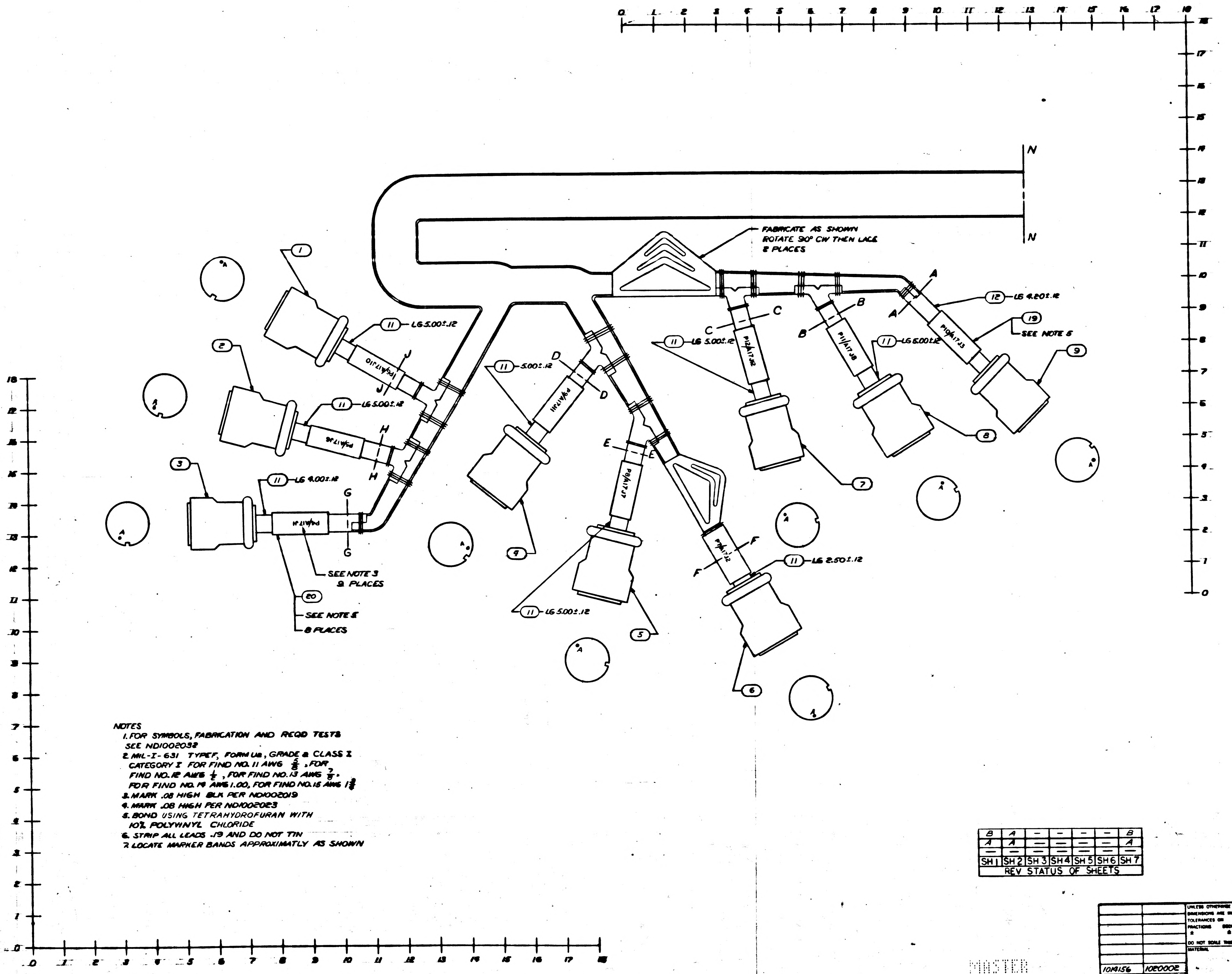
CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO. ——
SIZE J
NASA DRAWING NO. 1014459
SCALE NONE
WT
SHEET 6 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014459

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R5741A DR K. Matty CHK A. Cappiano APPD	18 FEB 64	
B	CHANGED PER TDRR 07853 DR. W. CHK APPD	6 MAY 64	



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13
14
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16
17
18
N
N
FABRICATE AS SHOWN
ROTATE 90° CW THEN LACE
2 PLACES
1
2
3
4
5
6
7
8
9
11
12
19
20
LG 5.00±.12
LG 5.00±.12
LG 4.00±.12
5.00±.12
LG 5.00±.12
LG 5.00±.12
LG 5.00±.12
LG 4.00±.12
LG 2.50±.12
SEE NOTE 5
SEE NOTE 3
2 PLACES
SEE NOTE 5
8 PLACES
P1/A17J1
P2/A17J6
P3/A17J10
P4/A17J11
P5/A17J7
P6/A17J2
P10/A17J12
P11/A17J8
P12/A17J13
A
B
C
D
E
F
G
H
J

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 01776 DATE 1/20/64

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND1002032
2. MIL-I-631 TYPE F, FORM U2, GRADE A CLASS I CATEGORY I FOR FIND NO. 11 AWG 5/8, FOR FIND NO. 12 AWG 1/2, FOR FIND NO. 13 AWG 7/8, FOR FIND NO. 14 AWG 1.00, FOR FIND NO. 15 AWG 1 3/8
3. MARK .08 HIGH BLK PER ND1002019
4. MARK .08 HIGH PER ND1002023
5. BOND USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
6. STRIP ALL LEADS .19 AND DO NOT TIN
7. LOCATE MARKER BANDS APPROXIMATLY AS SHOWN

B	A	—	—	—	—	B
A	A	—	—	—	—	A
—	—	—	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5	SH 6	SH 7

REV STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1019472-7	BAND MARKER, CABLE	23
2	1019472-7A	BAND MARKER, CABLE	22
1	1019472-6A	BAND MARKER, CABLE	21
8	1019472-4A	BAND MARKER, CABLE	20
1	1019472-3A	BAND MARKER, CABLE	19
AR	1019341-11	WIRE, ELEC	18
AR	MIL-W-16878/4 TYPE E22, BLK	WIRE, ELEC	17
AR	MIL-W-16878/4 TYPE E22, WHT	WIRE, ELEC	16
AR	SEE NOTE 2	SLEEVING	15
AR	SEE NOTE 2	SLEEVING	14
AR	SEE NOTE 2	SLEEVING	13
AR	SEE NOTE 2	SLEEVING	12
AR	SEE NOTE 2	SLEEVING	11
3	1006672	CONNECTOR	10
1	MS3126F-22-55PW	CONNECTOR	9
1	MS3126F-24-61PY	CONNECTOR	8
1	MS3126F-22-55PY	CONNECTOR	7
1	MS3126F-24-61PW	CONNECTOR	6
1	MS3126F-24-61PX	CONNECTOR	5
1	MS3126F-24-61PZ	CONNECTOR	4
1	MS3126F-22-55P	CONNECTOR	3
1	MS3126F-24-61P	CONNECTOR	2
1	MS3126F-22-55PX	CONNECTOR	1

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN K. Matty
CHECKED A. Cappiano
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

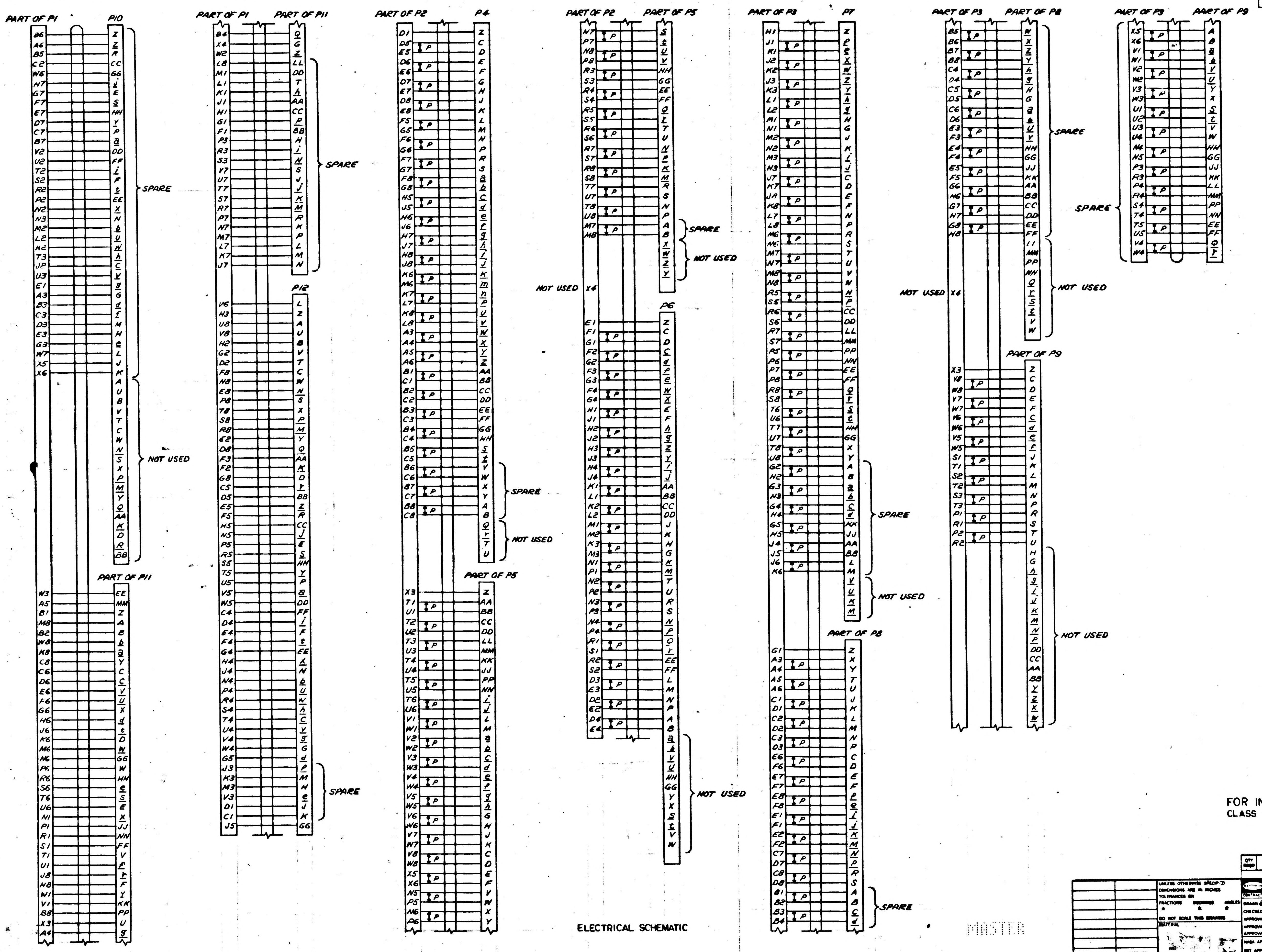
CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014459
SCALE 1/1
WT
SHEET 1 OF 7

MASTER

1014459

SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER AD-R 5791A DR X Motz CHK A Caggiano APPD: Hanley	18 FEB 64	JHB
B	CHANGED PER TDRR 07853 DR W. Kelley CHK Kupfer APPD Hanley	6 MAY 64	KEB



PART OF P1
P10
SPARE
NOT USED
PART OF P11
PART OF P1
PART OF P11
SPARE
P12
SPARE
PART OF P2
P4
SPARE
NOT USED
PART OF P5
PART OF P2
PART OF P5
SPARE
NOT USED
NOT USED
P6
NOT USED
PART OF P3
P7
SPARE
NOT USED
PART OF P8
SPARE
PART OF P3
PART OF P8
SPARE
NOT USED
NOT USED
PART OF P9
NOT USED
PART OF P3
PART OF P9
SPARE
P

ELECTRICAL SCHEMATIC

MASTER

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04776 DATE 1/20/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

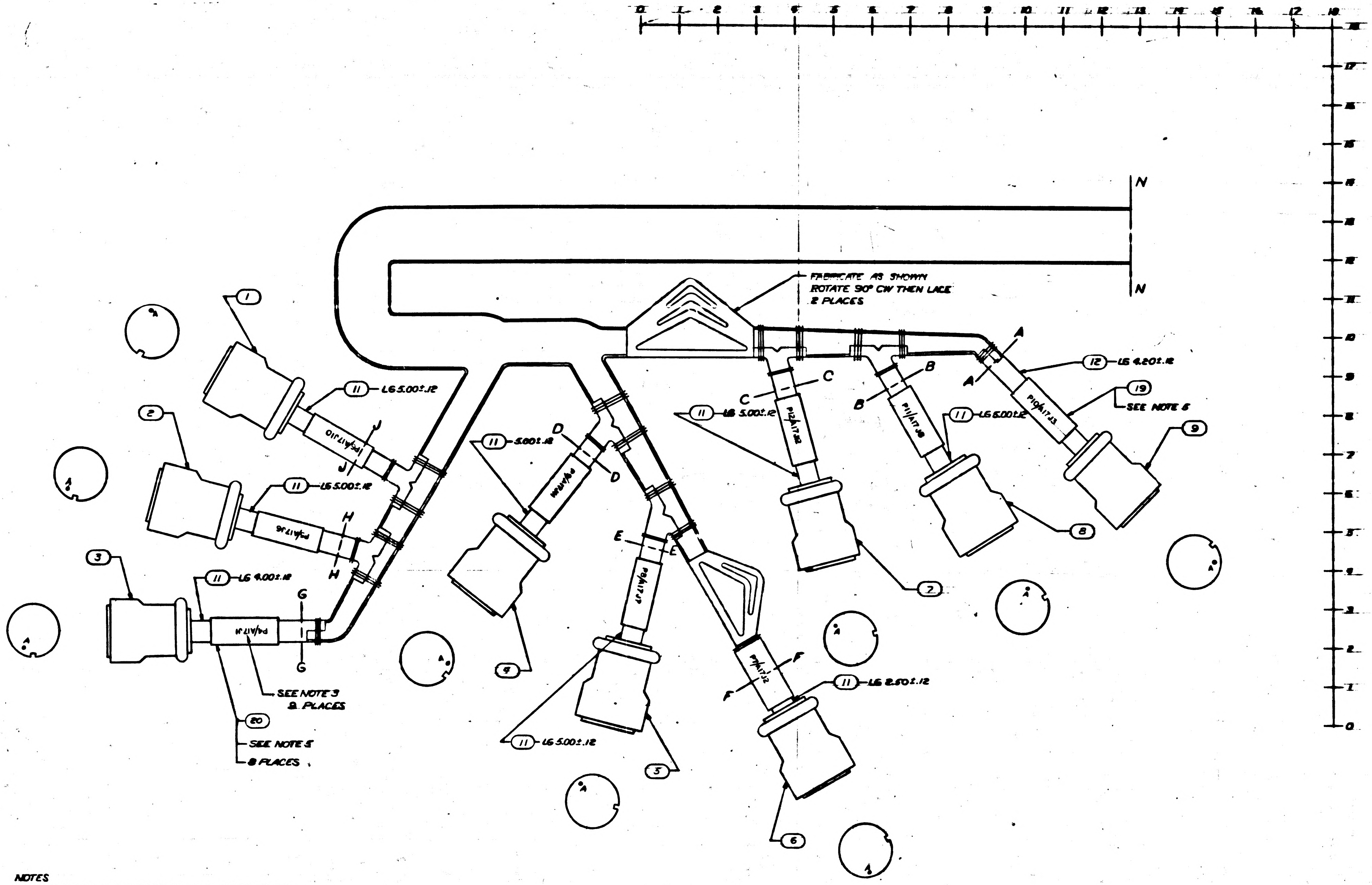
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN B.G. DATE 11 OCT 63
CHECKED A Caggiano
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014459
SCALE NONE WT SHEET 7 OF 7

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R 5791A DR K. Matty CHK A Cappiano APPD	18 FEB 64	JPM
B	CHANGED PER TDRR 07853 DR. W Kelley CHK APPD	6 MAY 64	KLB
C	CHANGED PER TDRR 10295 DR S.T. Onifer CHK APPD	24 June 64	



FABRICATE AS SHOWN
ROTATE 90° CW THEN LACE
2 PLACES
N
N
A
A
B
B
C
C
D
D
E
E
F
F
G
G
H
H
J
J
1
2
3
4
5
6
8
9
2
11 LG 5.00±.12
11 LG 5.00±.12
11 LG 4.00±.12
11 5.00±.12
11 LG 5.00±.12
11 LG 5.00±.12
11 LG 5.00±.12
11 LG 2.50±.12
12 LG 4.20±.12
19 SEE NOTE 5
20 SEE NOTE 5 8 PLACES
SEE NOTE 3 2 PLACES
P6/A17J10
P5/A17J6
P4/A17J11
P9/A17J4
P8/A17J7
P7/A17J2
P12/A17J12
P11/A17J8
P10/A17J13
A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04774 DATE

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND1002032
2. MIL-I-631 TYPE F, FORM U2, GRADE A CLASS I CATEGORY I FOR FIND NO. 11 AWG $\frac{5}{8}$, FOR FIND NO. 12 AWG $\frac{1}{2}$, FOR FIND NO. 13 AWG $\frac{7}{8}$, FOR FIND NO. 14 AWG 1.00, FOR FIND NO. 15 AWG $1\frac{3}{8}$
3. MARK .08 HIGH BLK PER ND1002019
4. MARK .08 HIGH PER ND1002023
5. BOND USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
6. STRIP ALL LEADS .19 AND DO NOT TIN
7. LOCATE MARKER BANDS APPROXIMATLY AS SHOWN

C	C	—	C	—	—	B
B	A	—	—	—	—	B
A	A	—	—	—	—	A
—	—	—	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5	SH 6	SH 7

REV STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1019472-7	BAND MARKER, CABLE	23
2	1019472-7A	BAND MARKER, CABLE	22
1	1019472-6A	BAND MARKER, CABLE	21
8	1019472-4A	BAND MARKER, CABLE	20
1	1019472-3A	BAND MARKER, CABLE	19
AR	1019341-11	WIRE, ELEC	18
AR	MIL-W-16878/4 TYPE E22 BLK	WIRE, ELEC	17
AR	MIL-W-16878/4 TYPE E22 WHT	WIRE, ELEC	16
AR	SEE NOTE 2	SLEEVING	15
AR	SEE NOTE 2	SLEEVING	14
AR	SEE NOTE 2	SLEEVING	13
AR	SEE NOTE 2	SLEEVING	12
AR	SEE NOTE 2	SLEEVING	11
3	1006672	CONNECTOR	10
1	MS3126F-22-55PW	CONNECTOR	9
1	MS3126F-24-61PY	CONNECTOR	8
1	MS3126F-22-55PY	CONNECTOR	7
1	MS3126F-24-61PW	CONNECTOR	6
1	MS3126F-24-61PX	CONNECTOR	5
1	MS3126F-24-61PZ	CONNECTOR	4
1	MS3126F-22-55P	CONNECTOR	3
1	MS3126F-24-61P	CONNECTOR	2
1	MS3126F-22-55PX	CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN K. Matty
CHECKED A Cappiano
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL

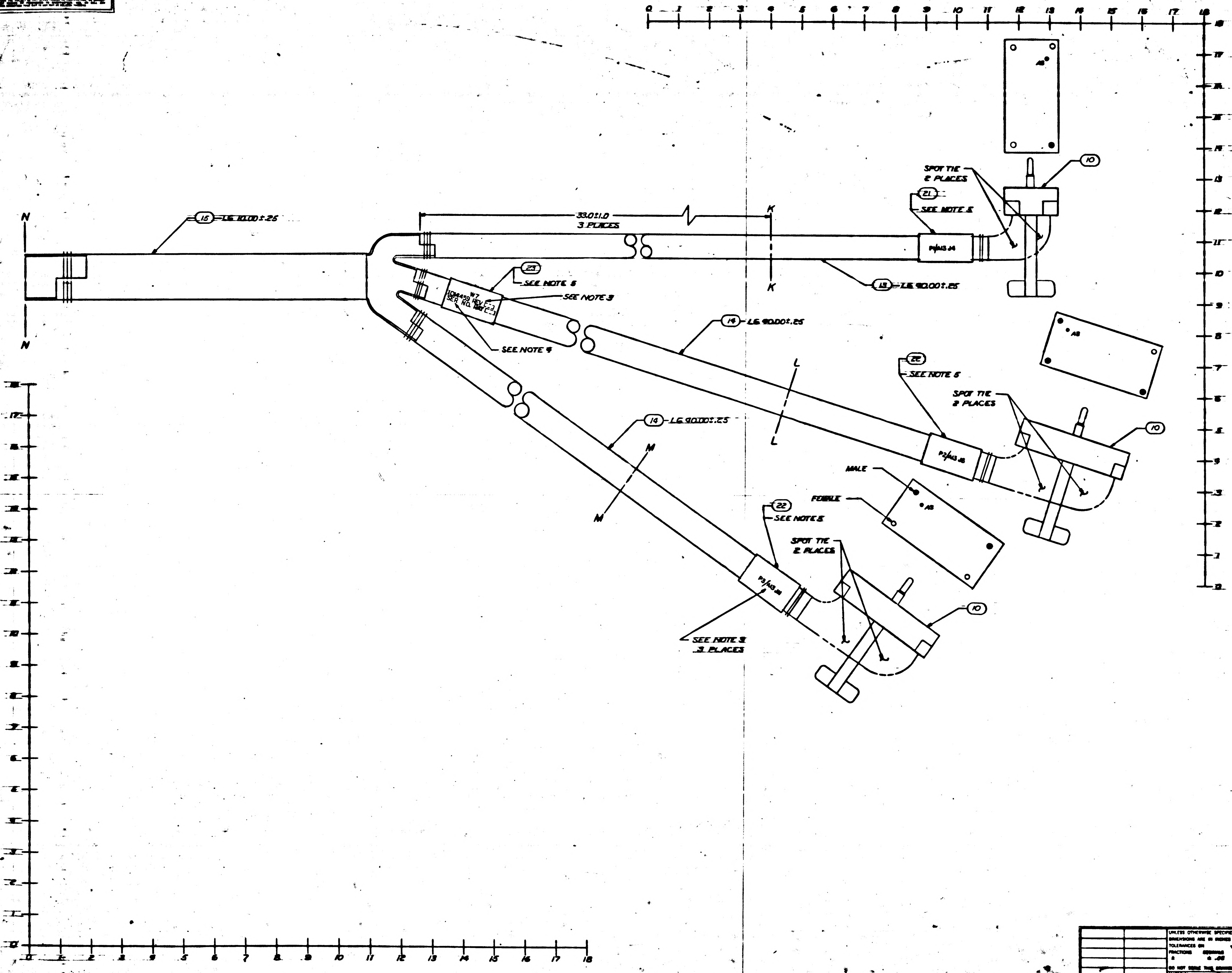
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014459
SCALE 1/1
SHEET 1 OF 7

1014459

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R5791A DR [illegible] CHK A Coggiano APPD [illegible]	[illegible]	[illegible]
C	CHANGED PER TDRR 10295 DR [illegible] CHK [illegible] APPD [illegible]	[illegible]	[illegible]



(15) LG 10.00±.25
N
N
33.0±1.0
3 PLACES
K
K
(13) LG 90.00±.25
(10)
SPOT TIE
2 PLACES
(21)
SEE NOTE 5
P1/A13 J4
A9
(23)
SEE NOTE 5
SEE NOTE 3
W7
1014459 REV [ ]
SER NO. [ ]
SEE NOTE 4
(14) LG 90.00±.25
L
L
(22)
SEE NOTE 5
SPOT TIE
2 PLACES
(10)
P2/A13 J5
A9
MALE
FEMALE
(14) LG 90.00±.25
M
M
(22)
SEE NOTE 5
SPOT TIE
2 PLACES
(10)
P3/A13 J6
SEE NOTE 3
3 PLACES

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. [illegible] DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-[illegible]

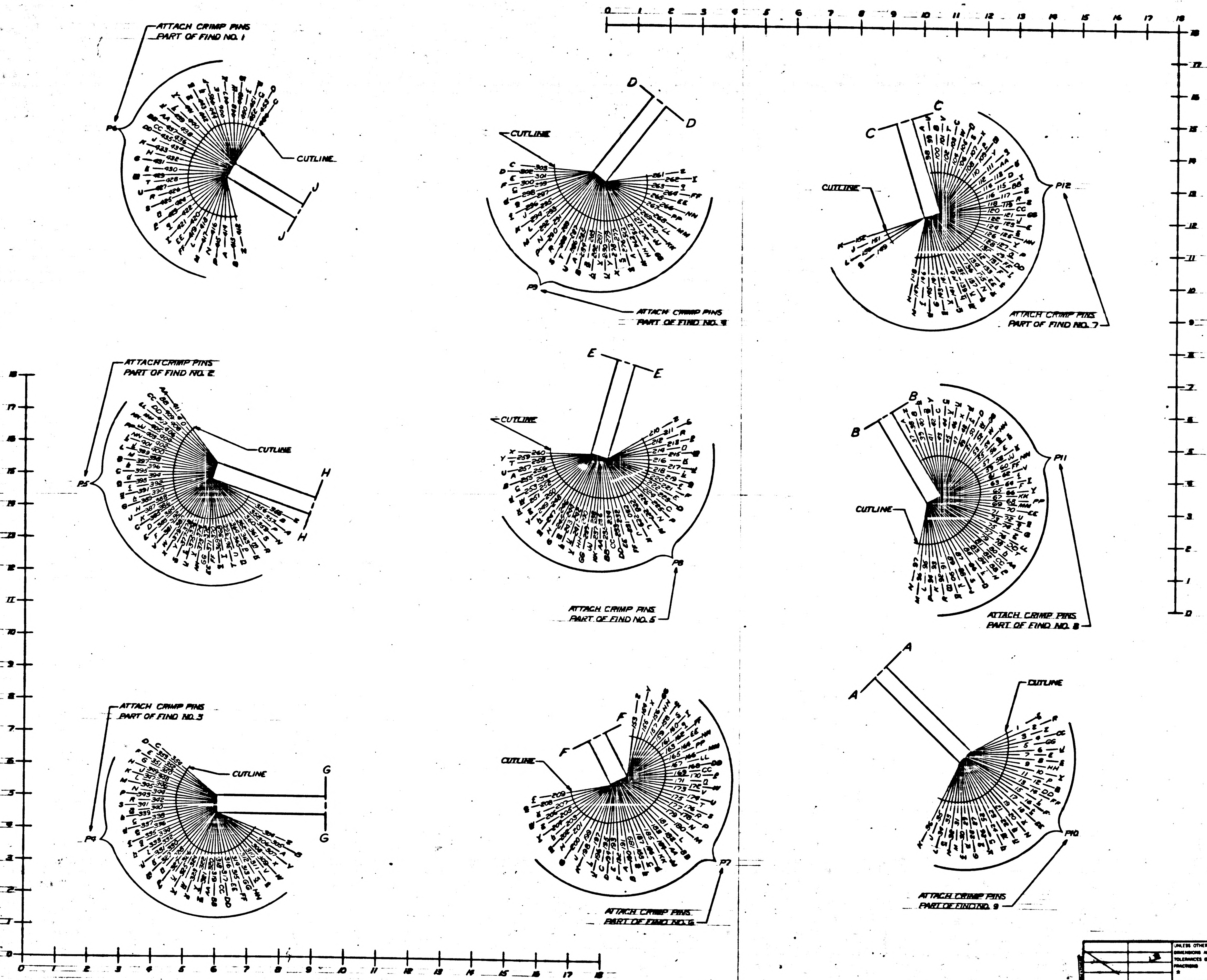
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
1014459
SCALE 1/1
SHEET 2 OF 2

1014459

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
C	CHANGED PER TDRR 10295 DR S.T. CHK APPD		



ATTACH CRIMP PINS PART OF FIND NO. 1
P6
CUTLINE
J
J
CUTLINE
D
D
P9
ATTACH CRIMP PINS PART OF FIND NO. 4
C
C
CUTLINE
P12
ATTACH CRIMP PINS PART OF FIND NO. 7
ATTACH CRIMP PINS PART OF FIND NO. 2
P5
CUTLINE
H
H
CUTLINE
E
E
P8
ATTACH CRIMP PINS PART OF FIND NO. 5
B
B
CUTLINE
P11
ATTACH CRIMP PINS PART OF FIND NO. 8
ATTACH CRIMP PINS PART OF FIND NO. 3
CUTLINE
G
G
P4
CUTLINE
F
F
P7
ATTACH CRIMP PINS PART OF FIND NO. 6
A
A
CUTLINE
P10
ATTACH CRIMP PINS PART OF FIND NO. 9
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18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 0777 DATE 11/20/61

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014156	1080002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± .03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

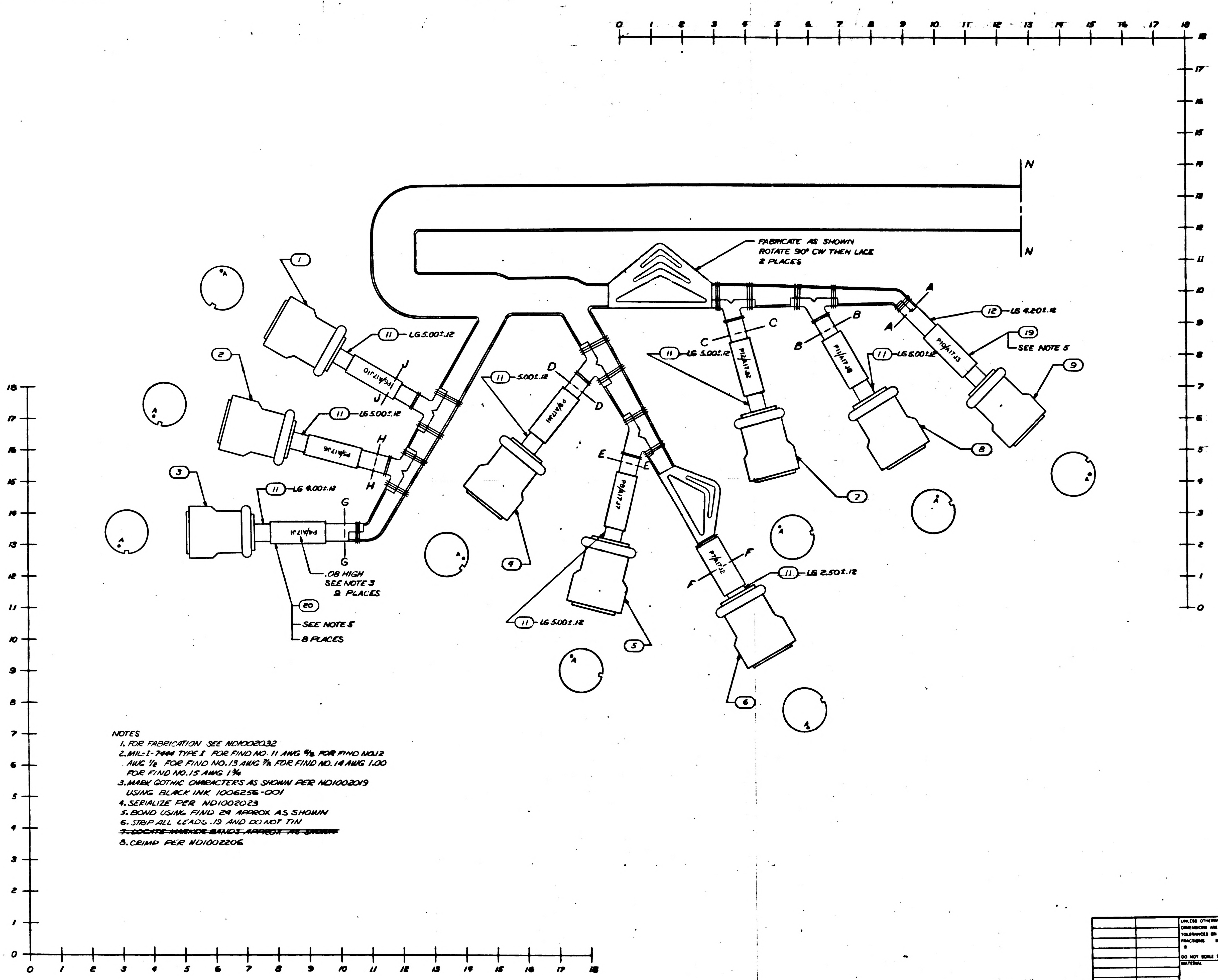
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-4065
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
APPROVAL
APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
DRAWING NO. 1014459
SCALE 1/1
SHEET

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R 5791A DR CHK APPD	18 FEB 64	
B	CHANGED PER TDRR 07853 DR CHK APPD	6 MAY 64	KLB
C	CHANGED PER TDRR 10295 DR S T CHK APPD	24 Jun 64	
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17501 DR P. Moreng CHK APPD	15 APR 65	



FABRICATE AS SHOWN
ROTATE 90° CW THEN LACE
2 PLACES
N
N
1
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3
4
5
6
7
8
9
11 LG 5.00±.12
11 LG 5.00±.12
11 LG 4.00±.12
11 5.00±.12
11 LG 5.00±.12
11 LG 5.00±.12
11 LG 5.00±.12
11 LG 2.50±.12
11 LG 5.00±.12
12 LG 4.20±.12
19 SEE NOTE 5
20 SEE NOTE 5 8 PLACES
.08 HIGH SEE NOTE 3 9 PLACES
P5/A17J10
P5/A17J6
P4/A17J1
P9/A17J11
P8/A17J7
P7/A17J2
P12/A17J12
P11/A17J8
P10/A17J3
A
B
C
D
E
F
G
H
J

NOTES

1. FOR FABRICATION SEE ND1002032
2. MIL-I-7444 TYPE I FOR FIND NO. 11 AWG 3/8 FOR FIND NO.12 AWG 1/2 FOR FIND NO.13 AWG 7/8 FOR FIND NO. 14 AWG 1.00 FOR FIND NO.15 AWG 1 3/4
3. MARK GOTHIC CHARACTERS AS SHOWN PER ND1002019 USING BLACK INK 1006256-001
4. SERIALIZE PER ND1002023
5. BOND USING FIND 24 APPROX AS SHOWN
6. STRIP ALL LEADS .19 AND DO NOT TIN
~~7. LOCATE MARKER BANDS APPROX AS SHOWN~~
8. CRIMP PER ND1002206

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	1006253	ADHESIVE	24
~~1~~	~~1019472-7~~	~~BAND MARKER, CABLE~~	~~23~~
3	1019472-7A	BAND MARKER, CABLE	22
1	1019472-6A	BAND MARKER, CABLE	21
8	1019472-4A	BAND MARKER, CABLE	20
1	1019472-3A	BAND MARKER, CABLE	19
AR	1019341-11	WIRE, ELEC	18
AR	MIL-W 16878/4 TYPE E22 BLK	WIRE, ELEC	17
AR	MIL-W 16878/4 TYPE E22 WHT	WIRE, ELEC	16
AR	SEE NOTE 2	SLEEVING	15
AR	SEE NOTE 2	SLEEVING	14
AR	SEE NOTE 2	SLEEVING	13
AR	SEE NOTE 2	SLEEVING	12
AR	SEE NOTE 2	SLEEVING	11
3	1006672	CONNECTOR	10
1	MS3126F-22-55PW	CONNECTOR	9
1	MS3126F-24-61PY	CONNECTOR	8
1	MS3126F-22-55PY	CONNECTOR	7
1	MS3126F-24-61PW	CONNECTOR	6
1	MS3126F-24-61PX	CONNECTOR	5
1	MS3126F-24-61PZ	CONNECTOR	4
1	MS3126F-22-55P	CONNECTOR	3
1	MS3126F-24-61P	CONNECTOR	2
1	MS3126F-22-55PX	CONNECTOR	1

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

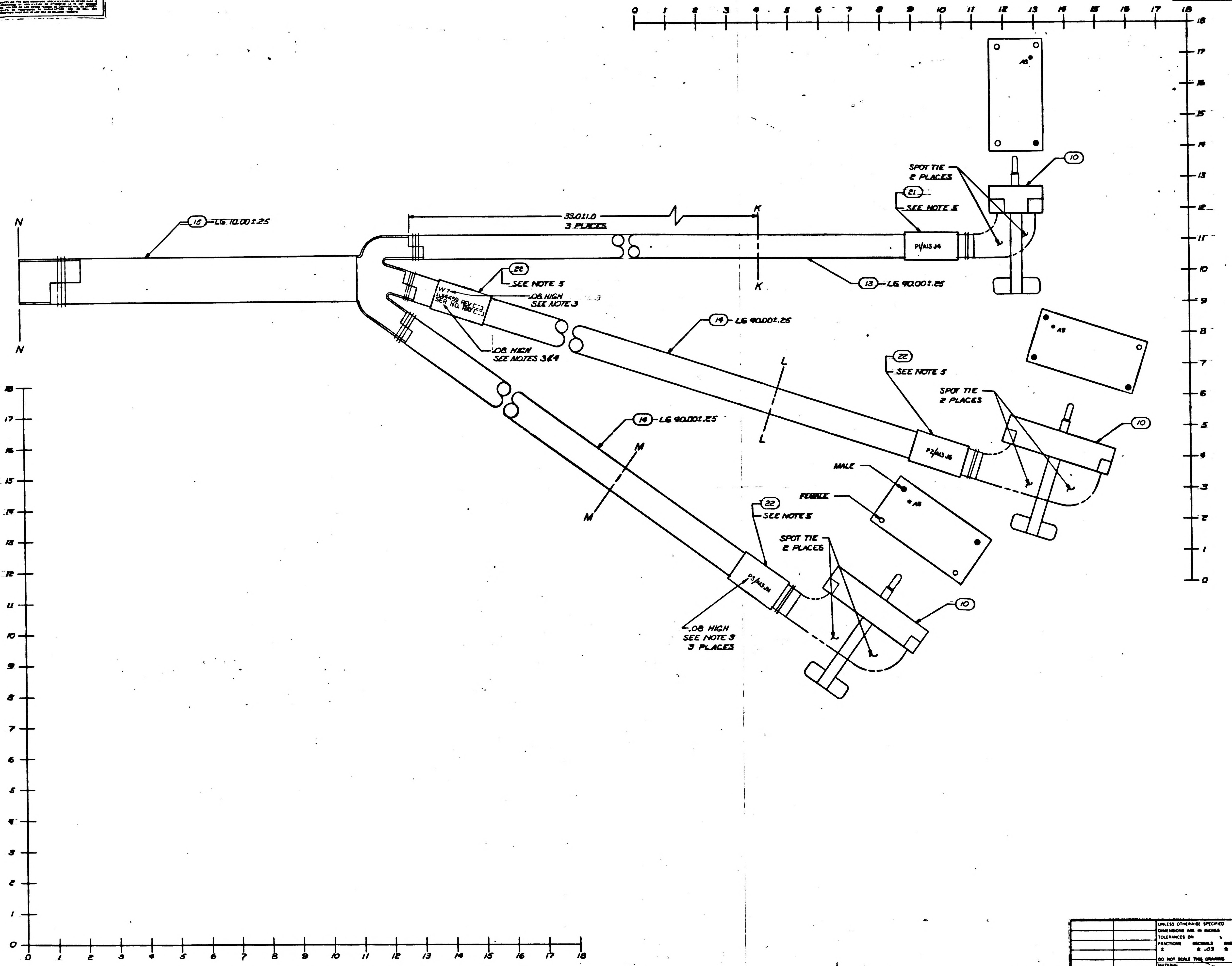
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014459
SCALE 1/1
WT
SHEET 1 OF 7

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		
A	CL II CHANGE PER RD-R5791A DR K Mathy CHK A Coggins APPD S Conley	18 FEB 64	WS
C	CHANGED PER TDRR 10295 DR S.T. Quinlin CHK T.Pol APPD S Conley	24 Jun 64	KLB
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17501 DR P. Moroney CHK Yon APPD Gym	15 APR 65	



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
N
N
15 – LG. 10.00 ±.25
33.0±1.0
3 PLACES
K
K
13 – LG. 90.00 ±.25
P1/A13 J4
21
SEE NOTE 5
SPOT TIE
2 PLACES
10
A9
22
SEE NOTE 5
W7
1014459 REV [ ]
SER. NO. RAY [ ]
.08 HIGH
SEE NOTE 3
.08 HIGH
SEE NOTES 3 & 4
14 – LG. 90.00 ±.25
L
L
22
SEE NOTE 5
SPOT TIE
2 PLACES
10
A8
P2/A13 J6
14 – LG. 90.00 ±.25
M
M
MALE
FEMALE
A8
22
SEE NOTE 5
SPOT TIE
2 PLACES
P3/A13 J4
10
.08 HIGH
SEE NOTE 3
3 PLACES

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

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APPLICATION

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MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN K Mathy DATE 30 Dec 63
CHECKED A Coggins 2 Jan 64
APPROVAL C Sullivan JPK
APPROVAL
APPROVAL
NASA APPROVAL
T APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014459
SCALE 1/1
WT
SHEET 2 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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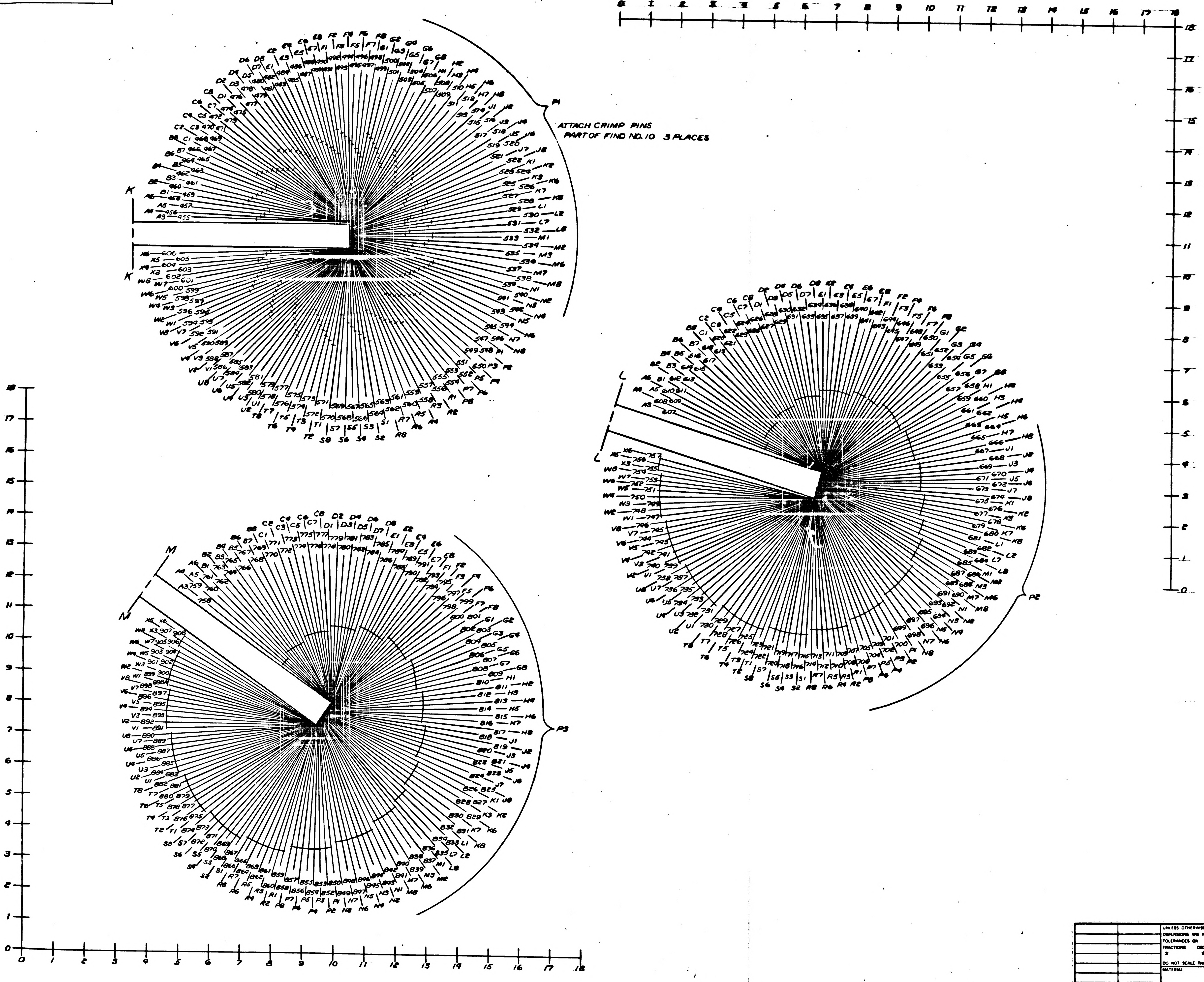
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TORR 04778		
D	UPGRADE TO CLASS A WITH CHANGE PER TORR 17501 DR P. Moraney CHK APPD	5 Apr 68	



QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS9-498
DRAWN H. Malloy DATE
CHECKED C. Casagrande 2 Mar 6
APPROVAL C. Spalding
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO — SIZE J NASA DRAWING NO 1014459
SCALE 1/1 WT SHEET 3 OF 7

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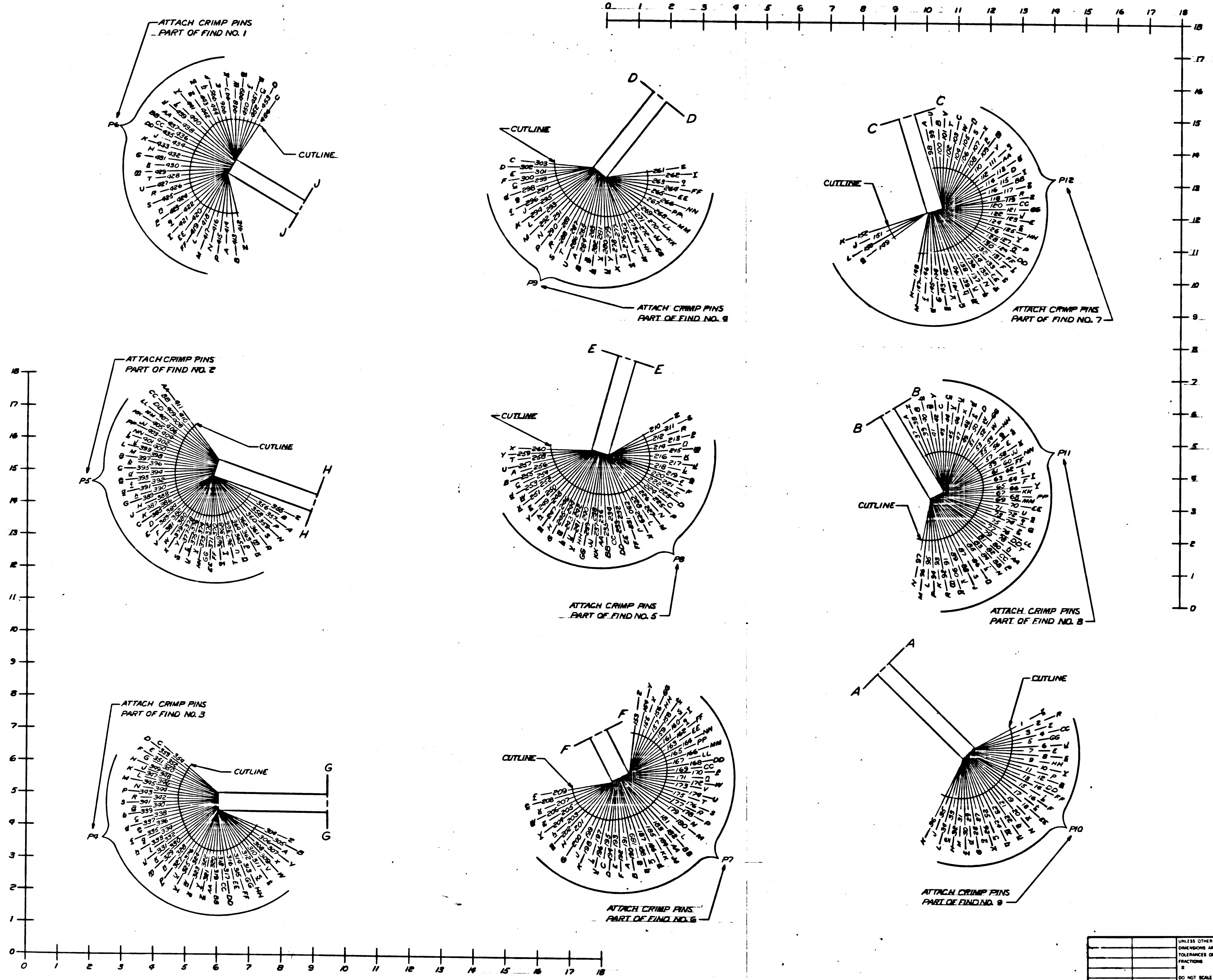
REVISIONS

SYM	DESCRIPTION	DATE	APPROVE
—	CL B RELEASED PER TDRR 04778	2-4	
C	CHANGED PER TDRR 10295 DR S.T. CHK APPD		KEB
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17501 DR CHK APPD	15 APR 65	


ATTACH CRIMP PINS PART OF FIND NO. 1
P6
CUTLINE
J
J
CUTLINE
D
D
P9
ATTACH CRIMP PINS PART OF FIND NO. 9
C
C
CUTLINE
P12
ATTACH CRIMP PINS PART OF FIND NO. 7
ATTACH CRIMP PINS PART OF FIND NO. 2
CUTLINE
P5
H
H
E
E
CUTLINE
P8
ATTACH CRIMP PINS PART OF FIND NO. 5
B
B
P11
CUTLINE
ATTACH CRIMP PINS PART OF FIND NO. 8
ATTACH CRIMP PINS PART OF FIND NO. 3
CUTLINE
G
G
P4
F
F
CUTLINE
P7
ATTACH CRIMP PINS PART OF FIND NO. 6
A
A
CUTLINE
P10
ATTACH CRIMP PINS PART OF FIND NO. 9
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

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MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 20 OCT 63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014459
SCALE 1/1
WT
SHEET 4 OF 7

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVE
-	CLASS B RELEASED PER TORR 04778		
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17501 DR CHK APPD	15 APR 65	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	69	BLACK	22	17	457	
	38				459	
	3				464	
	119				509	
	150				592	
	70				597	
	304				627	
	355				755	
	412				635	
	153				810	
	210				802	
	261	BLACK	22	17	906	
	1	WHITE	22	16	458	
	2				463	
	4				468	
	5				600	
	6				513	
	7				505	
	8				497	
	9				489	
	10				481	
	11				473	
	12				465	
	13				588	
	14				580	
	15				572	
	16				564	
	17				556	
	18				548	
	19				540	
	20				541	
	21				534	
	22				530	
	23				524	
	24				573	
	25				516	
	26				581	
	27				483	
	28				455	
	29				461	
	30				469	
	31				477	
	32				485	
	33				501	
	34				601	
	35				605	
	36				606	
	37				538	
	39				460	
	40				602	
	41				528	
	42				474	
	43				472	
	44				480	
	45				488	
	46				496	
	47				504	
	48				512	
	49				520	
	50				526	
	51				536	
	52				544	
	53				552	
	54				560	
	55				568	
	56				576	
	57				584	
	58				539	
	59				547	
	60				555	
	61				563	
	62				571	
	63				579	
	64				522	
	65				514	
	66				595	
	67				587	
	68				466	
	71				603	
	72	WHITE	22	16	456	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	73	WHITE	22	16	462	
	74				604	
	75				596	
	76				532	
	77				533	
	78				529	
	79				523	
	80				515	
	81				507	
	82				499	
	83				491	
	84				549	
	85				557	
	86				565	
	87				593	
	88				585	
	89				577	
	90				569	
	91				561	
	92				553	
	93				545	
	94				537	
	95				531	
	96				527	
	97				521	
	98				586	
	99				594	
	100				508	
	101				500	
	102				476	
	103				498	
	104				546	
	105				490	
	106				554	
	107				578	
	108				570	
	109				562	
	110				484	
	111				482	
	112				493	
	113				492	
	114				506	
	115				471	
	116				479	
	117				487	
	118				495	
	120				511	
	121				519	
	122				543	
	123				551	
	124				559	
	125				567	
	126				575	
	127				583	
	128				591	
	129				599	
	130				470	
	131				478	
	132				486	
	133				494	
	134				502	
	135				510	
	136				518	
	137				542	
	138				550	
	139				558	
	140				566	
	141				574	
	142				582	
	143				590	
	144				598	
	145				503	
	146				517	
	147				525	
	148				535	
	149				589	
	151				475	
	152	WHITE	22	16	467	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	155	WHT	22	18	882	
	154	BLK			890	
	157	WHT	22	18	881	
	156	BLK			889	
	159	WHT	22	18	880	
	158	BLK			888	
	161	WHT	22	18	866	
	160	BLK			874	
	163	WHT	22	18	857	
	162	BLK			858	
	165	WHT	22	18	855	
	164	BLK			856	
	167	WHT	22	18	865	
	166	BLK			873	
	169	WHT	22	18	864	
	168	BLK			872	
	171	WHT	22	18	863	
	170	BLK			871	
	173	WHT	22	18	841	
	172	BLK			849	
	175	WHT	22	18	840	
	174	BLK			848	
	177	WHT	22	18	839	
	176	BLK			847	
	179	WHT	22	18	834	
	178	BLK			835	
	181	WHT	22	18	823	
	180	BLK			829	
	183	WHT	22	18	821	
	182	BLK			822	
	185	WHT	22	18	806	
	184	BLK			814	
	187	WHT	22	18	805	
	186	BLK			813	
	189	WHT	22	18	804	
	188	BLK			812	
	191	WHT	22	18	803	
	190	BLK			811	
	193	WHT	22	18	825	
	192	BLK			831	
	195	WHT	22	18	824	
	194	BLK			830	
	197	WHT	22	18	838	
	196	BLK			844	
	199	WHT	22	18	837	
	198	BLK			843	
	201	WHT	22	18	836	
	200	BLK			842	
	203	WHT	22	18	832	
	202	BLK			833	
	205	WHT	22	18	820	
	204	BLK			828	
	207	WHT	22	18	819	
	206	BLK			827	
	209	WHT	22	18	818	
	208	BLK			826	
	212	WHT	22	18	777	
	211	BLK			785	
	214	WHT	22	18	776	
	213	BLK			784	
	216	WHT	22	18	787	
	215	BLK			795	
	218	WHT	22	18	786	
	217	BLK			794	
	220	WHT	22	18	793	
	219	BLK			801	
	222	WHT	22	18	792	
	221	BLK			800	
	224	WHT	22	18	791	
	223	BLK			799	
	226	WHT	22	18	772	
	225	BLK			780	
	228	WHT	22	18	771	
	227	BLK			779	
	230	WHT	22	18	770	
	229	BLK			778	
	232	WHT	22	18	809	
	231	BLK			817	
	234	WHT	22	18	808	
	233	BLK			816	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 12 OCT 63
CHECKED 2 Nov 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 11/19/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO ——— SIZE J NASA DRAWING NO 1014459
SCALE NONE WT SHEET 5 OF 7

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TORR 34776		
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17501 DR J. Mooney CHK APPD	15 APR 65	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	236	WHT	22	18	807	
	235	BLK			818	
	238	WHT	22	18	790	
	237	BLK			798	
	240	WHT	22	18	789	
	239	BLK			797	
	242	WHT	22	18	788	
	241	BLK			796	
	244	WHT	22	18	775	
	243	BLK			783	
	246	WHT	22	18	774	
	245	BLK			782	
	248	WHT	22	18	773	
	247	BLK			781	
	250	WHT	22	18	768	
	249	BLK			769	
	252	WHT	22	18	766	
	251	BLK			767	
	254	WHT	22	18	764	
	253	BLK			765	
	256	WHT	22	18	762	
	255	BLK			763	
	258	WHT	22	18	760	
	257	BLK			761	
	260	WHT	22	18	758	
	259	BLK			759	
	263	WHT	22	18	894	
	262	BLK			901	
	265	WHT	22	18	879	
	264	BLK			887	
	267	WHT	22	18	870	
	266	BLK			878	
	269	WHT	22	18	854	
	268	BLK			862	
	271	WHT	22	18	853	
	270	BLK			861	
	273	WHT	22	18	845	
	272	BLK			846	
	275	WHT	22	18	885	
	274	BLK			886	
	277	WHT	22	18	883	
	276	BLK			884	
	279	WHT	22	18	893	
	278	BLK			900	
	281	WHT	22	18	892	
	280	BLK			899	
	283	WHT	22	18	891	
	282	BLK			898A	
	285	WHT	22	18	907	
	284	BLK			908	
	287	WHT	22	18	852	
	286	BLK			860	
	289	WHT	22	18	850	
	288	BLK			859	
	291	WHT	22	18	869	
	290	BLK			877	
	293	WHT	22	18	868	
	292	BLK			876	
	295	WHT	22	18	867	
	294	BLK			875	
	297	WHT	22	18	895	
	296	BLK			902	
	299	WHT	22	18	896	
	298	BLK			903	
	301	WHT	22	18	897	
	300	BLK			904	
	303	WHT	22	18	898	
	302	BLK			905	
	306	WHT	22	18	618	
	305	BLK			626	
	308	WHT	22	18	617	
	307	BLK			625	
	310	WHT	22	18	616	
	309	BLK			624	
	312	WHT	22	18	615	
	311	BLK			623	
	314	WHT	22	18	614	
	313	BLK			622	
	316	WHT	22	18	613	
	315	BLK			621	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	318	WHT	22	18	612	
	317	BLK			620	
	320	WHT	22	18	611	
	319	BLK			619	
	322	WHT	22	18	609	
	321	BLK			610	
	324	WHT	22	18	607	
	323	BLK			608	
	326	WHT	22	18	680	
	325	BLK			684	
	328	WHT	22	18	679	
	327	BLK			683	
	330	WHT	22	18	678	
	329	BLK			688	
	332	WHT	22	18	666	
	331	BLK			674	
	334	WHT	22	18	665	
	333	BLK			673	
	336	WHT	22	18	664	
	335	BLK			672	
	338	WHT	22	18	663	
	337	BLK			671	
	340	WHT	22	18	650	
	339	BLK			658	
	342	WHT	22	18	649	
	341	BLK			657	
	344	WHT	22	18	648	
	343	BLK			656	
	346	WHT	22	18	647	
	345	BLK			655	
	348	WHT	22	18	634	
	347	BLK			642	
	350	WHT	22	18	633	
	349	BLK			641	
	352	WHT	22	18	632	
	351	BLK			640	
	354	WHT	22	18	631	
	353	BLK			639	
	357	WHT	22	18	689	
	356	BLK			690	
	359	WHT	22	18	730	
	358	BLK			738	
	361	WHT	22	18	729	
	360	BLK			737	
	363	WHT	22	18	714	
	362	BLK			722	
	365	WHT	22	18	713	
	364	BLK			721	
	367	WHT	22	18	712	
	366	BLK			720	
	369	WHT	22	18	711	
	368	BLK			719	
	371	WHT	22	18	710	
	370	BLK			718	
	373	WHT	22	18	709	
	372	BLK			717	
	375	WHT	22	18	698	
	374	BLK			706	
	377	WHT	22	18	697	
	376	BLK			705	
	379	WHT	22	18	696	
	378	BLK			704	
	381	WHT	22	18	695	
	380	BLK			703	
	383	WHT	22	18	756	
	382	BLK			757	
	385	WHT	22	18	746	
	384	BLK			754	
	387	WHT	22	18	745	
	386	BLK			753	
	389	WHT	22	18	744	
	388	BLK			752	
	391	WHT	22	18	743	
	390	BLK			751	
	393	WHT	22	18	742	
	392	BLK			750	
	395	WHT	22	18	741	
	394	BLK			749	
	397	WHT	22	18	740	
	396	BLK			748	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	399	WHT	22	18	739	
	398	BLK			747	
	401	WHT	22	18	728	
	400	BLK			736	
	403	WHT	22	18	727	
	402	BLK			735	
	405	WHT	22	18	726	
	404	BLK			734	
	407	WHT	22	18	725	
	406	BLK			733	
	409	WHT	22	18	724	
	408	BLK			732	
	411	WHT	22	18	723	
	410	BLK			731	
	414	WHT	22	18	630	
	413	BLK			638	
	416	WHT	22	18	628	
	415	BLK			636	
	418	WHT	22	18	629	
	417	BLK			637	
	420	WHT	22	18	708	
	419	BLK			716	
	422	WHT	22	18	707	
	421	BLK			715	
	424	WHT	22	18	694	
	423	BLK			702	
	426	WHT	22	18	693	
	425	BLK			701	
	428	WHT	22	18	692	
	427	BLK			700	
	430	WHT	22	18	691	
	429	BLK			699	
	432	WHT	22	18	677	
	431	BLK			687	
	434	WHT	22	18	685	
	433	BLK			686	
	436	WHT	22	18	676	
	435	BLK			682	
	438	WHT	22	18	675	
	437	BLK			681	
	440	WHT	22	18	662	
	439	BLK			670	
	442	WHT	22	18	661	
	441	BLK			669	
	444	WHT	22	18	660	
	443	BLK			668	
	446	WHT	22	18	659	
	445	BLK			667	
	448	WHT	22	18	646	
	447	BLK			654	
	450	WHT	22	18	645	
	449	BLK			653	
	452	WHT	22	18	644	
	451	BLK			652	
	454	WHT	22	18	643	
	453	BLK			651	

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
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NASA APPROVAL
MIT APPROVAL
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

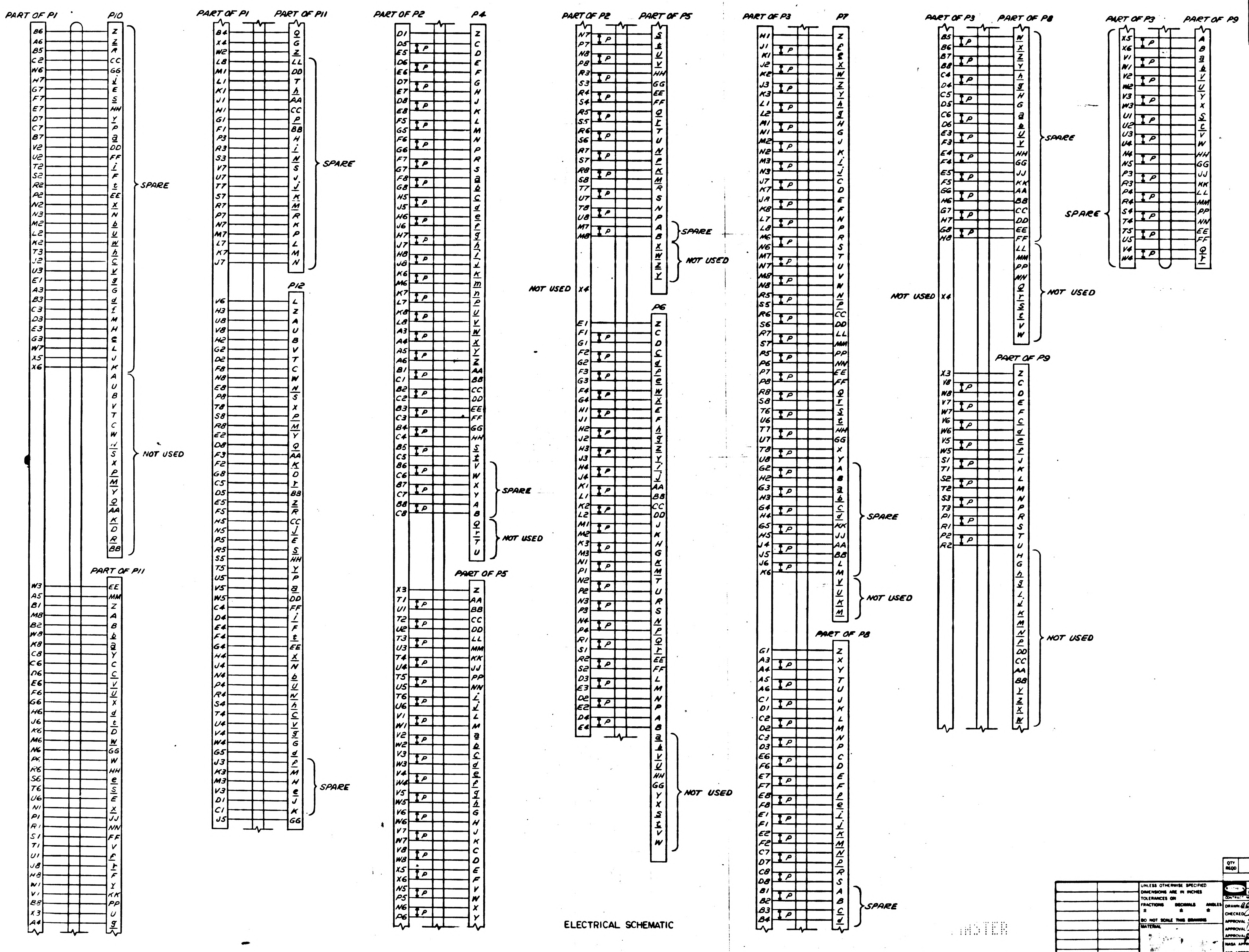
CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO ——— SIZE J NASA DRAWING NO 1014459
SCALE NONE WT SHEET 6 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR 04778		
A	CL II CHANGE PER AD-R 5791A DR K Motty CHK A Caggiano APPD Hanley	18 FEB 64	
B	CHANGED PER TDRR 07853 DR H. Kelley CHK Holbrooke APPD Hanley	6 MAY 64	KSB
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17501 DR P. Mooney CHK APPD	15 65	


PART OF P1
P10
SPARE
NOT USED
PART OF P11
PART OF P1
PART OF P11
SPARE
P12
SPARE
PART OF P2
P4
SPARE
NOT USED
PART OF P5
PART OF P2
PART OF P5
SPARE
NOT USED
NOT USED
X4
P6
NOT USED
PART OF P3
P7
SPARE
NOT USED
PART OF P8
SPARE
PART OF P3
PART OF P8
SPARE
NOT USED
NOT USED
X4
PART OF P9
NOT USED
PART OF P3
PART OF P9
SPARE
P

ELECTRICAL SCHEMATIC

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN B.E. DATE 63
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APPROVAL
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MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014459
SCALE NONE
WT
SHEET 7 OF 7

1014459 D

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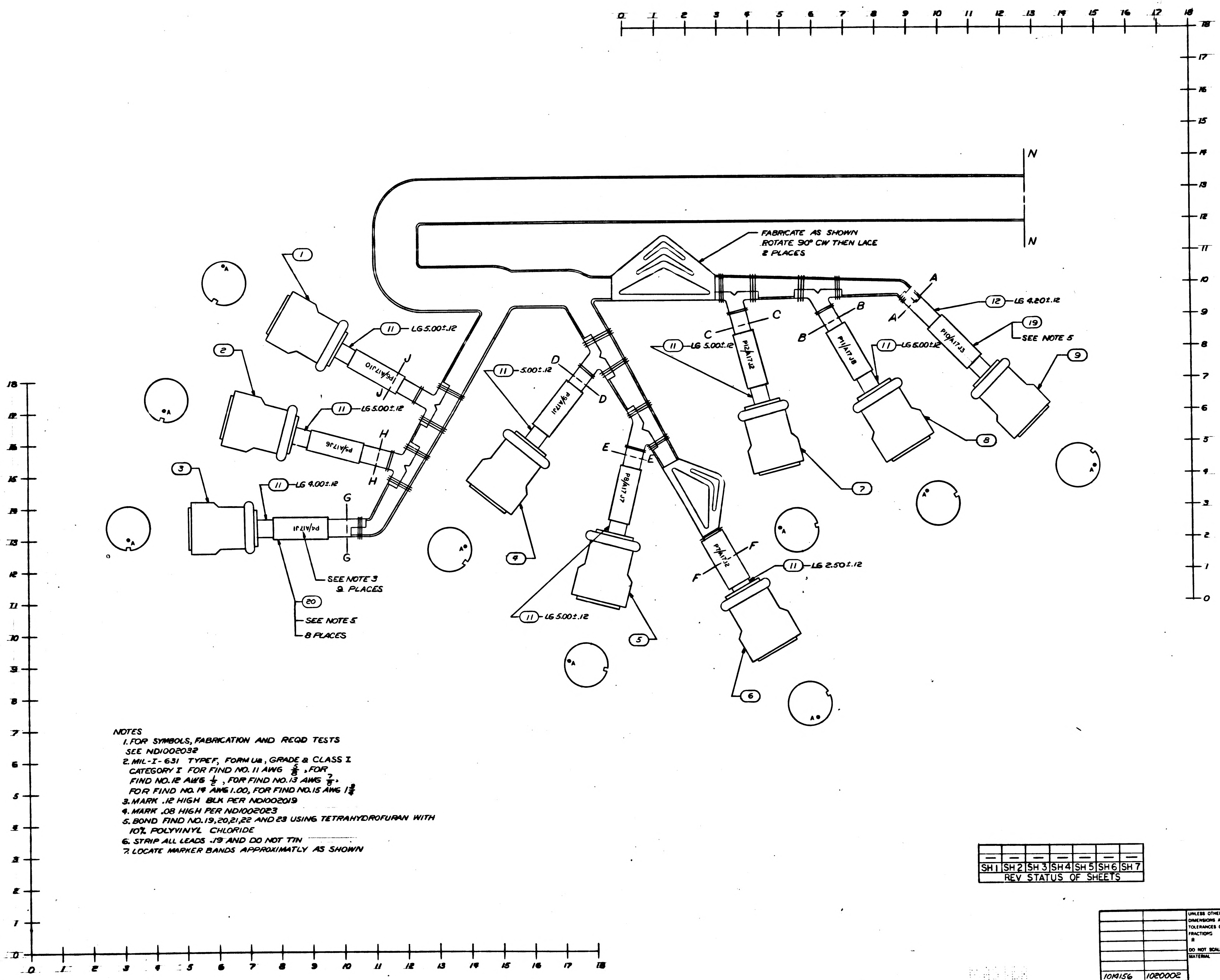
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
N
N
FABRICATE AS SHOWN
ROTATE 90° CW THEN LACE
2 PLACES
1
2
3
4
5
6
7
8
9
11 — LG 5.00±.12
P6/A17J10
J
J
11 — LG 5.00±.12
P5/A17J6
H
H
11 — LG 4.00±.12
P4/A17J1
G
G
SEE NOTE 3
9 PLACES
20
SEE NOTE 5
8 PLACES
11 — 5.00±.12
P9/A17J11
D
D
E
E
P8/A17J7
11 — LG 5.00±.12
P7/A17J2
F
F
11 — LG 2.50±.12
11 — LG 5.00±.12
P12/A17J12
C
C
P11/A17J8
B
B
11 — LG 5.00±.12
A
A
12 — LG 4.20±.12
P10/A17J3
19
SEE NOTE 5
A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04778 DATE 11 20/63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND1002032
2. MIL-I-631 TYPE F, FORM U2, GRADE A CLASS I CATEGORY I FOR FIND NO. 11 AWG $\frac{5}{8}$, FOR FIND NO. 12 AWG $\frac{1}{2}$, FOR FIND NO. 13 AWG $\frac{7}{8}$, FOR FIND NO. 14 AWG 1.00, FOR FIND NO. 15 AWG $1\frac{3}{4}$
3. MARK .12 HIGH BLK PER ND1002019
4. MARK .08 HIGH PER ND1002023
5. BOND FIND NO. 19, 20, 21, 22 AND 23 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
6. STRIP ALL LEADS .19 AND DO NOT TIN
7. LOCATE MARKER BANDS APPROXIMATLY AS SHOWN

—	—	—	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5	SH 6	SH 7

REV STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1019472-5	BAND MARKER, CABLE	23
2	1019472-5A	BAND MARKER, CABLE	22
1	1019472-4A	BAND MARKER, CABLE	21
8	1019472-2A	BAND MARKER, CABLE	20
1	1019472-1A	BAND MARKER, CABLE	19
AR	1019391-11	WIRE, ELEC	18
AR	ND1002181 TYPE I CL I	WIRE, ELEC AWG 22 BLK	17
AR	ND1002181 TYPE I CL I	WIRE, ELEC AWG 22 WHT	16
AR	SEE NOTE 2	SLEEVING	15
AR	SEE NOTE 2	SLEEVING	14
AR	SEE NOTE 2	SLEEVING	13
AR	SEE NOTE 2	SLEEVING	12
AR	SEE NOTE 2	SLEEVING	11
3	1006672	CONNECTOR	10
1	MS3126F-22-55PW	CONNECTOR	9
1	MS3126F-24-61PY	CONNECTOR	8
1	MS3126F-22-55PY	CONNECTOR	7
1	MS3126F-24-61PW	CONNECTOR	6
1	MS3126F-24-61PX	CONNECTOR	5
1	MS3126F-24-61PZ	CONNECTOR	4
1	MS3126F-22-55P	CONNECTOR	3
1	MS3126F-24-61P	CONNECTOR	2
1	MS3126F-22-55PX	CONNECTOR	1

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Matty DATE
CHECKED A. Caggiano 2Nov63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 11/13/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

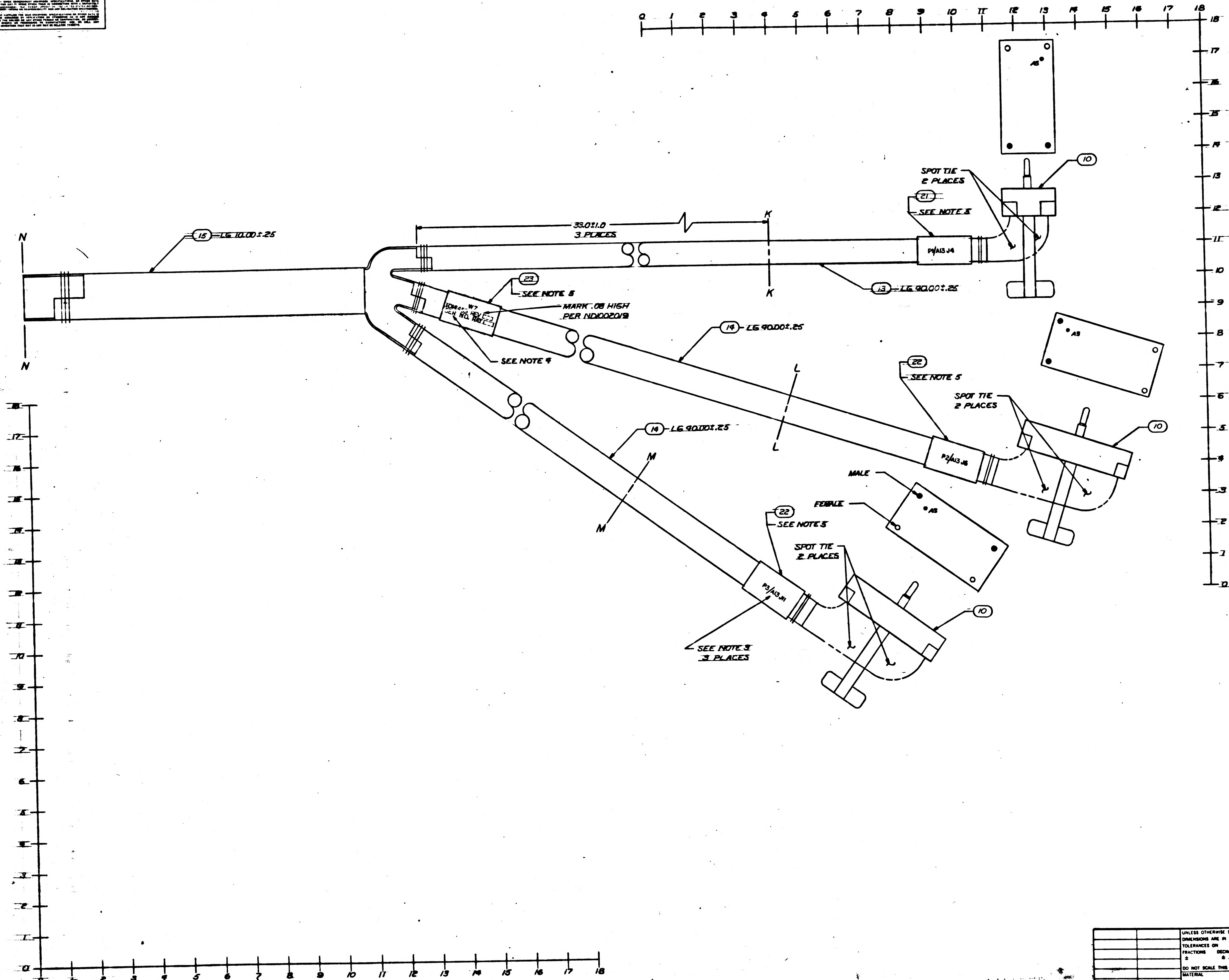
CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014459
SCALE 1/1
WT
SHEET 1 of 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014459

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
N
N
15 LG 10.00±.25
33.0±1.0
3 PLACES
K
K
21
SEE NOTE 5
SPOT TIE
2 PLACES
10
P1/A13 J4
13 LG 90.00±.25
23
SEE NOTE 5
W7
1014459 REV [–]
SER NO. RAY [–]
MARK .08 HIGH
PER ND1002019
SEE NOTE 4
14 LG 90.00±.25
L
L
22
SEE NOTE 5
SPOT TIE
2 PLACES
10
P2/A13 J8
A3
A5
MALE
FEMALE
A5
14 LG 90.00±.25
M
M
22
SEE NOTE 5
SPOT TIE
2 PLACES
10
P3/A13 J11
SEE NOTE 5
3 PLACES

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04719 DATE 7/4/63

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
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MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Mathy DATE 30 Oct 63
CHECKED A. Cappiano 2 Nov 63
APPROVAL C. Jordan JRK
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL D. Hoag 11/12/63
MIT APPROVAL 11/19/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

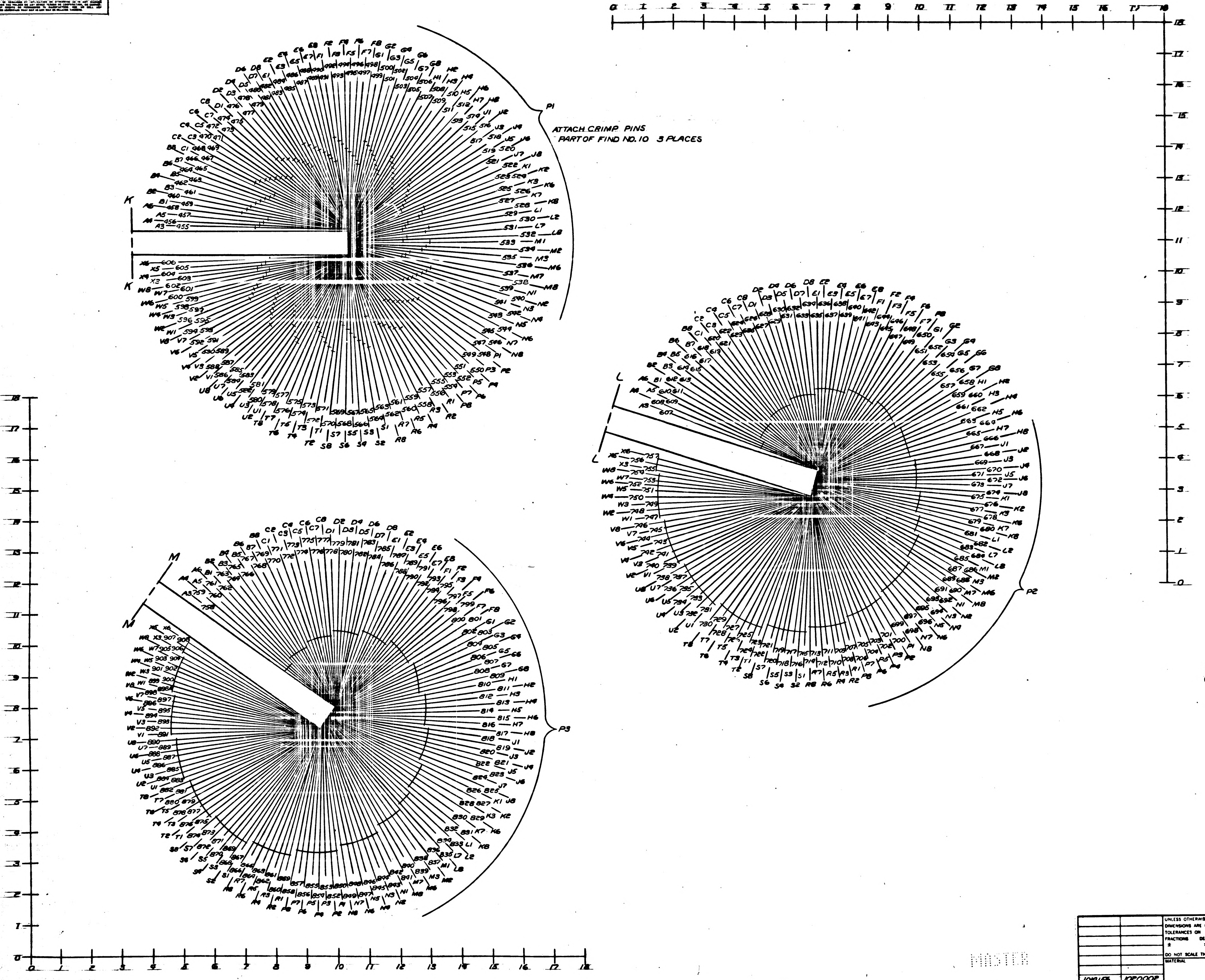
CODE IDENT NO. —
SIZE J
NASA DRAWING NO. K 1014459
SCALE 1/1
WT
SHEET 2 OF 7

REPRINT DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014459

INCHES
PHOTOGRAPHIC SCALE ONLY

SYM.	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		



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CLASS B RELEASE TDRR NO. 04778 DATE 11/20/63

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1019156	1020002

APPLICATION

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FRACTIONS ± DECIMALS ±.03 ANGLES ±
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MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS9-498
DRAWN R. Malty DATE 30 Oct 63
CHECKED A. Coggins 2 Nov 63
APPROVAL C. Spalding JCK
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 11/20/63
MIT APPROVAL 11/19/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

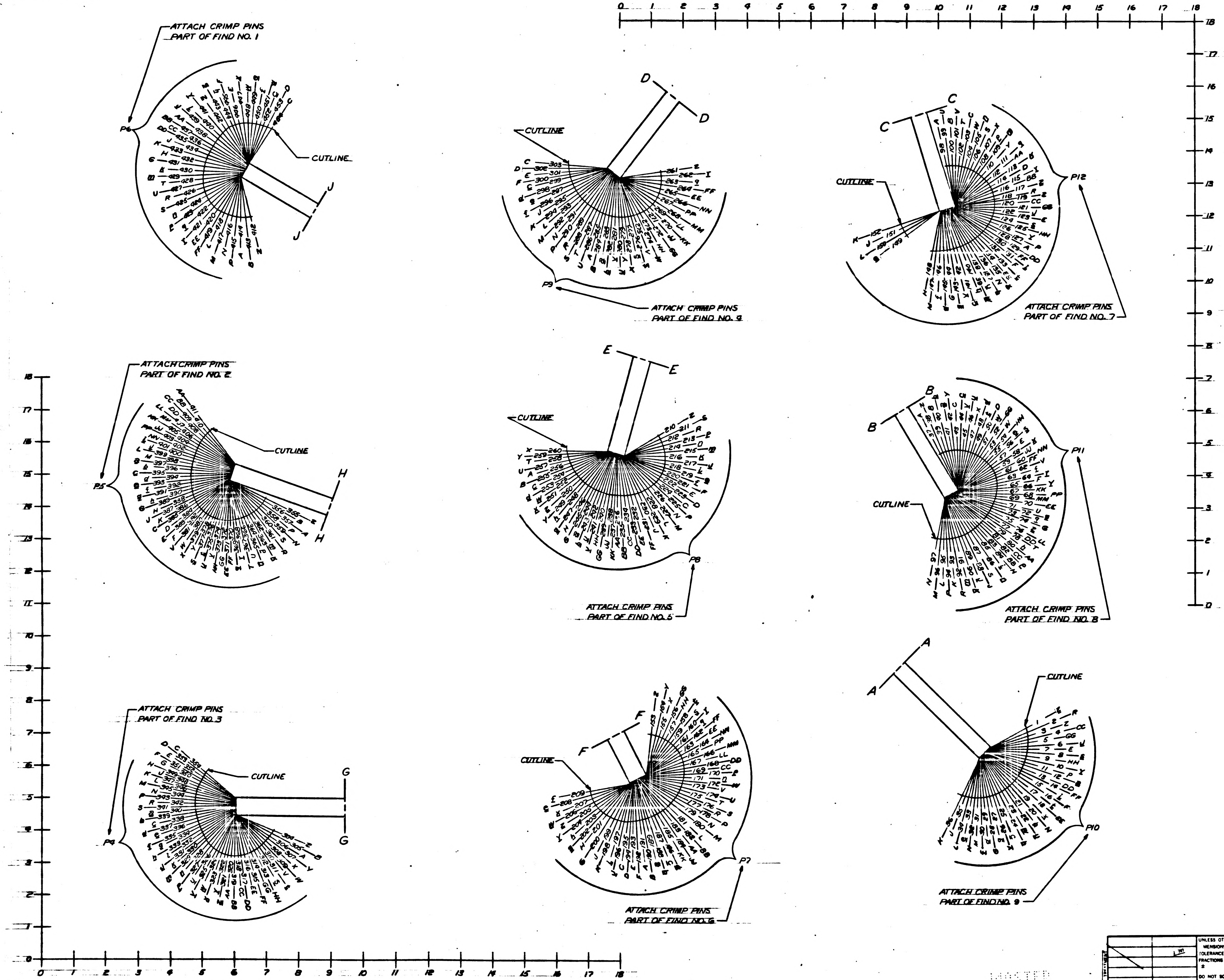
CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014459
SCALE 1/1
WT
SHEET 3 OF 7

1014459

INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		


ATTACH CRIMP PINS PART OF FIND NO. 1
P6
CUTLINE
J
D
D
CUTLINE
P9
ATTACH CRIMP PINS PART OF FIND NO. 9
C
C
CUTLINE
P12
ATTACH CRIMP PINS PART OF FIND NO. 7
ATTACH CRIMP PINS PART OF FIND NO. 2
P5
CUTLINE
H
H
E
E
CUTLINE
P8
ATTACH CRIMP PINS PART OF FIND NO. 5
B
B
P11
CUTLINE
ATTACH CRIMP PINS PART OF FIND NO. 8
ATTACH CRIMP PINS PART OF FIND NO. 3
CUTLINE
G
G
P4
F
F
CUTLINE
P7
ATTACH CRIMP PINS PART OF FIND NO. 6
A
A
CUTLINE
P10
ATTACH CRIMP PINS PART OF FIND NO. 9
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04778 DATE 11/21/63

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
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MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 30 OCT 63
CHECKED 2 Nov 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 11/21/63
MIT APPROVAL 11/19/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO. — SIZE J NASA DRAWING NO. 1014459
SCALE 1/1 WT SHEET 6 OF 7

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	69	BLACK	22	17	457	
	38	↑	↑	↑	459	
	3				464	
	119				509	
	150				592	
	70				597	
	304				627	
	355				755	
	412				635	
	153				810	
	210	↓	↓	↓	802	
	261	BLACK	22	17	906	
	1	WHITE	22	16	458	
	2	↑	↑	↑	463	
	4				468	
	5				600	
	6				513	
	7				505	
	8				497	
	9				489	
	10				481	
	11				473	
	12				465	
	13				588	
	14				580	
	15				572	
	16				564	
	17				556	
	18				548	
	19				540	
	20				541	
	21				534	
	22				530	
	23				524	
	24				573	
	25				516	
	26				581	
	27				483	
	28				455	
	29				461	
	30				469	
	31				477	
	32				485	
	33				501	
	34				601	
	35				605	
	36				606	
	37				538	
	39				460	
	40				602	
	41				528	
	42				474	
	43				472	
	44				480	
	45				488	
	46				496	
	47				504	
	48				512	
	49				520	
	50				526	
	51				536	
	52				544	
	53				552	
	54				560	
	55				568	
	56				576	
	57				584	
	58				539	
	59				547	
	60				555	
	61				563	
	62				571	
	63				579	
	64				522	
	65				514	
	66				595	
	67				587	
	68				466	
	71	↓	↓	↓	603	
	72	WHITE	22	16	456	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	73	WHITE	22	16	462	
	74	↑	↑	↑	604	
	75				596	
	76				532	
	77				533	
	78				529	
	79				523	
	80				515	
	81				507	
	82				499	
	83				491	
	84				549	
	85				557	
	86				565	
	87				593	
	88				585	
	89				577	
	90				569	
	91				561	
	92				553	
	93				545	
	94				537	
	95				531	
	96				527	
	97				521	
	98				586	
	99				594	
	100				508	
	101				500	
	102				476	
	103				498	
	104				546	
	105				490	
	106				554	
	107				578	
	108				570	
	109				562	
	110				484	
	111				482	
	112				493	
	113				492	
	114				506	
	115				471	
	116				479	
	117				487	
	118				495	
	120				511	
	121				519	
	122				543	
	123				551	
	124				559	
	125				567	
	126				575	
	127				583	
	128				591	
	129				599	
	130				470	
	131				478	
	132				486	
	133				494	
	134				502	
	135				510	
	136				518	
	137				542	
	138				550	
	139				558	
	140				566	
	141				574	
	142				582	
	143				590	
	144				598	
	145				503	
	146				517	
	147				525	
	148				535	
	149				589	
	151	↓	↓	↓	475	
	152	WHITE	22	16	467	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	155	WHT	22	18	882	
	154	BLK			890	
	157	WHT	22	18	881	
	156	BLK			889	
	159	WHT	22	18	880	
	158	BLK			888	
	161	WHT	22	18	866	
	160	BLK			874	
	163	WHT	22	18	857	
	162	BLK			858	
	165	WHT	22	18	855	
	164	BLK			856	
	167	WHT	22	18	865	
	166	BLK			873	
	169	WHT	22	18	864	
	168	BLK			872	
	171	WHT	22	18	863	
	170	BLK			871	
	173	WHT	22	18	841	
	172	BLK			849	
	175	WHT	22	18	840	
	174	BLK			848	
	177	WHT	22	18	839	
	176	BLK			847	
	179	WHT	22	18	834	
	178	BLK			835	
	181	WHT	22	18	823	
	180	BLK			829	
	183	WHT	22	18	821	
	182	BLK			822	
	185	WHT	22	18	806	
	184	BLK			814	
	187	WHT	22	18	805	
	186	BLK			813	
	189	WHT	22	18	804	
	188	BLK			812	
	191	WHT	22	18	803	
	190	BLK			811	
	193	WHT	22	18	825	
	192	BLK			831	
	195	WHT	22	18	824	
	194	BLK			830	
	197	WHT	22	18	838	
	196	BLK			844	
	199	WHT	22	18	837	
	198	BLK			843	
	201	WHT	22	18	836	
	200	BLK			842	
	203	WHT	22	18	832	
	202	BLK			833	
	205	WHT	22	18	820	
	204	BLK			828	
	207	WHT	22	18	819	
	206	BLK			827	
	209	WHT	22	18	818	
	208	BLK			826	
	212	WHT	22	18	777	
	211	BLK			785	
	214	WHT	22	18	776	
	213	BLK			784	
	216	WHT	22	18	787	
	215	BLK			795	
	218	WHT	22	18	786	
	217	BLK			794	
	220	WHT	22	18	793	
	219	BLK			801	
	222	WHT	22	18	792	
	221	BLK			800	
	224	WHT	22	18	791	
	223	BLK			799	
	226	WHT	22	18	772	
	225	BLK			780	
	228	WHT	22	18	771	
	227	BLK			779	
	230	WHT	22	18	770	
	229	BLK			778	
	232	WHT	22	18	809	
	231	BLK			817	
	234	WHT	22	18	808	
	233	BLK			816	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. [illegible] DATE

1014459

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.03 ANGLES ±
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MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN [illegible] DATE 12 Oct 63
CHECKED [illegible] 2 Nov 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 11/19/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014459
SCALE NONE WT SHEET 5 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	236	WHT	22	18	807	
	235	BLK			816	
	238	WHT	22	18	790	
	237	BLK			798	
	240	WHT	22	18	789	
	239	BLK			797	
	242	WHT	22	18	788	
	241	BLK			796	
	244	WHT	22	18	775	
	243	BLK			783	
	246	WHT	22	18	774	
	245	BLK			782	
	248	WHT	22	18	773	
	247	BLK			781	
	250	WHT	22	18	768	
	249	BLK			769	
	252	WHT	22	18	766	
	251	BLK			767	
	254	WHT	22	18	764	
	253	BLK			765	
	256	WHT	22	18	762	
	255	BLK			763	
	258	WHT	22	18	760	
	257	BLK			761	
	260	WHT	22	18	758	
	259	BLK			759	
	263	WHT	22	18	894	
	262	BLK			901	
	265	WHT	22	18	879	
	264	BLK			887	
	267	WHT	22	18	870	
	266	BLK			878	
	269	WHT	22	18	854	
	268	BLK			862	
	271	WHT	22	18	853	
	270	BLK			861	
	273	WHT	22	18	845	
	272	BLK			846	
	275	WHT	22	18	885	
	274	BLK			886	
	277	WHT	22	18	883	
	276	BLK			884	
	279	WHT	22	18	893	
	278	BLK			900	
	281	WHT	22	18	892	
	280	BLK			899	
	283	WHT	22	18	891	
	282	BLK			898A	
	285	WHT	22	18	907	
	284	BLK			908	
	287	WHT	22	18	852	
	286	BLK			860	
	289	WHT	22	18	850	
	288	BLK			859	
	291	WHT	22	18	869	
	290	BLK			877	
	293	WHT	22	18	868	
	292	BLK			876	
	295	WHT	22	18	867	
	294	BLK			875	
	297	WHT	22	18	895	
	296	BLK			902	
	299	WHT	22	18	896	
	298	BLK			903	
	301	WHT	22	18	897	
	300	BLK			904	
	303	WHT	22	18	898	
	302	BLK			905	
	306	WHT	22	18	618	
	305	BLK			626	
	308	WHT	22	18	617	
	307	BLK			625	
	310	WHT	22	18	616	
	309	BLK			624	
	312	WHT	22	18	615	
	311	BLK			623	
	314	WHT	22	18	614	
	313	BLK			622	
	316	WHT	22	18	613	
	315	BLK			621	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	318	WHT	22	18	612	
	317	BLK			620	
	320	WHT	22	18	611	
	319	BLK			619	
	322	WHT	22	18	609	
	321	BLK			610	
	324	WHT	22	18	607	
	323	BLK			608	
	326	WHT	22	18	680	
	325	BLK			684	
	328	WHT	22	18	679	
	327	BLK			683	
	330	WHT	22	18	678	
	329	BLK			688	
	332	WHT	22	18	666	
	331	BLK			674	
	334	WHT	22	18	665	
	333	BLK			673	
	336	WHT	22	18	664	
	335	BLK			672	
	338	WHT	22	18	663	
	337	BLK			671	
	340	WHT	22	18	650	
	339	BLK			658	
	342	WHT	22	18	649	
	341	BLK			657	
	344	WHT	22	18	648	
	343	BLK			656	
	346	WHT	22	18	647	
	345	BLK			655	
	348	WHT	22	18	634	
	347	BLK			642	
	350	WHT	22	18	633	
	349	BLK			641	
	352	WHT	22	18	632	
	351	BLK			640	
	354	WHT	22	18	631	
	353	BLK			639	
	357	WHT	22	18	689	
	356	BLK			690	
	359	WHT	22	18	730	
	358	BLK			738	
	361	WHT	22	18	729	
	360	BLK			737	
	363	WHT	22	18	714	
	362	BLK			722	
	365	WHT	22	18	713	
	364	BLK			721	
	367	WHT	22	18	712	
	366	BLK			720	
	369	WHT	22	18	711	
	368	BLK			719	
	371	WHT	22	18	710	
	370	BLK			718	
	373	WHT	22	18	709	
	372	BLK			717	
	375	WHT	22	18	698	
	374	BLK			706	
	377	WHT	22	18	697	
	376	BLK			705	
	379	WHT	22	18	696	
	378	BLK			704	
	381	WHT	22	18	695	
	380	BLK			703	
	383	WHT	22	18	756	
	382	BLK			757	
	385	WHT	22	18	746	
	384	BLK			754	
	387	WHT	22	18	745	
	386	BLK			753	
	389	WHT	22	18	744	
	388	BLK			752	
	391	WHT	22	18	743	
	390	BLK			751	
	393	WHT	22	18	742	
	392	BLK			750	
	395	WHT	22	18	741	
	394	BLK			749	
	397	WHT	22	18	740	
	396	BLK			748	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	399	WHT	22	18	739	
	398	BLK			747	
	401	WHT	22	18	728	
	400	BLK			736	
	403	WHT	22	18	727	
	402	BLK			735	
	405	WHT	22	18	726	
	404	BLK			734	
	407	WHT	22	18	725	
	406	BLK			733	
	409	WHT	22	18	724	
	408	BLK			732	
	411	WHT	22	18	723	
	410	BLK			731	
	414	WHT	22	18	630	
	413	BLK			638	
	416	WHT	22	18	628	
	415	BLK			636	
	418	WHT	22	18	629	
	417	BLK			637	
	420	WHT	22	18	708	
	419	BLK			716	
	422	WHT	22	18	707	
	421	BLK			715	
	424	WHT	22	18	694	
	423	BLK			702	
	426	WHT	22	18	693	
	425	BLK			701	
	428	WHT	22	18	692	
	427	BLK			700	
	430	WHT	22	18	691	
	429	BLK			699	
	432	WHT	22	18	677	
	431	BLK			687	
	434	WHT	22	18	685	
	433	BLK			686	
	436	WHT	22	18	676	
	435	BLK			682	
	438	WHT	22	18	675	
	437	BLK			681	
	440	WHT	22	18	662	
	439	BLK			670	
	442	WHT	22	18	661	
	441	BLK			669	
	444	WHT	22	18	660	
	443	BLK			668	
	446	WHT	22	18	659	
	445	BLK			667	
	448	WHT	22	18	646	
	447	BLK			654	
	450	WHT	22	18	645	
	449	BLK			653	
	452	WHT	22	18	644	
	451	BLK			652	
	454	WHT	22	18	643	
	453	BLK			651	

1014459

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

MASTER

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN B.B. [illegible] DATE 14 OCT 63
CHECKED [illegible] 2 Nov 63
APPROVAL C. [illegible] JPK
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 11/2/63
MIT APPROVAL E. [illegible] 11/4/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014459
SCALE NONE
WT
SHEET 6 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014459

INCHES
PHOTOGRAPHIC SCALE ONLY

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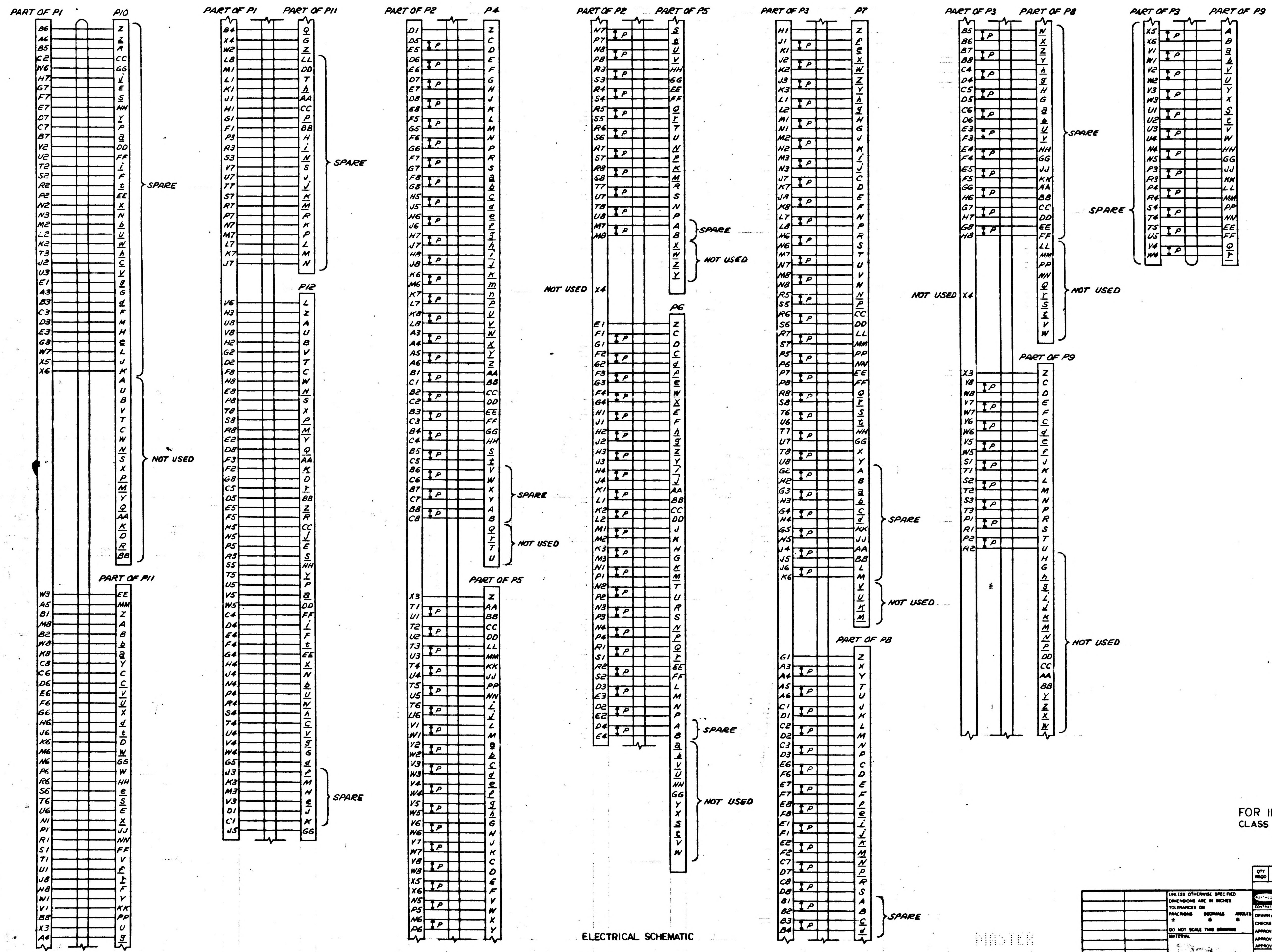
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		



PART OF P1
P10
SPARE
NOT USED
PART OF P11
PART OF P1
PART OF P11
SPARE
P12
SPARE
PART OF P2
P4
P
SPARE
NOT USED
PART OF P5
PART OF P2
PART OF P5
SPARE
NOT USED
NOT USED X4
P6
SPARE
NOT USED
PART OF P3
P7
SPARE
NOT USED
PART OF P8
SPARE
PART OF P3
PART OF P8
SPARE
NOT USED
NOT USED X4
PART OF P9
NOT USED
PART OF P3
PART OF P9
SPARE

ELECTRICAL SCHEMATIC

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04777 DATE

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

NEXT ASSY | USED ON
APPLICATION

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN BBGorman DATE 11/8/63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 11/19/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 7
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014459
SCALE NONE
WT
SHEET 7 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

1014459

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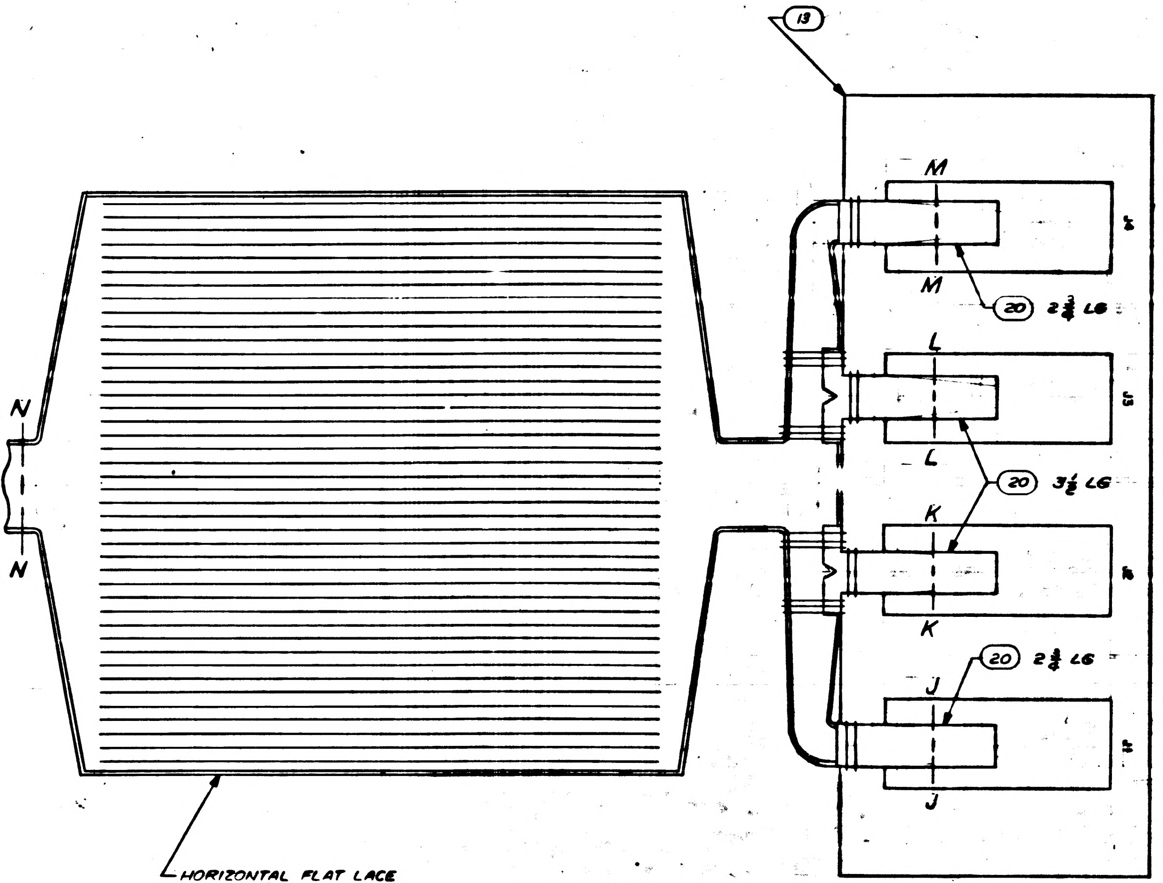
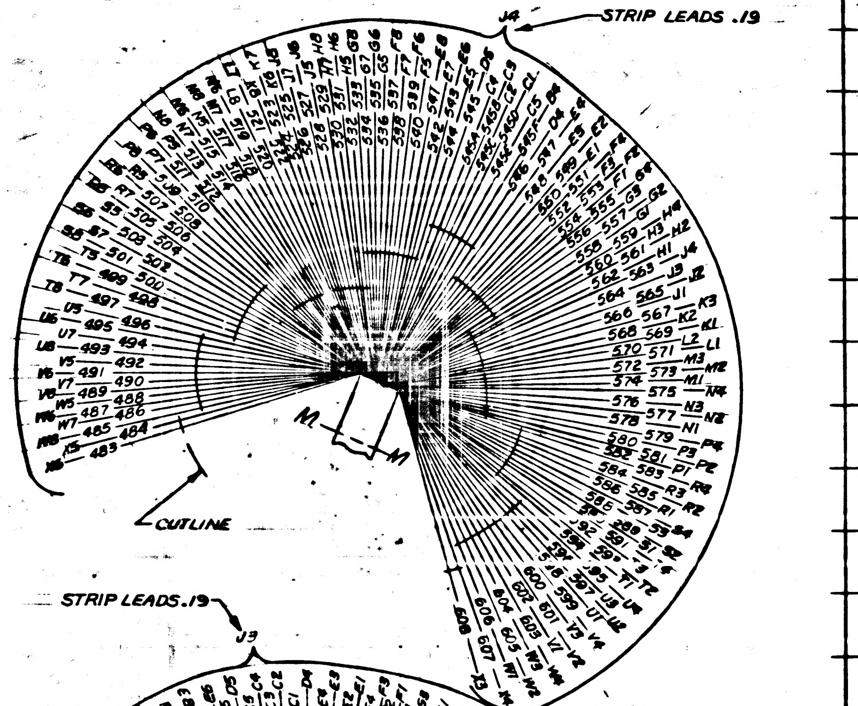
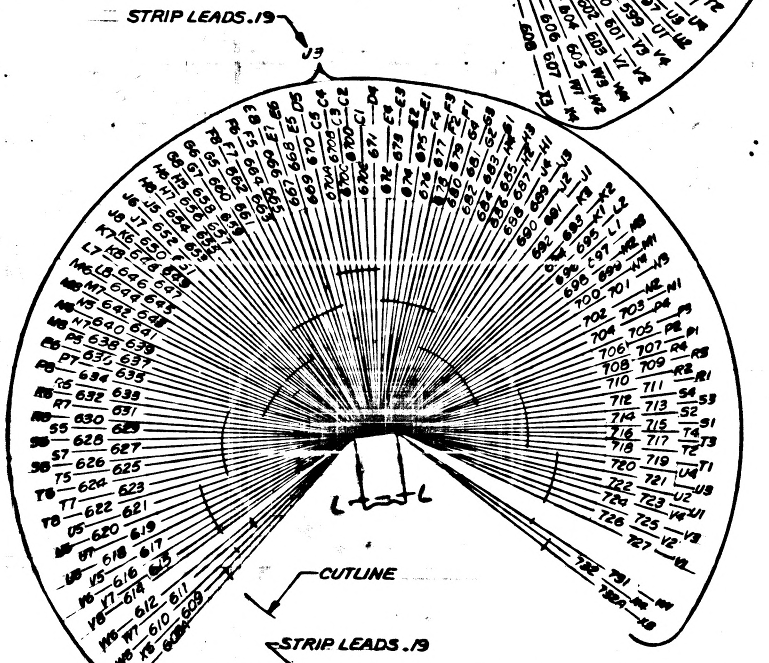
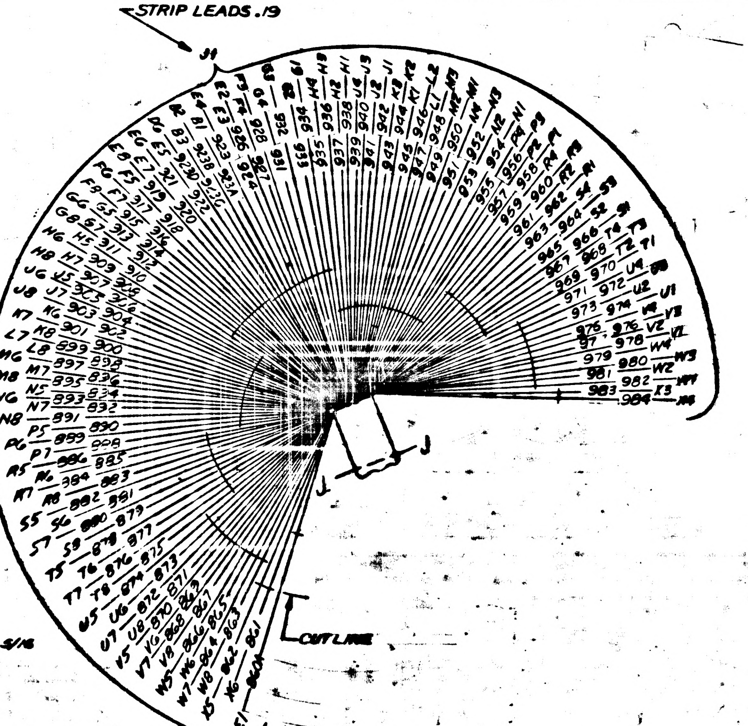
REVISIONS

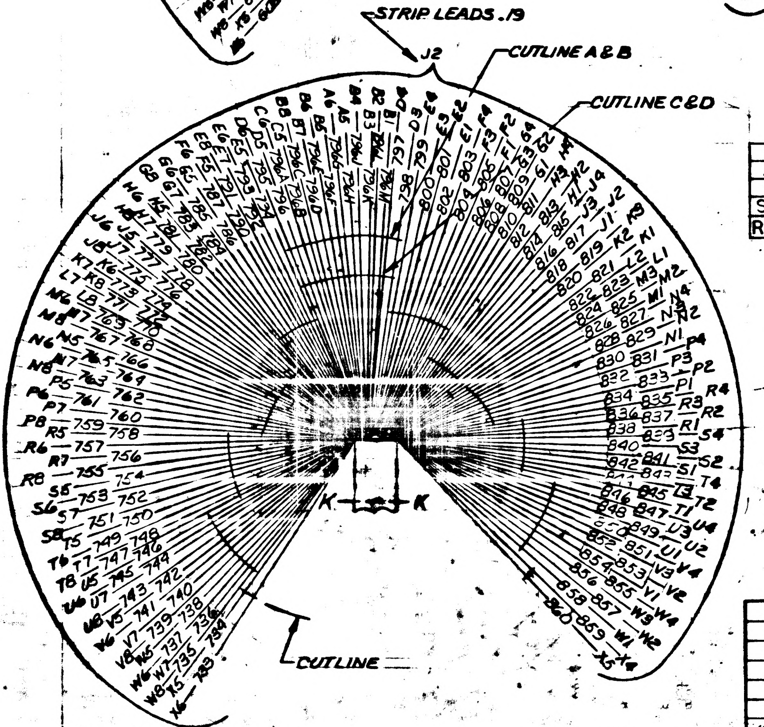
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 04139		
A	CLASS II CHANGE PER RD-R5668C DR H. Swendell CHK W. J. Gifford APPD	21 JAN 64	
B	CHANGED PER TDRR 06679 DR. W. Brown CHK. McJ&JN APPD.	9 MAR 64	XCB











FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04139 DATE

B	B	B	B	B
A	A	A	A	A
–	–	–	–	–
SH 1	SH 2	SH 3	SH 4	SH 5

REV STATUS OF SHEETS

NOTES

1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND1002032
2. FILL WITH FIND NO.12 PER ND 1002083
3. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
4. MARK PER ND1002019
5. MARK SER NO. PER ND 1002028
6. NUMBER PRECEDING BALLOON DENOTES QUANTITY
7. BOND FIND NO. 24 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
8. STRIP ALL LEADS .37 UNLESS OTHERWISE SPECIFIED
9. MIL-I-631 TYPE F, FORM U2 GRADE A CLASS I CATEGORY I, FOR FIND NO. 19 AWG I, FOR FIND NO. 20 AWG 3/4, FOR FIND NO. 21 AWG 1/2, FOR FIND NO. 18 AWG 5/16
10. INSTALL FIND NO. 22 OUTSIDE ROWS ON P3, P4, P7, P8
11. SOLDER PER MIL-S-6872

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
–	1014440	SCHEMATIC	REF
AR	1014341-2	WIRE, ELECTRICAL	27
AR	MIL-W-16878/4, TYPE E 20 ORN	WIRE, ELEC	26
AR	MIL-W-16878/4, TYPE E 20 RED	WIRE, ELEC	25
1	1014472-4	BANDMARKER, CABLE	24
AR	MIL-W-16878/4, TYPE E 22 BLK	WIRE, ELEC	23
80	1014310	INSULATOR, CONTACT	22
AR	SEE NOTE 9	SLEEVING	21
AR	SEE NOTE 9	SLEEVING	20
~~AR~~	~~SEE NOTE 9~~	~~SLEEVING~~	~~19~~
AR	SEE NOTE 9	SLEEVING	19
~~AR~~	~~SEE NOTE 9~~	~~SLEEVING~~	~~18~~
~~1~~	~~MS39056-4~~	~~BUSHING CABLE ADAPTER~~	~~17~~
~~1~~	~~MS39056-8~~	~~BUSHING CABLE ADAPTER~~	~~16~~
~~1~~	~~MS3128F-16-8P~~	~~CONNECTOR, RECEPTACLE~~	~~15~~
AR	MIL W 16878/4, TYPE E 22 WHT	WIRE, ELEC,	14
1	1014308	PLATE AND CONNECTOR	13
AR	1006683	COMPOUND, SILICONE RUBBER	12
8	1014461-1	BUSHING	11
160	1006987	INSUL. CONTACT ELECT, MALE CRIMP	10
240	1006995-1	CONTACT ELECTRICAL, MALE CRIMP	9
240	1010380	INSULATOR BUSHING FEMALE	8
240	1010379-1	CONTACT, ELECTRICAL FEMALE	7
16	1014032	RECEPTACLE, INDEXING	6
16	1006997	WASHER, PLAIN FLAT	5
16	MS35337-79	WASHER, LOCK	4
16	1006998-1	SCREW, CAPTIVE	3
8	1014000-4	FRAME, MODULE	2
8	1014021	PLATE, CONNECTOR	1

NEXT ASSY	USED ON
1014143	1014809

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 8-9-63
CHECKED R. Cozzens 25 Sep 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED PROGRAMMER AND MONITOR

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014461
SCALE 1/1
WT
SHEET 1 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014461

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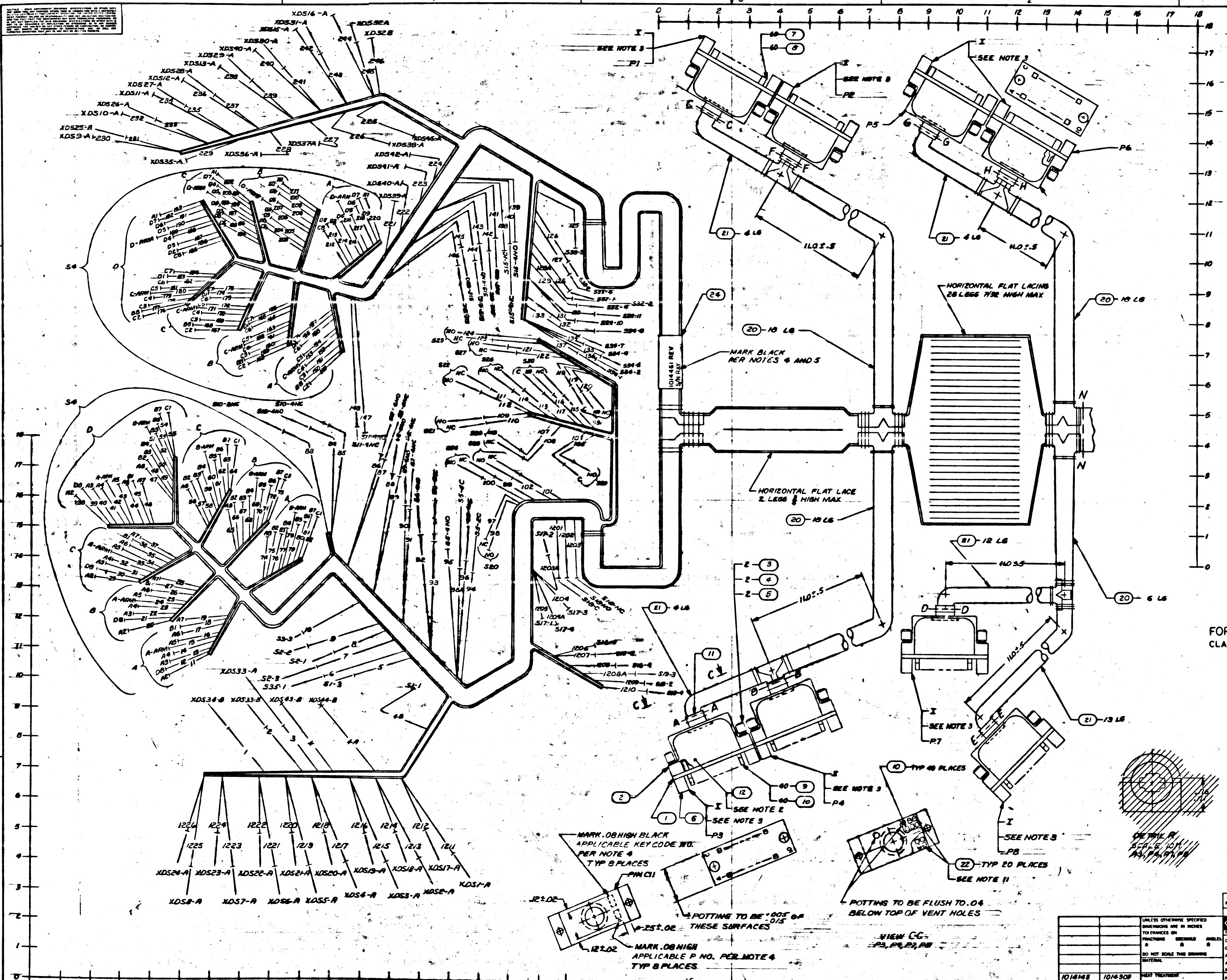
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04139		
A	CLASS II CHANGE PER RD-R5668C DR H. Lemondell CHK W.J. Gifford APPD. Kenley	21 JAN 64	
B	CHANGED PER TDRR 06679 DR. W. Brown CHK. KJW APPD. Kenley	9 MAR 64	



SEE NOTE 3
P1
P2
P3
P4
P5
P6
P7
P8
HORIZONTAL FLAT LACING 28 LEGS 7/32 HIGH MAX
HORIZONTAL FLAT LACE 2 LEGS 1/8 HIGH MAX
MARK BLACK PER NOTES 4 AND 5
1014461 REV S/N RAY
(20)—18 LG
(20)—19 LG
(20)—6 LG
(21)—4 LG
(21)—12 LG
(21)—13 LG
(24)
11.0 ±.5
SEE NOTE 2
SEE NOTE 11
(10)—TYP 40 PLACES
(22)—TYP 20 PLACES
MARK .08 HIGH BLACK APPLICABLE KEY CODE NO. PER NOTE 4 TYP 8 PLACES
PIN C11
.12 ±.02
.25 ±.02
MARK .08 HIGH APPLICABLE P NO. PER NOTE 4 TYP 8 PLACES
POTTING TO BE .005/.015 OF THESE SURFACES
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES
VIEW C-C P3, P5, P7, P8
DETAIL R SCALE 10/1 P3, P4, P7, P8
S4
XDS1-A
XDS2-A
XDS3-A
XDS4-A
XDS5-A
XDS6-A
XDS7-A
XDS8-A
XDS17-A
XDS18-A
XDS19-A
XDS20-A
XDS21-A
XDS22-A
XDS23-A
XDS24-A
XDS33-A
XDS34-B
XDS33-B
XDS43-B
XDS44-B

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 04139 DATE 11/24/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 8-9-63
CHECKED 21 Jun 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 11/21/63
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO. —— SIZE J NASA DRAWING NO 1014461
SCALE 1/1 WT SHEET 2 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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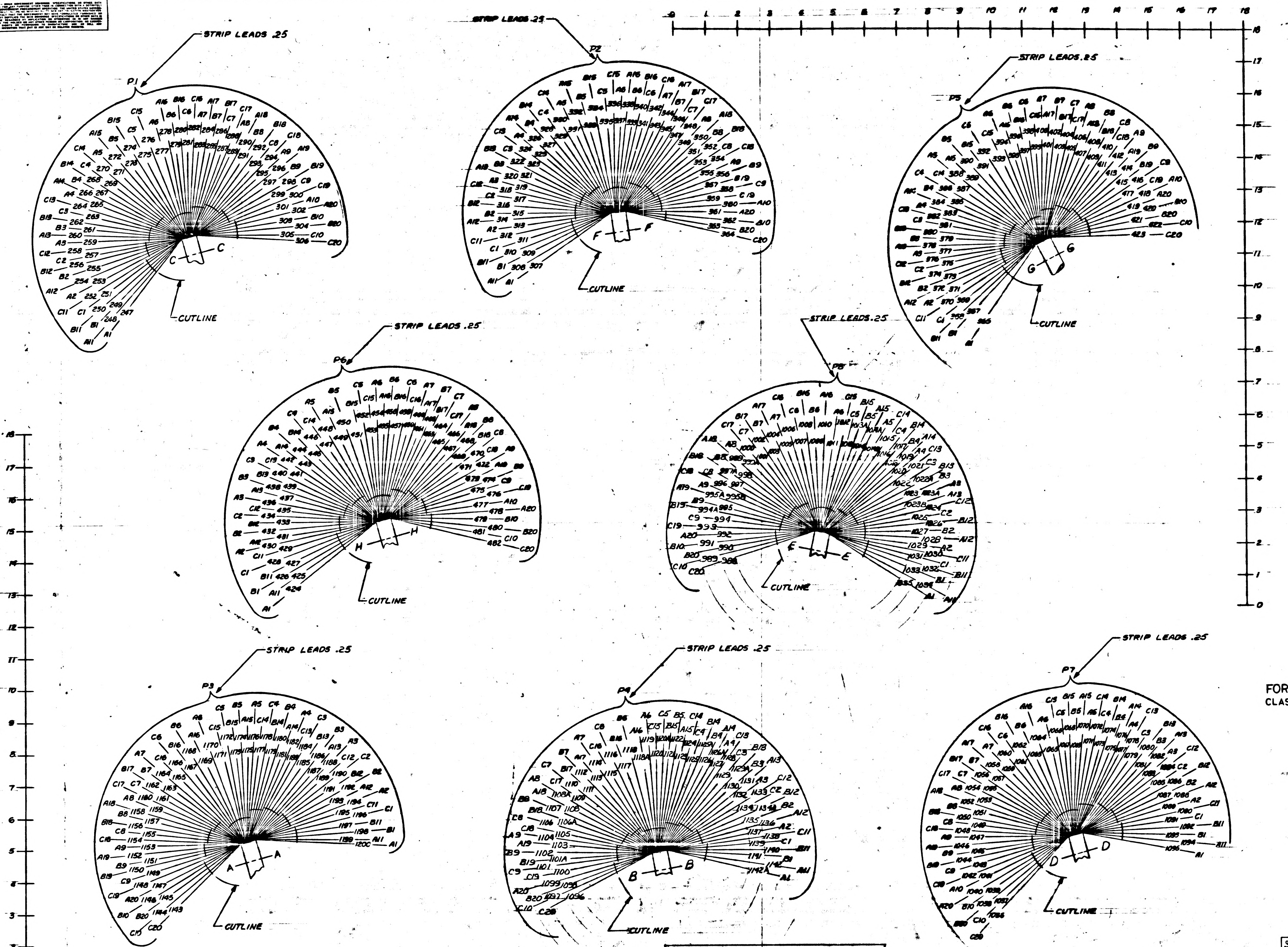
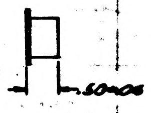
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 04179		
A	CLASS II CHANGE PER RD-R5668C DR H. Swindell CHK W. J. Gifford APPD	21 JAN 64	
B	CHANGED PER TDRR 05679 DR. W. Brown CHK. APPD.	9 JUNE 64	



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO.04179 DATE 10/1/63



BUSHING
1014461-1

NOTES
1. MAKE FROM MS35056-6 AS SHOWN

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE
CHECKED
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014461
SCALE 1/1
WT
SHEET 3 OF 5

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVE
-	CLASS B RELEASED PER TDRR 04139		
A	CLASS II CHANGE PER RD-R5668C DR [illegible] CHK W. J. Gifford	21 JAN 64	JJB
B	CHANGE PER TDRR 06679 DR. W. Dawson CHK. APPD.	9 MAR 64	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	306	BLK	22	23	919	
	920				304	
	302				921	
	922				364	
	1143				795	
	796				1145	
	1147				797	
	798				1096	
	1098				791	
	792				1099	
	671				423	
	421				670	
	672				478	
	480				673	
	674				482	
	419				675	
	1036				546	
	545				1038	
	1040				550	
	549				988	
	990				548	
	547				992	
	793				94	
	363				923	
	924	BLK	22	23	361	
	2	RED	20	25	927	
	928				138	
	358				916	
	814				373	
	368	RED	20	25	785	
	803	ORN	20	26	118	
	95A				790	
	248				917	
	918				308	
	1201				783	
	784	ORN	20	26	425	
	~~3~~	~~BLU~~			~~927A~~	
	6	WHT	22	14	923C	
	~~4~~	~~BLU~~			~~923~~	
	5	RED	20	25	923A	
	1108	WHT	22	14	1059	
	1050				1137	
	1129				432	
	434				317	
	325				403	
	376				258	
	275				991	
	989				344	
	330				416	
	428				1115	
	1114				995	
	1013				1112	
	1103				452	
	1118				1028	
	998				1104	
	1126				465	
	451				1134	
	1125				468	
	469				270	
	300				436	
	435				297	
	259				471	
	473				1105	
	1102				1066	
	1068				1132	
	1097				439	
	431				301	
	326				449	
	448				355	
	360				470	
	221				343	
	338				222	
	223				307	
	266				224	
	229				250	
	303				228	
	227				284	
	278				226	
	1211				342	
	333				1213	
	1215				339	
	334				1217	
	1219				340	
	331				1221	
	1223				337	
	332				1225	
	230				281	
	273				232	
	234				279	
	274				236	
	238				280	
	271				240	
	242				282	
	347	WHT	22	14	1212	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1214	WHT	22	14	311	
	348				1216	
	1218				312	
	345				1220	
	1222				309	
	346				1224	
	1226				310	
	285				231	
	233				249	
	288				235	
	237				251	
	287				239	
	241				252	
	286				243	
	245				247	
	350				189	
	180				318	
	277				51	
	42				315	
	283				198	
	171				316	
	295				60	
	33				319	
	289				207	
	162				255	
	69				290	
	256				24	
	216				299	
	153				253	
	305				78	
	15				254	
	1133				127	
	136				1106	
	1138				135	
	129				1131	
	353				1205	
	1204				357	
	328				85	
	1202				276	
	265				144	
	148				268	
	356				142	
	146				359	
	379				126	
	86				1152	
	1170				139	
	123				483	
	484				124	
	112				607	
	608				111	
	109				485	
	486				110	
	98				487	
	488				97	
	121				603	
	604				122	
	114				605	
	606				113	
	107				489	
	490				108	
	100				491	
	492				99	
	599				119	
	120				600	
	601				116	
	115				602	
	493				102	
	101				494	
	495				1203	
	105				496	
	595				104	
	183				596	
	597				55	
	45				598	
	497				193	
	174				498	
	499				64	
	36				500	
	591				202	
	165				592	
	593				73	
	27				594	
	501				211	
	156				502	
	503				82	
	18				504	
	587				220	
	186				588	
	589				176	
	48				590	
	505				38	
	195				506	
	507				167	
	57	WHT	22	14	508	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	583	WHT	22	14	29	
	204				584	
	585				158	
	66				586	
	509				20	
	213				510	
	511				149	
	75				512	
	579				11	
	187				580	
	581				178	
	49				582	
	513				40	
	196				514	
	515				169	
	58				516	
	575				31	
	205				576	
	577				160	
	67				578	
	517				22	
	214				518	
	519				151	
	76				572	
	573				13	
	188				574	
	520				179	
	50				521	
	570				41	
	197				571	
	522				170	
	59				523	
	524				32	
	206				567	
	568				161	
	68				569	
	525				23	
	215				526	
	527				152	
	77				528	
	563				14	
	190				564	
	565				181	
	52				566	
	529				43	
	199				530	
	531				172	
	61				532	
	559				34	
	208				560	
	561				163	
	70				562	
	533				25	
	217				534	
	535				154	
	79				536	
	555				16	
	191				556	
	557				182	
	53				558	
	537				44	
	200				538	
	539				173	
	62				540	
	551				35	
	209				552	
	553				164	
	71				554	
	541				26	
	218				542	
	543				155	
	80				544	
	545A				17	
	192				545B	
	545C				184	
	54				545D	
	545E				46	
	201				545F	
	608A				175	
	63				609	
	732				37	
	210				732A	
	610				166	
	72				611	
	612				28	
	~~219~~				~~613~~	
	~~728~~				~~157~~	
	~~81~~				~~729~~	
	~~730~~				~~73~~	
	39				731	
	614				185	
	177				615	
	616				47	
	30	WHT	22	14	617	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	724	WHT	22	14	194	
	153				725	
	726				56	
	21				727	
	618				203	
	159				619	
	620				65	
	12				621	
	720				212	
	150				721	
	722				74	
	90				723	
	622				91	
	92				623	
	624				93	
	143				625	
	716				141	
	88				717	
	718				89	
	87				719	
	626				140	
	83				627	
	628				145	
	95				629	
	712				96	
	84				713	
	714				147	
	1210				715	
	630				1209	
	1208				631	
	632				1207	
	1				633	
	708				3	
	10				709	
	710				7	
	8				711	
	634				132	
	130				635	
	636				137	
	134				637	
	704				133	
	131				705	
	706				1092	
	1078				707	
	638				463	
	1086				639	
	4	WHT	22	14	4A	
	4A	BLACK	22	23	923D	
	4B	WHT	22	14	923B	
	860A	ORN	20	26	1204A	
	926	ORN	20	26	246	
	9	WHT	22	14	1203A	
	117	~~WHT~~	~~22~~	~~14~~	1206	
	128	WHT	22	14	1208A	
	~~1201~~	~~ORN~~	~~20~~	~~26~~	~~368~~	
	125	ORN	20	26	118	
	128A	WHT	22	14	1125A	
	1129A	WHT	22	14	1022A	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04139 DATE 10/1/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN C. LaPort DATE 3 Jul 63
CHECKED 25 Sep 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO. ——— SIZE J NASA DRAWING NO. 1014461
SCALE NONE WT SHEET 4 OF E

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5668C DR H Swendell CHK W. J. Giffor (APPD)	21 JAN 64	
B	CHANGED PER TDRR 06679 DR W BROWN CHK J C J J W APPD		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	640	WHITE	22	14	999	
	1057				641	
	700				1054	
	1084				701	
	702				1055	
	1024				703	
	642				1021	
	996				643	
	644				1044	
	1094				697	
	698				365	
	462				699	
	645				1004	
	1089				646	
	695				1029	
	1034				696	
	647				1005	
	1002				648	
	649				1027	
	1032				692	
	693				1003	
	1000				694	
	650				1025	
	1030				651	
	652				1001	
	1058				653	
	688				1088	
	1035				689	
	690				993	
	458				691	
	654				1026	
	410				655	
	656				1052	
	429				657	
	684				464	
	685				1046	
	426				686	
	687				371	
	406				658	
	659				377	
	407				660	
	661				372	
	409				680	
	681				378	
	408				682	
	683				374	
	411				662	
	663				380	
	381				664	
	665				375	
	404				676	
	677				382	
	678				1012	
	1014				679	
	666				430	
	400				667	
	668				437	
	401				669	
	670A				399	
	467				670B	
	670C				402	
	424				670D	
	670E				367	
	861				1142	
	1136				862	
	983				1100	
	1107				984	
	863				260	
	327				864	
	865				362	
	298				866	
	979				321	
	351				980	
	981				322	
	352				982	
	867				319	
	349				868	
	869				320	
	294				870	
	975				264	
	1126A				796A	
	1120A				796B	
	1118A				796C	
	1108A				796D	
	1106A	WHITE	22	14	796E	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	293	WHITE	22	14	976	
	977				263	
	291				978	
	871				261	
	292				872	
	873				262	
	1135				874	
	971				1130	
	972				323	
	324				973	
	974				329	
	335				875	
	876				336	
	1127				877	
	878				1124	
	1128				967	
	968				296	
	354				969	
	970				341	
	879				1117	
	1111				880	
	881				1119	
	1116				882	
	963				1122	
	1141				964	
	965				1123	
	1113				966	
	883				1121	
	1101				884	
	885				1139	
	1110				886	
	959				1109	
	1120				960	
	961				1140	
	962				269	
	267				888	
	889				314	
	890				1196	
	1190				955	
	956				1184	
	1178				957	
	958				1172	
	1166				891	
	892				1161	
	1155				893	
	894				1144	
	1195				951	
	952				1189	
	1183				953	
	954				1177	
	1171				895	
	896				1165	
	1154				897	
	948				1148	
	1198				949	
	950				1192	
	1186				898	
	899				1180	
	1168				946	
	947				1157	
	1151				900	
	901				1146	
	1197				902	
	943				1179	
	1173				944	
	945				1167	
	1162				903	
	904				1156	
	1193				905	
	906				1181	
	1175				939	
	940				1149	
	1160				941	
	942				1159	
	1153				907	
	908				1169	
	1174				909	
	910				1163	
	1185				935	
	936				1150	
	1134A				787	
	1101A				796F	
	1023B				796G	
	1014A				796H	
	1013A	WHITE	22	14	796J	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1194	WHITE	22	14	937	
	938				1182	
	1187				911	
	912				1158	
	1191				913	
	914				1200	
	1188				931	
	932				1176	
	1164				933	
	934				1199	
	257				915	
	806				422	
	369				786	
	807				433	
	427				808	
	809				1093	
	1091				810	
	804				1056	
	1023				805	
	733				479	
	734				1085	
	1079				859	
	860				1067	
	1049				735	
	736				1043	
	1037				737	
	738				397	
	855				1090	
	1019				856	
	857				1020	
	1010				858	
	739				1011	
	1017				740	
	741				1018	
	1008				742	
	851				1007	
	1033				852	
	853				1015	
	1016				854	
	743				1006	
	1065				744	
	745				1077	
	1053				746	
	847				1064	
	1062				848	
	849				1074	
	1075				850	
	747				1063	
	1060				748	
	749				1073	
	1072				750	
	843				1061	
	1048				844	
	895				1076	
	1042				846	
	751				1081	
	1045				752	
	753				1051	
	1069				754	
	839				1009	
	1095				840	
	841				1083	
	1071				842	
	755				1031	
	1022				756	
	757				997	
	1047				758	
	835				1041	
	1082				836	
	837				1070	
	994				838	
	759				446	
	459				760	
	761				457	
	447				762	
	831				444	
	456				832	
	833				454	
	445				834	
	763	WHITE	22	14	442	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	455	WHITE	22	14	764	
	765				440	
	443				766	
	827				481	
	475				828	
	829				441	
	453				830	
	767				476	
	458				768	
	769				450	
	385				824	
	825				398	
	396				826	
	770				395	
	383				771	
	822				384	
	394				823	
	772				474	
	370				773	
	774				405	
	392				819	
	820				417	
	414				821	
	775				420	
	393				776	
	777				415	
	412				778	
	815				418	
	390				816	
	818				466	
	472				779	
	780				389	
	386				781	
	782				387	
	477				811	
	812				391	
	388				813	
	794				460	
	461				799	
	800				1087	
	1039				801	
	802				1080	
	244				272	
	413				817	
	225				1142A	
	995B				19	
	999A				81	
	1014B				157	
	1023A				219	
	997A				796K	
	995A				796L	
	994A	WHITE	22	14	796M	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04194 DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN J Spinney DATE 8-3-63
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014461
SCALE NONE WT SHEET 5 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014461

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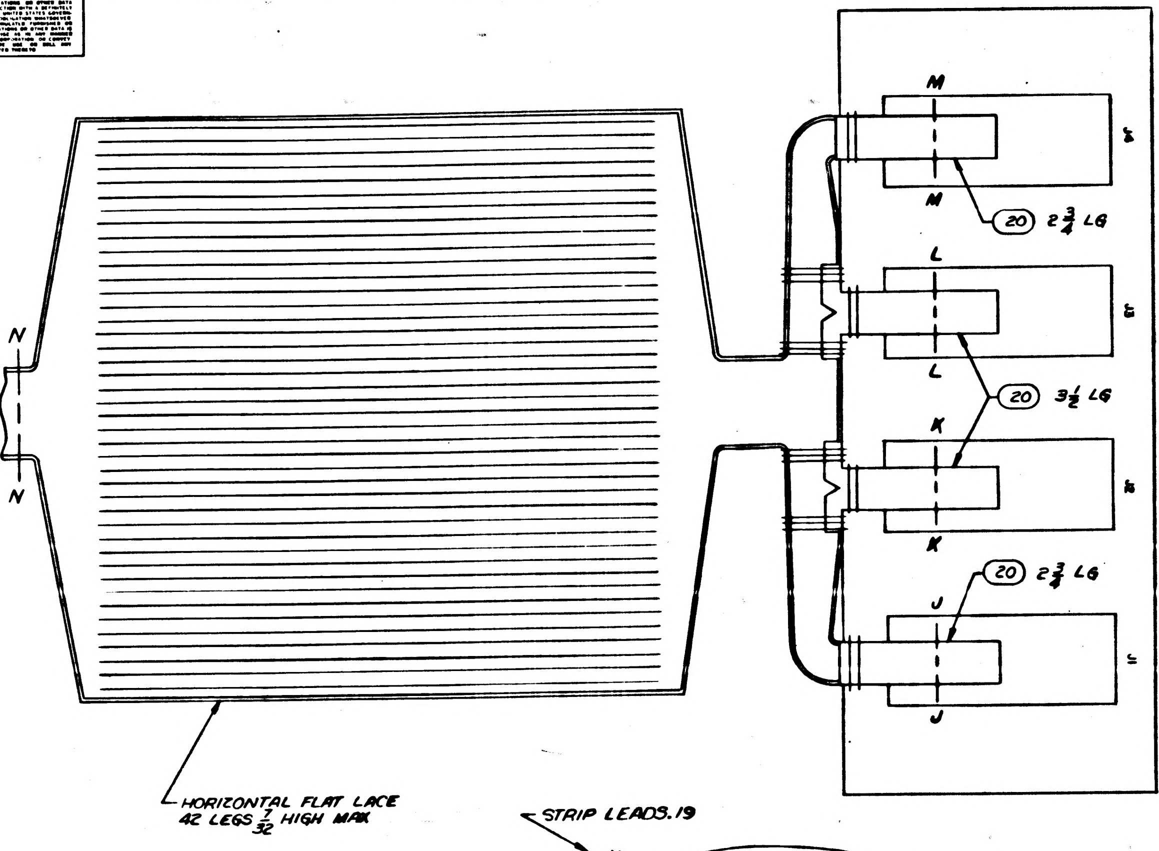
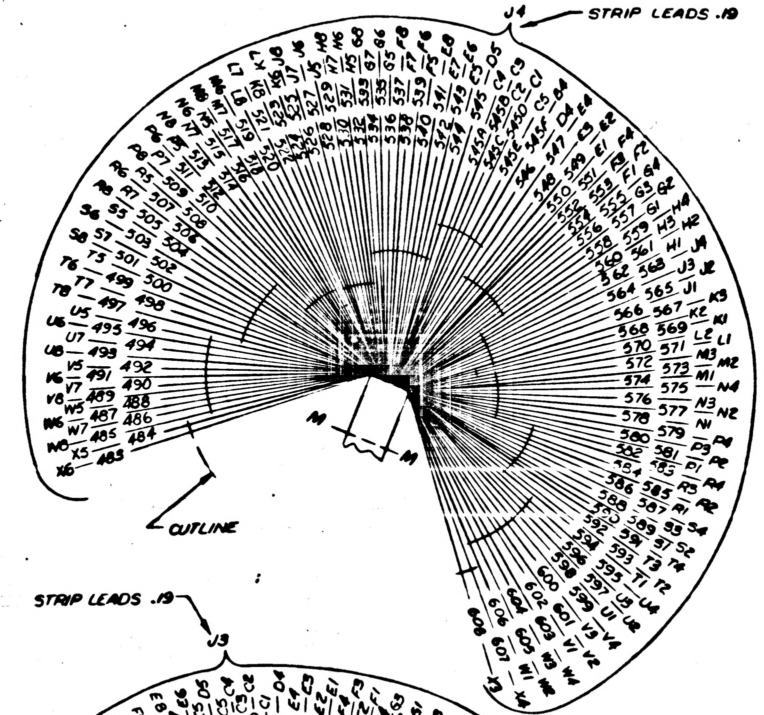
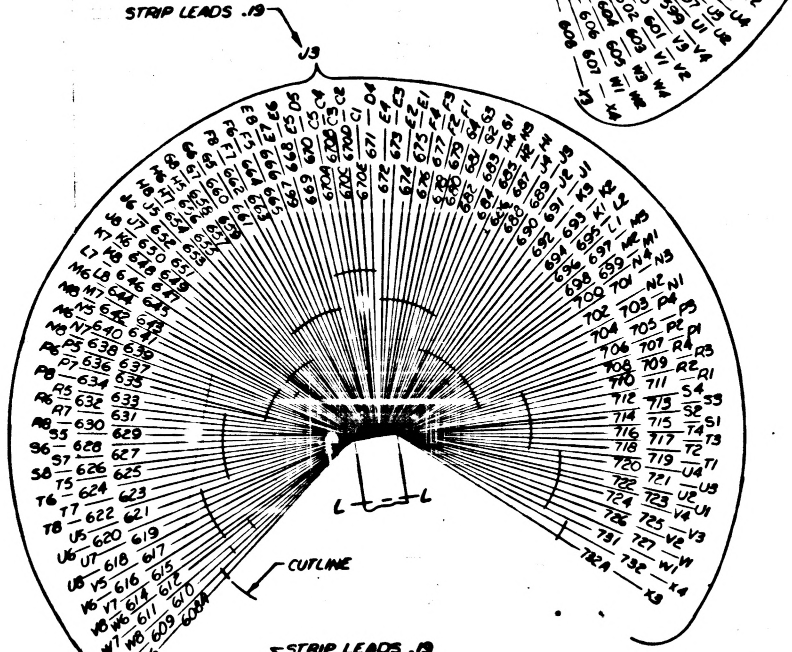
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
D	REPLACES REV C WITH CHANGE PER TORR 10606		

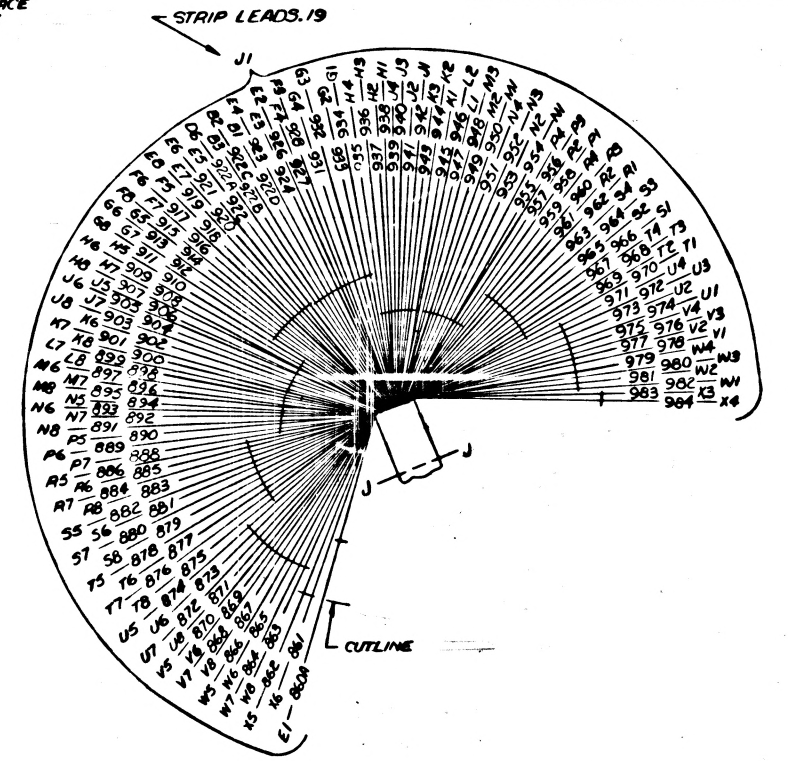


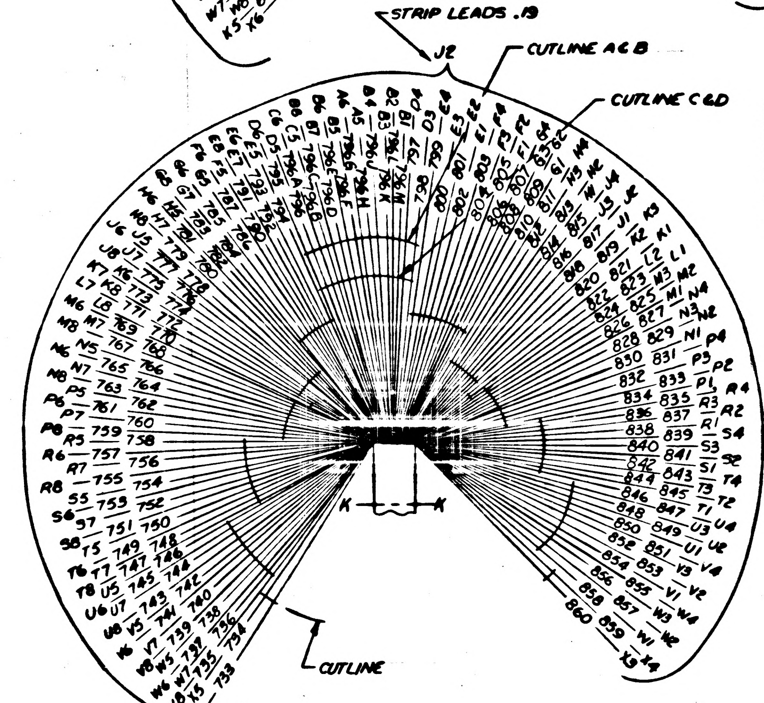


Ⓓ REPLACES REV. C WITH CHANGE.

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04139
DATE, 24 OCT. 63







NOTES
1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND 1002032
2. FILL WITH FIND NO. 12 PER ND 1002009 METHOD E
3. LOCATE KEY IN POSITION PER KEY CODING USING DWG. NO. 1014047
4. MARK PER ND 1002019
5. MARK SER NO. PER ND 1002023
6. NUMBER PRECEDING BALLOON DENOTES QUANTITY
7. BOND USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
8. STRIP ALL LEADS .37 UNLESS OTHERWISE SPECIFIED
9. MIL-I-631 TYPE F, FORM U2 GRADE A CLASS I CATEGORY I, FOR FIND NO. 19 AWG 1, FOR FIND NO. 20 AWG 3/4, FOR FIND NO. 21 AWG 1/2 FOR FIND NO. 18 AWG 5/16
10. INSTALL FIND NO. 22 OUTSIDE ROWS ON P3, P4, P7 & P8
11. SOLDER PER MIL-S-6872

D	D	B	D	B
C	B	B	B	B
B	B	B	B	B
A	A	A	A	A
—	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5
REV STATUS OF SHEETS				

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
—	1014440	SCHEMATIC	REF
AR	1014341-2	WIRE ELECTRICAL	27
AR	MIL-W-16878/4 TYPE E20 ORN	WIRE ELEC	26
AR	MIL-W-16878/4 TYPE E20 RED	WIRE ELEC	25
1	1014472-4	BAND MARKER, CABLE	24
AR	MIL-W-16878/4, TYPE E22 BLK	WIRE ELECTRICAL	23
80	1014310	INSULATOR, CONTACT	22
AR	SEE NOTE 9	SLEEVING	21
AR	SEE NOTE 9	SLEEVING	20
			~~19~~
			~~18~~
			~~17~~
			~~16~~
			~~15~~
AR	MIL-W-16878/4, TYPE E22 WHT	WIRE, ELEC.	14
1	1014308	PLATE AND CONNECTOR	13
AR	1006683	COMPOUND, SILICONE RUBBER	12
8	1014461-1	BUSHING	11
160	1006987	INSUL. CONTACT ELECT, MALE CRIMP	10
240	1006995-1	CONTACT ELECTRICAL, MALE CRIMP	9
240	1010380	INSULATOR, BUSHING FEMALE	8
240	1010379-1	CONTACT, ELECTRICAL FEMALE	7
16	1014032	RECEPTACLE, INDEXING	6
16	1006997	WASHER PLAIN FLAT	5
16	MS35337-79	WASHER, LOCK	4
16	1006998-1	SCREW, CAPTIVE	3
8	1014000-4	FRAME, MODULE	2
8	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014143	1014309

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 23 June
CHECKED 25 June
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014461
SCALE 1/1
WT
SHEET 1 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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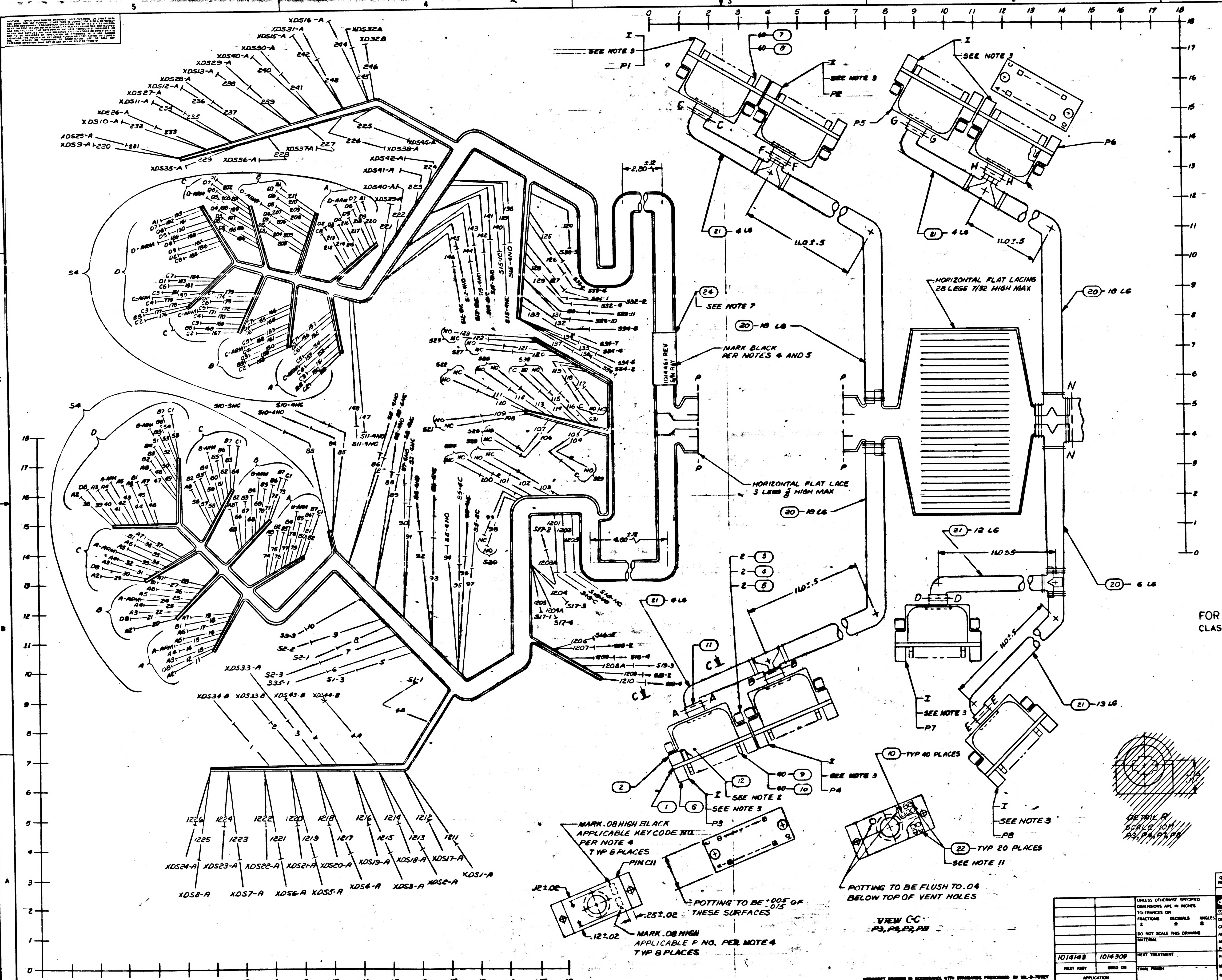
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5668C DR H. Swindell CHK W. J. Gifford APPD.	21 JAN 64	
B	CHANGED PER TDRR 06679 DR. W. Brown CHK. APPD.	9 MAR 64	KCB
D	CHANGED PER TDRR 10605 DR F. CHK APPD	29 July 64	KCB



XDS16-A
XDS31-A
XDS15-A
XDS30-A
XDS40-A
XDS29-A
XDS13-A
XDS28-A
XDS12-A
XDS27-A
XDS11-A
XDS26-A
XDS10-A
XDS25-A
XDS9-A
XDS35-A
XDS36-A
XDS37A
XDS32A
XDS32B
XDS38-A
XDS45-A
XDS42-A
XDS41-A
XDS40-A
XDS39-A
S4
D-ARM
C-ARM
B-ARM
A-ARM
S10-3NC
S10-4NO
S11-4NO
S11-4NC
S2-2
S2-1
S2-3
S3-3
S35-1
S1-3
SL-1
XDS33-A
XDS34-B
XDS33-B
XDS43-B
XDS44-B
XDS24-A
XDS23-A
XDS22-A
XDS21-A
XDS20-A
XDS19-A
XDS18-A
XDS17-A
XDS1-A
XDS8-A
XDS7-A
XDS6-A
XDS5-A
XDS4-A
XDS3-A
XDS2-A
S20
S21
S22
S23
S27
S28
S29
S30
S31
S32-2
S33-11
S34-7
S34-4
S34-6
S34-2
S17-2
S17-1
S17-3
S17-4
S16-2
S13-3
2.00 ±.12
4.00 ±.12
24
SEE NOTE 7
MARK BLACK PER NOTES 4 AND 5
1014461 REV S/N RAY
P
HORIZONTAL FLAT LACE 3 LEGS 5/8 HIGH MAX
20 - 18 LG
21 - 4 LG
11.0 ±.5
I
SEE NOTE 3
P1
P2
P5
P6
60 - 7
60 - 8
G
C
F
H
HORIZONTAL FLAT LACING 28 LEGS 7/32 HIGH MAX
20 - 18 LG
20 - 6 LG
21 - 12 LG
11.0 ±.5
N
D
P7
E
21 - 13 LG
P8
2 - 3
2 - 4
2 - 5
11
C
A
B
2
1
6
12
SEE NOTE 2
P3
40 - 9
60 - 10
P4
10 - TYP 40 PLACES
22 - TYP 20 PLACES
SEE NOTE 11
MARK .08 HIGH BLACK APPLICABLE KEY CODE NO PER NOTE 4 TYP 8 PLACES
PIN C11
.12±.02
.25±.02
.12±.02
MARK .08 HIGH APPLICABLE P NO. PER NOTE 4 TYP 8 PLACES
POTTING TO BE +.005 -.015 OF THESE SURFACES
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES
VIEW C-C P3, P4, P7, P8
DETAIL A SCALE 10/1 P3, P4, P7, P8
.16

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO DATE

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION

LIST OF MATERIALS

1014148	1014309
NEXT ASSY	USED ON
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FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
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FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 8-9-63
CHECKED 23 Jul 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 10/24/63
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014461
SCALE 1/1
WT
SHEET 2 OF 5

1014461

1014461

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5668C DR [illegible] CHK W. J. Gifford	21 JAN 64	[illegible]
B	CHANGE PER TDRR 06679 DR. W. Baron CHK. JHW APPD.	9 MAR 64	[illegible]
D	CHANGED PER TDRR 10605 DR [illegible] CHK JCJ APPD	[illegible] 64	[illegible]

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	306	BLK	22	23	919	
	920				304	
	302				921	
	922				364	
	1143				795	
	796				1145	
	1147				797	
	798				1096	
	1098				791	
	792				1099	
	671				423	
	421				670	
	672				478	
	480				673	
	674				482	
	419				675	
	1036				546	
	545				1038	
	1040				550	
	549				988	
	990				548	
	547				992	
	793				97	
	363				923	
	921	BLK	22	23	361	
	2	RED	20	25	927	
	928				140	
	358				916	
	814				373	
	368	RED	20	25	785	
	803	ORN	20	26	119	
	95				790	
	248				917	
	918				308	
	1201				783	
	784	ORN	20	26	425	
	~~3~~	~~BLU~~			~~922A~~	
	6	WHT	22	14	922B	
	~~4~~	~~BLU~~			~~922C~~	
	5	RED	20	25	922D	
	1108	WHT	22	14	1059	
	1050				1137	
	1129				432	
	434				317	
	325				403	
	376				258	
	275				991	
	989				344	
	330				416	
	428				1115	
	1114				995	
	1013				1112	
	1103				452	
	1118				1028	
	998				1104	
	1126				465	
	451				1134	
	1125				468	
	469				270	
	300				436	
	435				297	
	259				471	
	473				1105	
	1102				1066	
	1068				1132	
	1097				439	
	431				301	
	326				449	
	448				355	
	360				470	
	221				343	
	338				222	
	223				307	
	266				224	
	229				250	
	303				228	
	227				284	
	278				226	
	1211				342	
	333				1213	
	1215				339	
	334				1217	
	1219				340	
	331				1221	
	1223				337	
	332				1225	
	230				281	
	273				232	
	234				279	
	274				236	
	238				280	
	271				240	
	242				282	
	347	WHT	22	14	1212	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1214	WHT	22	14	311	
	348				1216	
	1218				312	
	345				1220	
	1222				309	
	346				1224	
	1226				310	
	285				231	
	233				249	
	288				235	
	237				251	
	287				239	
	241				252	
	286				243	
	245				247	
	350				189	
	180				318	
	277				51	
	42				315	
	283				198	
	171				316	
	295				60	
	33				313	
	289				207	
	162				255	
	69				290	
	256				24	
	216				299	
	153				253	
	305				78	
	15				254	
	1133				126	
	136				1106	
	1138				135	
	129				1131	
	353				1205	
	1204				357	
	328				85	
	1202				276	
	265				144	
	148				268	
	356				142	
	146				359	
	379				125	
	86				1152	
	1170				138	
	122				483	
	484				123	
	110				607	
	608				111	
	109				485	
	486				108	
	98				487	
	488				99	
	121				603	
	604				120	
	112				605	
	606				113	
	107				489	
	490				106	
	100				491	
	492				101	
	599				118	
	117				600	
	601				115	
	116				602	
	493				102	
	103				494	
	495				1203	
	104				496	
	595				105	
	183				596	
	597				55	
	45				598	
	497				193	
	174				498	
	499				64	
	36				500	
	591				202	
	165				592	
	593				73	
	27				594	
	501				211	
	156				502	
	503				82	
	18				504	
	587				220	
	186				588	
	589				176	
	48				590	
	505				38	
	195				506	
	507				167	
	57	WHT	22	14	508	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	583	WHT	22	14	29	
	204				584	
	585				158	
	66				586	
	509				20	
	213				510	
	511				149	
	75				512	
	579				11	
	187				580	
	581				178	
	49				582	
	513				40	
	196				514	
	515				169	
	58				516	
	575				31	
	205				576	
	577				160	
	67				578	
	517				22	
	214				518	
	519				151	
	76				572	
	573				13	
	188				574	
	520				179	
	50				521	
	570				41	
	197				571	
	522				170	
	59				523	
	524				32	
	206				567	
	568				161	
	68				569	
	525				23	
	215				526	
	527				152	
	77				528	
	563				14	
	190				564	
	565				181	
	52				566	
	529				43	
	199				530	
	531				172	
	61				532	
	559				34	
	208				560	
	561				163	
	70				562	
	533				25	
	217				534	
	535				154	
	79				536	
	555				16	
	191				556	
	557				182	
	53				558	
	537				44	
	200				538	
	539				173	
	62				540	
	551				35	
	209				552	
	553				164	
	71				554	
	541				26	
	218				542	
	543				155	
	80				544	
	545A				17	
	192				545B	
	545C				184	
	54				545D	
	545E				46	
	201				545F	
	608A				175	
	63				609	
	732				37	
	210				732A	
	610				166	
	72				611	
	612				28	
	~~219~~				~~613~~	
	~~728~~				~~757~~	
	~~81~~				~~729~~	
	~~730~~				~~19~~	
	39				731	
	614				185	
	177				615	
	616				47	
	30	WHT	22	14	617	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	724	WHT	22	14	194	
	168				725	
	726				56	
	21				727	
	618				203	
	159				619	
	620				65	
	12				621	
	720				212	
	150				721	
	722				74	
	90				723	
	622				91	
	92				623	
	624				93	
	143				625	
	716				141	
	88				717	
	718				89	
	87				719	
	626				139	
	83				627	
	628				145	
	94				629	
	712				96	
	84				713	
	714				147	
	1210				715	
	630				1209	
	1208				631	
	632				1207	
	1				633	
	708				3	
	10				709	
	710				7	
	8				711	
	634				132	
	130				635	
	636				137	
	134				637	
	704				133	
	131				705	
	706				1092	
	1078				707	
	638				463	
	1086				639	
	4	WHT	22	14	4A	
	4A	BLACK	22	23	922A	
	4B	WHT	22	14	922C	
	860A	ORN	20	26	1204A	
	~~926~~	~~ORN~~	~~20~~	~~26~~	~~246~~	
	9	WHT	22	14	1203A	
	~~114~~	~~WHT~~	~~22~~	~~14~~	~~1206~~	
	127	WHT	22	14	1208A	
	~~1201~~	~~ORN~~	~~20~~	~~26~~	~~368~~	
	124	ORN	20	26	118	
	128	WHT	22	14	1125A	
	1129A	WHT	22	14	1022A	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04139 DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
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TOLERANCES ON
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DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN C. Labort DATE 3 Jun 63
CHECKED 25 Sep 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014461
SCALE NONE
WT
SHEET 4 OF

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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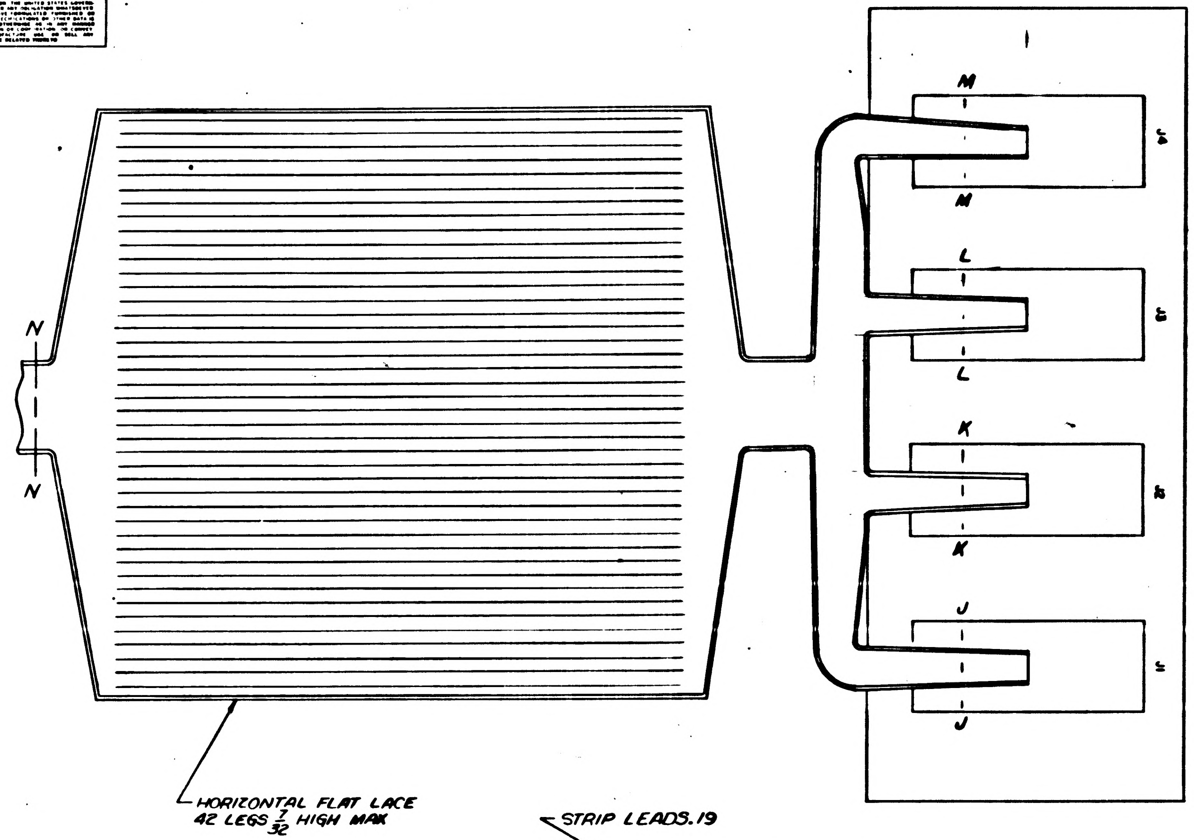
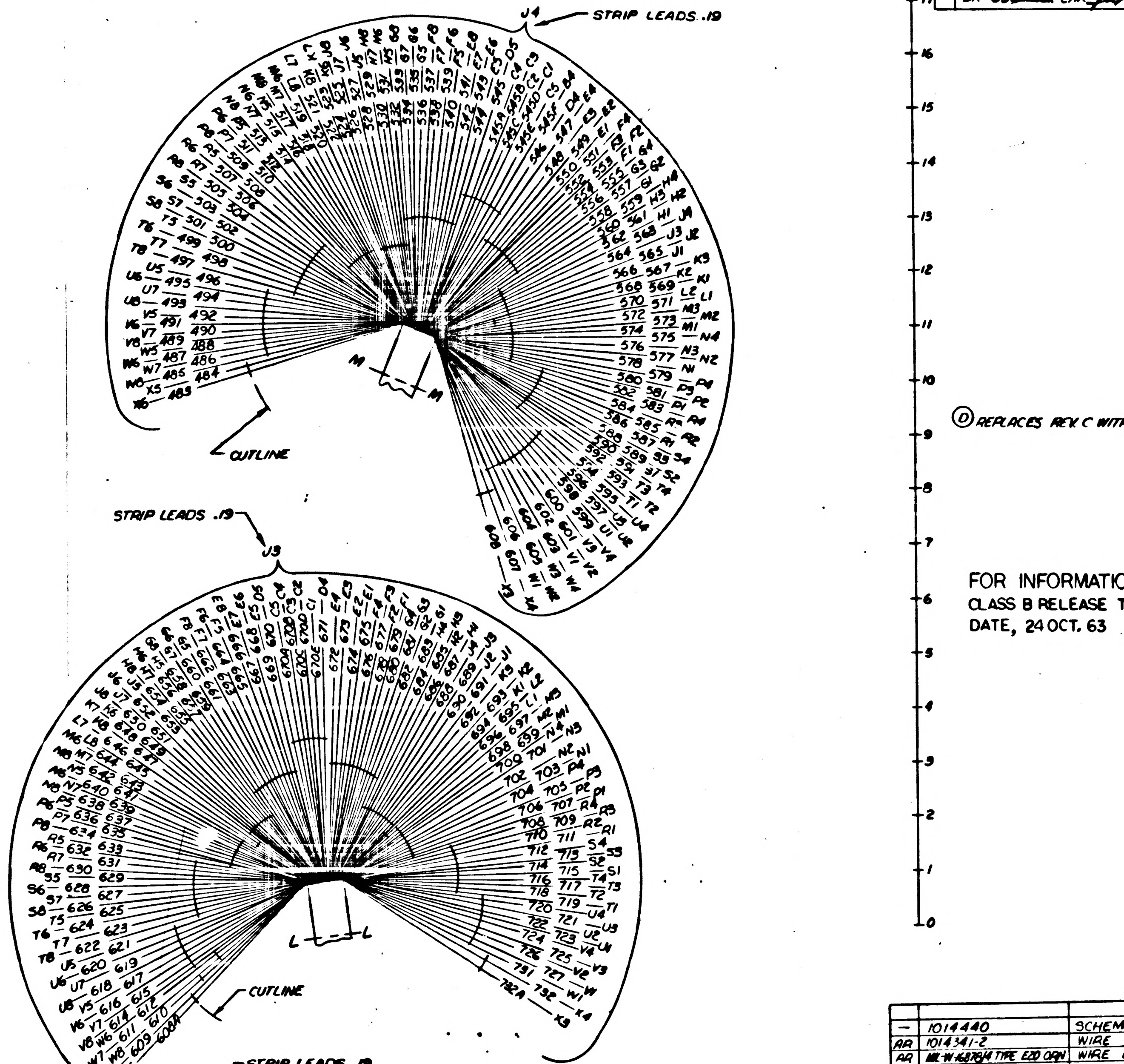
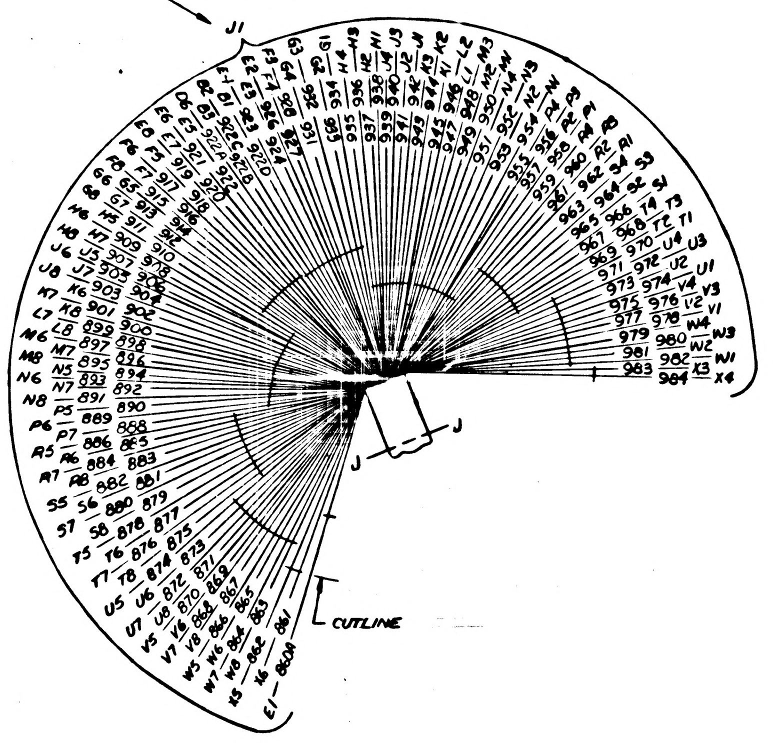
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
D	REPLACES REV C WITH CHANGE PER TDRR 10605	6-30-64	
E	CHANGED PER TDRR 12829 DR BG CHK APPD	6 OCT 64	

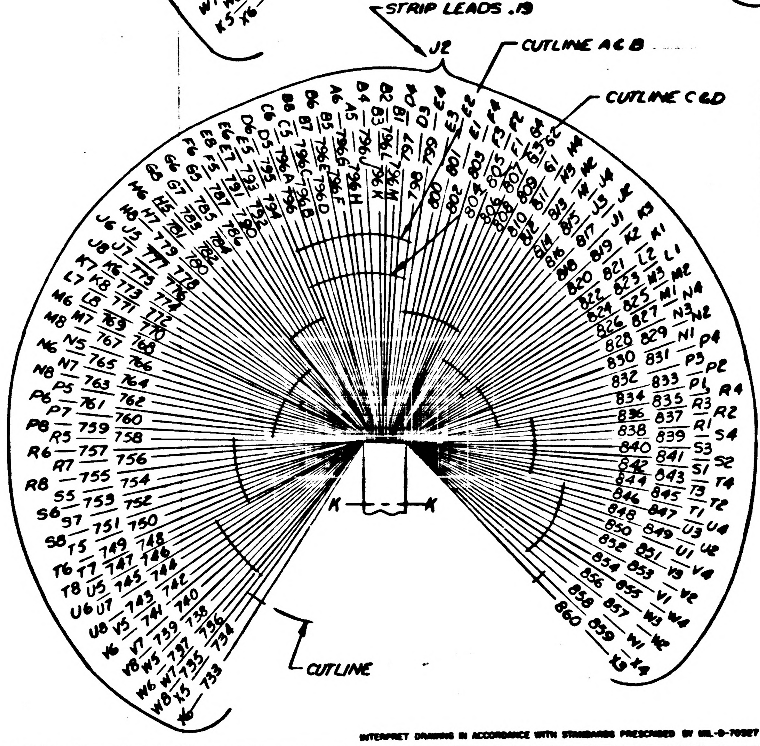




Ⓓ REPLACES REV C WITH CHANGE.

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO.04139
DATE, 24 OCT. 63





E	E	B	E	B
D	D	B	D	B
C	B	B	B	B
B	B	B	B	B
A	A	A	A	A
—	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5

REV STATUS OF SHEETS

NOTES
1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND 1002032
2. FILL WITH FIND NO.12 PER ND 1002009 METHOD E
3. LOCATE KEY IN POSITION PER KEY CODING USING DWG. NO. 1014047
4. MARK PER ND 1002019
5. MARK SER NO. PER ND 1002023
6. NUMBER PRECEDING BALLOON DENOTES QUANTITY
7. BOND USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
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APPLICATION

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LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN
CHECKED 25 JUNE 64
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL Charles Sorley

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	J	1014461

SCALE 1/1 WT SHEET 1 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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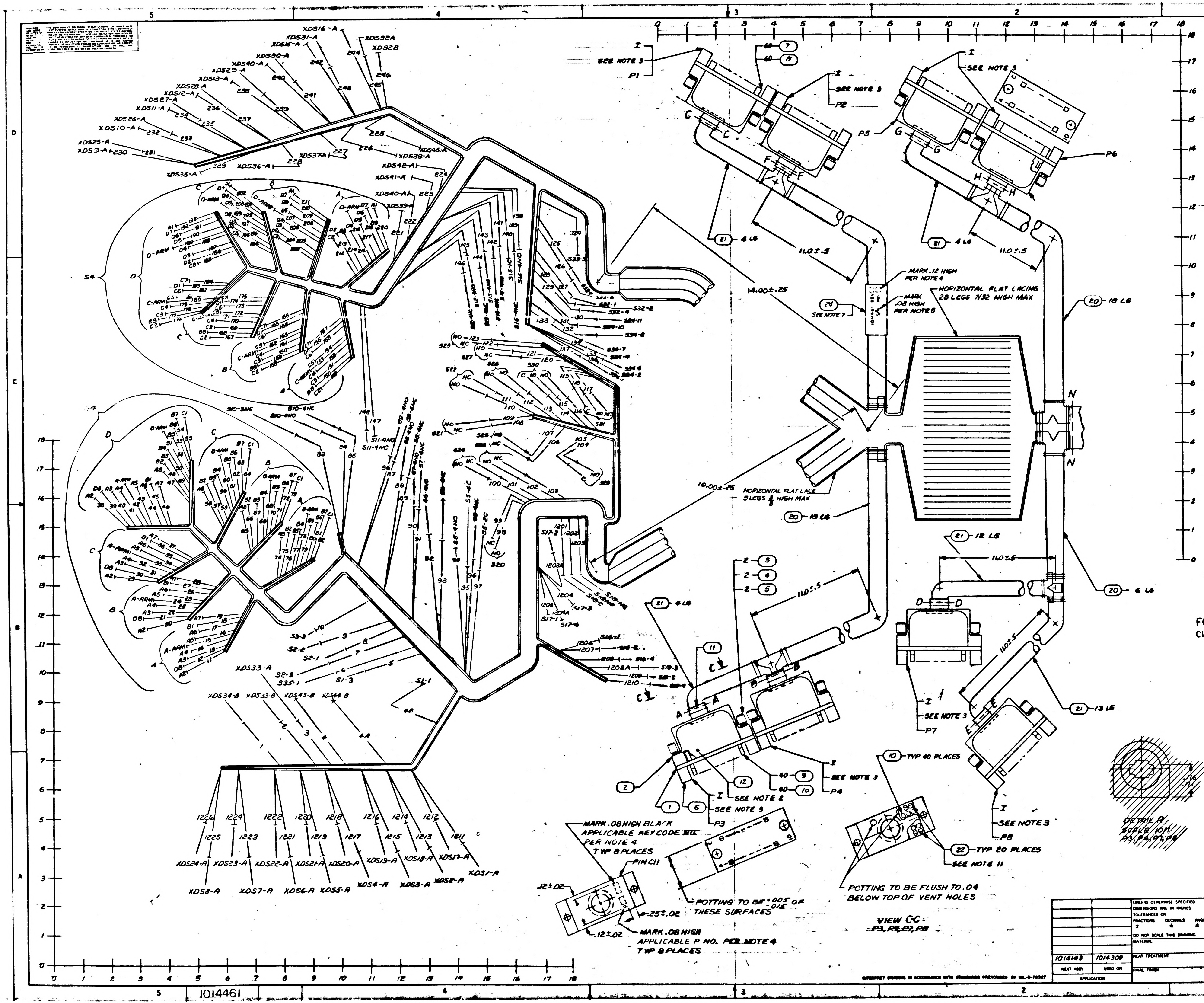
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04139		
A	CLASS II CHANGE PER RD-R5668C DR H. Swendell CHK W. J. Gifford APPD J. Kinley	21 JAN 64	
B	CHANGED PER TDRR 06679 DR. W. Brown CHK. APPD. J. Kinley	9 MAR 64	XCB
D	CHANGED PER TDRR 10605 DR F. Mahon CHK APPD J. Kinley	29 JUL 64	KCB
E	CHANGED PER TDRR 12829 DR J. McDonnell CHK APPD A. J. Marinaro	6 OCT 64	



SEE NOTE 3
P1
P2
P5
P6
P3
P4
P7
P8
SEE NOTE 2
SEE NOTE 11
(21) 4 LG
11.0 ± .5
14.00 ± .25
10.00 ± .25
MARK .12 HIGH PER NOTE 4
MARK .08 HIGH PER NOTE 5
(24) SEE NOTE 7
HORIZONTAL FLAT LACING 28 LEGS 7/32 HIGH MAX
HORIZONTAL FLAT LACE 3 LEGS 3/8 HIGH MAX
(20) 18 LG
(20) 18 LG
(20) 6 LG
(21) 12 LG
(21) 13 LG
(10) TYP 40 PLACES
(22) TYP 20 PLACES
40 (7)
60 (8)
40 (9)
60 (10)
2 (3)
2 (4)
2 (5)
S4
S5
A-ARM
B-ARM
C-ARM
D-ARM
XDS16-A
XDS32A
XDS32B
XDS33-A
XDS1-A
XDS8-A
XDS7-A
XDS6-A
XDS5-A
XDS4-A
XDS3-A
XDS2-A
MARK .08 HIGH BLACK APPLICABLE KEY CODE NO. PER NOTE 4 TYP 8 PLACES
PIN C11
.12 ± .02
.25 ± .02
MARK .08 HIGH APPLICABLE P NO. PER NOTE 4 TYP 8 PLACES
POTTING TO BE +.005 -.015 OF THESE SURFACES
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES
VIEW C-C P3, P4, P7, P8
DETAIL A SCALE 10/1 P3, P4, P7, P8

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 04139 DATE 11-14-63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014148	1014309

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 8-9-63
CHECKED A. Cynny 24 Jul 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014461
SCALE 1/1
WT
SHEET 2 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014461

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR 04139		
A	CLASS II CHANGE PER RD-R5668C DR H. Swandell CHK W. J. Gifford	21 JAN 64	JJO
B	CHANGE PER TDRR 06679 DR. W. Dean CHK. J.H.W. APPD.	9 MAR 64	
D	CHANGED PER TDRR 10605 DR F. Nelson CHK J.C.J. APPD	64	KCB
E	CHANGED PER TDRR 12829 DR J. McDowell CHK APPD	6 OCT 64	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	306	BLK	22	23	919	
	920				304	
	302				921	
	922				364	
	1143				795	
	796				1145	
	1147				797	
	798				1096	
	1098				791	
	792				1099	
	671				423	
	421				670	
	672				478	
	480				673	
	674				482	
	419				675	
	1036				546	
	545				1038	
	1040				550	
	549				988	
	990				548	
	547				992	
	793				97	
	363				923	
	924	BLK	22	23	361	
	2	RED	20	25	927	
	928				140	
	358				916	
	814				373	
	368	RED	20	25	785	
	803	ORN	20	26	119	
	95				790	
	248				917	
	918				308	
	1201				783	
	784	ORN	20	26	425	
	~~3~~	~~BLU~~			~~921A~~	
	6	WHT	22	14	922B	
	[illegible]	~~BLU~~			[illegible]	
	5	RED	20	25	922D	
	1108	WHT	22	14	1059	
	1050				1137	
	1129				432	
	434				317	
	325				403	
	376				258	
	275				991	
	989				344	
	330				416	
	428				1115	
	1114				995	
	1013				1112	
	1103				452	
	1118				1028	
	998				1104	
	1126				465	
	451				1134	
	1125				468	
	469				270	
	300				436	
	435				297	
	259				471	
	473				1105	
	1102				1066	
	1068				1132	
	1097				439	
	431				301	
	326				449	
	448				355	
	360				470	
	221				343	
	338				222	
	223				307	
	266				224	
	229				250	
	303				228	
	227				284	
	278				226	
	1211				342	
	333				1213	
	1215				339	
	334				1217	
	1219				340	
	331				1221	
	1223				337	
	332				1225	
	230				281	
	273				232	
	234				279	
	274				236	
	238				280	
	271				240	
	242				282	
	347	WHT	22	14	1212	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1214	WHT	22	14	311	
	348				1216	
	1218				312	
	345				1220	
	1222				309	
	346				1224	
	1226				310	
	285				231	
	233				249	
	288				235	
	237				251	
	287				239	
	241				252	
	286				243	
	245				247	
	350				189	
	180				318	
	277				51	
	42				315	
	283				198	
	171				316	
	295				60	
	33				319	
	289				207	
	162				255	
	69				290	
	256				24	
	216				299	
	153				253	
	305				78	
	15				254	
	1133				126	
	136				1106	
	1138				135	
	129				1131	
	353				1205	
	1204				357	
	328				85	
	1202				276	
	265				144	
	148				268	
	356				142	
	146				359	
	379				125	
	86				1152	
	1170				138	
	122				483	
	484				123	
	110				607	
	608				111	
	109				485	
	486				108	
	98				487	
	488				99	
	121				603	
	604				120	
	112				605	
	606				113	
	107				489	
	490				106	
	100				491	
	492				101	
	55				118	
	117				600	
	601				115	
	116				602	
	493				102	
	103				494	
	495				1203	
	104				496	
	595				105	
	183				596	
	597				55	
	45				598	
	497				193	
	174				498	
	499				64	
	36				500	
	591				202	
	165				592	
	593				73	
	27				594	
	501				211	
	156				502	
	503				82	
	18				504	
	587				220	
	186				588	
	589				176	
	48				590	
	505				38	
	195				506	
	507				167	
	57	WHT	22	14	508	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	583	WHT	22	14	29	
	204				584	
	585				158	
	66				586	
	509				20	
	213				510	
	511				149	
	75				512	
	579				11	
	187				580	
	581				178	
	49				582	
	513				40	
	196				514	
	515				169	
	58				516	
	575				31	
	205				576	
	577				160	
	67				578	
	517				22	
	214				518	
	519				151	
	76				572	
	573				13	
	188				574	
	520				179	
	50				521	
	570				41	
	197				571	
	522				170	
	59				523	
	524				32	
	206				567	
	568				161	
	68				569	
	525				23	
	215				526	
	527				152	
	77				528	
	563				14	
	190				564	
	565				181	
	52				566	
	529				43	
	199				530	
	531				172	
	61				532	
	559				34	
	208				560	
	561				163	
	70				562	
	533				25	
	217				534	
	535				154	
	79				536	
	555				16	
	191				556	
	557				182	
	53				558	
	537				44	
	200				538	
	539				173	
	62				540	
	551				35	
	209				552	
	553				164	
	71				554	
	541				26	
	218				542	
	543				155	
	80				544	
	545A				17	
	192				545B	
	545C				184	
	54				545D	
	545E				46	
	201				545F	
	608A				175	
	63				609	
	732				37	
	210				732A	
	610				166	
	72				611	
	612				28	
	~~219~~				~~613~~	
	~~728~~				~~757~~	
	~~87~~				~~729~~	
	~~730~~				~~73~~	
	39				731	
	614				185	
	177				615	
	616				47	
	30	WHT	22	14	617	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	724	WHT	22	14	194	
	168				725	
	726				56	
	21				727	
	618				203	
	159				619	
	620				65	
	12				621	
	720				212	
	150				721	
	722				74	
	90				723	
	622				91	
	92				623	
	624				93	
	143				625	
	716				141	
	88				717	
	718				89	
	87				719	
	626				139	
	83				627	
	628				145	
	94				629	
	712				96	
	84				713	
	714				147	
	1210				715	
	630				1209	
	1208				631	
	632				1207	
	1				633	
	708				3	
	10				709	
	710				7	
	8				711	
	634				132	
	130				635	
	636				137	
	134				637	
	704				133	
	131				705	
	706				1092	
	1078				707	
	638				463	
	1086				639	
	4	WHT	22	14	4A	
	4A	BLACK	22	23	922A	
	4B	WHT	22	14	922C	
	860A	ORN	20	26	1204A	
	926	ORN	20	26	246	
	9	WHT	22	14	1203A	
	114	WHT	22	14	1206	
	127	WHT	22	14	1208A	
	~~1201~~	~~ORN~~	~~20~~	~~26~~	~~368~~	
	124	ORN	20	26	119	
	128	WHT	22	14	1125A	
	1129A	WHT	22	14	1022A	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04139 DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN C. LaPort DATE 3 Sep 63
CHECKED 25 Sep 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO —
SIZE J
NASA DRAWING NO. 1014461
SCALE NONE
WT
SHEET 4 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014461

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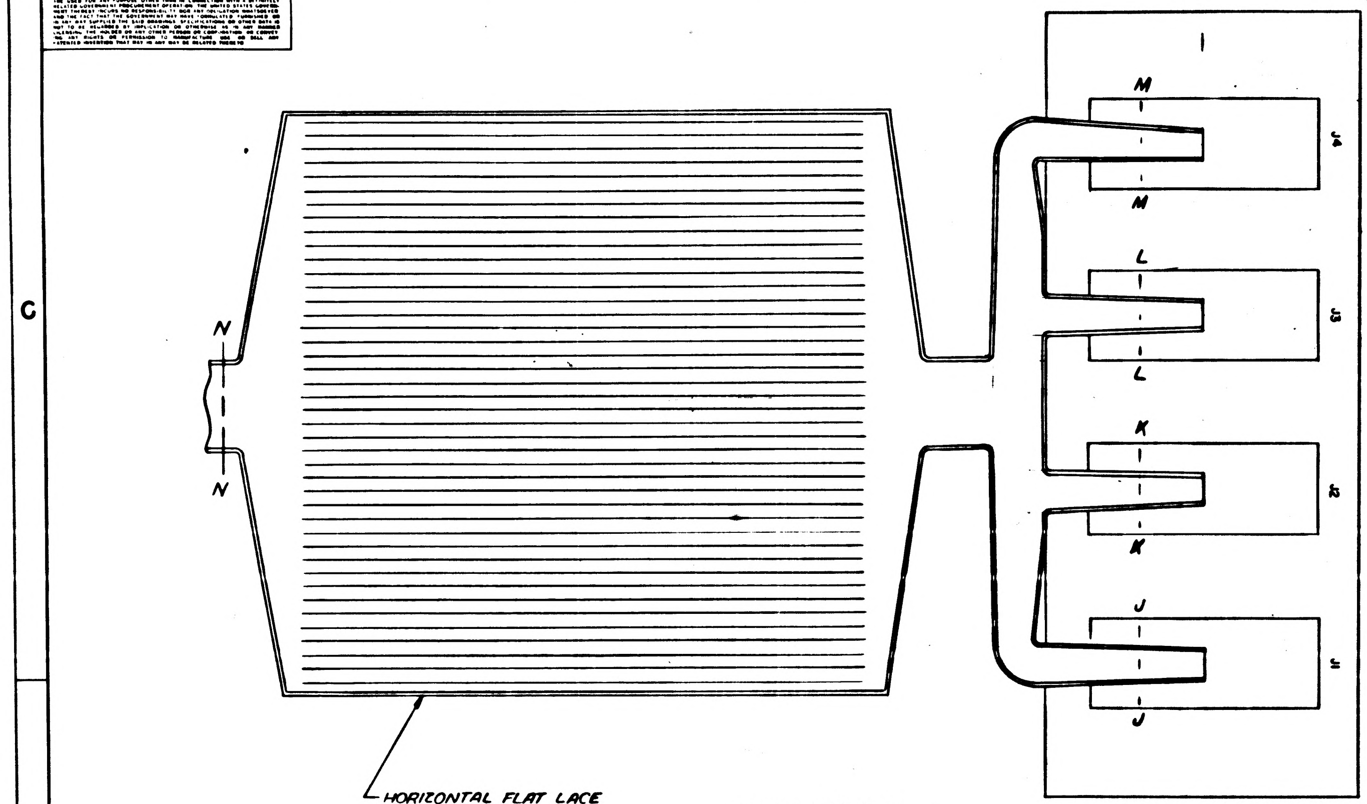
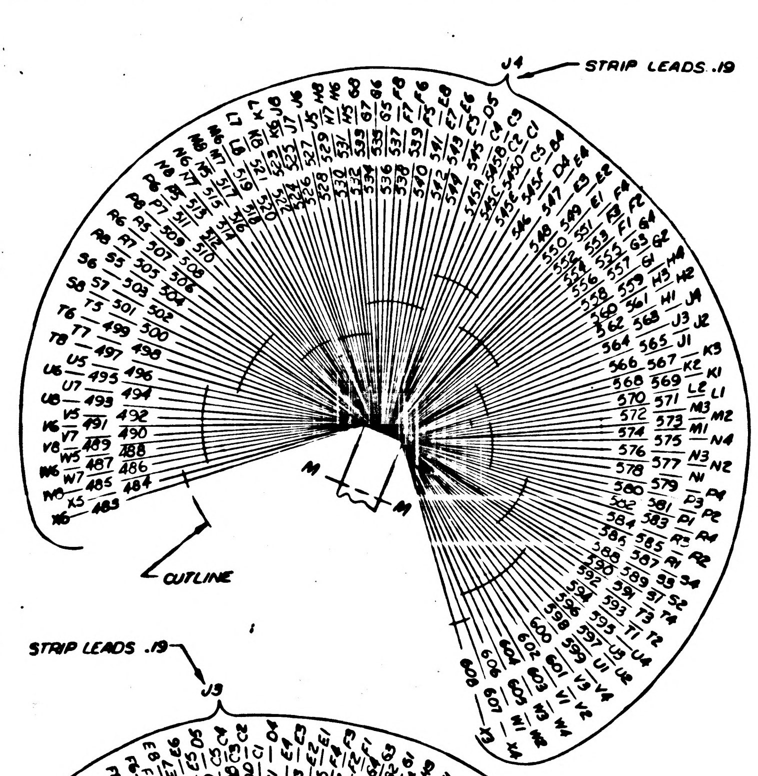
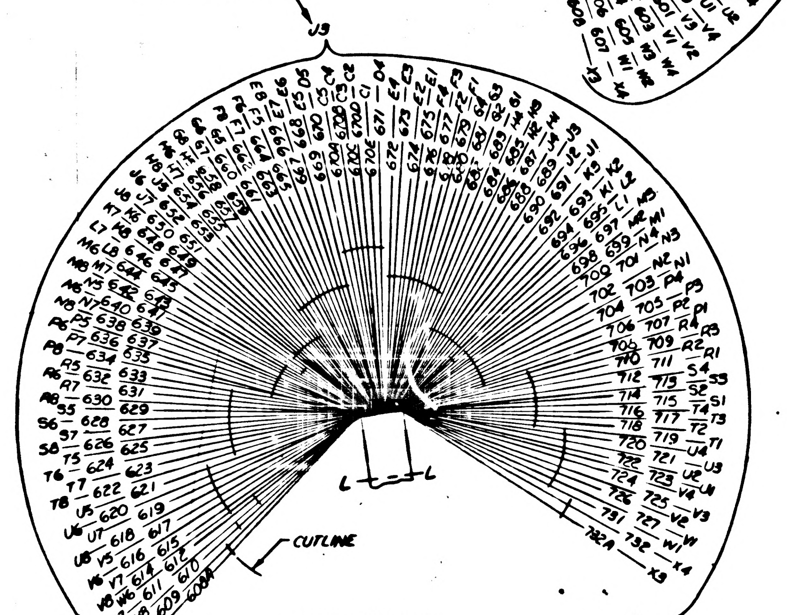
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
D	REPLACES REV C WITH CHANGE PER TDRR 10606	6/24/64	
E	CHANGED PER TDRR 12829 DR BC CHK APPD	6 OCT 64	
F	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17522 DR J J McDonnell CHK APPD	21 APR 65	

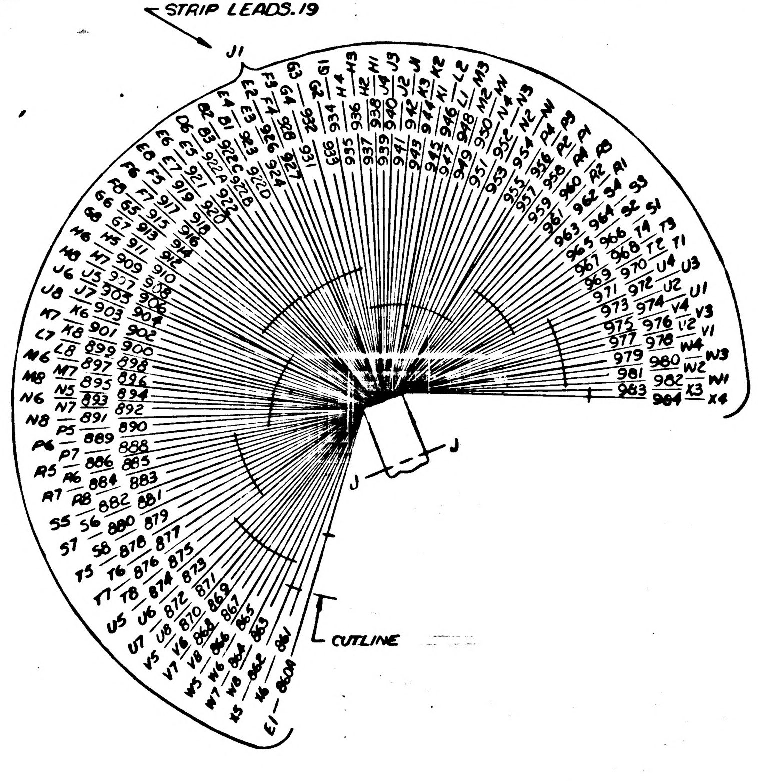


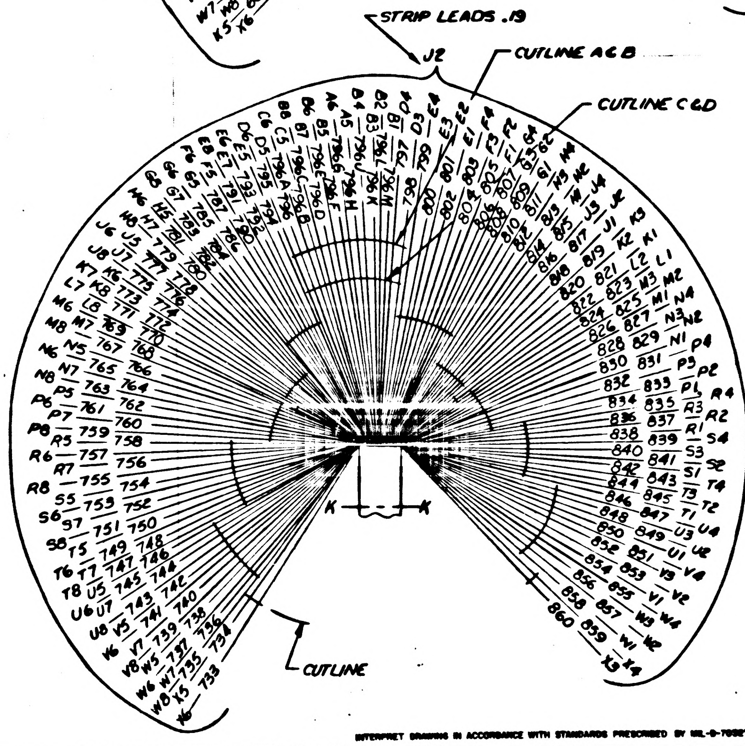
HORIZONTAL FLAT LACE
42 LEGS $\frac{7}{32}$ HIGH MAX



Ⓓ REPLACES REV. C WITH CHANGE.







NOTES:

1. FOR FABRICATION SEE ND 1002032.
2. FILL WITH FIND NO. 12 PER ND 1002009 METHOD E
3. LOCATE KEY IN POSITION PER KEY CODING USING DWG. NO. 1014047
4. MARK GOTHIC CHARACTERS AS SHOWN PER ND 1002019 USING BLACK INK 1006256-001
5. ~~MARK SER NO. PER ND 1002023~~
6. NUMBER PRECEDING BALLOON DENOTES QUANTITY
7. BOND FIND NO. 24 USING FIND NO. 28
8. STRIP ALL LEADS .37 UNLESS OTHERWISE SPECIFIED
9. MIL-I-7444 TYPE I FOR FIND NO. 20 AWG 3/4 FOR FIND NO. 21 AWG 1/2
10. INSTALL FIND NO 22 OUTSIDE ROWS ON P3, P4, P7, & P8
11. SOLDER PER ND 1002071
12. CRIMP PER ND 1002206
13. SERIALIZE PER ND 1002023
14. MARK GOTHIC CHARACTERS AS SHOWN PER ND 1002019 USING WHITE INK 1006271-1.

AR	1006253	ADHESIVE	28
-	1014440	SCHEMATIC	REF
~~1014541-2~~		~~WIRE ELECTRICAL~~	~~27~~
✱ 90	MIL-W-16878/4 TYPE E20 ORN	WIRE ELEC	26
✱ 50	MIL-W-16878/4 TYPE E20 RED	WIRE ELEC	25
1	1014472-4A	BAND MARKER, CABLE	24
✱ 240	MIL-W-16878/4, TYPE E22 BLK	WIRE ELECTRICAL	23
80	1014310	INSULATOR, CONTACT	22
✱ 3.5	SEE NOTE 9	SLEEVING	21
✱ 6.5	SEE NOTE 9	SLEEVING	20
			~~19~~
			~~18~~
			~~17~~
			~~16~~
			~~15~~
✱ 4800	MIL-W-16878/4, TYPE E22 WHT	WIRE, ELEC.	14
1	1014308	PLATE AND CONNECTOR	13
AR	1006683	COMPOUND, SILICONE RUBBER	12
8	1014461-1	BUSHING	11
160	1006987	INSUL. CONTACT ELECT, MALE CRIMP	10
240	1006995	CONTACT ELECTRICAL, MALE CRIMP	9
240	1010380	INSULATOR, BUSHING FEMALE	8
240	1010379-	CONTACT, ELECTRICAL FEMALE	7
16	1014032	RECEPTACLE, INDEXING	6
16	1006997	WASHER PLAIN FLAT	5
16	MS35337-79	WASHER, LOCK	4
16	1006998-1	SCREW, CAPTIVE	3
8	1014000-4	FRAME, MODULE	2
8	1014021	PLATE, CONNECTOR	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

✱ DENOTES LENGTH IN FEET

1014143	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±

DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED 25 June
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014461
SCALE 1/1
WT
SHEET 1 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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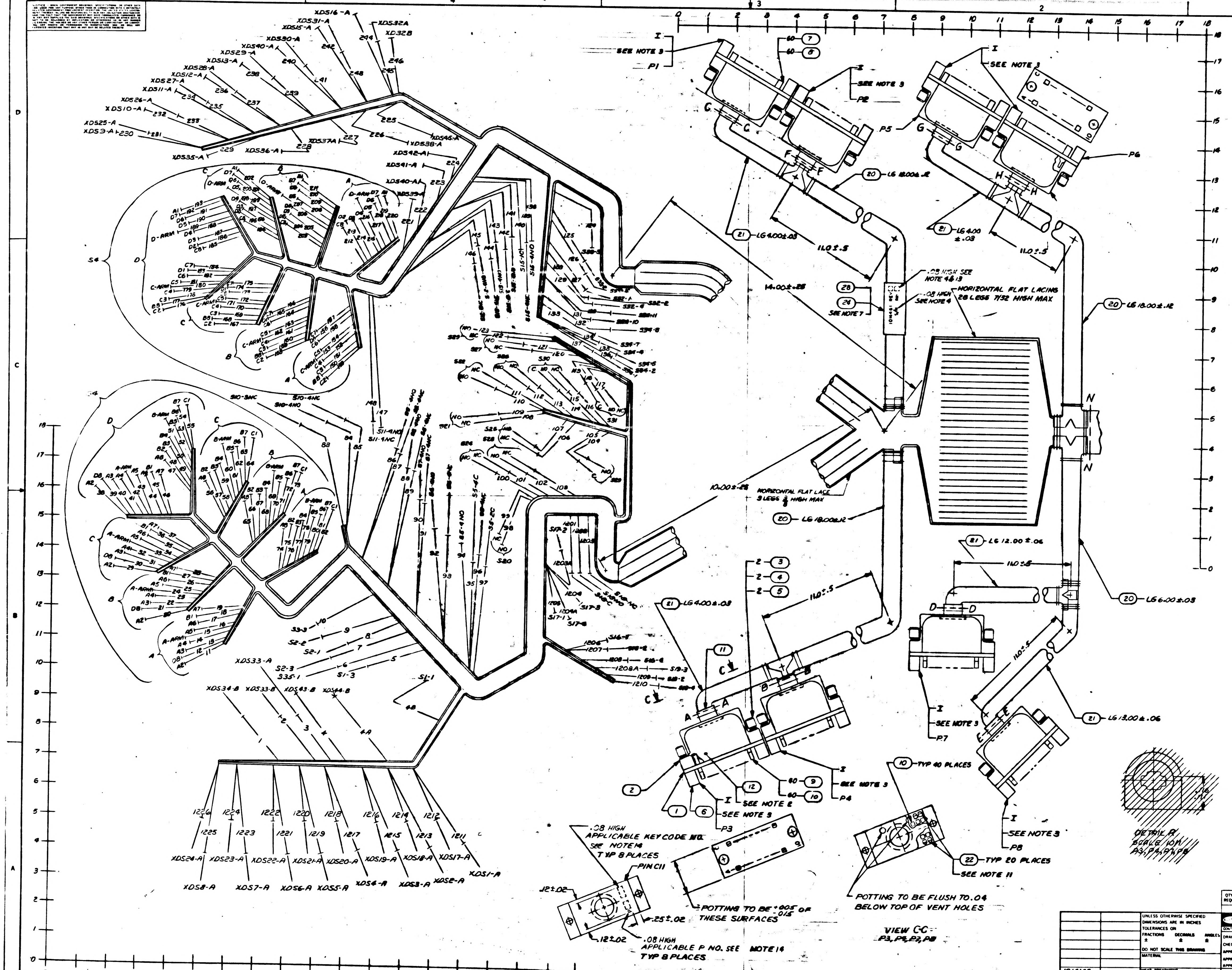
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TORR 64139		
A	CLASS II CHANGE PER RD-R5668C DR H. Swindell CHK W. J. Gifford APPD J. Conley	21 JAN 64	
B	CHANGED PER TDRR 06679 DR W. Brown CHK. JGJ/JW APPD. J Conley	9 MAR 64	KCB
D	CHANGED PER TDRR 10605 DR F. Mohan CHK JCJ APPD. J Conley	29 JULY 64	KCB
E	CHANGED PER TDRR 12829 DR J. F. McDonnell CHK JW APPD	6 OCT 64	
F	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17522 DR J F McDonnell CHK APPD	21 APR 65	KCB



I
SEE NOTE 3
P1
P2
P5
P6
P3
P4
P7
P8
60 – 7
60 – 8
60 – 9
60 – 10
2 – 3
2 – 4
2 – 5
20 – LG 18.00 ± .12
21 – LG 4.00 ± .03
21 – LG 4.00 ± .03
20 – LG 18.00 ± .12
20 – LG 18.00 ± .12
21 – LG 12.00 ± .06
20 – LG 6.00 ± .03
21 – LG 4.00 ± .03
21 – LG 13.00 ± .06
11.0 ± .5
14.00 ± .25
10.00 ± .25
.08 HIGH SEE NOTE 4 & 13
.08 HIGH SEE NOTE 4
28
24
SEE NOTE 7
HORIZONTAL FLAT LACING 26 LEGS 7/32 HIGH MAX
HORIZONTAL FLAT LACE 3 LEGS 1/8 HIGH MAX
N
C
F
G
H
D
E
A
B
11
12
1
2
6
SEE NOTE 2
SEE NOTE 3
10 – TYP 40 PLACES
22 – TYP 20 PLACES
SEE NOTE 11
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES
VIEW C-C
P3, P5, P2, P8
.08 HIGH APPLICABLE KEYCODE NO. SEE NOTE 14 TYP 8 PLACES
PIN C11
.12 ± .02
.25 ± .02
.12 ± .02
POTTING TO BE +.005 / –.015 OF THESE SURFACES
.08 HIGH APPLICABLE P NO. SEE NOTE 14 TYP 8 PLACES
DETAIL A
SCALE 10/1
P3, P4, P7, P8
S4
D-ARM
C-ARM
B-ARM
A-ARM
XDS16-A
XDS31-A
XDS15-A
XDS30-A
XDS40-A
XDS29-A
XDS13-A
XDS28-A
XDS12-A
XDS27-A
XDS11-A
XDS26-A
XDS10-A
XDS25-A
XDS3-A
XDS35-A
XDS36-A
XDS37-A
XDS38-A
XDS32-A
XDS32-B
XDS41-A
XDS42-A
XDS40-A
XDS39-A
XDS33-A
XDS34-B
XDS33-B
XDS43-B
XDS44-B
XDS24-A
XDS23-A
XDS22-A
XDS21-A
XDS20-A
XDS19-A
XDS18-A
XDS17-A
XDS1-A
XDS8-A
XDS7-A
XDS6-A
XDS5-A
XDS4-A
XDS3-A
XDS2-A
1226
1225
1224
1223
1222
1221
1220
1219
1218
1217
1216
1215
1214
1213
1212
1211
S1-1
S1-3
S2-1
S2-2
S2-3
S3-3
S35-1
S10-3NC
S10-4NC
S10-4NO
S11-4NO
S11-4NC
S17-2
S17-1
S17-3
S17-5
S16-5
S19-3
S20
S21
S22
S23
S24
S25
S26
S27
S28
S29
S30
S31
S32-1
S32-2
S32-4
S33-10
S33-11
S34-5
S34-6
S34-2
S34-4
S35-7
S15-NC
S16-4NO
S16-NC

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

NEXT ASSY	USED ON
1014143	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 8-9-63
CHECKED A. Cipponi 23 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 24 Oct 63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS BRANCHED PROGRAMMER AND MONITOR

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014461
SCALE 1/1
WT
SHEET 2 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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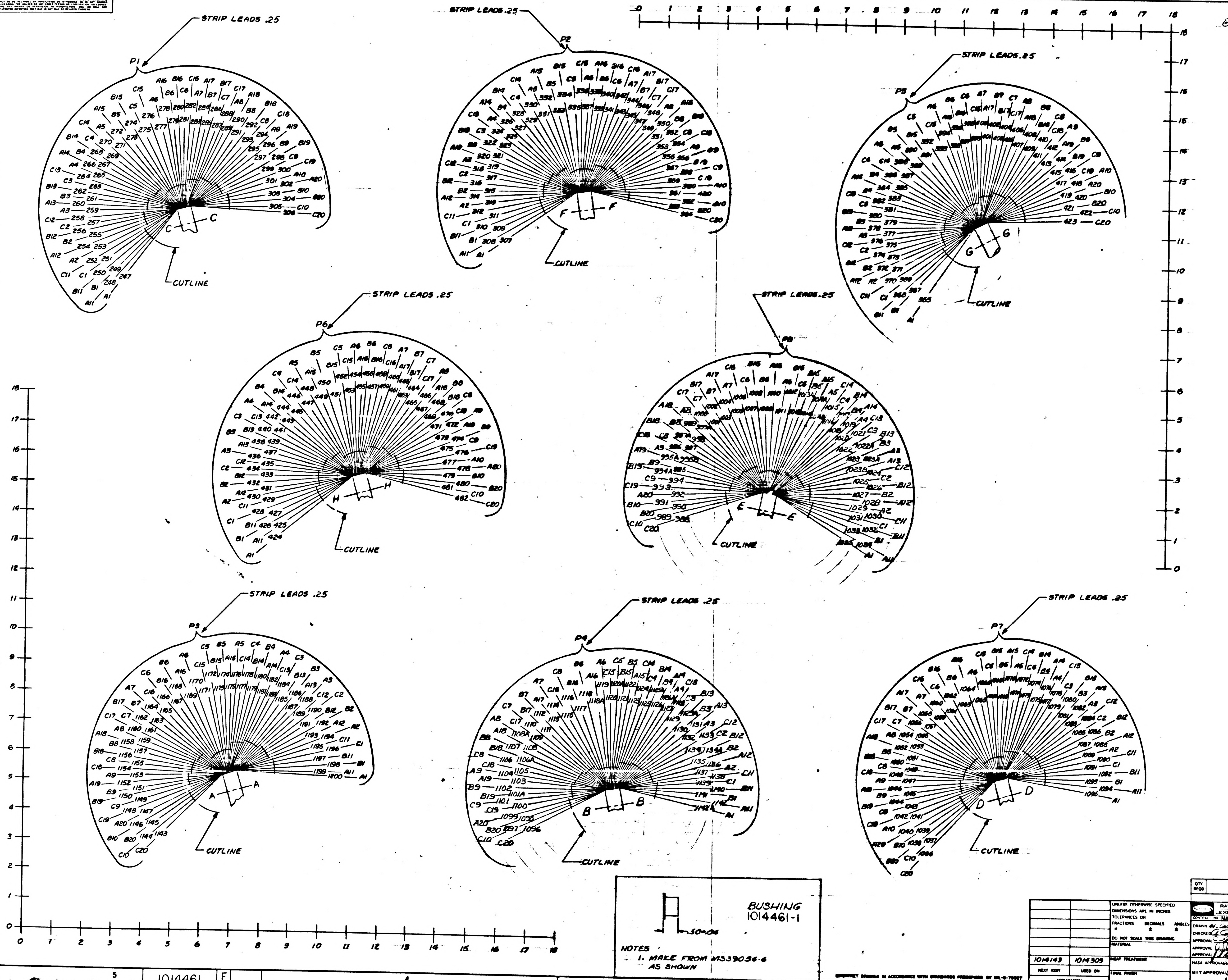
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5668C DR W. Swindell CHK W. J. APPD	21 JAN 64	
B	CHANGED PER TDRR 06679 DR. W. Brown CHK. APPD.	9 MAR 64	
F	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17522 DR J. F. McDonnell CHK APPD	21 APR 65	



BUSHING
1014461-1

NOTES
1. MAKE FROM MS39056-6
AS SHOWN

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN W. Carlson DATE 8-9-63
CHECKED 25 Sep 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

WIRING HARNESS BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014461
SCALE 1/1
WT
SHEET 3 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	306	BLK	22	23	919	
	920	↑	↑	↑	304	
	302				921	
	922				364	
	1143				795	
	796				1145	
	1147				797	
	798				1096	
	1098				791	
	792				1099	
	671				423	
	421				670	
	672				478	
	480				673	
	674				482	
	419				675	
	1036				546	
	545				1038	
	1040				550	
	549				988	
	990				548	
	547				992	
	793				97	
	363	↓	↓	↓	923	
	921	BLK	22	23	361	
	2	RED	20	25	927	
	928	↑	↑	↑	140	
	358				916	
	814	↓	↓	↓	373	
	368	RED	20	25	785	
	803	ORN	20	26	119	
	95	↑	↑	↑	790	
	248				917	
	918				308	
	1201	↓	↓	↓	783	
	784	ORN	20	26	425	
	~~3~~	~~BLU~~			~~987A~~	
	6	WHT	22	14	922B	
	~~4~~	~~BLU~~			~~985~~	
	5	RED	20	25	922D	
	1108	WHT	22	14	1059	
	1050	↑	↑	↑	1137	
	1129				432	
	434				317	
	325				403	
	376				258	
	275				991	
	989				344	
	330				416	
	428				1115	
	1114				995	
	1013				1112	
	1103				452	
	1118				1028	
	998				1104	
	1126				465	
	451				1134	
	1125				468	
	469				270	
	300				436	
	435				297	
	259				471	
	473				1105	
	1102				1066	
	1068				1132	
	1097				439	
	431				301	
	326				449	
	448				355	
	360				470	
	221				343	
	338				222	
	223				307	
	266				224	
	229				250	
	303				228	
	227				284	
	278				226	
	1211				342	
	333				1213	
	1215				339	
	334				1217	
	1219				340	
	331				1221	
	1223				337	
	332				1225	
	230				281	
	273				232	
	234				279	
	274				236	
	238				280	
	271				240	
	242	↓	↓	↓	282	
	347	WHT	22	14	1212	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1214	WHT	22	14	311	
	348	↑	↑	↑	1216	
	1218				312	
	345				1220	
	1222				309	
	346				1224	
	1226				310	
	285				231	
	233				249	
	288				235	
	237				251	
	287				239	
	241				252	
	286				243	
	245				247	
	350				189	
	180				318	
	277				51	
	42				315	
	283				198	
	171				316	
	295				60	
	33				313	
	289				207	
	162				255	
	69				290	
	256				24	
	216				299	
	153				253	
	305				78	
	15				254	
	1133				126	
	136				1106	
	1138				135	
	129				1131	
	353				1205	
	1204				357	
	328				85	
	1202				276	
	265				144	
	148				268	
	356				142	
	146				359	
	379				125	
	86				1152	
	1170				138	
	122				483	
	484				123	
	110				607	
	608				111	
	109				485	
	486				108	
	98				487	
	488				99	
	121				603	
	604				120	
	112				605	
	606				113	
	107				489	
	490				106	
	100				491	
	492				101	
	599				118	
	117				600	
	601				115	
	116				602	
	493				102	
	103				494	
	495				1203	
	104				496	
	595				105	
	183				596	
	597				55	
	45				598	
	497				193	
	174				498	
	499				64	
	36				500	
	591				202	
	165				592	
	593				73	
	27				594	
	501				211	
	156				502	
	503				82	
	18				504	
	587				220	
	186				588	
	589				176	
	48				590	
	505				38	
	195				506	
	507	↓	↓	↓	167	
	57	WHT	22	14	508	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	583	WHT	22	14	29	
	204	↑	↑	↑	584	
	585				158	
	66				586	
	509				20	
	213				510	
	511				149	
	75				512	
	579				11	
	187				580	
	581				178	
	49				582	
	513				40	
	196				514	
	515				169	
	58				516	
	575				31	
	205				576	
	577				160	
	67				578	
	517				22	
	214				518	
	519				151	
	76				572	
	573				13	
	188				574	
	520				179	
	50				521	
	570				41	
	197				571	
	522				170	
	59				523	
	524				32	
	206				567	
	568				161	
	68				569	
	525				23	
	215				526	
	527				152	
	77				528	
	563				14	
	190				564	
	565				181	
	52				566	
	529				43	
	199				530	
	531				172	
	61				532	
	559				34	
	208				560	
	561				163	
	70				562	
	533				25	
	217				534	
	535				154	
	79				536	
	555				16	
	191				556	
	557				182	
	53				558	
	537				44	
	200				538	
	539				173	
	62				540	
	551				35	
	209				552	
	553				164	
	71				554	
	541				26	
	218				542	
	543				155	
	80				544	
	545A				17	
	192				545B	
	545C				184	
	54				545D	
	545E				46	
	201				545F	
	608A				175	
	63				609	
	732				37	
	210				732A	
	610				166	
	72				611	
	612				28	
	~~219~~				~~513~~	
	~~728~~				~~737~~	
	~~87~~				~~729~~	
	~~738~~				~~13~~	
	39				731	
	614				185	
	177				615	
	616	↓	↓	↓	47	
	30	WHT	22	14	617	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	724	WHT	22	14	194	
	168	↑	↑	↑	725	
	726				56	
	21				727	
	618				203	
	159				619	
	620				65	
	12				621	
	720				212	
	150				721	
	722				74	
	90				723	
	622				91	
	92				623	
	624				93	
	143				625	
	716				141	
	88				717	
	718				89	
	87				719	
	626				139	
	83				627	
	628				145	
	94				629	
	712				96	
	84				713	
	714				147	
	1210				715	
	630				1209	
	1208				631	
	632				1207	
	1				633	
	708				3	
	10				709	
	710				7	
	8				711	
	634				132	
	130				635	
	636				137	
	134				637	
	704				133	
	131				705	
	706				1092	
	1078				707	
	638				463	
	1086	↓	↓	↓	639	
	4	WHT	22	14	4A	
	4A	BLACK	22	23	922A	
	4B	WHT	22	14	922C	
	860A	ORN	20	26	1204A	
	926	ORN	20	26	246	
	9	WHT	22	14	1203A	
	114	WHT	22	14	1206	
	127	WHT	22	14	1208A	
	~~1201~~	~~ORN~~	~~20~~	~~26~~	~~368~~	
	124	ORN	20	26	119	
	128	WHT	22	14	1125A	
	1129A	WHT	22	14	1022A	

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TORR		
A	CLASS II CHANGE PER RD-R5668C DR CHK W. J. Gifford	21 JAN 64	JJG
B	CHANGE PER TDRR 06679 DR. W. Dawn CHK. APPD	9 MAR 64	
D	CHANGED PER TDRR 10605 DR CHK JCJ APPD	64	KCB
E	CHANGED PER TDRR 12829 DR CHK APPD	6 OCT 64	KCB
F	UPGRADE TO CLASS A WITH CHANGE PER TDRR17522 DR CHK APPD	21 APR 65	

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014143	1014309

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN C. LaPort DATE 3/63
CHECKED 25 Sep 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO ——
SIZE J
NASA DRAWING NO 1014461
SCALE NONE
WT
SHEET 4 OF 5

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	640	WHITE	22	14	999	
	1057				641	
	700				1054	
	1084				701	
	702				1055	
	1024				703	
	642				1021	
	996				643	
	644				1044	
	1094				697	
	698				365	
	462				699	
	645				1004	
	1089				646	
	695				1029	
	1034				696	
	647				1005	
	1002				648	
	649				1027	
	1032				692	
	693				1003	
	1000				694	
	650				1025	
	1030				651	
	652				1001	
	1058				653	
	688				1088	
	1035				689	
	690				993	
	458				691	
	654				1026	
	410				655	
	656				1052	
	429				657	
	684				464	
	685				1046	
	426				686	
	687				371	
	406				658	
	659				377	
	407				660	
	661				372	
	409				680	
	681				378	
	408				682	
	683				374	
	411				662	
	663				380	
	381				664	
	665				375	
	404				676	
	677				382	
	678				1012	
	1014				679	
	666				430	
	400				667	
	668				437	
	401				669	
	670A				399	
	467				670B	
	670C				402	
	424				670D	
	670E				367	
	861				1142	
	1136				862	
	983				1100	
	1107				984	
	863				260	
	327				864	
	865				362	
	298				866	
	979				321	
	351				980	
	981				322	
	352				982	
	867				319	
	349				868	
	869				320	
	294				870	
	975				264	
	1126A				796A	
	1120A				796B	
	1118A				796C	
	1108A				796D	
	1106A	WHITE	22	14	796E	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	293	WHITE	22	14	976	
	977				263	
	291				978	
	871				261	
	292				872	
	873				262	
	1135				874	
	971				1130	
	972				323	
	324				973	
	974				329	
	335				875	
	876				336	
	1127				877	
	878				1124	
	1128				967	
	968				296	
	354				969	
	970				341	
	879				1117	
	1111				880	
	881				1113	
	1116				882	
	963				1122	
	1141				964	
	965				1123	
	1113				966	
	883				1121	
	1101				884	
	885				1139	
	1110				886	
	959				1109	
	1120				960	
	961				1140	
	962				269	
	267				888	
	889				314	
	890				1196	
	1190				955	
	956				1184	
	1178				957	
	958				1172	
	1166				891	
	892				1161	
	1155				893	
	894				1144	
	1195				951	
	952				1189	
	1183				953	
	954				1177	
	1171				895	
	896				1165	
	1154				897	
	948				1148	
	1198				949	
	950				1192	
	1186				898	
	899				1180	
	1168				946	
	947				1157	
	1151				900	
	901				1146	
	1197				902	
	943				1179	
	1173				944	
	945				1167	
	1162				903	
	904				1156	
	1193				905	
	906				1181	
	1175				939	
	940				1149	
	1160				941	
	942				1159	
	1153				907	
	908				1169	
	1174				909	
	910				1163	
	1185				935	
	936				1150	
	1134A				787	
	1101A				796F	
	1023B				796G	
	1014A				796H	
	1013A	WHITE	22	14	796J	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1194	WHITE	22	14	937	
	938				1182	
	1187				911	
	912				1158	
	1191				313	
	914				1200	
	1188				931	
	932				1176	
	1164				933	
	934				1199	
	257				915	
	806				422	
	369				786	
	807				433	
	427				808	
	809				1093	
	1091				810	
	804				1056	
	1023				805	
	733				479	
	734				1085	
	1079				859	
	860				1067	
	1049				735	
	736				1043	
	1037				737	
	738				397	
	855				1090	
	1019				856	
	857				1020	
	1010				858	
	739				1011	
	1017				740	
	741				1018	
	1008				742	
	851				1007	
	1033				852	
	853				1015	
	1016				854	
	743				1006	
	1065				744	
	745				1077	
	1053				746	
	847				1064	
	1062				848	
	849				1074	
	1075				850	
	747				1063	
	1060				748	
	749				1073	
	1072				750	
	843				1061	
	1048				844	
	845				1076	
	1042				846	
	751				1081	
	1045				752	
	753				1051	
	1069				754	
	839				1009	
	1095				840	
	841				1083	
	1071				842	
	755				1031	
	1022				756	
	757				997	
	1047				758	
	835				1041	
	1082				836	
	837				1070	
	994				838	
	759				446	
	459				760	
	761				457	
	447				762	
	831				444	
	456				832	
	833				454	
	445				834	
	763	WHITE	22	14	442	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	455	WHITE	22	14	764	
	765				440	
	443				766	
	827				481	
	475				828	
	829				441	
	453				830	
	767				476	
	438				768	
	769				450	
	385				824	
	825				398	
	396				826	
	770				395	
	383				771	
	822				384	
	394				823	
	772				474	
	370				773	
	774				405	
	392				819	
	820				417	
	414				821	
	775				420	
	393				776	
	777				415	
	412				778	
	815				418	
	390				816	
	818				466	
	472				779	
	780				389	
	386				781	
	782				387	
	477				811	
	812				391	
	388				813	
	794				460	
	461				799	
	800				1087	
	1039				801	
	802				1080	
	244				272	
	413				817	
	225				1142A	
	995B				19	
	999A				81	
	1014B				157	
	1023A				219	
	997A				796K	
	995A				796L	
	994A	WHITE	22	14	796M	

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TORR		
A	CLASS II CHANGE PER RD-R5668C DR H Swindell CHK W. J. Gifford APPD	21 JAN 64	JJS
B	CHANGED PER TORR 06679 DR. W BROWN CHK JCJ J.W APPD	9 MAR 64	KCB
F	UPGRADE TO CLASS A WITH CHANGE PER TORR 17522 DR J Z McDonnell CHK APPD	21 APR 65	KCB

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN J. Spinney DATE 8-3-63
CHECKED 25 Sep 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

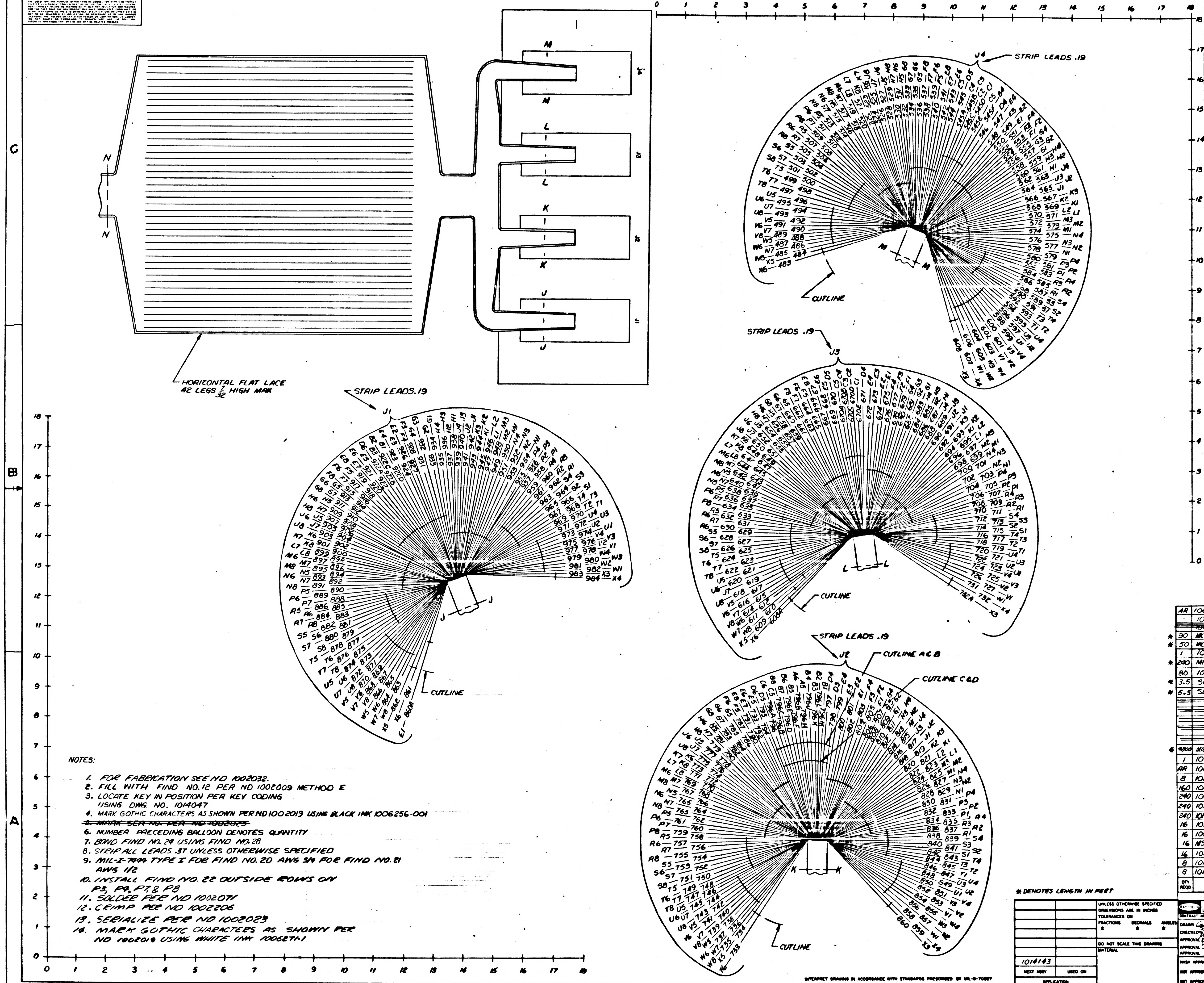
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014461
SCALE NONE
WT
SHEET 5 OF 5

1014461 F

1014461



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
D	REPLACES REV C WITH CHANGE PER TDRR 10605		
E	CHANGED PER TDRR 12829 DR B6 CHK APPD	6 OCT 64	
F	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17522 DR J F McDonald CHK APPD	21 APR 65	
G	CHANGED PER TDRR 19929 DR CHK APPD	26 65	

Ⓓ REPLACES REV C WITH CHANGE.

NOTES:

1. FOR FABRICATION SEE ND 1002032.
2. FILL WITH FIND NO. 12 PER ND 1002009 METHOD E
3. LOCATE KEY IN POSITION PER KEY CODING USING DWG. NO. 1014047
4. MARK GOTHIC CHARACTERS AS SHOWN PER ND 1002019 USING BLACK INK 1006256-001
5. ~~MARK SER NO. PER ND 1002023~~
6. NUMBER PRECEDING BALLOON DENOTES QUANTITY
7. BOND FIND NO. 24 USING FIND NO. 28
8. STRIP ALL LEADS .37 UNLESS OTHERWISE SPECIFIED
9. MIL-I-7444 TYPE I FOR FIND NO. 20 AWG 3/4 FOR FIND NO. 21 AWG 1/2
10. INSTALL FIND NO. 22 OUTSIDE ROWS ON P3, P4, P7 & P8
11. SOLDER PER ND 1002071
12. CRIMP PER ND 1002206
13. SERIALIZE PER ND 1002023
14. MARK GOTHIC CHARACTERS AS SHOWN PER ND 1002019 USING WHITE INK 1006271-1

	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
	AR	1006253	ADHESIVE	28
	-	1014440	SCHEMATIC	REF
		~~1014341-2~~	~~WIRE ELECTRICAL~~	~~27~~
*	90	MIL-W-16878/4 TYPE E20 ORN	WIRE ELEC	26
*	50	MIL-W-16878/4 TYPE E20 RED	WIRE ELEC	25
	1	1014472-4A	BAND MARKER, CABLE	24
*	240	MIL-W-16878/4, TYPE E22 BLK	WIRE ELECTRICAL	23
	80	1014310	INSULATOR, CONTACT	22
*	3.5	SEE NOTE 9	SLEEVING	21
*	5.5	SEE NOTE 9	SLEEVING	20
				~~19~~
				~~18~~
				~~17~~
				~~16~~
				~~15~~
*	4800	MIL-W-16878/4, TYPE E22 WHT	WIRE, ELEC.	14
	1	1014308	PLATE AND CONNECTOR	13
	AR	1006683	COMPOUND, SILICONE RUBBER	12
	8	1014461-1	BUSHING	11
	160	1006987	INSUL. CONTACT ELECT, MALE CRIMP	10
	240	1006995	CONTACT ELECTRICAL, MALE CRIMP	9
	240	1010380	INSULATOR, BUSHING FEMALE	8
	240	1010379-1	CONTACT, ELECTRICAL FEMALE	7
	16	1014032	RECEPTACLE, INDEXING	6
	16	1006997	WASHER PLAIN FLAT	5
	16	MS35337-79	WASHER, LOCK	4
	16	1006998-1	SCREW, CAPTIVE	3
	8	1014000-4	FRAME, MODULE	2
	8	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014461 G A

* DENOTES LENGTH IN FEET

1014143	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 23 June
CHECKED 25 June 64
APPROVAL 25 June 64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

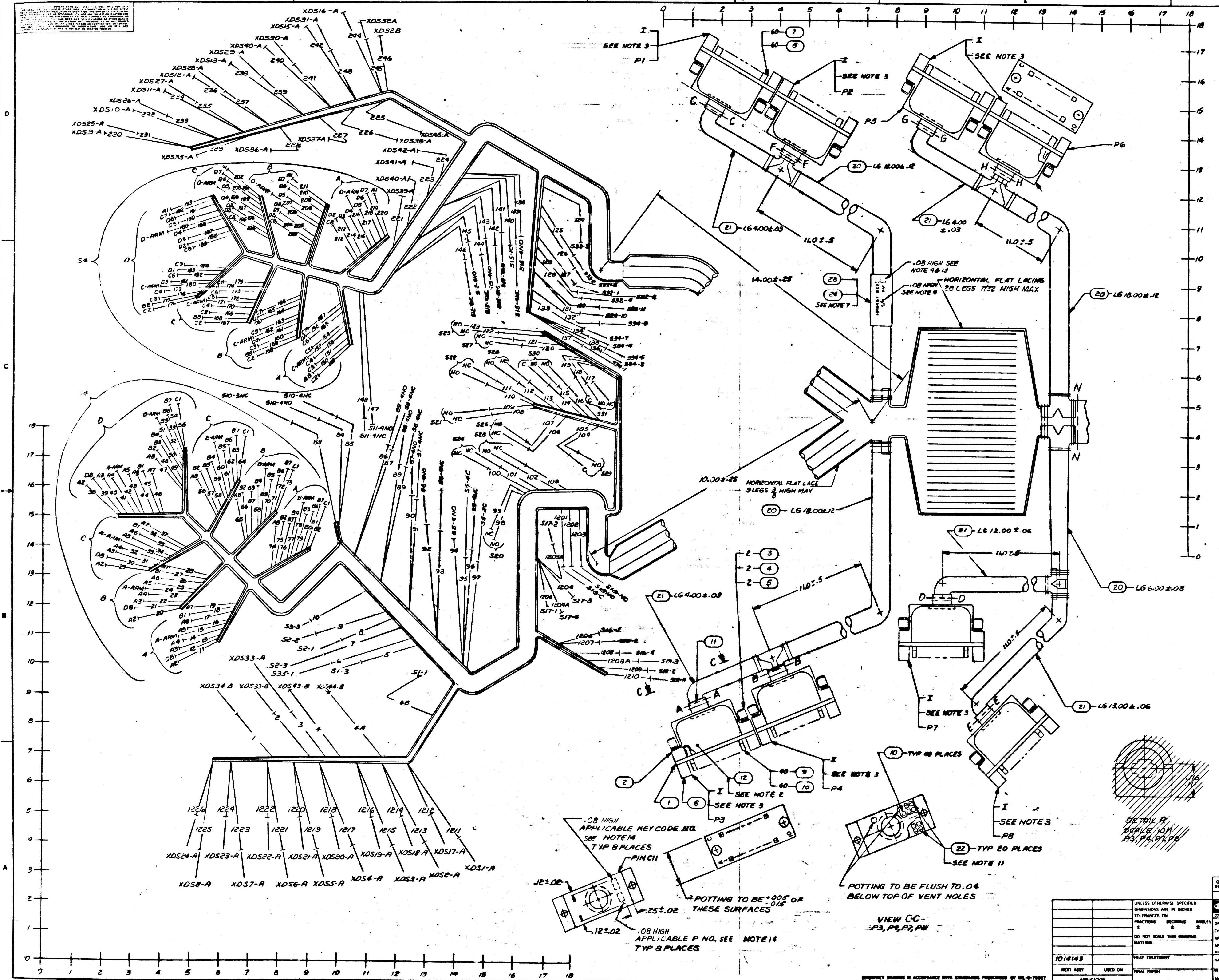
WIRING HARNESS BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO. 49956
SIZE J
NASA DRAWING NO. 1014461
SCALE 1/1
WT
SHEET 1 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 4139	10/2/63	
A	CLASS II CHANGE PER RD-R5668C DR H Lewendell CHK W. J. Gifford APPD	21 JAN 64	
B	CHANGED PER TDRR 06679 DR. W. Brown CHK. APPD.	9 MAR 64	
D	CHANGED PER TDRR 10605 DR F Mohan CHK APPD	29 JUL 64	
E	CHANGED PER TDRR 12829 DR J McDonnell CHK APPD	6 OCT 64	
F	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17522 DR J McDonnell CHK APPD	21 APR 65	
G	CHANGED PER TDRR 19929 DR CHK APPD	26 June 65	



SEE NOTE 3
P1
P2
P5
P6
P3
P4
P7
P8
I
SEE NOTE 3
60 - 7
60 - 8
G
C
F
H
N
20 - LG 18.00±.12
21 - LG 4.00±.03
21 - LG 4.00 ±.03
11.0±.5
14.00±.25
10.00±.25
.08 HIGH SEE NOTE 4 & 13
28
24
SEE NOTE 7
.08 HIGH SEE NOTE 4
HORIZONTAL FLAT LACING 28 LEGS 7/32 HIGH MAX
HORIZONTAL FLAT LACE 3 LEGS 3/8 HIGH MAX
20 - LG 18.00±.12
21 - LG 12.00±.06
20 - LG 6.00±.03
21 - LG 13.00±.06
2 - 3
2 - 4
2 - 5
11
C
A
B
D
E
60 - 9
60 - 10
2
1
6
12
SEE NOTE 2
SEE NOTE 3
10 - TYP 48 PLACES
22 - TYP 20 PLACES
SEE NOTE 11
DETAIL A
SCALE 10/1
P3, P4, P7, P8
.16
.08 HIGH APPLICABLE KEY CODE NO. SEE NOTE 14 TYP 8 PLACES
PIN C11
.12±.02
.25±.02
.12±.02
.08 HIGH APPLICABLE P NO. SEE NOTE 14 TYP 8 PLACES
POTTING TO BE +.005 -.015 OF THESE SURFACES
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES
VIEW C-C
P3, P4, P7, P8
S4
A-ARM
B-ARM
C-ARM
D-ARM
XDS16-A
XDS32A
XDS31-A
XDS32B
XDS15-A
XDS30-A
XDS40-A
XDS29-A
XDS13-A
XDS28-A
XDS12-A
XDS27-A
XDS11-A
XDS26-A
XDS10-A
XDS25-A
XDS9-A
XDS35-A
XDS36-A
XDS37A
XDS38-A
XDS45-A
XDS42-A
XDS41-A
XDS40-A
XDS39-A
XDS33-A
XDS34-B
XDS33-B
XDS43-B
XDS44-B
XDS24-A
XDS23-A
XDS22-A
XDS21-A
XDS20-A
XDS19-A
XDS18-A
XDS17-A
XDS1-A
XDS8-A
XDS7-A
XDS6-A
XDS5-A
XDS4-A
XDS3-A
XDS2-A
S10-3NC
S10-4NC
S10-4NO
S11-4NO
S11-4NC
S1-1
S1-3
S2-1
S2-2
S2-3
S3-3
S35-1
S20
S21
S22
S23
S25
S26
S27
S28
S29
S30
S31
NO
NC
1211
1212
1213
1214
1215
1216
1217
1218
1219
1220
1221
1222
1223
1224
1225
1226

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION

LIST OF MATERIALS

1014143	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 8-9-63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 24 Oct
MIT APPROVAL

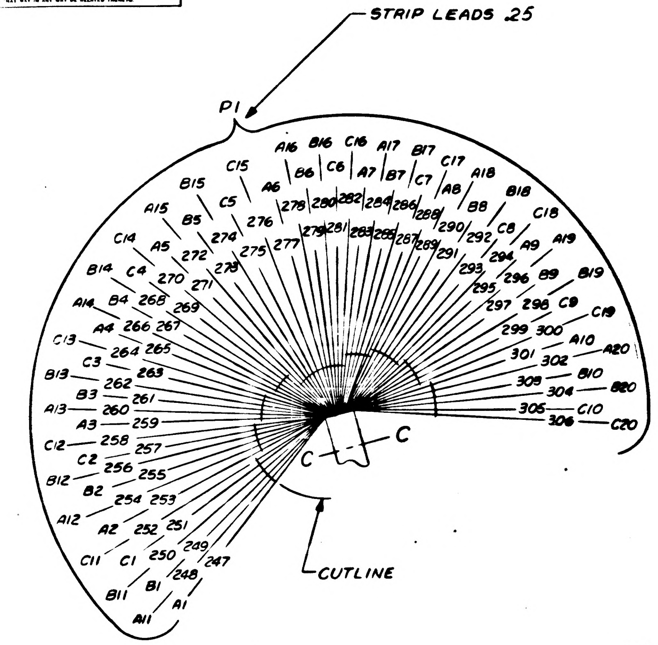
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

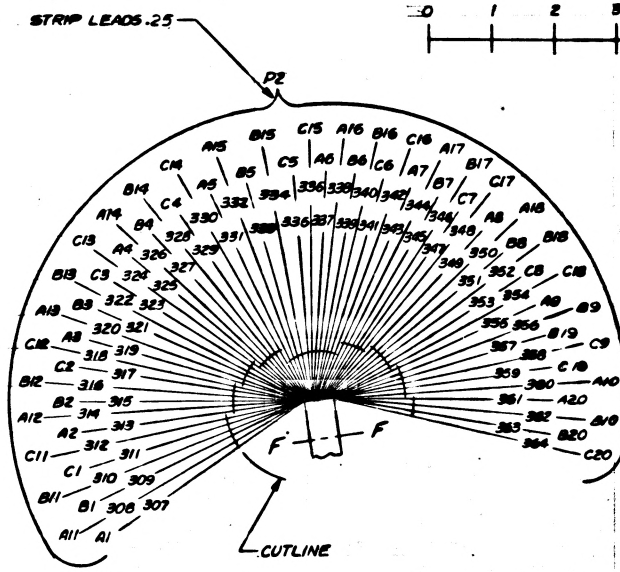
WIRING HARNESS BRANCHED
PROGRAMMER AND MONITOR

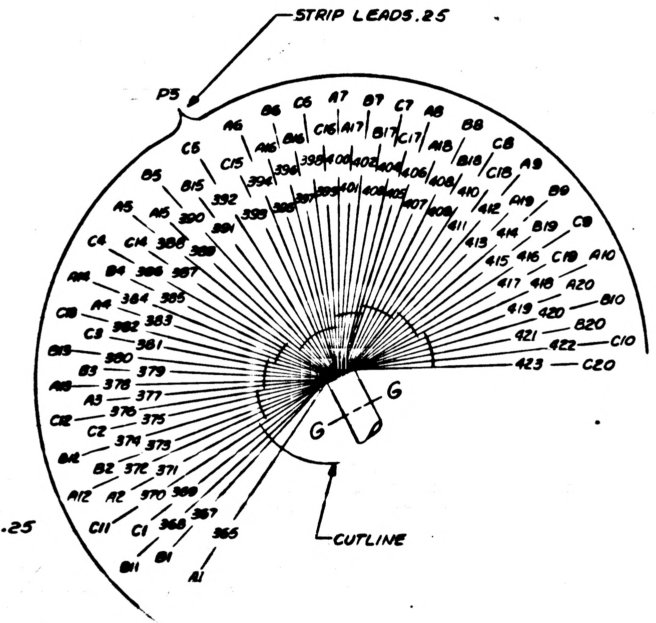
CODE IDENT NO	SIZE	NASA DRAWING NO
49956	J	1014461
SCALE 1/1	WT	SHEET 2 OF 5

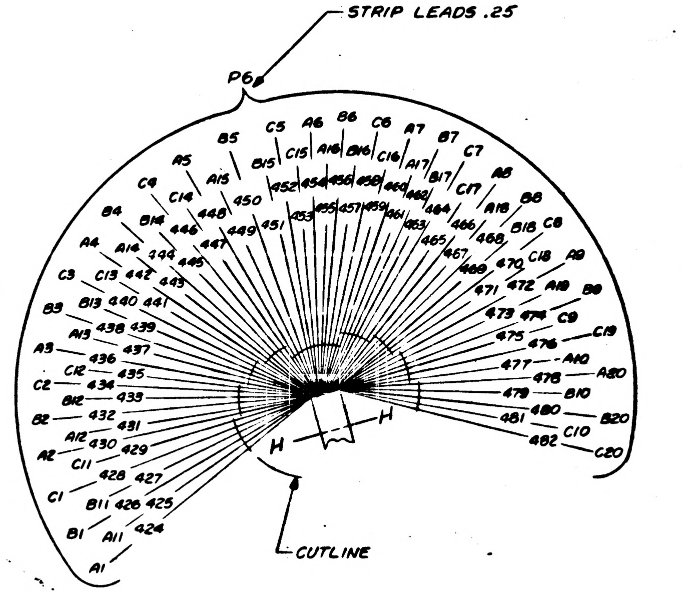
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

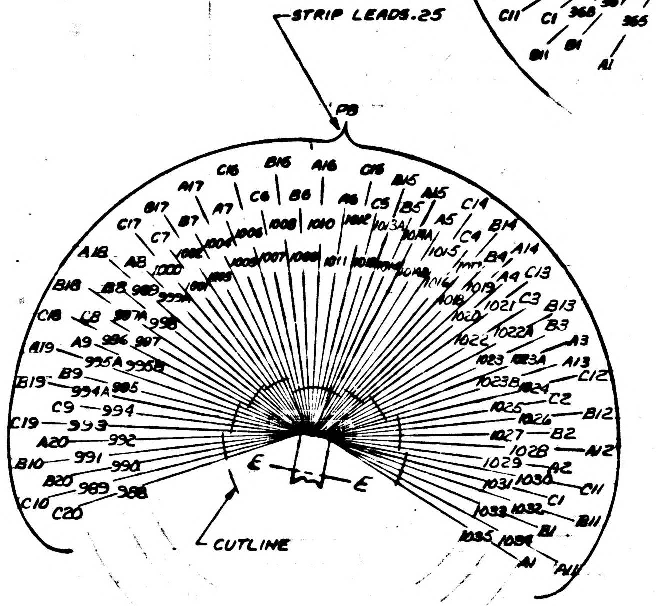
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5668C DR H Vanndell CHK	21 JAN 64	
B	CHANGED PER TDRR 06679 DR W. Brown CHK APPD	9 MAR 64	
F	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17522 DR J F McDonnell CHK APPD	21 APR 65	
G	CHANGED PER TDRR 1[illegible] DR CHK	26 June 65	

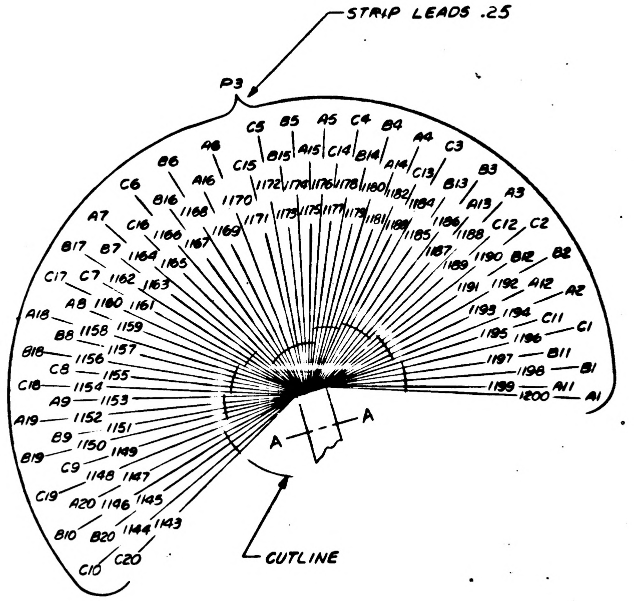

STRIP LEADS .25
P1
C
C
CUTLINE

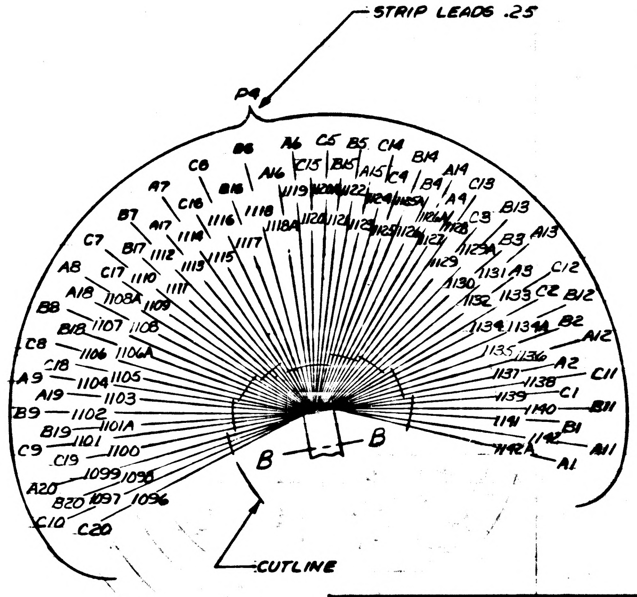

STRIP LEADS .25
P2
F
F
CUTLINE

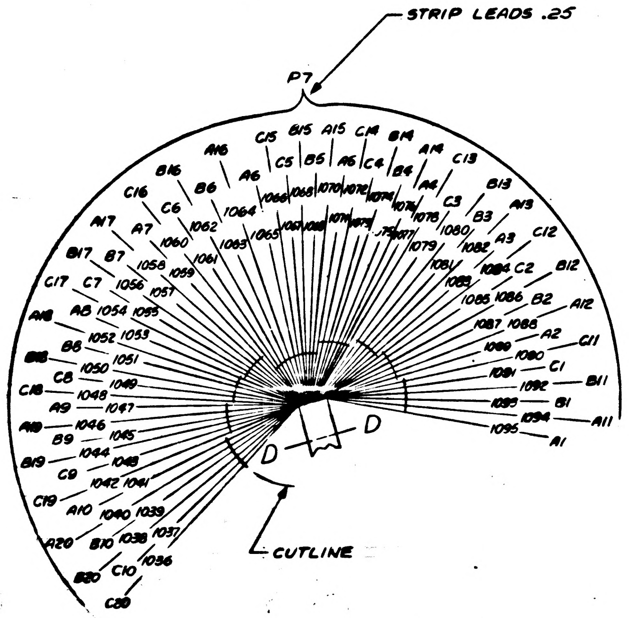

STRIP LEADS .25
P5
G
G
CUTLINE

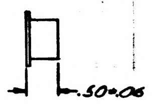

STRIP LEADS .25
P6
H
H
CUTLINE


STRIP LEADS .25
P8
E
E
CUTLINE


STRIP LEADS .25
P3
A
A
CUTLINE


STRIP LEADS .25
P4
B
B
CUTLINE


STRIP LEADS .25
P7
D
D
CUTLINE



BUSHING
1014461-1

NOTES
1. MAKE FROM MS39056-6
AS SHOWN

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
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FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 8-9-63
CHECKED A. Coggan 25 Sep 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

WIRING HARNESS BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO 49956
SIZE J
NASA DRAWING NO 1014461
SCALE 1/1
WT
SHEET 3 OF 5

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5668C DR H Swindell CHK W. J. Gifford	21 JAN 64	JJB
B	CHANGE PER TDRR 06679 DR. W. Brown CHK. APPD.	9 MAR 64	
D	CHANGED PER TDRR 10605 DR F Mahan CHK JCJ APPD	64	KCB
E	CHANGED PER TDRR 12829 DR J F McDowell CHK APPD	6 OCT 64	
F	UPGRADE TO CLASS A WITH CHANGE PER TDRR17522 DR J F McDowell CHK APPD	21 APR 65	
G	CHANGED PER TDRR 19929 DR CHK APPD	65	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	306	BLK	22	23	919	
	920				304	
	302				921	
	922				364	
	1143				795	
	796				1145	
	1147				797	
	798				1096	
	1098				791	
	792				1099	
	671				423	
	421				670	
	672				478	
	480				673	
	674				482	
	419				675	
	1036				546	
	545				1038	
	1040				550	
	549				988	
	990				548	
	547				992	
	793				97	
	363				923	
	921	BLK	22	23	361	
	2	RED	20	25	927	
	928				140	
	358				916	
	814				373	
	368	RED	20	25	785	
	803	ORN	20	26	119	
	95				790	
	248				917	
	918				308	
	1201				783	
	784	ORN	20	26	425	
	~~3~~	~~BLU~~			~~987A~~	
	6	WHT	22	14	922B	
	~~4~~	~~BLU~~			~~985~~	
	5	RED	20	25	922D	
	1108	WHT	22	14	1059	
	1050				1137	
	1129				432	
	434				317	
	325				403	
	376				258	
	275				991	
	989				344	
	330				416	
	428				1115	
	1114				995	
	1013				1112	
	1103				452	
	1118				1028	
	998				1104	
	1126				465	
	451				1134	
	1125				468	
	469				270	
	300				436	
	435				297	
	259				471	
	473				1105	
	1102				1066	
	1068				1132	
	1097				439	
	431				301	
	326				449	
	448				355	
	360				470	
	221				343	
	338				222	
	223				307	
	266				224	
	229				250	
	303				228	
	227				284	
	278				226	
	1211				342	
	333				1213	
	1215				339	
	334				1217	
	1219				340	
	331				1221	
	1223				337	
	332				1225	
	230				281	
	273				232	
	234				279	
	274				236	
	238				280	
	271				240	
	242				282	
	347	WHT	22	14	1212	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1214	WHT	22	14	311	
	348				1216	
	1218				312	
	345				1220	
	1222				309	
	346				1224	
	1226				310	
	285				231	
	233				249	
	288				235	
	237				251	
	287				239	
	241				252	
	286				243	
	245				247	
	350				189	
	180				318	
	277				51	
	42				315	
	283				198	
	171				316	
	295				60	
	33				313	
	289				207	
	162				255	
	69				290	
	256				24	
	216				299	
	153				253	
	305				78	
	15				254	
	1133				126	
	136				1106	
	1138				135	
	129				1131	
	353				1205	
	1204				357	
	328				85	
	1202				276	
	265				144	
	148				268	
	356				142	
	146				359	
	379				125	
	86				1152	
	1170				138	
	122				483	
	484				123	
	110				607	
	608				111	
	109				485	
	486				108	
	98				487	
	488				99	
	121				603	
	604				120	
	112				605	
	606				113	
	107				489	
	490				106	
	100				491	
	492				101	
	599				118	
	117				600	
	601				115	
	116				602	
	493				102	
	103				494	
	495				1203	
	104				496	
	595				105	
	183				596	
	597				55	
	45				598	
	497				193	
	174				498	
	499				64	
	36				500	
	591				202	
	165				592	
	593				73	
	27				594	
	501				211	
	156				502	
	503				82	
	18				504	
	587				220	
	186				588	
	589				176	
	48				590	
	505				38	
	195				506	
	507				167	
	57	WHT	22	14	508	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	583	WHT	22	14	29	
	204				584	
	585				158	
	66				586	
	509				20	
	213				510	
	511				149	
	75				512	
	579				11	
	187				580	
	581				178	
	49				582	
	513				40	
	196				514	
	515				169	
	58				516	
	575				31	
	205				576	
	577				160	
	67				578	
	517				22	
	214				518	
	519				151	
	76				572	
	573				13	
	188				574	
	520				179	
	50				521	
	570				41	
	197				571	
	522				170	
	59				523	
	524				32	
	206				567	
	568				161	
	68				569	
	525				23	
	215				526	
	527				152	
	77				528	
	563				14	
	190				564	
	565				181	
	52				566	
	529				43	
	199				530	
	531				172	
	61				532	
	559				34	
	208				560	
	561				163	
	70				562	
	533				25	
	217				534	
	535				154	
	79				536	
	555				16	
	191				556	
	557				182	
	53				558	
	537				44	
	200				538	
	539				173	
	62				540	
	551				35	
	209				552	
	553				164	
	71				554	
	541				26	
	218				542	
	543				155	
	80				544	
	545A				17	
	192				545B	
	545C				184	
	54				545D	
	545E				46	
	201				545F	
	608A				175	
	63				609	
	732				37	
	210				732A	
	610				166	
	72				611	
	612				28	
	~~219~~				~~513~~	
	~~728~~				~~157~~	
	~~81~~				~~729~~	
	~~730~~				~~73~~	
	39				731	
	614				185	
	177				615	
	616				47	
	30	WHT	22	14	617	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	724	WHT	22	14	194	
	168				725	
	726				56	
	21				727	
	618				203	
	159				619	
	620				65	
	12				621	
	720				212	
	150				721	
	722				74	
	90				723	
	622				91	
	92				623	
	624				93	
	143				625	
	716				141	
	88				717	
	718				89	
	87				719	
	626				139	
	83				627	
	628				145	
	94				629	
	712				96	
	84				713	
	714				147	
	1210				715	
	630				1209	
	1208				631	
	632				1207	
	1				633	
	708				3	
	10				709	
	710				7	
	8				711	
	634				132	
	130				635	
	636				137	
	134				637	
	704				133	
	131				705	
	706				1092	
	1078				707	
	638				463	
	1086				639	
	4	WHT	22	14	4A	
	4A	BLACK	22	23	922A	
	4B	WHT	22	14	922C	
	860A	ORN	20	26	1204A	
	926	ORN	20	26	246	
	9	WHT	22	14	1203A	
	114	WHT	22	14	1206	
	127	WHT	22	14	1208A	
	~~1201~~	~~ORN~~	~~20~~	~~26~~	~~365~~	
	124	ORN	20	26	119	
	128	WHT	22	14	1125A	
	1129A	WHT	22	14	1022A	

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN C LaPort DATE 3-4-63
CHECKED 25 Sep 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO 49956
SIZE J
NASA DRAWING NO 1014461
SCALE NONE
WT
SHEET 4 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014461 G

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR 04		
A	CLASS II CHANGE PER RD-R5668C DR H Swindell CHK W. J. Giffen APPD	21 JAN 64	
B	CHANGED PER TDRR 06679 DR W BROWN CHK J·J J·W APPD	9 MAR 64	
F	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17522 DR J J McDaniel CHK APPD	21 APR 65	
G	CHANGED PER TDRR 19929 DR CHK G. APPD	26 June 65	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	640	WHITE	22	14	999	
	1057				641	
	700				1054	
	1084				701	
	702				1055	
	1024				703	
	642				1021	
	996				643	
	644				1044	
	1094				697	
	698				365	
	462				699	
	645				1004	
	1089				646	
	695				1029	
	1034				696	
	647				1005	
	1002				648	
	649				1027	
	1032				692	
	693				1003	
	1000				694	
	650				1025	
	1030				651	
	652				1001	
	1058				653	
	688				1088	
	1035				689	
	690				993	
	458				691	
	654				1026	
	410				655	
	656				1052	
	429				657	
	684				464	
	685				1046	
	426				686	
	687				371	
	406				658	
	659				377	
	407				660	
	661				372	
	409				680	
	681				379	
	408				682	
	683				374	
	411				662	
	663				380	
	381				664	
	665				375	
	404				676	
	677				382	
	678				1012	
	1014				679	
	666				430	
	400				667	
	668				437	
	401				669	
	670A				399	
	467				670B	
	670C				402	
	424				670D	
	670E				367	
	861				1142	
	1136				862	
	983				1100	
	1107				984	
	863				260	
	327				864	
	865				362	
	298				866	
	979				321	
	351				980	
	981				322	
	352				982	
	867				319	
	349				868	
	869				320	
	294				870	
	975				264	
	1126A				796A	
	1120A				796B	
	1118A				796C	
	1108A				796D	
	1106A	WHITE	22	14	796E	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	293	WHITE	22	14	976	
	977				263	
	291				978	
	871				261	
	292				872	
	873				262	
	1135				874	
	971				1130	
	972				323	
	324				973	
	974				329	
	335				875	
	876				336	
	1127				877	
	878				1124	
	1128				967	
	968				296	
	354				969	
	970				341	
	879				1117	
	1111				880	
	881				1119	
	1116				882	
	963				1122	
	1141				964	
	965				1123	
	1113				966	
	883				1121	
	1101				884	
	885				1139	
	1110				886	
	959				1109	
	1120				960	
	961				1140	
	962				269	
	267				888	
	889				314	
	890				1196	
	1190				955	
	956				1184	
	1178				957	
	958				1172	
	1166				891	
	892				1161	
	1155				893	
	894				1144	
	1195				951	
	952				1189	
	1183				953	
	954				1177	
	1171				895	
	896				1165	
	1154				897	
	948				1148	
	1198				949	
	950				1192	
	1186				898	
	899				1180	
	1168				946	
	947				1157	
	1151				900	
	901				1146	
	1197				902	
	943				1179	
	1173				944	
	945				1167	
	1162				903	
	904				1156	
	1193				905	
	906				1181	
	1175				939	
	940				1149	
	1160				941	
	942				1159	
	1153				907	
	908				1169	
	1174				909	
	910				1163	
	1185				935	
	936				1150	
	1134A				787	
	1101A				796F	
	1023B				796G	
	1014A				796H	
	1013A	WHITE	22	14	796J	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1194	WHITE	22	14	937	
	938				1182	
	1187				911	
	912				1158	
	1191				913	
	914				1200	
	1188				931	
	932				1176	
	1164				933	
	934				1199	
	257				915	
	806				422	
	369				786	
	807				433	
	427				808	
	809				1093	
	1091				810	
	804				1056	
	1023				805	
	733				479	
	734				1085	
	1079				859	
	860				1067	
	1049				735	
	736				1043	
	1037				737	
	738				397	
	855				1090	
	1019				856	
	857				1020	
	1010				858	
	739				1011	
	1017				740	
	741				1018	
	1008				742	
	851				1007	
	1033				852	
	853				1015	
	1016				854	
	743				1006	
	1065				744	
	745				1077	
	1053				746	
	847				1064	
	1062				848	
	849				1074	
	1075				850	
	747				1063	
	1060				748	
	749				1073	
	1072				750	
	843				1061	
	1048				844	
	845				1076	
	1042				846	
	751				1081	
	1045				752	
	753				1051	
	1069				754	
	839				1009	
	1095				840	
	841				1083	
	1071				842	
	755				1031	
	1022				756	
	757				997	
	1047				758	
	835				1041	
	1082				836	
	837				1070	
	994				838	
	759				446	
	459				760	
	761				457	
	447				762	
	831				444	
	456				832	
	833				454	
	445				834	
	763	WHITE	22	14	442	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	455	WHITE	22	14	764	
	765				440	
	443				766	
	827				481	
	475				828	
	829				441	
	453				830	
	767				476	
	438				768	
	769				450	
	385				824	
	825				398	
	396				826	
	770				395	
	383				771	
	822				384	
	394				823	
	772				474	
	370				773	
	774				405	
	392				819	
	820				417	
	414				821	
	775				420	
	393				776	
	777				415	
	412				778	
	815				418	
	390				816	
	818				466	
	472				779	
	780				389	
	386				781	
	782				387	
	477				811	
	812				391	
	388				213	
	794				460	
	461				799	
	800				1087	
	1039				901	
	902				1080	
	244				272	
	413				817	
	225				1142A	
	995B				19	
	999A				81	
	1014B				157	
	1023A				219	
	997A				796K	
	995A				796L	
	994A	WHITE	22	14	796M	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN J. Spinney DATE 8-3-63
CHECKED C. Caggiano 25 Sept 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL W. J. Giffen
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO	SIZE	NASA DRAWING NO
49956	J	1014461
SCALE NONE	WT	SHEET 5 OF 5

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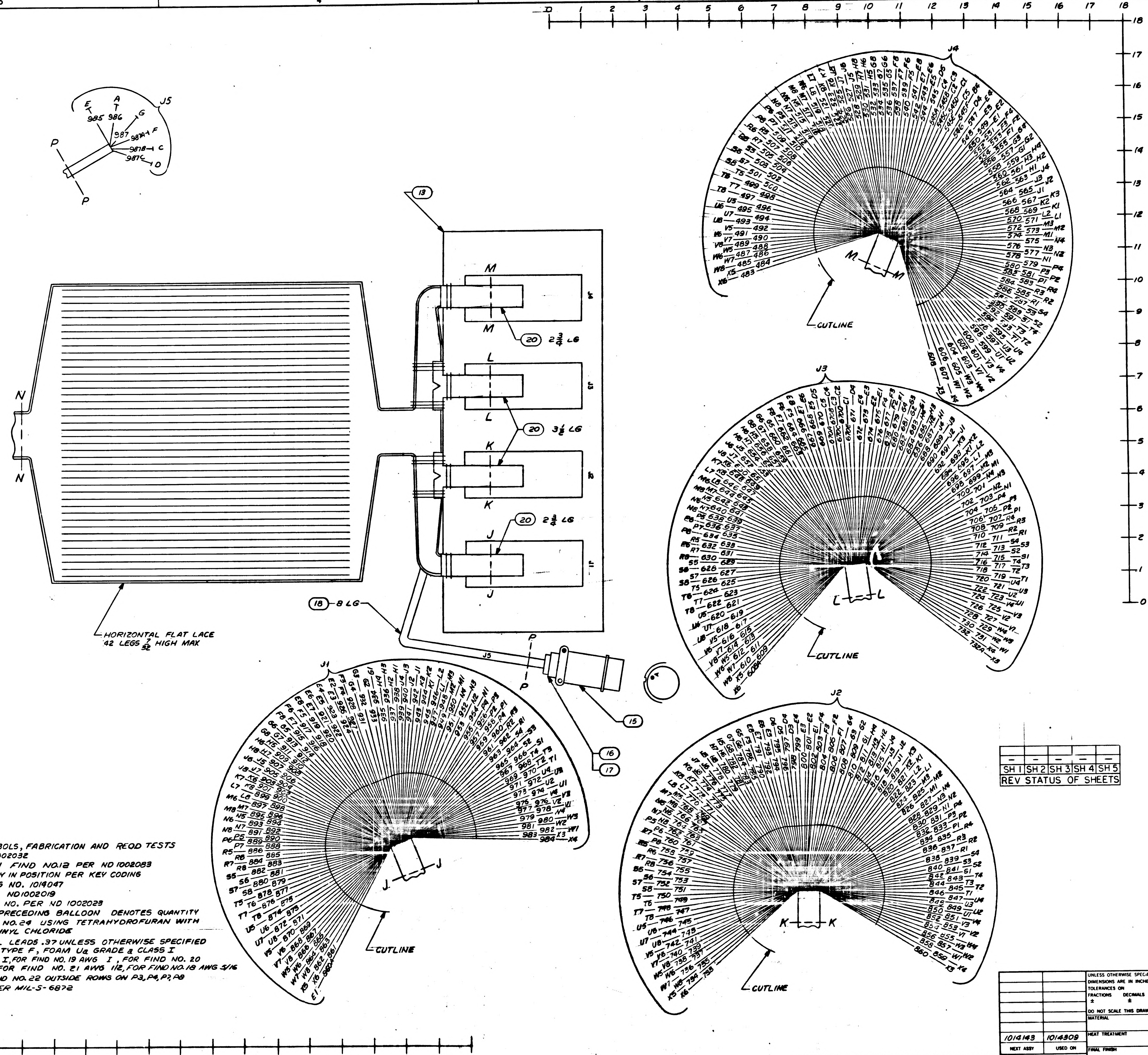
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 04139	10-3	



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04139 DATE 10/4/63

–	–	–	–	–
SH 1	SH 2	SH 3	SH 4	SH 5
REV STATUS OF SHEETS				

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND1002032
2. FILL WITH FIND NO.12 PER ND 1002083
3. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
4. MARK PER ND1002019
5 MARK SER NO. PER ND 1002023
6. NUMBER PRECEDING BALLOON DENOTES QUANTITY
7. BOND FIND NO.24 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
8. STRIP ALL LEADS .37 UNLESS OTHERWISE SPECIFIED
9. MIL-I-631 TYPE F, FOAM Ua GRADE a CLASS I CATEGORY I, FOR FIND NO. 19 AWG I, FOR FIND NO. 20 AWG 3/4, FOR FIND NO. 21 AWG 1/2, FOR FIND NO. 18 AWG 5/16
10. INSTALL FIND NO. 22 OUTSIDE ROWS ON P3, P4, P7, P8
11. SOLDER PER MIL-S-6872

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
–	1014440	SCHEMATIC	REF
AR	1014341-2	WIRE, ELECTRICAL	27
AR	ND1002181 TYPE I, CL I	WIRE, ELEC AWG 20, ORN	26
AR	ND1002181 TYPE I, CL I	WIRE, ELEC AWG 20, RED	25
1	1014422-5	BANDMARKER	24
AR	ND1002181 TYPE I, CL I	WIRE, ELEC AWG 20 BLK	23
80	1014310	INSULATOR, CONTACT	22
AR	SEE NOTE 9	SLEEVING	21
AR	SEE NOTE 9	SLEEVING	20
AR	SEE NOTE 9	SLEEVING	19
AR	SEE NOTE 9	SLEEVING	19
AR	SEE NOTE 9	SLEEVING	18
1	MS39056-4	BUSHING CABLE ADAPTER	17
1	MS39056-3	BUSHING CABLE ADAPTER	16
1	MS3128F-16-8P	CONNECTOR, RECEPTACLE	15
AR	ND1002181 TYPE I, CL I	WIRE ELEC. AWG 22 WHT	14
1	1014308	PLATE AND CONNECTOR	13
AR	1006904	EPOXY RESIN	12
8	1014461-1	BUSHING	11
160	1006987	INSUL CONTACT ELECT, MALE CRIMP	10
240	1006995-1	CONTACT ELECTRICAL, MALE CRIMP	9
240	1010380	INSULATOR BUSHING FEMALE	8
240	1010379-1	CONTACT, ELECTRICAL FEMALE	7
16	1014032	RECEPTACLE, INDEXING	6
16	1006997	WASHER, PLAIN FLAT	5
16	MS35337-79	WASHER, LOCK	4
16	1006998-1	SCREW, CAPTIVE	3
8	1014000-4	FRAME, MODULE	2
8	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014143	1014309

APPLICATION

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MATERIAL
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FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 8-9-63
CHECKED A. Cognino 25 Sep 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 10/24/63
MIT APPROVAL
MIT APPROVAL 10/4/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014461
SCALE 1/1
WT
SHEET 1 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
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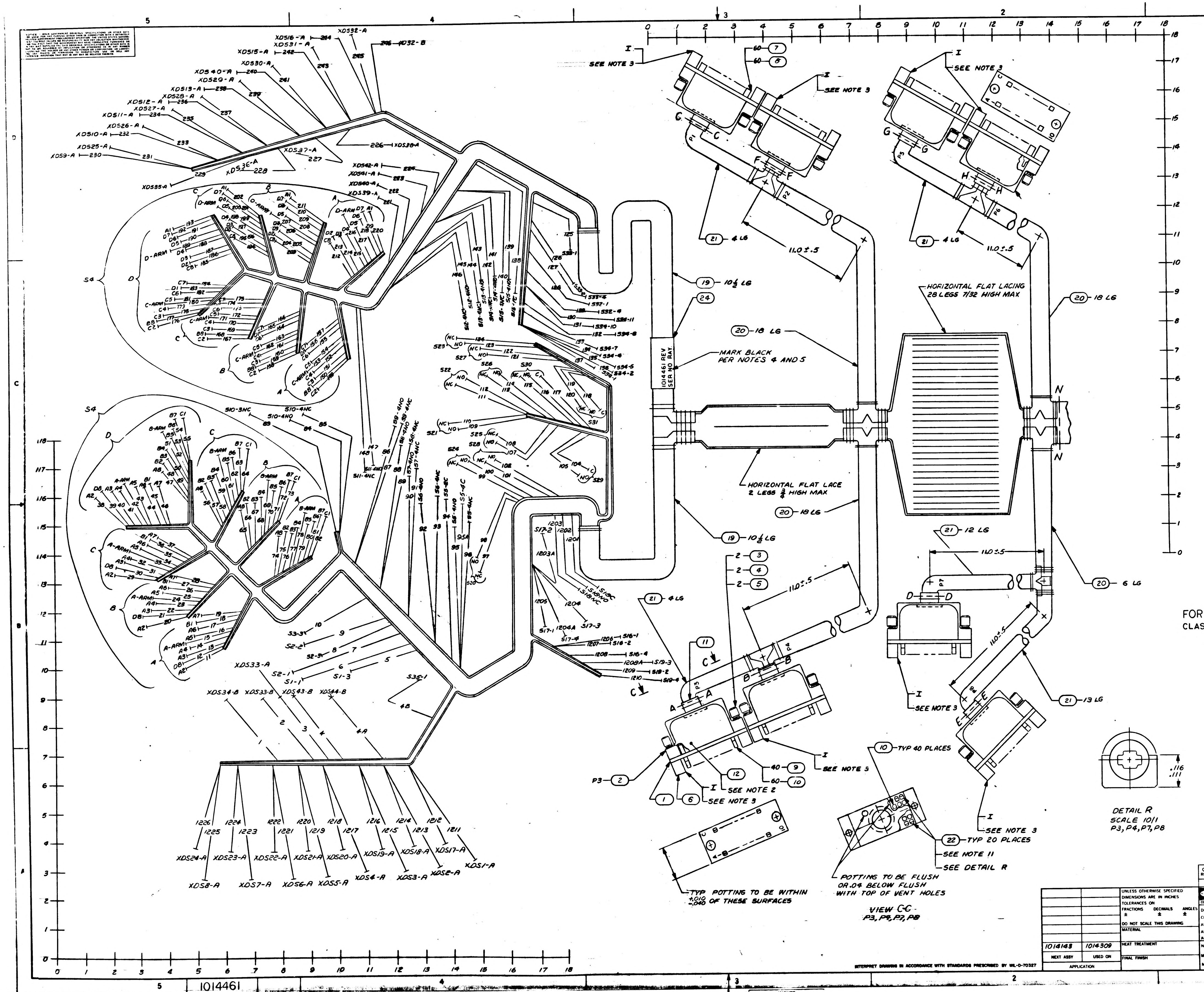
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR [illegible]	[illegible]	


SEE NOTE 3
60 — 7
60 — 8
G
C
F
H
P1
P2
P5
P6
21 — 4 LG
11.0 ± .5
19 — 10½ LG
24
20 — 18 LG
MARK BLACK PER NOTES 4 AND 5
1014461 REV SER NO RAY
HORIZONTAL FLAT LACING 28 LEGS 7/32 HIGH MAX
HORIZONTAL FLAT LACE 2 LEGS ¾ HIGH MAX
20 — 18 LG
N
21 — 12 LG
20 — 6 LG
21 — 13 LG
2 — 3
2 — 4
2 — 5
11
C
P3
P4
P7
P8
A
B
D
E
40 — 9
60 — 10
P3 — 2
12
1
6
SEE NOTE 2
SEE NOTE 3
10 — TYP 40 PLACES
22 — TYP 20 PLACES
SEE NOTE 11
SEE DETAIL R
POTTING TO BE FLUSH OR .04 BELOW FLUSH WITH TOP OF VENT HOLES
VIEW C-C P3, P4, P7, P8
TYP POTTING TO BE WITHIN +.010 -.040 OF THESE SURFACES
.116 .111
DETAIL R SCALE 10/1 P3, P4, P7, P8
S4
D-ARM
C-ARM
B-ARM
A-ARM
XDS9-A
XDS10-A
XDS11-A
XDS12-A
XDS13-A
XDS15-A
XDS16-A
XDS25-A
XDS26-A
XDS27-A
XDS28-A
XDS29-A
XDS30-A
XDS31-A
XDS32-A
XDS35-A
XDS36-A
XDS37-A
XDS38-A
XDS39-A
XDS40-A
XDS41-A
XDS42-A
XDS33-A
XDS34-B
XDS33-B
XDS43-B
XDS44-B
XDS1-A
XDS2-A
XDS3-A
XDS4-A
XDS5-A
XDS6-A
XDS7-A
XDS8-A
XDS17-A
XDS18-A
XDS19-A
XDS20-A
XDS21-A
XDS22-A
XDS23-A
XDS24-A
XDS32-B
S10-3NC
S10-4NC
S10-4NO
S11-4NC
S11-4NO
S17-1
S17-2
S17-3
S17-4
S16-1
S16-2
S16-4
S19-2
S19-3
S19-4
S20
S21
S22
S23
S24
S25
S26
S27
S28
S29
S30
S31
S33-1
S33-6
S34-2
S34-5
S34-7
S34-8
S34-10
S34-11
S35-1
S1-1
S1-3
S2-1
S2-2
S3-3
NC
NO
C
FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 24137 DATE 10/24/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014143	1014309
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
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DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 8-9-63
CHECKED [illegible] 23 Aug 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014461
SCALE 1/1
WT
SHEET 2 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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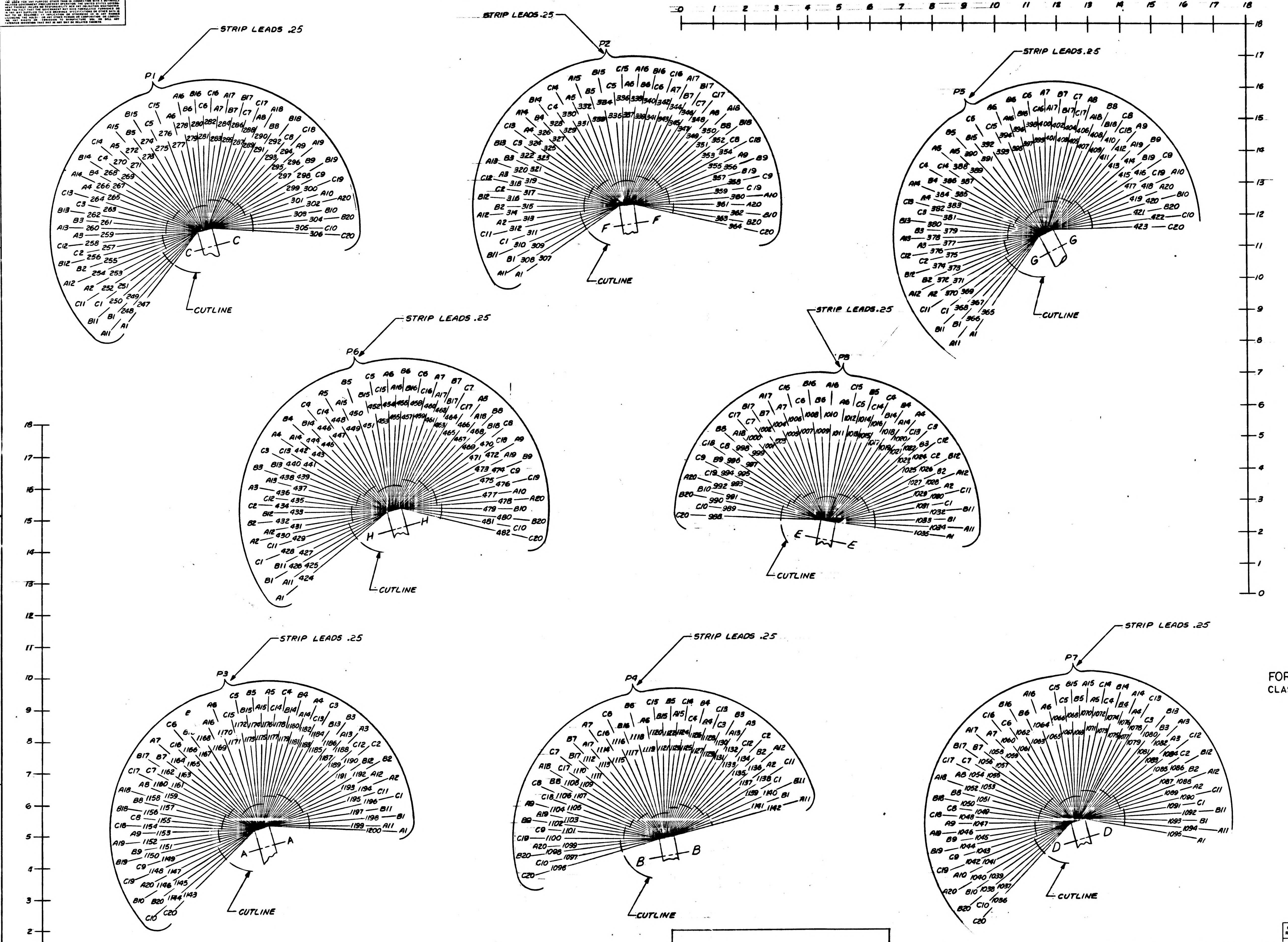
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 24139	10/24/63	



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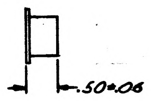
CLASS B RELEASE TDRR NO 24139 DATE 10/24/63



BUSHING
1014461-1

NOTES
1. MAKE FROM MS39056-6 AS SHOWN

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014143	1014309
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APPLICATION	

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RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 8-9-63
CHECKED A. Coggans 25 Sep 63
APPROVAL C. B. Bohn Jr.
APPROVAL
APPROVAL
NASA APPROVAL 10/24/63
MIT APPROVAL 24 Oct 63
MIT APPROVAL 10/24/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014461
SCALE 1/1
WT
SHEET 3 OF 5

1014461

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR ..	..	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	306	BLK	22	23	919	
	920				304	
	302				921	
	922				364	
	1143				795	
	796				1145	
	1147				797	
	798				1096	
	1098				791	
	792				1099	
	671				423	
	421				670	
	672				478	
	480				673	
	674				482	
	419				675	
	1036				546	
	545				1038	
	1040				550	
	549				988	
	990				548	
	547				992	
	793				94	
	363				923	
	924	BLK	22	23	361	
	2	RED	20	25	927	
	928				138	
	358				916	
	814				373	
	368	RED	20	25	785	
	803	ORN	20	26	118	
	95A				790	
	248				917	
	918				308	
	1201				783	
	784	ORN	20	26	425	
	4	BLU	20	27	987A	
	6	WHT			987B	
	4	BLU	20	27	985	
	5	WHT			986	
	1108	WHT	22	14	1059	
	1050				1137	
	1129				432	
	434				317	
	325				403	
	376				258	
	275				991	
	989				344	
	330				416	
	428				1115	
	1114				995	
	1013				1112	
	1103				452	
	1118				1028	
	998				1104	
	1126				465	
	451				1134	
	1125				468	
	469				270	
	300				436	
	435				297	
	259				471	
	473				1105	
	1102				1066	
	1068				1132	
	1097				439	
	431				301	
	326				449	
	448				355	
	360				470	
	221				343	
	338				222	
	223				307	
	266				224	
	229				250	
	303				228	
	227				284	
	278				226	
	1211				342	
	333				1213	
	1215				339	
	334				1217	
	1219				340	
	331				1221	
	1223				337	
	332				1225	
	230				281	
	273				232	
	234				279	
	274				236	
	238				280	
	271				240	
	242				282	
	347	WHT	22	14	1212	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1214	WHT	22	14	311	
	348				1216	
	1218				312	
	345				1220	
	1222				309	
	346				1224	
	1226				310	
	285				231	
	233				249	
	288				235	
	237				251	
	287				239	
	241				252	
	286				243	
	245				247	
	350				189	
	180				318	
	277				51	
	42				315	
	283				198	
	171				316	
	295				60	
	33				313	
	289				207	
	162				255	
	69				290	
	256				24	
	216				299	
	153				253	
	305				78	
	15				254	
	1133				127	
	136				1106	
	1138				135	
	129				1131	
	353				1205	
	1204				357	
	328				85	
	1202				276	
	265				144	
	148				268	
	356				142	
	146				359	
	379				126	
	86				1152	
	1170				139	
	123				483	
	484				124	
	112				607	
	608				111	
	109				485	
	486				110	
	98				487	
	488				97	
	121				603	
	604				122	
	114				605	
	606				113	
	107				489	
	490				108	
	100				491	
	492				99	
	599				119	
	120				600	
	601				116	
	115				602	
	493				102	
	101				494	
	495				1203	
	105				496	
	595				104	
	183				596	
	597				55	
	45				598	
	497				193	
	174				498	
	499				64	
	36				500	
	591				202	
	165				592	
	593				73	
	27				594	
	501				211	
	156				502	
	503				82	
	18				504	
	587				220	
	186				588	
	589				176	
	48				590	
	505				38	
	195				506	
	507				167	
	57	WHT	22	14	508	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	583	WHT	22	14	29	
	204				584	
	585				158	
	66				586	
	509				20	
	213				510	
	511				149	
	75				512	
	579				11	
	187				580	
	581				178	
	49				582	
	513				40	
	196				514	
	515				169	
	58				516	
	575				31	
	205				576	
	577				160	
	67				578	
	517				22	
	214				518	
	519				151	
	76				572	
	573				13	
	188				574	
	520				179	
	50				521	
	570				41	
	197				571	
	522				170	
	59				523	
	524				32	
	206				567	
	568				161	
	68				569	
	525				23	
	215				526	
	527				152	
	77				528	
	563				14	
	190				564	
	565				181	
	52				566	
	529				43	
	199				530	
	531				172	
	61				532	
	559				34	
	208				560	
	561				163	
	70				562	
	533				25	
	217				534	
	535				154	
	79				536	
	555				16	
	191				556	
	557				182	
	53				558	
	537				44	
	200				538	
	539				173	
	62				540	
	551				35	
	209				552	
	553				164	
	71				554	
	541				26	
	218				542	
	543				155	
	80				544	
	545A				17	
	192				545B	
	545C				184	
	54				545D	
	545E				46	
	201				545F	
	608A				175	
	63				609	
	732				37	
	210				732A	
	610				166	
	72				611	
	612				28	
	219				613	
	728				157	
	81				729	
	730				19	
	39				731	
	614				185	
	177				615	
	616				47	
	30	WHT	22	14	617	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	724	WHT	22	14	194	
	168				725	
	726				56	
	21				727	
	618				203	
	159				619	
	620				65	
	12				621	
	720				212	
	150				721	
	722				74	
	90				723	
	622				91	
	92				623	
	624				93	
	143				625	
	716				141	
	88				717	
	718				89	
	87				719	
	626				140	
	83				627	
	628				145	
	95				629	
	712				96	
	84				713	
	714				147	
	1210				715	
	630				1209	
	1208				631	
	632				1207	
	1				633	
	708				3	
	10				709	
	710				7	
	8				711	
	634				132	
	130				635	
	636				137	
	134				637	
	704				133	
	131				705	
	706				1092	
	1078				707	
	638				463	
	1086				639	
	4	WHT	22	14	4A	
	4A	BLU	20	27	987C	
	4B	WHT			987	
	860A	ORN	20	26	1204A	
	926	ORN	20	26	246	
	9	WHT	22	14	1203A	
	117	WHT	22	14	1206	
	128	WHT	22	14	1208A	

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CLASS B RELEASE TDRR NO. 04 3 DATE ..

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
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1014143	1014309	
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN C. LaPort DATE 3 .. 63
CHECKED .. 25 Sep 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS, BRANCHED
PROGRAMMER AND MONITOR

CODE IDENT NO.	SIZE	NASA DRAWING NO.
——	J	1014461
SCALE NONE	WT	SHEET 4 OF 5

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR 04-39		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	640	WHITE	22	14	999	
	1057				641	
	700				1054	
	1084				701	
	702				1055	
	1024				703	
	642				1021	
	996				643	
	644				1044	
	1094				697	
	698				365	
	462				699	
	645				1004	
	1089				646	
	695				1029	
	1034				696	
	647				1005	
	1002				648	
	649				1027	
	1032				692	
	693				1003	
	1000				694	
	650				1025	
	1030				651	
	652				1001	
	1058				653	
	688				1088	
	1035				689	
	690				993	
	458				691	
	654				1026	
	410				655	
	656				1052	
	429				657	
	684				464	
	685				1046	
	426				686	
	687				371	
	406				658	
	659				377	
	407				660	
	661				372	
	409				680	
	681				378	
	408				682	
	683				374	
	411				662	
	663				380	
	381				664	
	665				375	
	404				676	
	677				382	
	678				1012	
	1014				679	
	666				430	
	400				667	
	668				437	
	401				669	
	670A				399	
	467				670B	
	670C				402	
	424				670D	
	670E				367	
	861				1142	
	1136				862	
	983				1100	
	1107				984	
	863				260	
	327				864	
	865				362	
	298				866	
	979				321	
	351				980	
	981				322	
	352				982	
	867				319	
	349				868	
	869				320	
	294				870	
	975	WHITE	22	14	264	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	293	WHITE	22	14	976	
	977				263	
	291				978	
	871				261	
	292				872	
	873				262	
	1135				874	
	971				1130	
	972				323	
	324				973	
	974				329	
	335				875	
	876				336	
	1127				877	
	878				1124	
	1128				967	
	968				296	
	354				969	
	970				341	
	879				1117	
	1111				880	
	881				1119	
	1116				882	
	963				1122	
	1141				964	
	965				1123	
	1113				966	
	883				1121	
	1101				884	
	885				1139	
	1110				886	
	959				1109	
	1120				960	
	961				1140	
	962				269	
	267				888	
	889				314	
	890				1196	
	1190				955	
	956				1184	
	1178				957	
	958				1172	
	1166				891	
	892				1161	
	1155				893	
	894				1144	
	1195				951	
	952				1189	
	1183				953	
	954				1177	
	1171				895	
	896				1165	
	1154				897	
	948				1148	
	1198				949	
	950				1192	
	1186				898	
	899				1180	
	1168				946	
	947				1157	
	1151				900	
	901				1146	
	1197				902	
	943				1179	
	1173				944	
	945				1167	
	1162				903	
	904				1156	
	1193				905	
	906				1181	
	1175				939	
	940				1149	
	1160				941	
	942				1159	
	1153				907	
	908				1169	
	1174				909	
	910				1163	
	1185				935	
	936	WHITE	22	14	1150	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1194	WHITE	22	14	937	
	938				1182	
	1187				911	
	912				1158	
	1191				913	
	914				1200	
	1188				931	
	932				1176	
	1164				933	
	934				1199	
	257				915	
	806				422	
	369				786	
	807				433	
	427				808	
	809				1093	
	1091				810	
	804				1056	
	1023				805	
	733				479	
	734				1085	
	1079				859	
	860				1067	
	1049				735	
	736				1043	
	1037				737	
	738				397	
	855				1090	
	1019				856	
	857				1020	
	1010				858	
	739				1011	
	1017				740	
	741				1018	
	1008				742	
	851				1007	
	1033				852	
	853				1015	
	1016				854	
	743				1006	
	1065				744	
	745				1077	
	1053				746	
	847				1064	
	1062				848	
	849				1074	
	1075				850	
	747				1063	
	1060				748	
	749				1073	
	1072				750	
	843				1061	
	1048				844	
	845				1076	
	1042				846	
	751				1081	
	1045				752	
	753				1051	
	1069				754	
	839				1009	
	1095				840	
	841				1083	
	1071				842	
	755				1031	
	1022				756	
	757				997	
	1047				758	
	835				1041	
	1082				836	
	837				1070	
	994				838	
	759				446	
	459				760	
	761				457	
	447				762	
	831				444	
	456				832	
	833				454	
	445				834	
	763	WHITE	22	14	442	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	455	WHITE	22	14	764	
	765				440	
	443				766	
	827				481	
	475				828	
	829				441	
	453				830	
	767				476	
	438				768	
	769				450	
	385				824	
	825				398	
	396				826	
	770				395	
	383				771	
	822				384	
	394				823	
	772				474	
	370				773	
	774				405	
	392				819	
	820				417	
	414				821	
	775				420	
	393				776	
	777				415	
	412				778	
	815				418	
	390				816	
	818				466	
	472				779	
	780				389	
	386				781	
	782				387	
	477				811	
	812				391	
	388				813	
	794				460	
	461				799	
	800				1087	
	1039				801	
	802				1080	
	244				272	
	413	WHITE	22	14	817	

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SCALE NONE WT SHEET 5 OF 5

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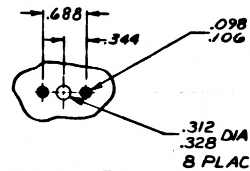
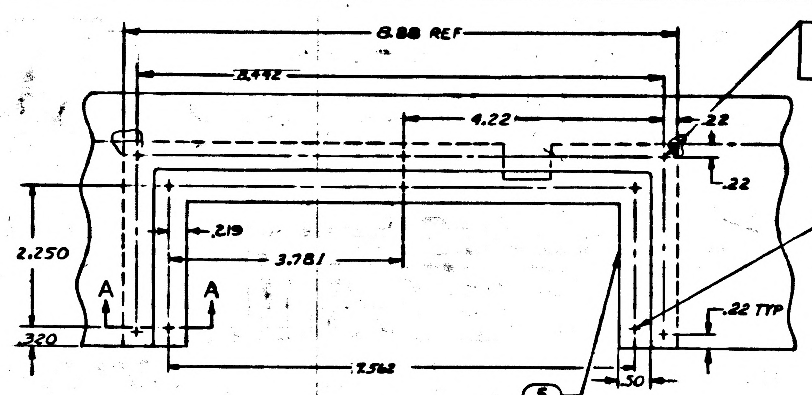
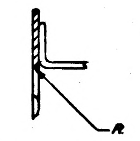
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TORR 14137	[illegible]	[illegible]
A	CLASS II CHANGE PER RD-R 5690 DR [illegible] CHK [illegible] APPD [illegible]	[illegible]	[illegible]
B	CLASS II CHANGE PER RD-R5712A DR Wheeler CHK [illegible] APPD [illegible]	10 FEB 64	[illegible]
C	CHANGED PER TORR 10099 DR [illegible] CHK [illegible] APPD. [illegible]	[illegible] 64	[illegible]


.688
.344
.098 / .106 DIA CSK 100° TO .184 / .190 DIA
2 HOLES
.312 / .328 DIA
8 PLACES

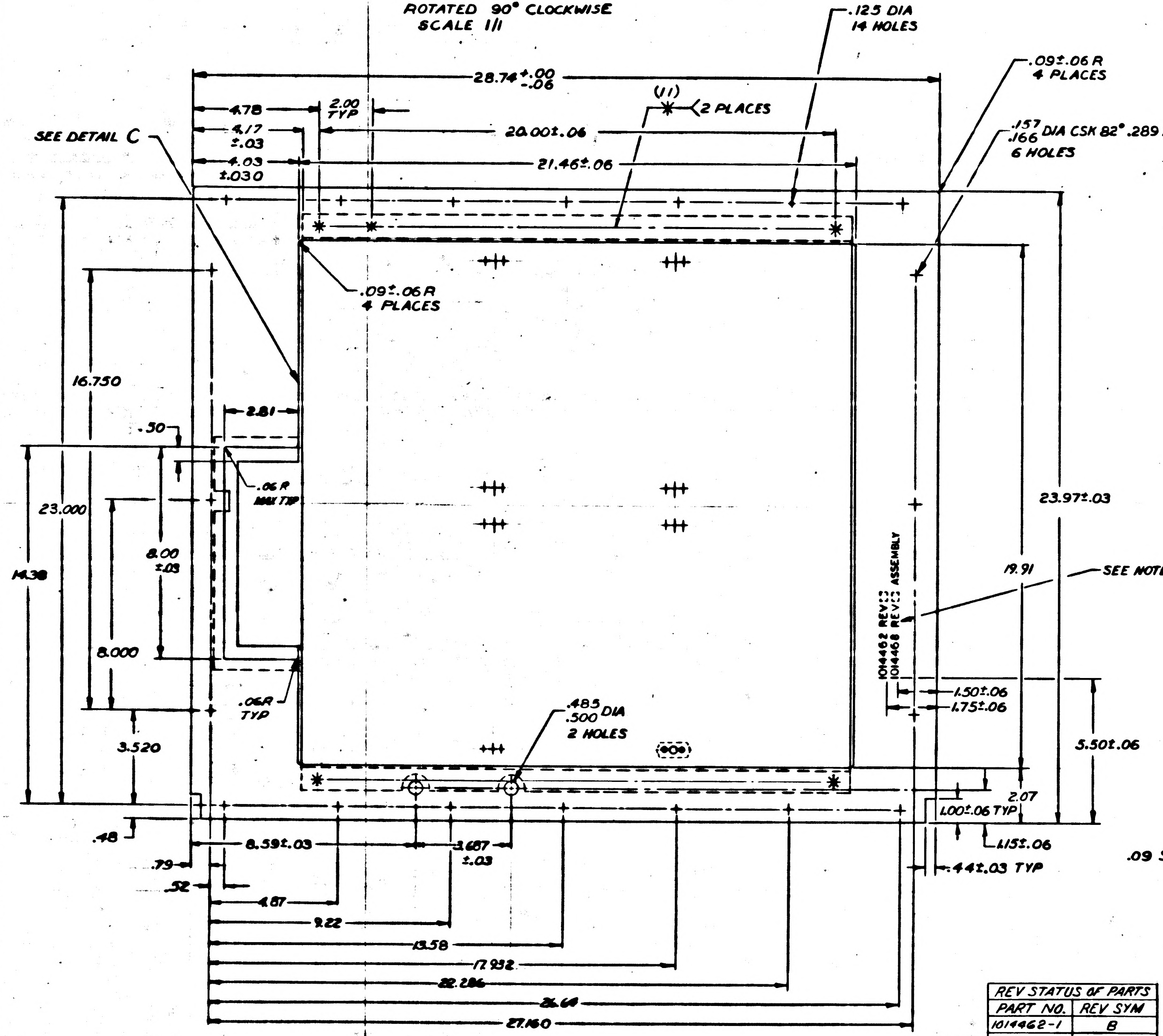
DETAIL B
SCALE 1/1

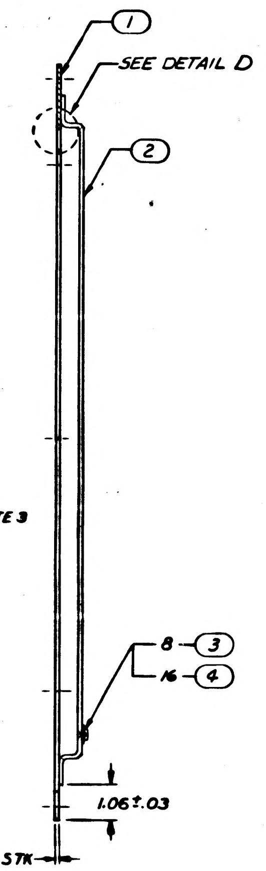

8.88 REF
8.442
4.22
.22
.22
.129 / .133 DIA THRU CSK NEAR SIDE
.229 / .235 DIA X 100° 5 HOLES
5 – 7
2.250
.320
A
A
2.19
3.781
.290 / .293 DIA
5 HOLES
.22 TYP
7.562
.50
5

DETAIL C
ROTATED 90° CLOCKWISE
SCALE 1/1



DETAIL D
SCALE 1/1


.125 DIA
14 HOLES
28.74 +.00 / -.06
.09±.06 R
4 PLACES
4.78
2.00 TYP
(1)
2 PLACES
4.17 ±.03
20.00±.06
.157 / .166 DIA CSK 82° .289 DIA
6 HOLES
SEE DETAIL C
4.03 ±.030
21.46±.06
.09±.06 R
4 PLACES
16.750
2.81
.50
.06 R MAX TYP
23.000
14.38
8.00 ±.03
8.000
.06 R TYP
3.520
.48
.79
.52
.485 / .500 DIA
2 HOLES
23.97±.03
19.91
SEE NOTE 3
1014462 REV
1014468 REV
ASSEMBLY
1.50±.06
1.75±.06
5.50±.06
2.07
1.00±.06 TYP
1.15±.06
.44±.03 TYP
8.59±.03
3.687 ±.03
4.87
9.22
13.58
17.932
22.286
26.64
27.160

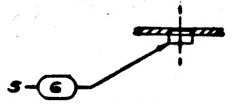

1
SEE DETAIL D
2
8 – 3
16 – 4
1.06±.03
.09 STK

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 14137 DATE 11/4/63

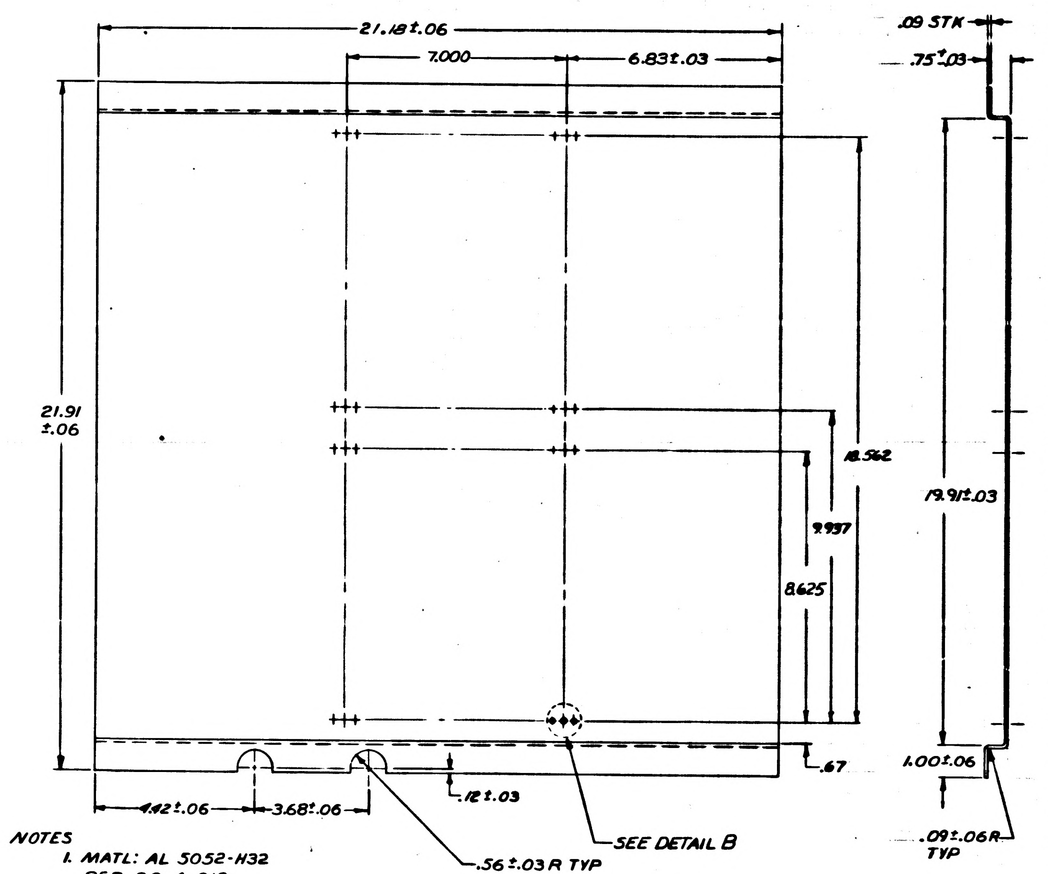
REV STATUS OF PARTS	
PART NO.	REV SYM
1014462-1	B
1014462-2	A
1014462-3	B

(1)
NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. BREAK SHARP EDGES.

ASSY NOTES
1. WELD PER MIL-W 6858
2. CHROMATE TREAT PER MIL-C-5541
3. MARK 1/8 HIGH BLACK PER ND 1002019
4. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES



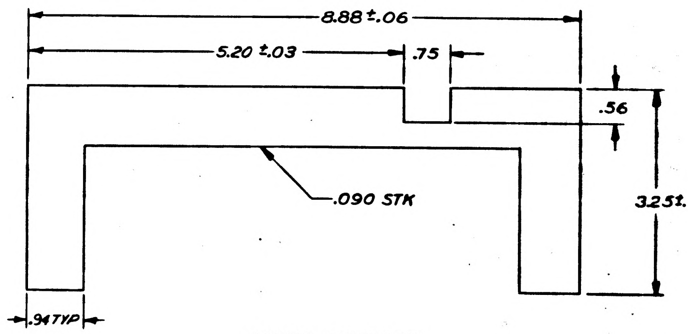
PARTIAL SECTION A-A
SCALE 1/1


21.18±.06
7.000
6.83±.03
.09 STK
.75±.03
21.91 ±.06
18.562
9.937
8.625
19.91±.03
1.00±.06
.67
.12±.03
4.42±.06
3.68±.06
SEE DETAIL B
.56±.03 R TYP
.09±.06 R TYP

NOTES
1. MATL: AL 5052-H32 PER QQ-A-318
2. BREAK SHARP EDGES

PAN

1014462-2


8.88±.06
5.20±.03
.75
.56
.090 STK
3.25±.06
.94 TYP

COVER SUPPORT

NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. BREAK ALL SHARP EDGES
3. SCALE 1/1

1014462-3

5	MS20426A4-4	RIVET, SOLID CSUNK 100°	7
5	1006999 - 4	NUT, PLAIN, SELFCLINCHING FLOATING	6
1	1014462-3	SUPPORT, COVER	5
16	MS20426A3-5	RIVET, SOLID CSUNK 100°	4
8	NAS1031C08	NUT, FLOATING, ANCHOR	3
1	1014462-2	PAN	2
1	1014462-1	BRACKET, MOUNTING	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014468	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±.005 ±.02
ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-489
DRAWN [illegible] DATE [illegible]
CHECKED [illegible] Marinano 23 SEP 63
APPROVAL [illegible] 19 OCT 63
APPROVAL [illegible] 10/14/63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET, MOUNTING
CTS/AGC OPERATION CONSOLE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014462
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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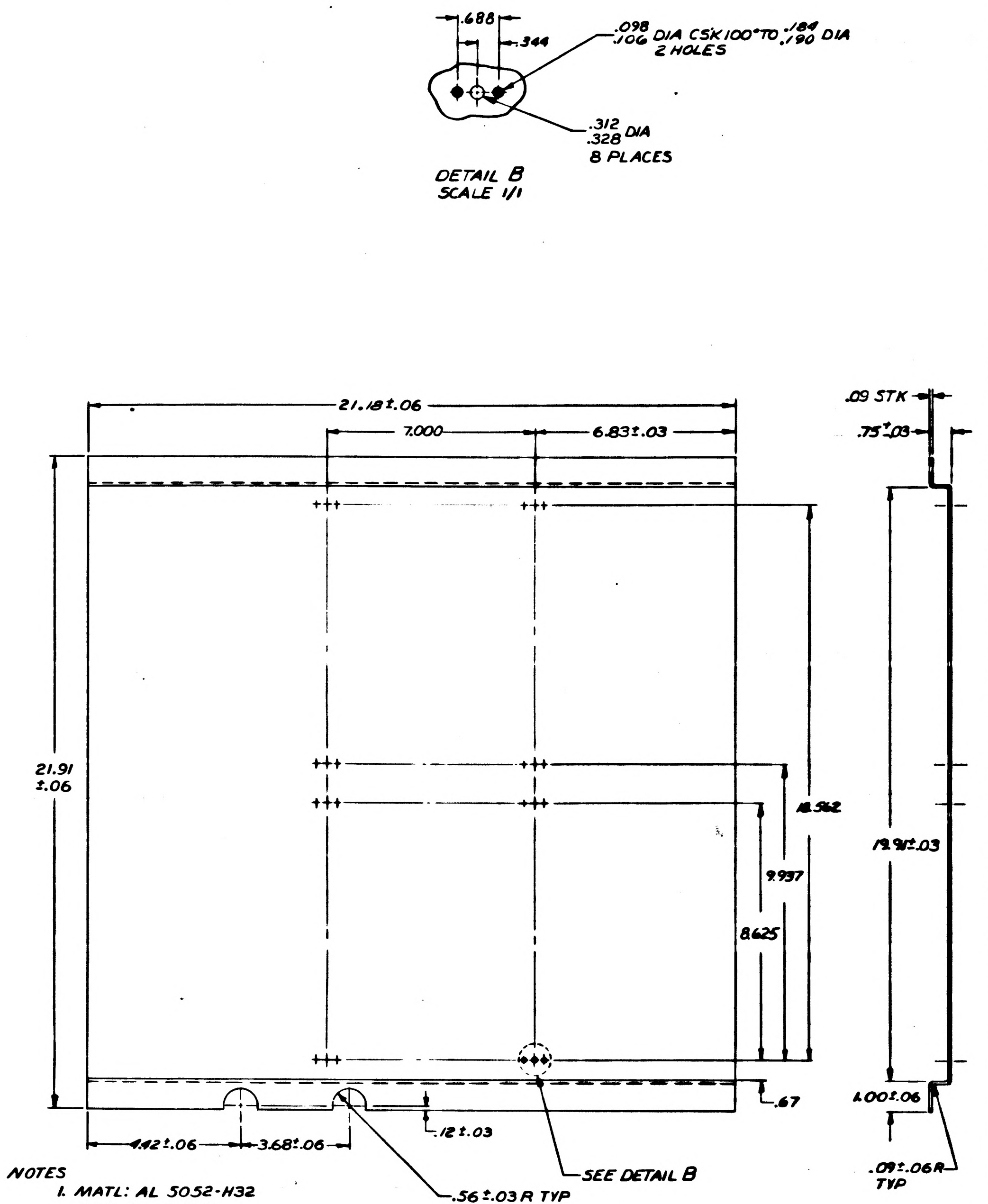
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 14137	[illegible]	[illegible]
A	CLASS II CHANGE PER RD-R 5690 DR [illegible] CHK [illegible] APPD [illegible]	[illegible]	[illegible]
B	CLASS II CHANGE PER RD-R 5712A DR Wheeler CHK [illegible] APPD [illegible]	10 FEB 64	[illegible]
C	CHANGED PER TDRR 10099 DR. U. Damm CHK [illegible] APPD. [illegible]	3 June 64	[illegible]
D	CHANGED PER TDRR NO. 11759 DR: [illegible] CHK: JCJ APPD. [illegible]	21 Aug 64	[illegible]

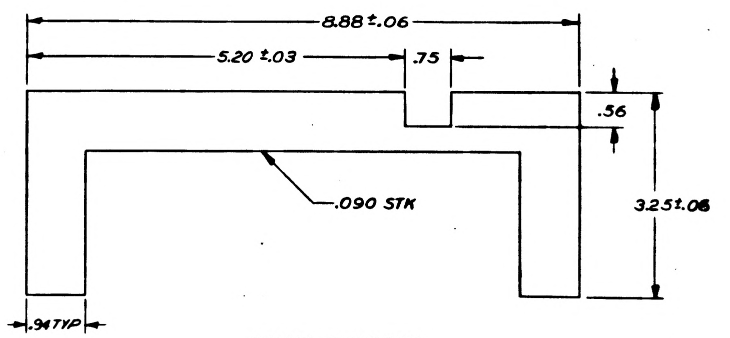


.688
.344
.098/.106 DIA CSK 100° TO .184/.190 DIA 2 HOLES
.312/.328 DIA 8 PLACES
DETAIL B SCALE 1/1
21.18±.06
7.000
6.83±.03
.09 STK
.75±.03
21.91±.06
18.562
9.937
8.625
19.91±.03
1.00±.06
.67
.12±.03
4.42±.06
3.68±.06
.56±.03 R TYP
SEE DETAIL B
.09±.06 R TYP

NOTES
1. MATL: AL 5052-H32 PER QQ-A-318
2. BREAK SHARP EDGES

PAN

1014462-2

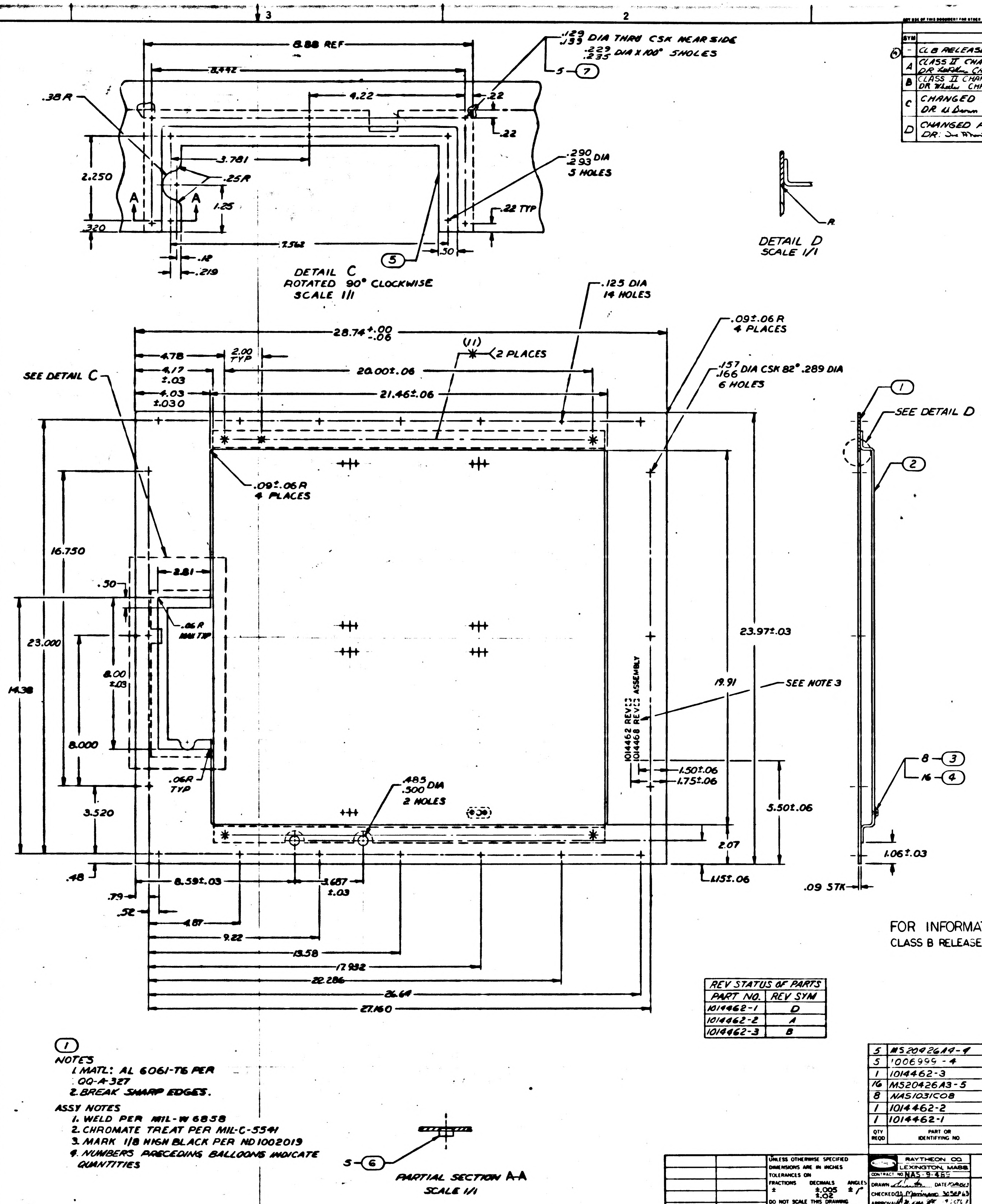


8.88±.06
5.20±.03
.75
.56
.090 STK
3.25±.06
.94 TYP

COVER SUPPORT

NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. BREAK ALL SHARP EDGES
3. SCALE 1/1

1014462-3



8.88 REF
8.442
4.22
.129/.133 DIA THRU CSK NEAR SIDE .229/.233 DIA X 100° 5 HOLES
5-⑦
.22
.22
.38 R
3.781
.25 R
2.250
1.25
A
A
.320
.290/.293 DIA 5 HOLES
.22 TYP
7.562
.30
⑤
.12
.219
DETAIL C ROTATED 90° CLOCKWISE SCALE 1/1
DETAIL D SCALE 1/1
R
.125 DIA 14 HOLES
.09±.06 R 4 PLACES
28.74 +.00/-.06
4.78
2.00 TYP
(1)
2 PLACES
4.17 ±.03
20.00±.06
.157/.166 DIA CSK 82° .289 DIA 6 HOLES
4.03 ±.030
21.46±.06
SEE DETAIL C
.09±.06 R 4 PLACES
①
SEE DETAIL D
②
16.750
2.81
.50
.06 R MAX TYP
23.000
8.00 ±.03
14.38
8.000
23.97±.03
19.91
SEE NOTE 3
1014462 REV ☐ 1014468 REV ☐ ASSEMBLY
1.50±.06
1.75±.06
8-③
16-④
.06 R TYP
.485/.500 DIA 2 HOLES
3.520
5.50±.06
2.07
1.06±.03
.48
8.59±.03
3.687 ±.03
1.15±.06
.09 STK
.79
.52
4.87
9.22
13.58
17.932
22.286
26.64
27.160
5-⑥
PARTIAL SECTION A-A SCALE 1/1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 14137 DATE 11/4/63

REV STATUS OF PARTS	
PART NO.	REV SYM
1014462-1	D
1014462-2	A
1014462-3	B

①
NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. BREAK SHARP EDGES.

ASSY NOTES
1. WELD PER MIL-W 6858
2. CHROMATE TREAT PER MIL-C-5541
3. MARK 1/8 HIGH BLACK PER ND 1002019
4. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
5	MS20426A4-4	RIVET, SOLID CSUNK 100°	7
5	1006999-4	NUT, PLAIN, SELFCLINCHING FLOATING	6
1	1014462-3	SUPPORT, COVER	5
16	MS20426A3-5	RIVET, SOLID CSUNK 100°	4
8	NAS1031C08	NUT, FLOATING, ANCHOR	3
1	1014462-2	PAN	2
1	1014462-1	BRACKET, MOUNTING	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014468	1014465

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±.005 ±.02
ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO. LEXINGTON, MASS.
CONTRACT NO. NAS-9-469
DRAWN [illegible] DATE [illegible]
CHECKED [illegible] 30 SEP 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

BRACKET, MOUNTING
CTS/AGC OPERATION CONSOLE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014462
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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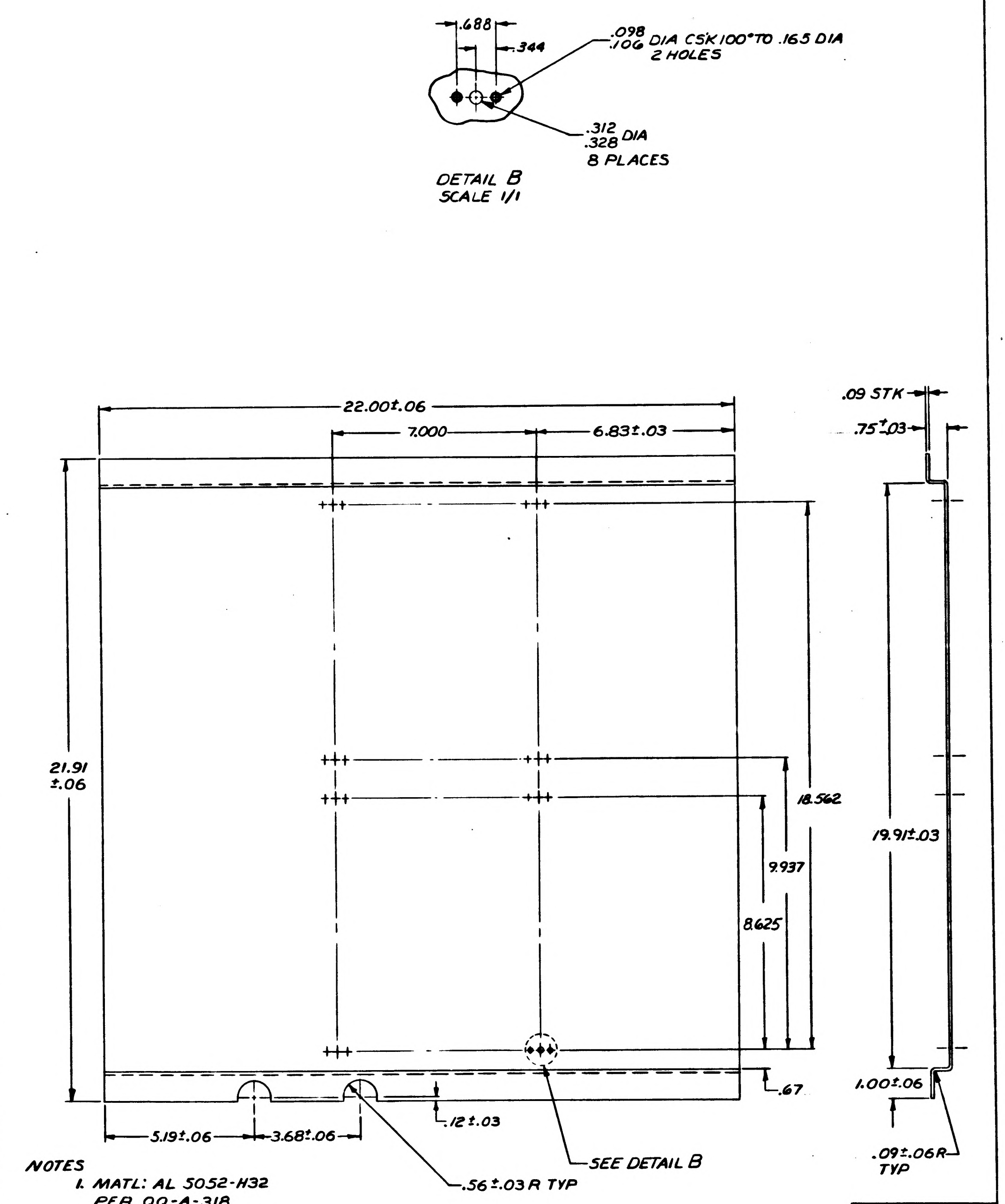
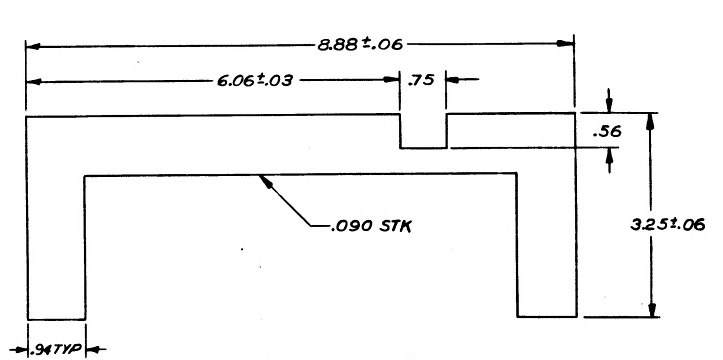
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		


.688
.344
.098/.106 DIA CSK 100° TO .165 DIA 2 HOLES
.312/.328 DIA 8 PLACES
DETAIL B SCALE 1/1
22.00±.06
7.000
6.83±.03
21.91 ±.06
18.562
9.937
8.625
.67
5.19±.06
3.68±.06
.12±.03
.56±.03 R TYP
SEE DETAIL B
.09 STK
.75±.03
19.91±.03
1.00±.06
.09±.06R TYP

NOTES
1. MATL: AL 5052-H32 PER QQ-A-318
2. BREAK SHARP EDGES

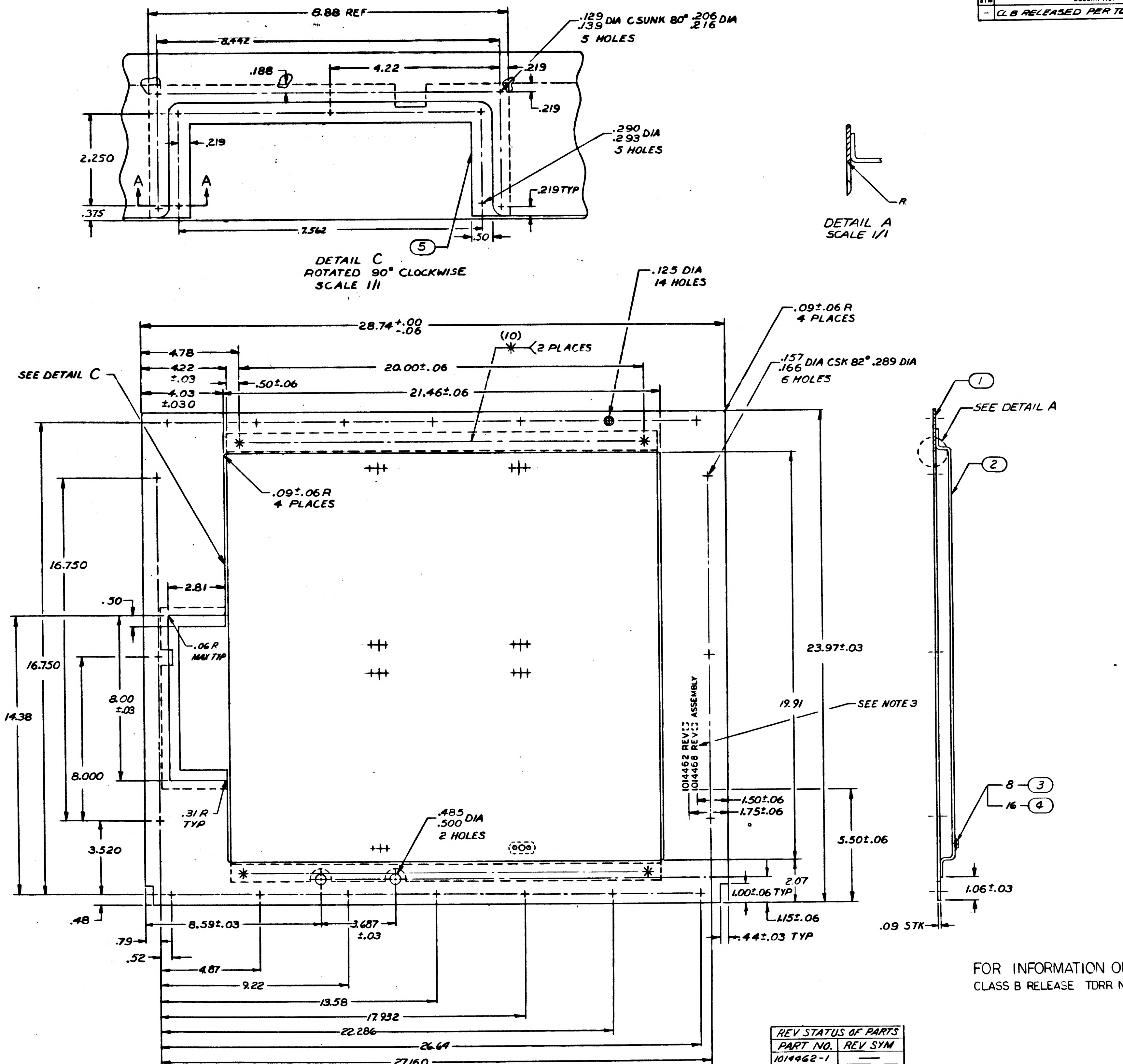
1014462-2


8.88±.06
6.06±.03
.75
.56
.090 STK
3.25±.06
.94 TYP

COVER SUPPORT

NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. BREAK ALL SHARP EDGES
3. SCALE 1/1

1014462-3

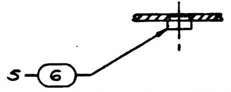

8.88 REF
8.442
.188
4.22
.219
.129/.139 DIA CSUNK 80° .206/.216 DIA 5 HOLES
.219
2.250
.219
.290/.293 DIA 5 HOLES
.219 TYP
A
A
.375
7.562
.50
5
DETAIL C ROTATED 90° CLOCKWISE SCALE 1/1
R
DETAIL A SCALE 1/1
.125 DIA 14 HOLES
28.74 +.00/−.06
(10)
2 PLACES
.09±.06 R 4 PLACES
.157/.166 DIA CSK 82° .289 DIA 6 HOLES
SEE DETAIL C
4.78
4.22 ±.03
4.03 ±.030
.50±.06
20.00±.06
21.46±.06
.09±.06 R 4 PLACES
1
SEE DETAIL A
2
16.750
.50
2.81
.06 R MAX TYP
16.750
8.00 ±.03
14.38
8.000
.31 R TYP
3.520
.485/.500 DIA 2 HOLES
1014462 REV
1014468 REV ASSEMBLY
23.97±.03
19.91
SEE NOTE 3
1.50±.06
1.75±.06
5.50±.06
8
3
16
4
2.07
1.00±.06 TYP
1.15±.06
.44±.03 TYP
1.06±.03
.09 STK
.48
.79
.52
8.59±.03
3.687 ±.03
4.87
9.22
13.58
17.932
22.286
26.64
27.160

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE 10/4/63

REV STATUS OF PARTS	
PART NO.	REV SYM
1014462-1	—
1014462-2	—
1014462-3	—

①
NOTES
1. MATL: AL 6061-T6 PER QQ-A-327
2. BREAK SHARP EDGES.

ASSY NOTES
1. WELD PER MIL-W 6858
2. CHROMATE TREAT PER MIL-C-5541
3. MARK 1/8 HIGH BLACK PER ND1002019
4. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES



PARTIAL SECTION A-A
SCALE 1/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
5	1006999-4	NUT, PLAIN, SELFCLINCHING FLOATING	6
1	1014462-3	SUPPORT, COVER	5
16	MS20426A3-5	RIVET, SOLID CSUNK 100°	4
8	NAS1031C08	NUT, FLOATING, ANCHOR	3
1	1014462-2	BRACKET, MOUNTING	2
1	1014462-1	PAN	1

LIST OF MATERIALS

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014468	1014465
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT
FINAL FINISH SEE NOTES

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO. NAS-9-489
DRAWN DATE
CHECKED A.J. Marimaro 30SEP63
APPROVAL 14OCT63
APPROVAL 10/14/63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

BRACKET, MOUNTING
CTS/AGC OPERATION CONSOLE

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014462
SCALE 1/2
WT
SHEET 1 OF 1

1014462

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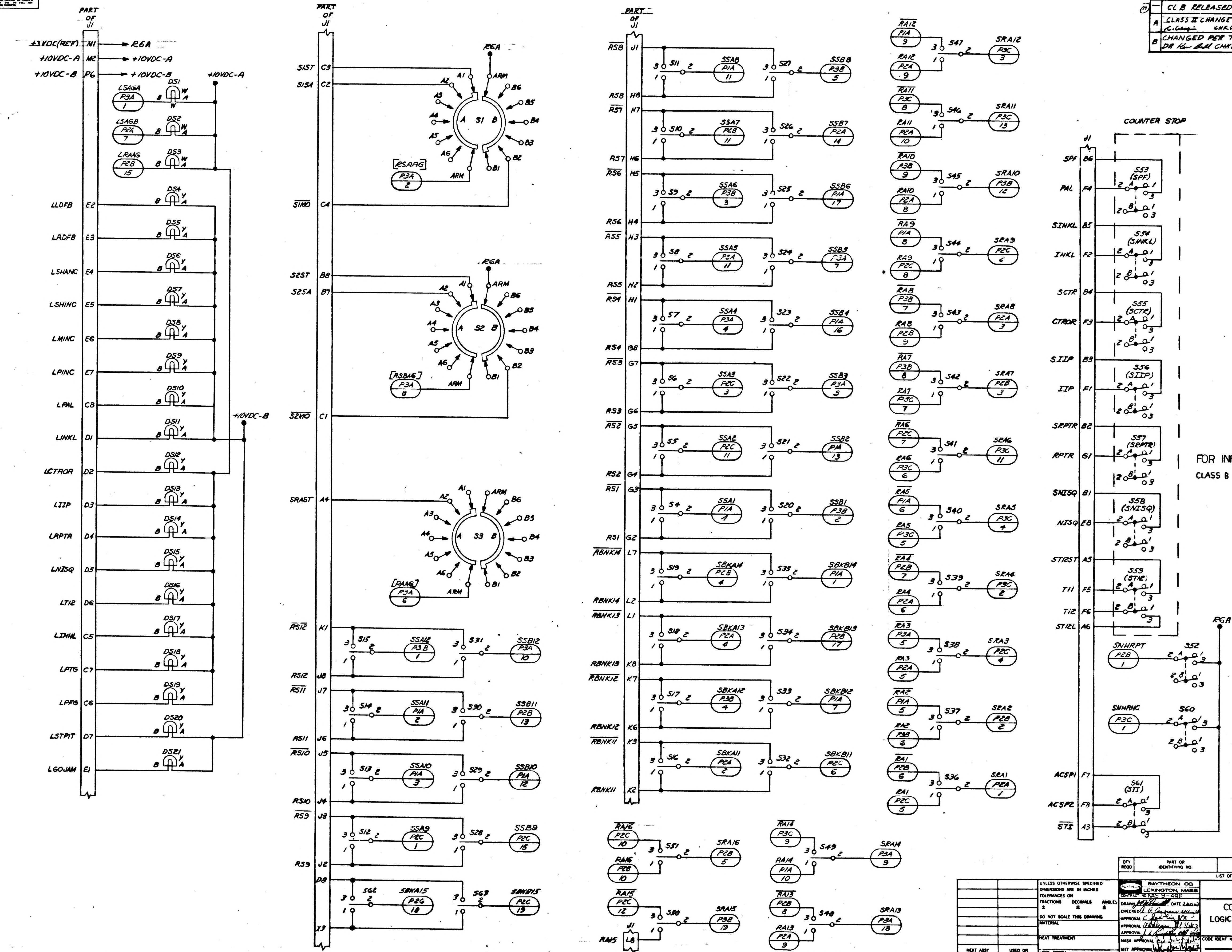
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R 5471A CHK W. J. Gifford APPD	4 NOV 63	
B	CHANGED PER TDRR 06343 DR CHK A. Cyprians APPD		



PART OF J1
+3VDC(REF) M1 → R6A
+10VDC-A M2 → +10VDC-A
+10VDC-B P6 → +10VDC-B
+10VDC-A
+10VDC-B
LSAGA P3A 1 DS1
LSAGB P2A 7 DS2
LRAAG P2B 15 DS3
LLDFB E2 DS4
LRDFB E3 DS5
LSHANC E4 DS6
LSHINC E5 DS7
LMINC E6 DS8
LPINC E7 DS9
LPAL C8 DS10
LINKL D1 DS11
LCTROR D2 DS12
LIIP D3 DS13
LRPTR D4 DS14
LNISQ D5 DS15
LT12 D6 DS16
LINHL C5 DS17
LPTG C7 DS18
LPFB C6 DS19
LSTPIT D7 DS20
LGOJAM E1 DS21
S1ST C3
S1SA C2
S1MO C4
S2ST B8
S2SA B7
S2MO C1
SRAST A4
S1 S2 S3
A1 A2 A3 A4 A5 A6 ARM
B1 B2 B3 B4 B5 B6
R6A
RSAAG P3A 2
RSBAG P3A 8
RAAG P3A 6
RS12 K1
RS12 J8
RS11 J7
RS11 J6
RS10 J5
RS10 J4
RS9 J3
RS9 J2
D8
X3
S15 SSA12 P3B 1
S31 SSB12 P3A 10
S14 SSA11 P1A 2
S30 SSB11 P2B 13
S13 SSA10 P1A 3
S29 SSB10 P1A 12
S12 SSA9 P2C 1
S28 SSB9 P2C 15
S62 SBWA15 P2G 18
S63 SBWB15 P2C 19
PART OF J1
RS8 J1
RS8 H8
RS7 H7
RS7 H6
RS6 H5
RS6 H4
RS5 H3
RS5 H2
RS4 H1
RS4 G8
RS3 G7
RS3 G6
RS2 G5
RS2 G4
RS1 G3
RS1 G2
RBNK14 L7
RBNK14 L2
RBNK13 L1
RBNK13 K8
RBNK12 K7
RBNK12 K6
RBNK11 K3
RBNK11 K2
S11 SSA8 P1A 11
S27 SSB8 P3B 5
S10 SSA7 P2B 11
S26 SSB7 P2A 14
S9 SSA6 P3B 3
S25 SSB6 P1A 17
S8 SSA5 P2A 11
S24 SSB5 P3A 7
S7 SSA4 P3A 4
S23 SSB4 P1A 16
S6 SSA3 P2C 3
S22 SSB3 P3A 3
S5 SSA2 P2C 11
S21 SSB2 P1A 13
S4 SSA1 P1A 4
S20 SSB1 P3B 2
S19 SBKA14 P2B 4
S35 SBKB14 P1A 1
S18 SBKA13 P2A 4
S34 SBKB13 P2B 17
S17 SBKA12 P3B 4
S33 SBKB12 P1A 7
S16 SBKA11 P2A 2
S32 SBKB11 P2C 6
RA16 P2C 10
RA16 P2B 10
S51 SRA16 P2B 5
RA15 P2C 12
S50 SRA15 P3B 19
J1 L8 RA15
RA14 P3C 9
RA14 P1A 10
S49 SRA14 P3A 9
RA13 P2B 8
RA13 P2A 9
S48 SRA13 P3A 18
RA12 P1A 9
RA12 P2A 9
S47 SRA12 P3C 3
RA11 P3C 8
RA11 P2A 10
S46 SRA11 P3C 13
RA10 P3B 9
RA10 P2A 8
S45 SRA10 P3B 12
RA9 P1A 8
RA9 P2C 8
S44 SRA9 P2C 2
RA8 P3B 7
RA8 P2B 9
S43 SRA8 P2A 3
RA7 P3B 8
RA7 P3C 7
S42 SRA7 P2B 3
RA6 P2C 7
RA6 P3C 6
S41 SRA6 P3C 11
RA5 P1A 6
RA5 P3C 5
S40 SRA5 P3C 4
RA4 P2B 7
RA4 P2A 6
S39 SRA4 P3C 2
RA3 P3A 5
RA3 P2A 5
S38 SRA3 P2C 4
RA2 P1A 5
RA2 P3B 6
S37 SRA2 P2B 2
RA1 P2B 6
RA1 P2C 5
S36 SRA1 P2A 1
COUNTER STOP
J1
SPF B6
PAL F4
S53 (SPF)
SINKL B5
INKL F2
S54 (SINKL)
SCTR B4
CTROR F3
S55 (SCTR)
SIIP B3
IIP F1
S56 (SIIP)
SRPTR B2
RPTR G1
S57 (SRPTR)
SNISQ B1
NISQ E8
S58 (SNISQ)
ST12ST A5
T11 F5
T12 F6
ST12L A6
S59 (ST12)
R6A
SNHRPT P2B 1
S52
SNHRNC P3C 1
S60
ACSP1 F7
ACSP2 F8
STI A3
S61 (STI)

FOR INFORMATION ONLY

CLASS B RELEASE PER TDRR NO. 03143

DATE 9/12/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

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CONTRACT NO. NAS 9-498
DRAWN DATE 2 AUG 63
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APPROVAL
APPROVAL
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MANNED SPACECRAFT CENTER
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COMPUTER TEST SET
LOGIC DRAWER NO. 2 FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014464
SCALE NONE WT SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014464

INCHES
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SYM	DESCRIPTION	DATE	APPROVED
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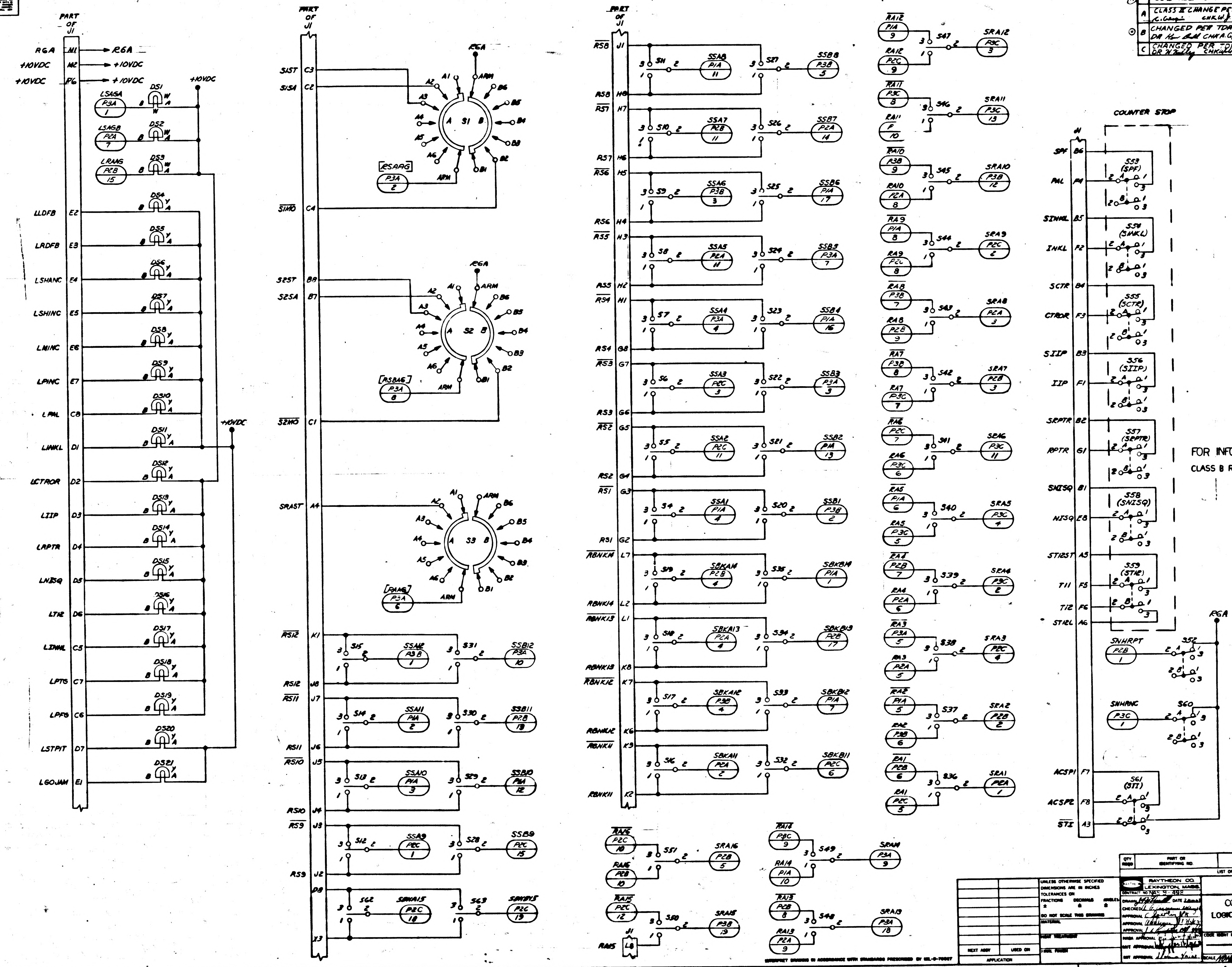
A	CLASS II CHANGE PER RO-R 5471A C. Gargi CHK W. J. Gifford APPD	4 NOV 63	
B	CHANGED PER TDRR 06343 DR CHK A. Cappiano APPD	3/10/64	WK
C	CHANGED PER TDRR 07531 DR H. Kelley CHK APPD	18 APR 64	KEO



PART OF J1
RGA
+10VDC
LSAGA
LSAGB
LRANG
DS1
DS2
DS3
LLDFB
LRDFB
LSHANC
LSHINC
LMINC
LPINC
LPAL
LINKL
LCTROR
LIIP
LRPTR
LNISQ
LTI2
LINHL
LPTS
LPFS
LSTPIT
LGOJAM
S1ST
S1SA
S1HO
S2ST
S2SA
S2HO
SRAST
S1
S2
S3
ARM
RSARG
RSBAS
RANG
SSA8
SSB8
SSA1
SSB1
SBKAM
SBKBM
SSA12
SSB12
SRA12
SRA1
SRA16
SBKA15
SBKB15
COUNTER STOP
S53 (SPF)
S54 (SINKL)
S55 (SCTR)
S56 (SIIP)
S57 (SRPTR)
S58 (SNISQ)
S59 (STI2)
S61 (STI)
S52
S60
SNHRPT
SNHRNC
ACSP1
ACSP2
STI

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DATE 9/16/63

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COMPUTER TEST SET
LOGIC DRAWER NO. 2 FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014464
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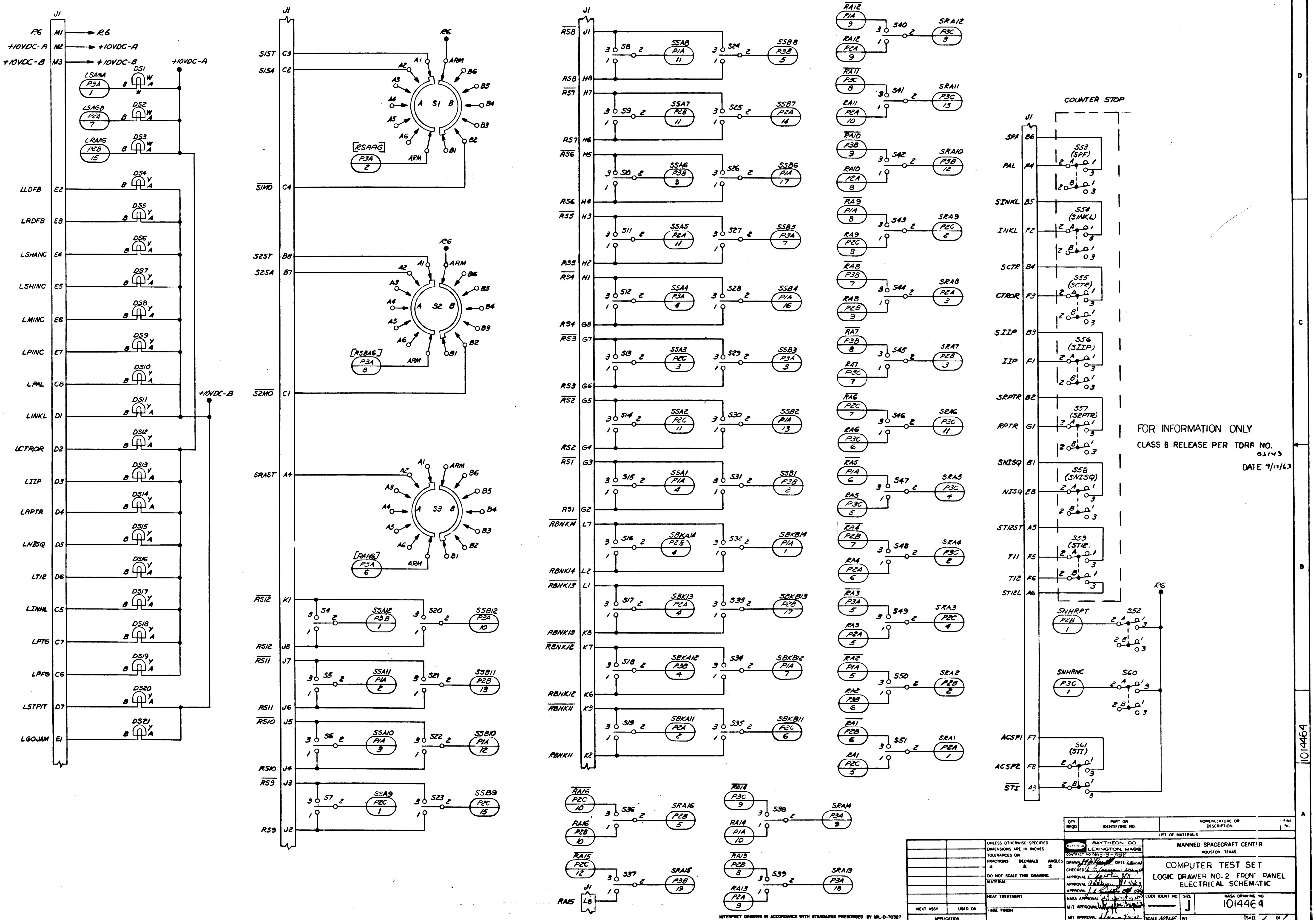

J1
R6
+10VDC-A
+10VDC-B
M1
M2
M3
LSASA P3A 1
LSAGB P2A 7
LRAAG P2B 15
DS1 W A
DS2
DS3
LLDFB E2
LRDFB E3
LSHANC E4
LSHINC E5
LMINC E6
LPINC E7
LPAL C8
LINKL D1
LCTROR D2
LIIP D3
LAPTR D4
LNISQ D5
LT12 D6
LINHL C5
LPTG C7
LPFG C6
LSTPIT D7
LGOJAM E1
DS4 DS5 DS6 DS7 DS8 DS9 DS10 DS11 DS12 DS13 DS14 DS15 DS16 DS17 DS18 DS19 DS20 DS21
B Y A
S1ST C3
S1SA C2
S1MO C4
S2ST B8
S2SA B7
S2MO C1
SRAST A4
S1 S2 S3
A1 A2 A3 A4 A5 A6 ARM
B1 B2 B3 B4 B5 B6
RSAAG P3A 2
RSBAG P3A 8
RAAG P3A 6
RS12 K1
RS12 J8
RS11 J7
RS11 J6
RS10 J5
RS10 J4
RS9 J3
RS9 J2
S4 SSA12 P3B 1 S20 SSB12 P3A 10
S5 SSA11 P1A 2 S21 SSB11 P2B 13
S6 SSA10 P1A 3 S22 SSB10 P1A 12
S7 SSA9 P2C 1 S23 SSB9 P2C 15
RS8 J1
RS8 H8
RS7 H7
RS7 H6
RS6 H5
RS6 H4
RS5 H3
RS5 H2
RS4 H1
RS4 G8
RS3 G7
RS3 G6
RS2 G5
RS2 G4
RS1 G3
RS1 G2
RBNKM L7
RBNK14 L2
RBNK13 L1
RBNK13 K8
RBNK12 K7
RBNK12 K6
RBNK11 K3
RBNK11 K2
S8 SSA8 P1A 11 S24 SSB8 P3B 5
S9 SSA7 P2B 11 S25 SSB7 P2A 14
S10 SSA6 P3B 3 S26 SSB6 P1A 17
S11 SSA5 P2A 11 S27 SSB5 P3A 7
S12 SSA4 P3A 4 S28 SSB4 P1A 16
S13 SSA3 P2C 3 S29 SSB3 P3A 3
S14 SSA2 P2C 11 S30 SSB2 P1A 13
S15 SSA1 P1A 4 S31 SSB1 P3B 2
S16 SBKA14 P2B 4 S32 SBKB14 P1A 1
S17 SBK13 P2A 4 S33 SBKB13 P2B 17
S18 SBKA12 P3B 4 S34 SBKB12 P1A 7
S19 SBKA11 P2A 2 S35 SBKB11 A2C 6
RA16 P2C 10
RA16 P2B 10
S36 SRA16 P2B 5
RA15 P2C 12
S37 SRA15 P3B 19
RA15 L8
RA14 P3C 9
RA14 P1A 10
S38 SRA14 P3A 9
RA13 P2B 8
RA13 P2A 9
S39 SRA13 P3A 18
RA12 P1A 9
RA12 P2A 9
S40 SRA12 P3C 3
RA11 P3C 8
RA11 P2A 10
S41 SRA11 P3C 13
RA10 P3B 9
RA10 P2A 8
S42 SRA10 P3B 12
RA9 P1A 8
RA9 P2C 9
S43 SRA9 P2C 2
RA8 P3B 7
RA8 P2B 9
S44 SRA8 P2A 3
RA7 P3B 8
RA7 P3C 7
S45 SRA7 P2B 3
RA6 P2C 7
RA6 P3C 6
S46 SRA6 P3C 11
RA5 P1A 6
RA5 P3C 5
S47 SRA5 P3C 4
RA4 P2B 7
RA4 P2A 6
S48 SRA4 P3C 2
RA3 P3A 5
RA3 P2A 5
S49 SRA3 P2C 4
RA2 P1A 5
RA2 P3B 6
S50 SRA2 P2B 2
RA1 P2B 6
RA1 P2C 5
S51 SRA1 P2A 1
COUNTER STOP
SPF B6
PAL F4
SINKL B5
INKL F2
SCTR B4
CTROR F3
SIIP B3
IIP F1
SRPTR B2
RPTR G1
SNISQ B1
NISQ E8
ST12ST A5
T11 F5
T12 F6
ST12L A6
S53 (SPF)
S54 (SINKL)
S55 (SCTR)
S56 (SIIP)
S57 (SRPTR)
S58 (SNISQ)
S59 (ST12)
SNHRPT P2B 1
S52
SNHRNC P3C 1
S60
ACSP1 F7
ACSP2 F8
STI A3
S61 (STI)

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APPROVAL C. Saxlin
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COMPUTER TEST SET
LOGIC DRAWER NO. 2 FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014464
SCALE NONE
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SHEET 1 OF 1

1014464

INCHES
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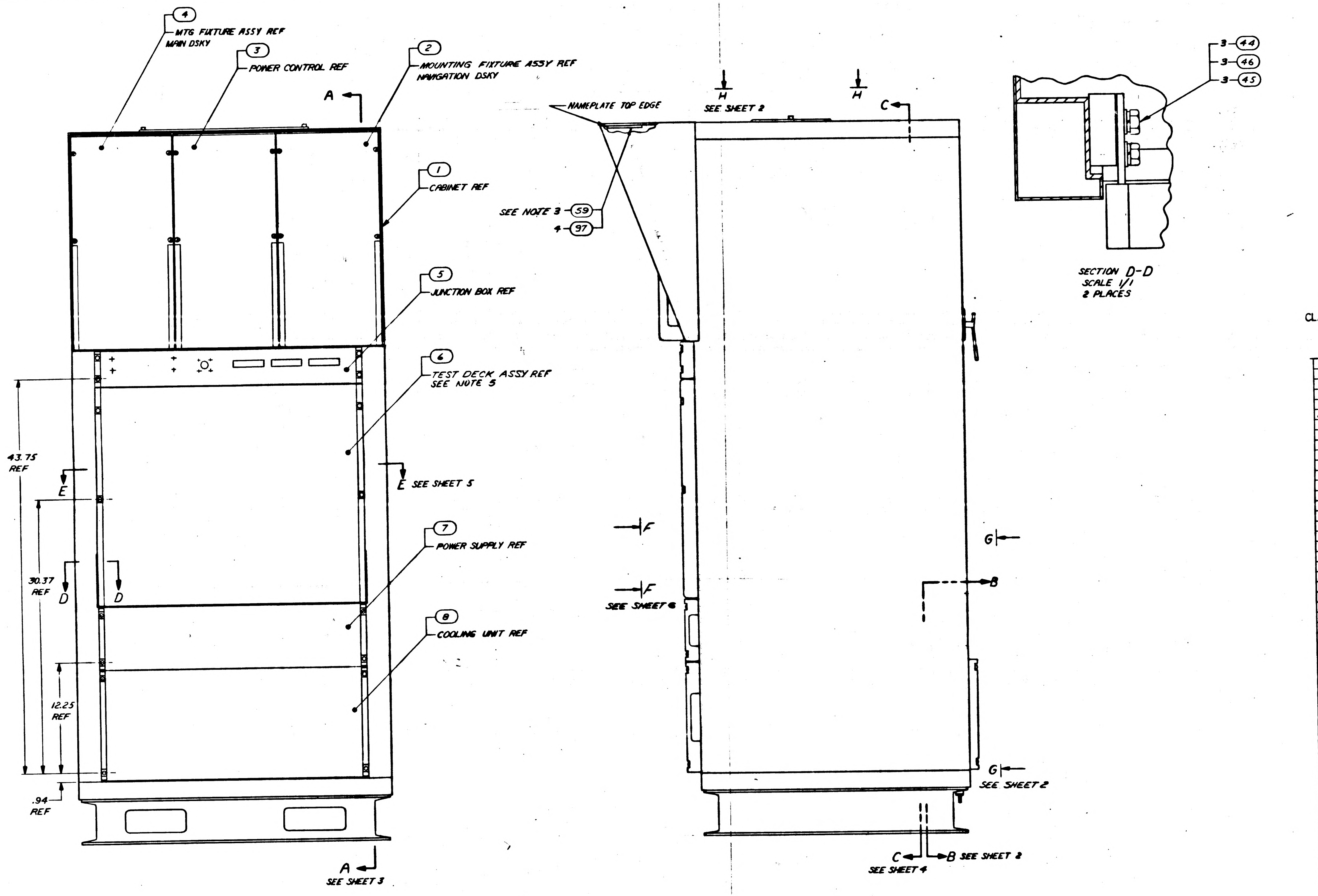
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD R5819 DR J. Manning CHK J.J APPD	9 MAR 64	JJA
B	CHANGED PER TDRR 10998 DR W. Dunn CHK J.J APPD	28 JUL 64	KCC



4
MTG FIXTURE ASSY REF
MAIN DSKY
3
POWER CONTROL REF
2
MOUNTING FIXTURE ASSY REF
NAVIGATION DSKY
A
1
CABINET REF
5
JUNCTION BOX REF
6
TEST DECK ASSY REF
SEE NOTE 5
E
E SEE SHEET 5
7
POWER SUPPLY REF
D
D
8
COOLING UNIT REF
43.75 REF
30.37 REF
12.25 REF
.94 REF
A
SEE SHEET 3
NAMEPLATE TOP EDGE
SEE NOTE 3 59
4 97
H
SEE SHEET 2
H
C
F
F
SEE SHEET 6
G
B
G
SEE SHEET 2
C
B SEE SHEET 2
SEE SHEET 4
3 44
3 46
3 45
SECTION D-D
SCALE 1/1
2 PLACES

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 04582 DATE 11/1/63

SEE SHEET 2

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1014480-1	DECAL, IDENTIFICATION	67
3	1006659-2	COUPLING, HALF FEMALE	66
3	1006670	COUPLING, HALF MALE	65
2	AN6270-4-41	HOSE ASSY	64
6	MS35233-46	SCREW, PAN HD	63
20	MS35233-60	SCREW, PAN HD	62
14	MS35650-104	NUT, HEX PLAIN	61
4	MS35233-64	SCREW, PAN HD	60
1	1020086	NAMEPLATE, APOLLO G&N	59
16	MS35200-41	SCREW, FLAT HD	58
12	MS25281-10	CLAMP, LOOP	57
2	AN6270-4-L-11 1/2	HOSE ASSY	56
6	1006739	ELBOW, SWIVEL NUT	55
18	MS35249-87	SCREW, FLAT HD	54
24	MS35233-61	SCREW, PAN HD	53
AR	MIL-S-40083 CL31	COMPOUND, SEALING	52
98	MS35338-81	WASHER, LOCK	51
24	MS35233-63	SCREW, PAN HD	50
27	MS35338-80	WASHER, LOCK	49
27	MS15795-807	WASHER, FLAT	48
21	MS35233-45	SCREW, PAN HD	47
6	MS35338-83	WASHER, LOCK	46
6	MS15795-812	WASHER, FLAT	45
6	MS35307-34	SCREW, HEX HD	44
~~2~~	~~MS35233-98~~	~~SCREW, PAN HD~~	~~43~~
82	MS15795-808	WASHER, FLAT	42
8	MS35233-66	SCREW, PAN HD	41
1	1020041	CABLE ASSY W13	40
1	1020049	W12	39
1	1020020	W11	38
1	1020042	W10	37
1	1020045	W9	36
1	1020021	W8	35
1	1020011	W7	34
1	1020009	W6	33
1	1020003	W5	32
1	1014498	W4	31
1	1014496	W3	30
1	1014495	CABLE ASSY W2	29
1	1020010	TEST MOUNT ASSY	28
1	1014372	CHASSIS ASSY CMPTR COMPT	27
1	1014447	CABLE SUPPORT TRAY ASSY	26
REF	1020107	AGC TC FIXTURE ASSY	25
1	1014438	SLIDE, LH	24
1	1014437	SLIDE, RH	23
3	1006665-4	SLIDE, QUICK DISCONNECT	22
3	1006665-3	SLIDE, QUICK DISCONNECT	21
1	1006854-2	SLIDE CHASSIS, LOCK OPEN	20
1	1006854-1	SLIDE CHASSIS, LOCK OPEN	19
~~1~~	~~1014479-2~~	~~BRACKET SPRING ASSY~~	~~18~~
~~1~~	~~1014479-1~~	~~BRACKET SPRING ASSY~~	~~17~~
2	1014429	STOP, DOOR	16
16	MS15795-809	WASHER, FLAT	15
20	MS35233-95	SCREW, PAN HD	14
2	1014473	BRACKET, ANGLE	13
1	1014416	AC INPUT PANEL ASSY	12
1	1006856	FAN, VENTILATING	11
1	1014453	CONN. INTERFACE PANEL ASSY	10
1	1006918	FILTER, AIR RFI SHIELDED	9
1	1020051	COOLING UNIT	8
1	1014404	POWER SUPPLY ASSY	7
1	1014468	TEST DECK ASSY	6
1	1014434	JUNCTION BOX ASSY	5
REF	1020106	MAIN DISPLAY TV HANDLING FIXT ASSY	4
1	1014388	POWER CONTROL ASSY	3
REF	1020105	NAV DISPLAY TV HANDLING FIXT ASSY	2
1	1020070	CABINET REWORK	1

LIST OF MATERIALS

NOTES
1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITIES
2. ASSEMBLE FIND NO. 54 USING FIND NO. 52
3. MARK APPLICABLE INFORMATION, .09 HIGH BLACK CHARACTERS PER ND 1002019
4. FIND NO. 99 THRU FIND NO 110 NOT SHOWN - SEE DWG 1020002
5. COOLING SYSTEM TO BE PURGED AND FILLED PER ND1002212 WITH FLUID PER 1001491
6. FINAL ACCEPTANCE PER FTM1014465

B	B	B	B	B	B
A	A	A	—	—	—
—	—	—	—	—	—
SH1	SH2	SH3	SH4	SH5	SH6

REVISION STATUS OF SHEETS

1020002	
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DRAWN DATE 12 Aug 63
CHECKED A.J. Marinaro 29 Oct 63
APPROVAL 4 Nov 63
APPROVAL 4 Nov 63
APPROVAL
NASA APPROVAL
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NASA DRAWING NO 1014465
SCALE 1/4
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SHEET 1 OF 6

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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A	CLASS II CHANGE PER RD R5819 DR Manning CHK J-J APPD	9 MAR 64	
B	CHANGED PER TDRR 10498 DR. W. Dunn CHK. J-J APPD	28 JUL 64	KEB

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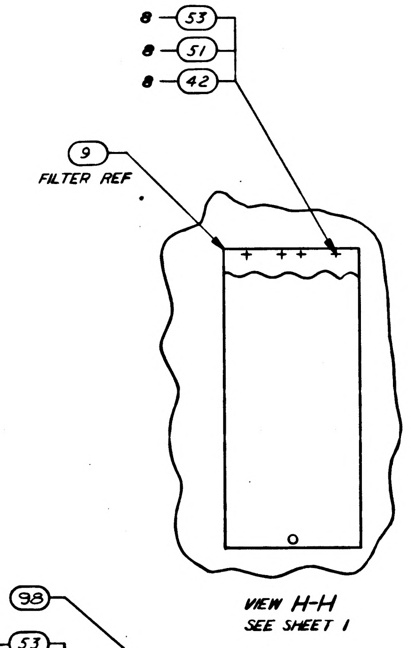
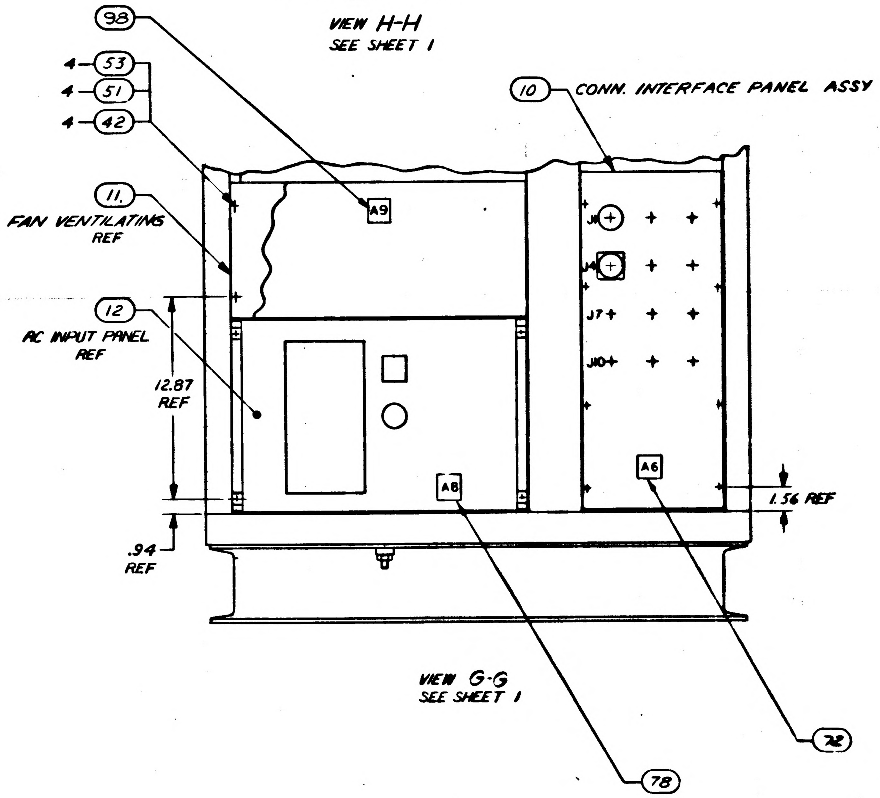
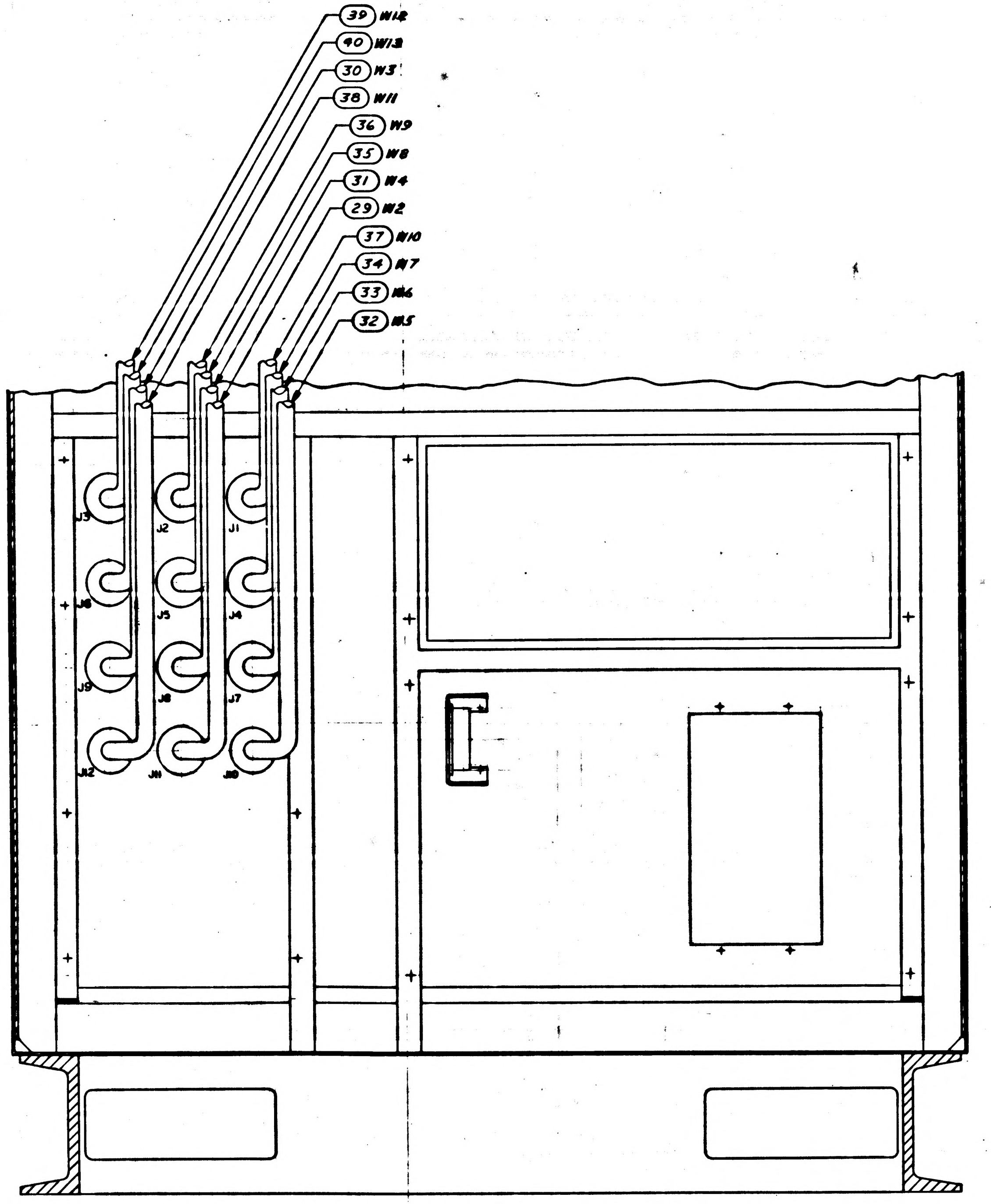


VIEW H-H
SEE SHEET 1



VIEW G-G
SEE SHEET 1



SECTION B-B
SEE SHEET 1
SCALE 1/2

SEE SHEET 1

NOT SHOWN — 126
NOT SHOWN — 114
SEE NOTE 4 — 99 through 110

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2	MS21919-D624	CLAMP, LOOP	127
1	1020193	CABLE ASSY W33, SELF TEST	126
1	1020192	STICK EXTENDER ASSY NO. 9	125
1	1020194	STICK EXTENDER ASSY NO. 8	124
1	1020135	STICK EXTENDER ASSY NO. 7	123
4	1006982-10	WASHER, FLAT NYLON	122
2	AN924-4D	NUT, FLARED TUBE	121
2	AN833-4D	ELBOW, FLARED TUBE	120
10	MS35690-410	NUT, HEX	119
10	MS15795-810	WASHER, FLAT	118
10	MS35338-82	WASHER, LOCK	117
10	MS35299-91	SCREW, FLAT HD	116
8	MS21919-D65	CLAMP, LOOP	115
1	1014150-1	CABLE ASSY	114
REF	1020002	TEST INTERCONNECTIONS	113
REF	1020104	HYDRAULIC SCHEMATIC	112
REF	1020101	INTERCONN DIAGRAM	111
1	1020109-3	CABLE ASSY W32	110
1	1020109-2	W31	109
1	1020109-1	W30	108
1	1006668-9	W29	107
1	-8	W28	106
1	-7	W27	105
1	-6	W26	104
1	-5	W25	103
1	-4	W24	102
1	-3	W23	101
1	-2	W22	100
1	1006668-1	CABLE ASSY W21	99
2	1014480-9	DECAL, IDENTIFICATION	98
4	MS20470A2-4	RIVET, UNIVERSAL	97
1	1020089	WIRING HARNESS	96
1	1020094	CABLE ASSY W14, MAIN DSKY	95
1	1020095	CABLE ASSY W15, NAV DSKY	94
1	1020097	TEST CABLE W17, ASSY S/C	93
1	1020096	TEST CABLE W16, ASSY PSA	92
1	1020102	TEST CABLE W18, ASSY PM	91
1	1020077-4	HOSE ASSY	90
1	1020077-3	HOSE ASSY	89
1	1020038	STICK EXTENDER ASSY NO. 6	88
1	1020037	STICK EXTENDER ASSY NO. 5	87
1	1020036	STICK EXTENDER ASSY NO. 4	86
1	1020035	STICK EXTENDER ASSY NO. 3	85
1	1020034	STICK EXTENDER ASSY NO. 2	84
1	1020033	STICK EXTENDER ASSY NO. 1	83
1	1020054-2	TRAY EXTENDER B	82
1	1020054-1	TRAY EXTENDER A	81
1	1020072	STORAGE COMPARTMENT ASSY	80
4	MS35233-43	SCREW, PAN HD	79
1	1014480-8	DECAL, IDENTIFICATION	78
1	1020077-1	HOSE ASSY	77
1	1020077-2	HOSE ASSY	76
4	MS25281-8	CLAMP, LOOP	75
1	1020074	PLATE, HOSE SUPPORT	74
2	1014480-7	DECAL, IDENTIFICATION	73
2	1014480-6	DECAL, IDENTIFICATION	72
2	1014480-5	DECAL, IDENTIFICATION	71
2	1014480-4	DECAL, IDENTIFICATION	70
2	1014480-3	DECAL, IDENTIFICATION	69
2	1014480-2	DECAL, IDENTIFICATION	68

LIST OF MATERIALS

NEXT ASSY	USED ON
1020002	

APPLICATION

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN B. Yagen DATE 30 Aug 63
CHECKED O. J. Marinaro 24 OCT 63
APPROVAL J. Morse JK 4 Nov 63
APPROVAL 4 NOV 63
APPROVAL
NASA APPROVAL 11/1/63
MIT APPROVAL
MIT APPROVAL 12/4/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGC/CTS OPERATION CONSOLE ASSY

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014465
SCALE 1/4
WT
SHEET 2 OF 6

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
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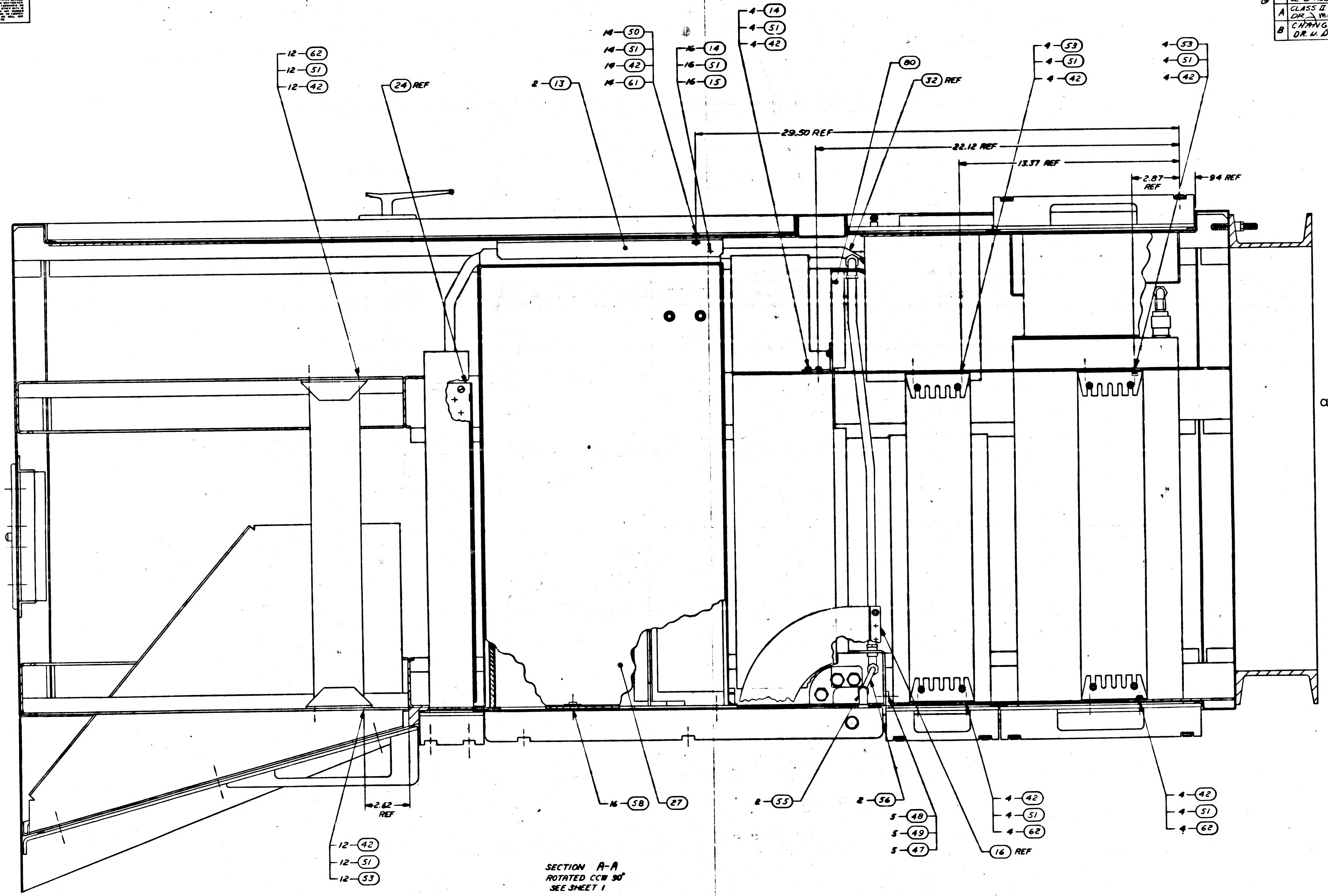
A	CLASS II CHANGE PER RD R5819 DR J. Manning CHK JCJ APPD	9 MAR 64	JJB
B	CHANGED PER TDRR 10998 DR. W. Dunn CHK. JCJ APPD	28 JUL 64	KCB



12-62
12-51
12-42
24 REF
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14-50
14-51
14-42
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16-51
16-15
4-14
4-51
4-42
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32 REF
4-53
4-51
4-42
4-53
4-51
4-42
29.50 REF
22.12 REF
13.37 REF
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FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04120 DATE 11/1/63

SECTION A-A
ROTATED CCW 90°
SEE SHEET 1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1020002		
NEXT ASSY	USED ON	
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CONTRACT NO NAS 9-498
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CHECKED C.J. Marinaro 24 OCT 63
APPROVAL 4 Nov 63
APPROVAL 9 NOV 63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

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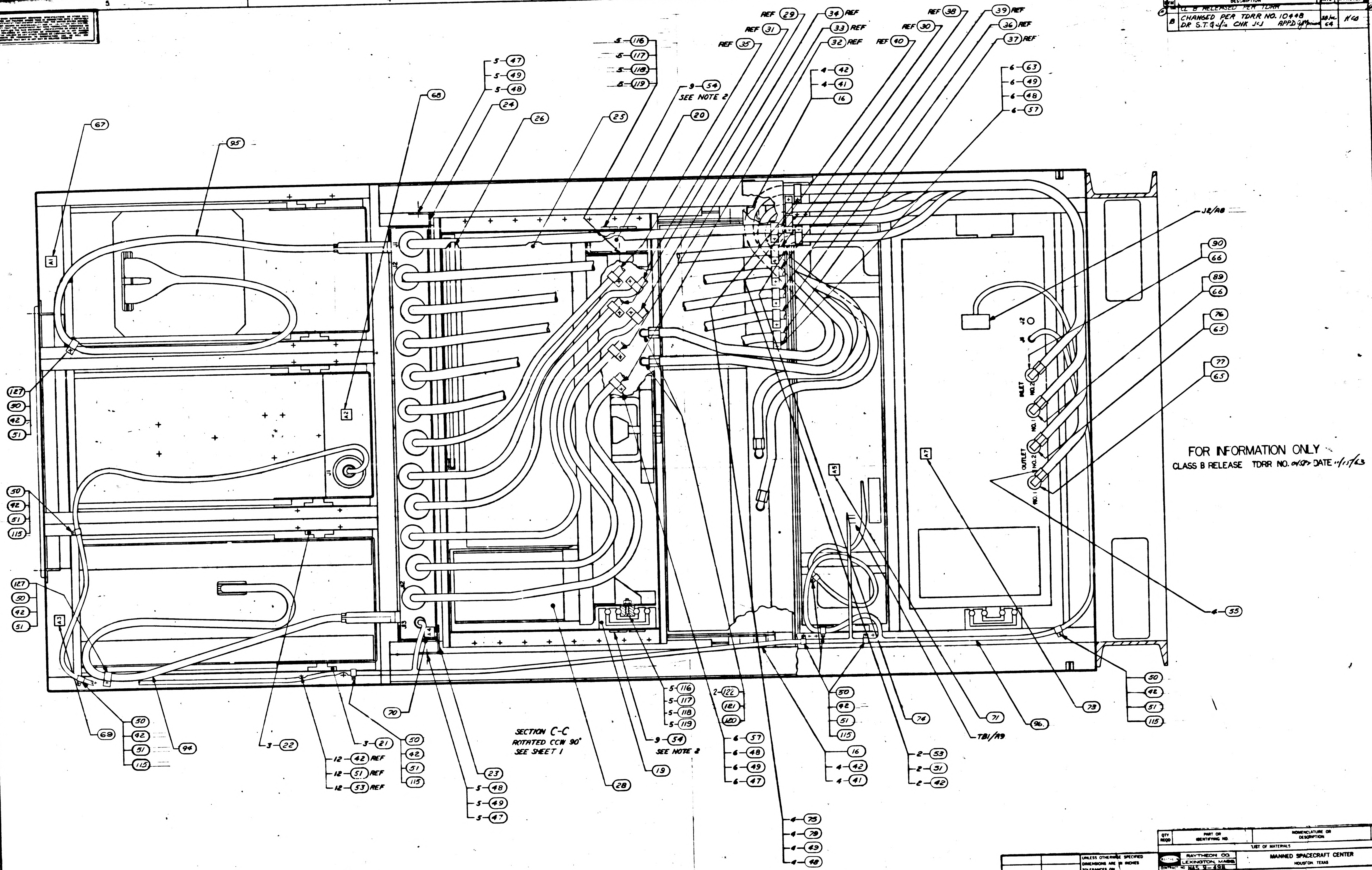
CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014465
SCALE 1/2
WT
SHEET 3 OF 6

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

SYM	DESCRIPTION	DATE	APPROVED
REVISIONS			
—	~~CL B RELEASED PER TDRR~~		
B	CHANGED PER TDRR NO. 10448 DR S.T. Q[illegible] CHK JCJ APPD [illegible]	28 Jan 64	KCO



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34 REF
33 REF
32 REF
REF 38
REF 30
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39 REF
36 REF
37 REF
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J2/A8
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76
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77
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INLET NO.2
NO.1
OUTLET NO.2
NO.1
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J2
A1
A2
A3
A4
A5
A7
J1
J2
J3
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12-53 REF
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SECTION C-C
ROTATED CCW 90°
SEE SHEET 1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04587 DATE 11/15/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

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CHECKED [illegible] 28 OCT 63
APPROVAL [illegible] 9 NOV 63
APPROVAL [illegible]
APPROVAL [illegible]
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SHEET 4 OF 6

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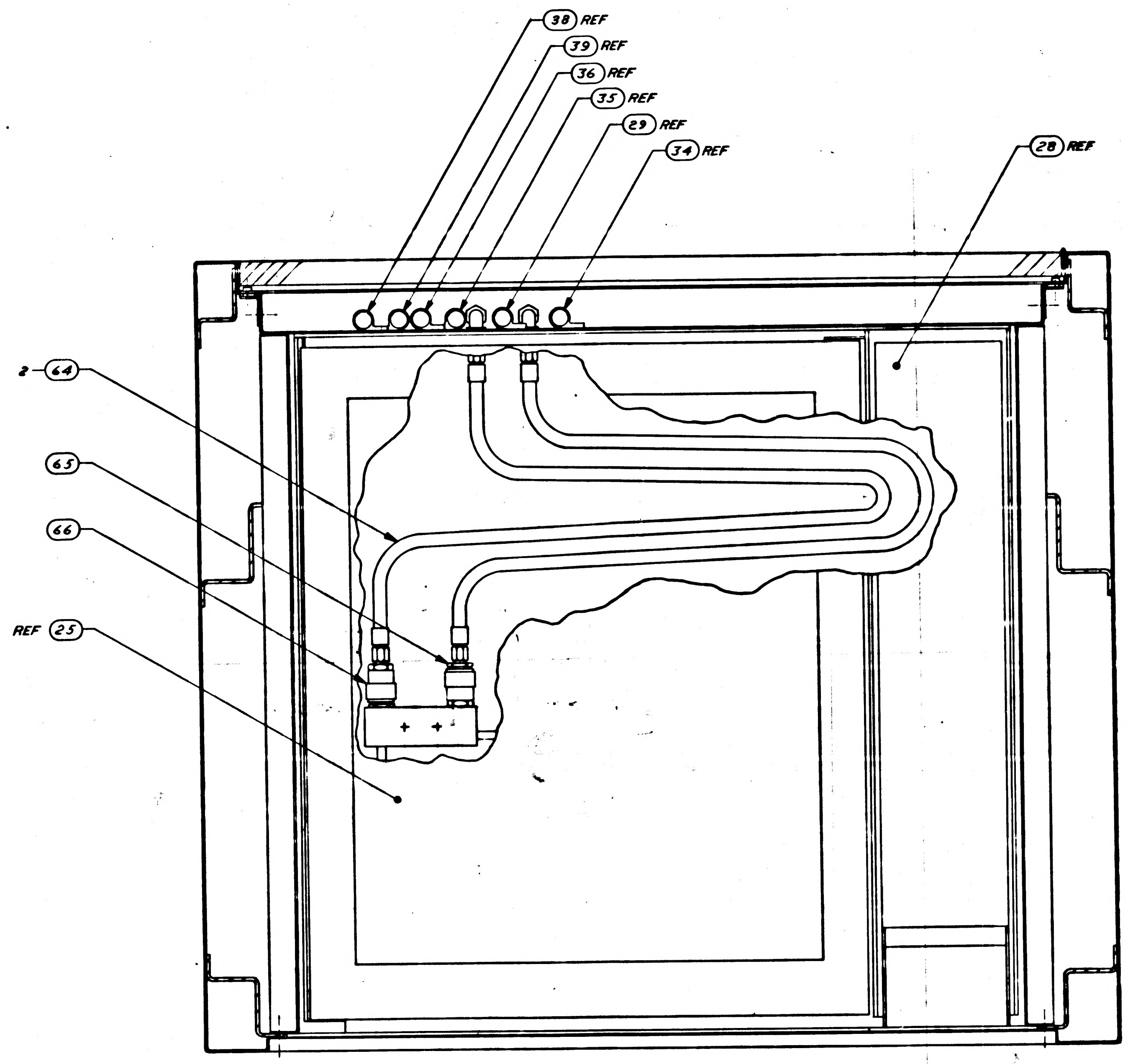
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
B	CHANGED PER TDRR 10998 DR. W. Dunn CHK. JCJ APPD. [illegible]	28 Jul 64	KWO



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SECTION E-E
SEE SHEET 1

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CLASS B RELEASE TDRR NO. 04538 DATE 11/15/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

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CONTRACT NO NAS 9-498

DRAWN B. Fazio DATE 26 [illegible]
CHECKED [illegible] 21 Oct 63
APPROVAL [illegible] 4 Nov 63
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 12 [illegible]

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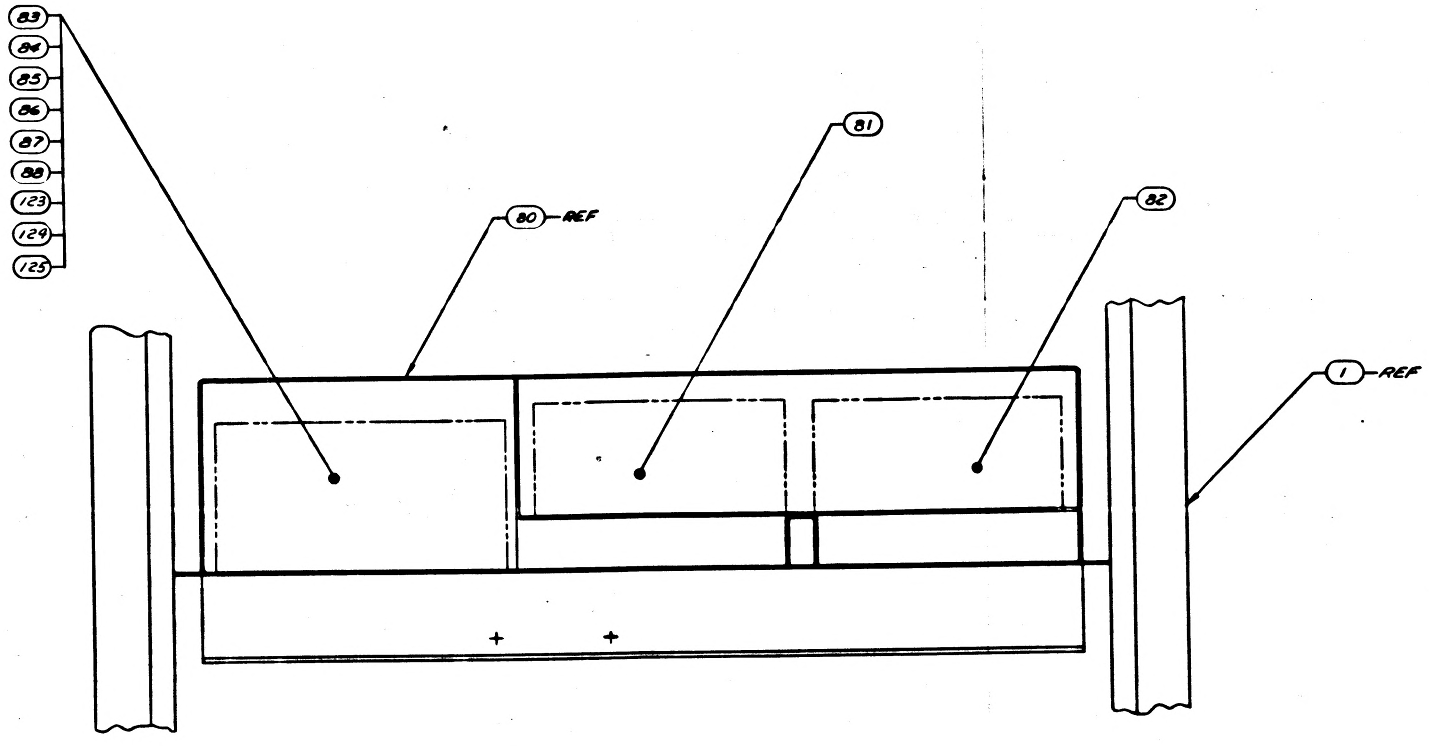
SIZE J
NASA DRAWING NO 1014465
SCALE 1/2 WT
SHEET 5 OF 6

MASTER

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
B	CHANGED PER TDRR 10498 DR. W. Dunn CHK. KJ APPD	28 Jul 64	KC



PARTIAL VIEW F-F
SHOWN WITH FIND NO.6 REMOVED
SEE SHEET 1

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 04582 DATE 11/12/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

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CONTRACT NO NAS 9-498
DRAWN DATE 28 Oct 63
CHECKED 28 Oct 63
APPROVAL 4 Nov 63
APPROVAL
APPROVAL
NASA APPROVAL
SUBT APPROVAL
SUBT APPROVAL 13 Nov 63

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HOUSTON, TEXAS

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ASSY

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WT
SHEET 6 OF 6

1014465

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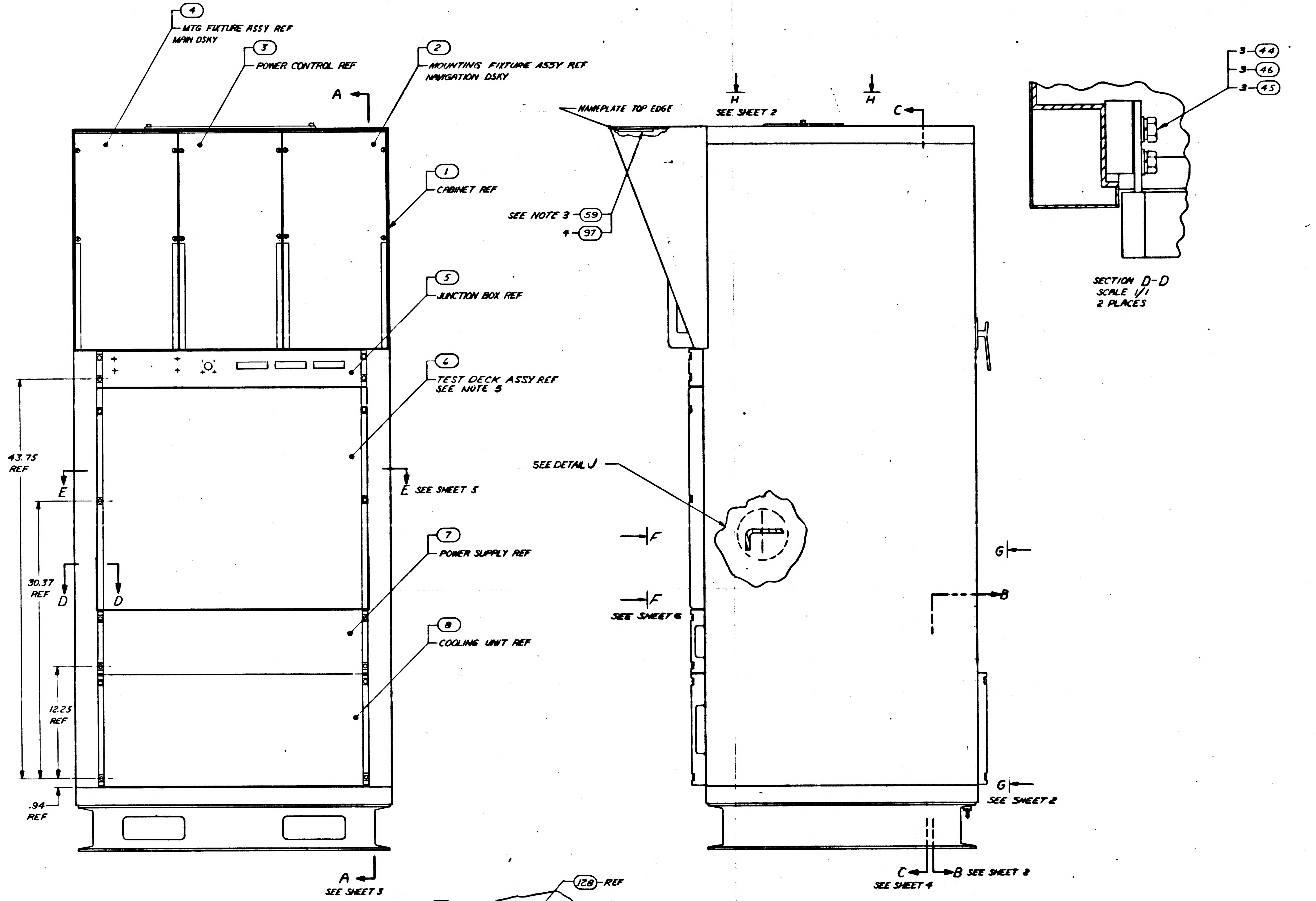
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD R5819 DR J Manning CHK J J APPD	9 MAR 64	
B	CHANGED PER TDRR 10998 DR W. Dunn CHK J J APPD	28 Jul 64	KEC
C	CHANGED PER TDRR 13698. DR CHK RTD APPD		KEB



4
MTG FIXTURE ASSY REF
MAIN DSKY
3
POWER CONTROL REF
2
MOUNTING FIXTURE ASSY REF
NAVIGATION DSKY
A
1
CABINET REF
5
JUNCTION BOX REF
6
TEST DECK ASSY REF
SEE NOTE 5
7
POWER SUPPLY REF
8
COOLING UNIT REF
43.75
REF
30.37
REF
12.25
REF
.94
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E
E SEE SHEET 5
D
D
A
SEE SHEET 3
NAMEPLATE TOP EDGE
H
SEE SHEET 2
H
C
SEE NOTE 3 59
4 97
SEE DETAIL J
F
F
SEE SHEET 6
G
B
G
SEE SHEET 2
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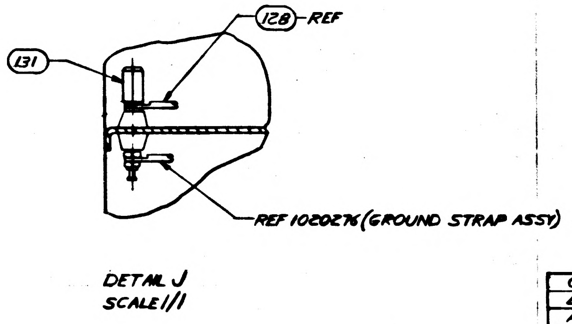
SEE SHEET 4
B SEE SHEET 2
3 44
3 46
3 45
SECTION D-D
SCALE 1/1
2 PLACES

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 04582 DATE 11/1/63

NOTES

1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITIES
2. ASSEMBLE FIND NO. 54 USING FIND NO. 52
3. MARK APPLICABLE INFORMATION, .09 HIGH BLACK CHARACTERS PER ND 1002019
4. FIND NO. 99 THRU FIND NO 110 NOT SHOWN - SEE DWG 1020002
5. COOLING SYSTEM TO BE PURGED AND FILLED PER ND1002212 WITH FLUID PER 1001491
6. FINAL ACCEPTANCE PER FTM1014465
7. FIND NO.128 CONNECTED FROM E1 OF FIND NO.7(1014404) TO E1 OF FIND NO.27.



128 REF
131
REF 1020276 (GROUND STRAP ASSY)

DETAIL J
SCALE 1/1

C	C	B	C	C	B
B	B	B	B	B	B
A	A	A	—	—	—
—	—	—	—	—	—
SH1	SH2	SH3	SH4	SH5	SH6
REVISION STATUS OF SHEETS					

SEE SHEET 2

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1014480-1	DECAL, IDENTIFICATION	67
3	1006659-2	COUPLING, HALF FEMALE	66
3	1006670	COUPLING, HALF MALE	65
2	AN6270-4-41	HOSE ASSY	64
6	MS35233-46	SCREW, PAN HD	63
20	MS35233-60	SCREW, PAN HD	62
14	MS35650-104	NUT, HEX PLAIN	61
4	MS35233-64	SCREW, PAN HD	60
1	1020086	NAMEPLATE, APOLLO G&N	59
16	MS35200-41	SCREW, FLAT HD	58
12	MS25281-10	CLAMP, LOOP	57
2	AN6270-4-L-11 1/2	HOSE ASSY	56
6	1006739	ELBOW, SWIVEL NUT	55
18	MS35249-87	SCREW, FLAT HD	54
24	MS35233-61	SCREW, PAN HD	53
AR	MIL-S-40083 CL31	COMPOUND, SEALING	52
98	MS35338-81	WASHER, LOCK	51
24	MS35233-63	SCREW, PAN HD	50
27	MS35338-80	WASHER, LOCK	49
27	MS15795-807	WASHER, FLAT	48
21	MS35233-45	SCREW, PAN HD	47
6	MS35338-83	WASHER, LOCK	46
6	MS15795-812	WASHER, FLAT	45
6	MS35307-39	SCREW, HEX HD	44
~~2~~	~~MS35233-98~~	~~SCREW, PAN HD~~	~~43~~
82	MS15795-808	WASHER, FLAT	42
8	MS35233-66	SCREW, PAN HD	41
1	1020041	CABLE ASSY W13	40
1	1020049	W12	39
1	1020020	W11	38
1	1020042	W10	37
1	1020045	W9	36
1	1020021	W8	35
1	1020011	W7	34
1	1020009	W6	33
1	1020003	W5	32
1	1014498	W4	31
1	1014496	W3	30
1	1014495	CABLE ASSY W2	29
1	1020010	TEST MOUNT ASSY	28
1	1014372	CHASSIS ASSY CMPTR COMPT	27
1	1014447	CABLE SUPPORT TRAY ASSY	26
REF	1020107	AGC TC FIXTURE ASSY	25
1	1014438	SLIDE, LH	24
1	1014437	SLIDE, RH	23
3	1006665-4	SLIDE, QUICK DISCONNECT	22
3	1006665-3	SLIDE, QUICK DISCONNECT	21
1	1006854-2	SLIDE CHASSIS, LOCK OPEN	20
1	1006854-1	SLIDE CHASSIS, LOCK OPEN	19
~~1~~	~~1014479-2~~	~~BRACKET SPRING ASSY~~	~~18~~
~~1~~	~~1014479-1~~	~~BRACKET SPRING ASSY~~	~~17~~
2	1014429	STOP, DOOR	16
16	MS15795-809	WASHER, FLAT	15
20	MS35233-95	SCREW, PAN HD	14
2	1014473	BRACKET, ANGLE	13
1	1014416	AC INPUT PANEL ASSY	12
1	1006856	FAN, VENTILATING	11
1	1014453	CONN. INTERFACE PANEL ASSY	10
1	1006918	FILTER, AIR RFI SHIELDED	9
1	1020051	COOLING UNIT	8
1	1014404	POWER SUPPLY ASSY	7
1	1014468	TEST DECK ASSY	6
1	1014434	JUNCTION BOX ASSY	5
REF	1020106	MAIN DISPLAY TC HANDLING FIXT ASSY	4
1	1014388	POWER CONTROL ASSY	3
REF	1020105	NAV DISPLAY TC HANDLING FIXT ASSY	2
1	1020070	CABINET REWORK	1

LIST OF MATERIALS

1020002	
NEXT ASSY	USED ON
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LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED A.J. Marinaro 29 Oct 63
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APPROVAL
APPROVAL
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MANNED SPACECRAFT CENTER
HOUSTON TEXAS

AGC/CTS OPERATION CONSOLE ASSY

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014465
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SHEET 1 OF 6

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SYM	DESCRIPTION	DATE	APPROVED
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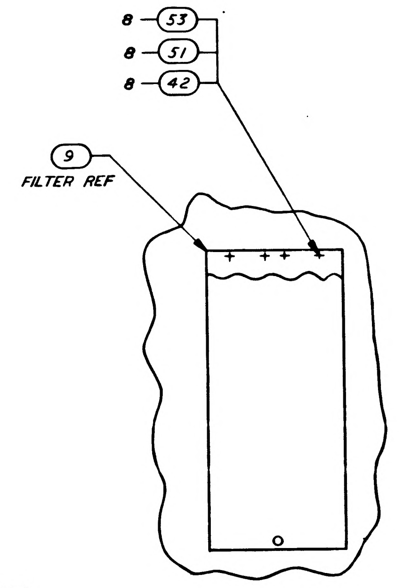
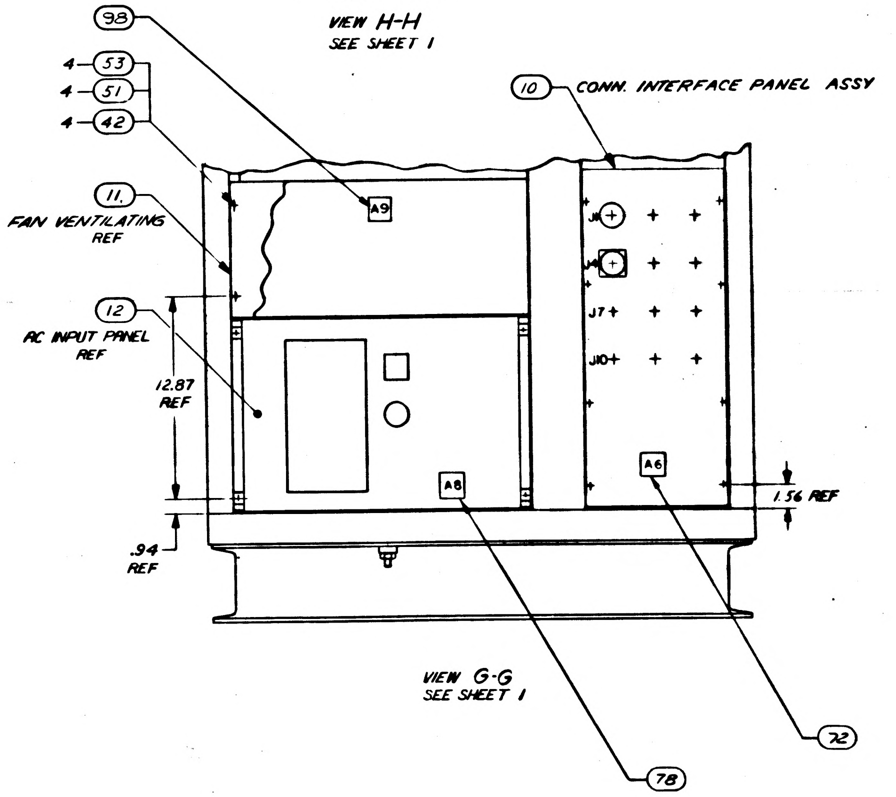
A	CLASS II CHANGE PER RD R5819 DR Manning CHK JcJ APPD	9 MAR 64	JJE
B	CHANGED PER TDRR 10498 DR. W. Dunn CHK. JcJ APPD	28 JUL 64	KCL
C	CHANGED PER TDRR 13698. DR CHK RD APPD	64	KCS



VIEW H-H
SEE SHEET 1



VIEW G-G
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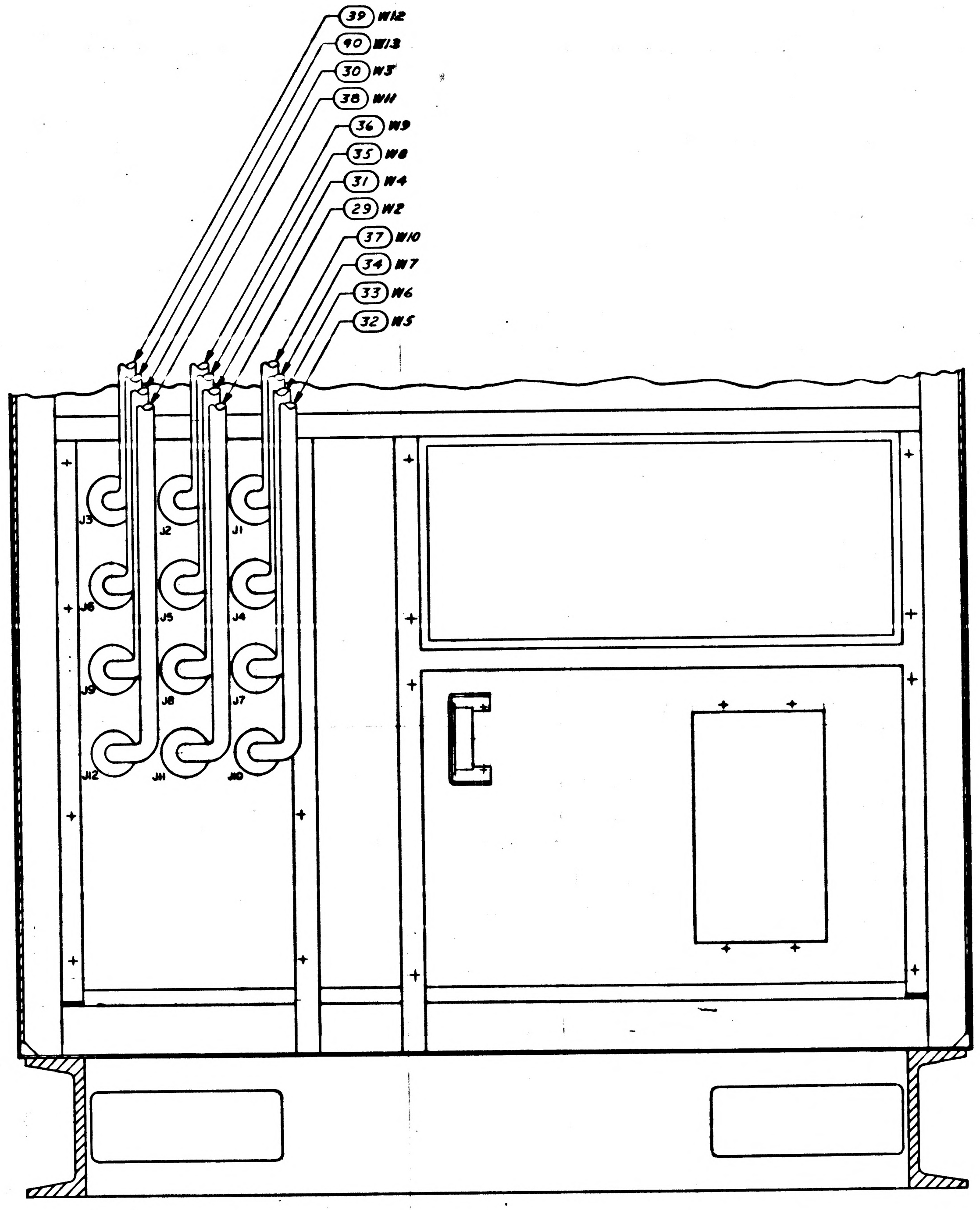

SECTION B-B
SEE SHEET 1
SCALE 1/2

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04582 DATE 11/1/63

	QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FI NO
	1	MS15795-805	WASHER, PLAIN	134
	1	MS21044C06	NUT, SELF LOCKING	133
	1	MS25281-4	CLAMP, LOOP	132
	1	1017495-1	POST, BINDING	131
	11	MS17821-1-9	STRAP, CABLE	130
	1	MS35233-30	SCREW, PAN HD	129
	1	1020255	GROUND STRAP ASSY	128
	2	MS21919-D629	CLAMP, LOOP	127
NOT SHOWN	1	1020143	CABLE ASSY W33, SELF TEST	126
	1	1020192	STICK EXTENDER ASSY NO. 9	125
	1	1020194	STICK EXTENDER ASSY NO. 8	124
	1	1020135	STICK EXTENDER ASSY NO. 7	123
	4	1006982-10	WASHER FLAT NYLON	122
	2	AN929-4D	NUT, FLARED TUBE	121
	2	AN833-4D	ELBOW, FLARED TUBE	120
	10	MS35690-410	NUT, HEX	119
	10	MS15795-810	WASHER, FLAT	118
	10	MS35338-82	WASHER, LOCK	117
	10	MS35299-91	SCREW, FLAT HD	116
	8	MS21919-D65	CLAMP, LOOP	115
NOT SHOWN	1	1014150-1	CABLE ASSY	114
	REF	1020302	TEST INTERCONNECTIONS	113
	REF	1020104	HYDRAULIC SCHEMATIC	112
	REF	1020101	INTERCONN DIAGRAM	111
SEE NOTE 4	1	1020109-3	CABLE ASSY W32	110
	1	1020109-2	W31	109
	1	1020109-1	W30	108
	1	1006668-9	W29	107
	1	-8	W28	106
	1	-7	W27	105
	1	-6	W26	104
	1	-5	W25	103
	1	-4	W24	102
	1	-3	W23	101
	1	-2	W22	100
	1	1006668-1	CABLE ASSY W21	99
	2	1014480-9	DECAL, IDENTIFICATION	98
	4	MS20470A2-4	RIVET, UNIVERSAL	97
	1	1020089	WIRING HARNESS	96
	1	1020094	CABLE ASSY W14, MAIN DSKY	95
	1	1020095	CABLE ASSY W15, NAV DSKY	94
	1	1020097	TEST CABLE W17, ASSY S/C	93
	1	1020096	TEST CABLE W16, ASSY PSA	92
	1	1020102	TEST CABLE W18, ASSY PM	91
	1	1020077-4	HOSE ASSY	90
	1	1020077-3	HOSE ASSY	89
	1	1020038	STICK EXTENDER ASSY NO. 6	88
	1	1020037	STICK EXTENDER ASSY NO. 5	87
	1	1020036	STICK EXTENDER ASSY NO. 4	86
	1	1020035	STICK EXTENDER ASSY NO. 3	85
	1	1020034	STICK EXTENDER ASSY NO 2	84
	1	1020033	STICK EXTENDER ASSY NO. 1	83
	1	1020054-2	TRAY EXTENDER B	82
	1	1020054-1	TRAY EXTENDER A	81
	1	1020072	STORAGE COMPARTMENT ASSY	8
	4	MS35233-43	SCREW, PAN HD	7
	1	1014480-8	DECAL, IDENTIFICATION	7
	1	1020077-1	HOSE ASSY	7
	1	1020077-2	HOSE ASSY	7
	4	MS25281-8	CLAMP, LOOP	7
	1	1020074	PLATE, HOSE SUPPORT	7
	2	1014480-7	DECAL, IDENTIFICATION	7
	2	1014480-6	DECAL, IDENTIFICATION	7
	2	1014480-5	DECAL, IDENTIFICATION	7
	2	1014480-4	DECAL, IDENTIFICATION	7
	2	1014480-3	DECAL, IDENTIFICATION	6
	2	1014480-2	DECAL, IDENTIFICATION	6

LIST OF MATERIALS

1014465

1020002	
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CHECKED O. J. Manning 29 OCT 63
APPROVAL 4 Nov 63
APPROVAL 4 NOV 63
APPROVAL
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MIT APPROVAL
MIT APPROVAL 12/4/63

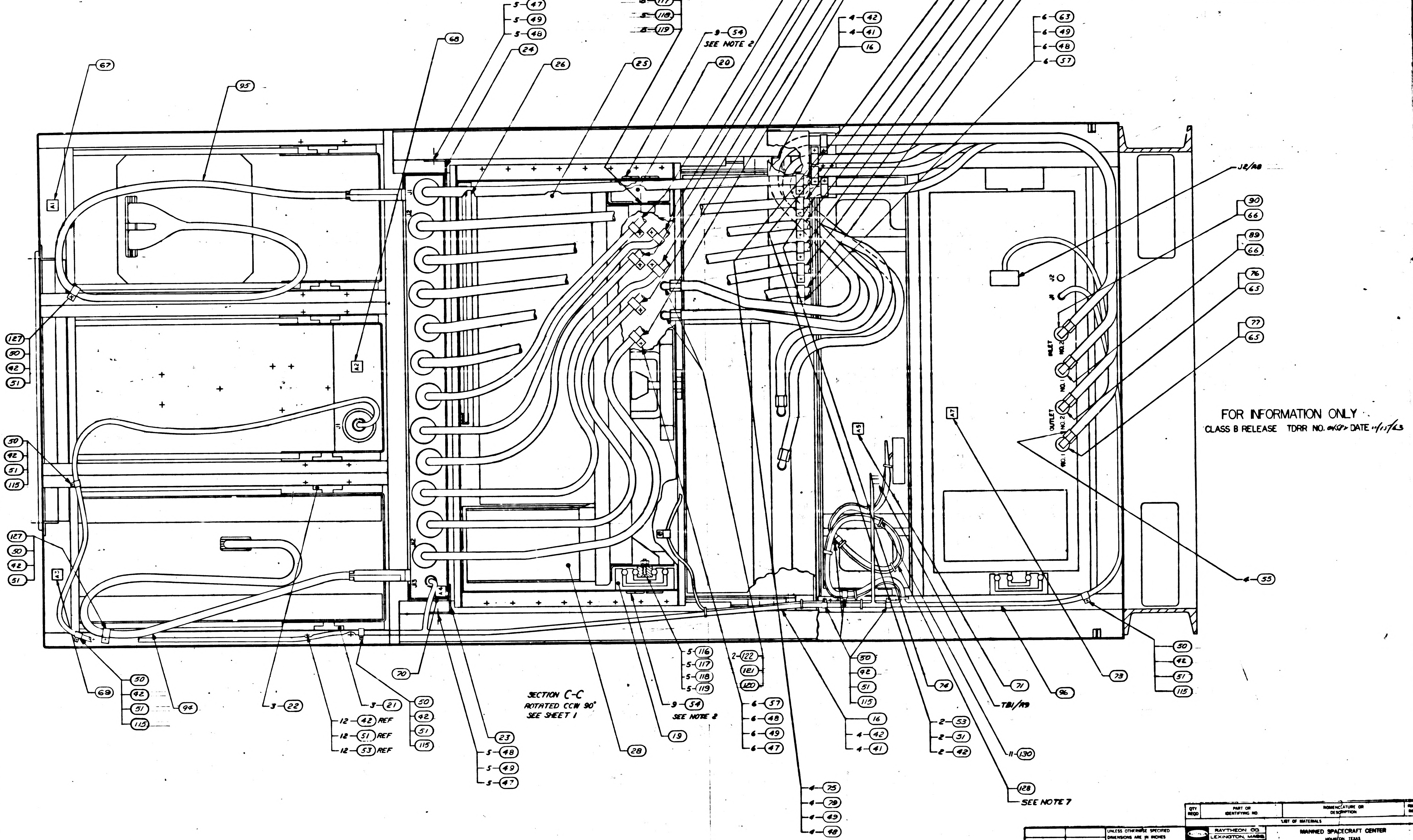
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGC/CTS OPERATION CONSOLE ASS

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014465
SCALE 1/4
WT
SHEET 2 OF 6

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

SYM	REVISIONS DESCRIPTION	DATE	APPROVED
A	CL B RELEASED PER TDRR		
B	CHANGED PER TDRR NO. 10448 DR S.T. Qufin CHK JCJ APPD	64	KCB
C	CHANGED PER TDRR NO. 13698. DR R. CHK RTD APPD	3 [illegible] 64	KCB



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36 REF
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SEE NOTE 2
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SECTION C-C
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SEE NOTE 7

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 24581 DATE 11/15/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ITEM NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

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APPROVAL
APPROVAL
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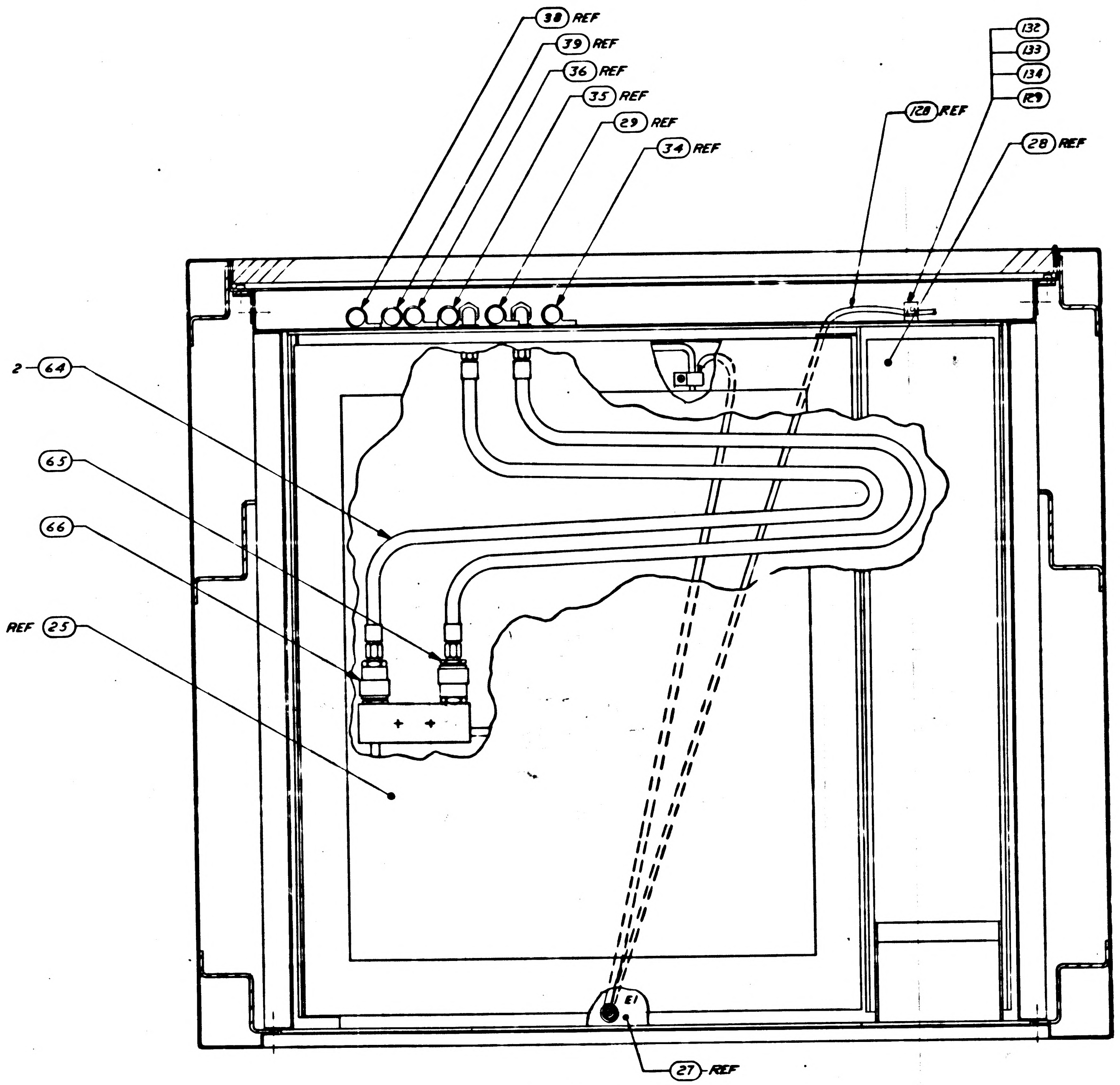
CODE IDENT NO. SIZE J
NASA DRAWING NO 1014465
SCALE 1/2 WT SHEET 4 OF 6

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
B	CHANGED PER TDRR 10998 DR. W. Dunn CHK. JCJ APPD.	28 Jul 64	KCS
C	CHANGED PER TDRR NO. 13698. DR CHK RTD APPD	13 Nov 64	KCS



SHOWN WITH FIND NO. 6 REMOVED

SECTION E-E
SEE SHEET 1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04580 DATE 11/15/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1020002	

APPLICATION

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FRACTIONS DECIMALS ANGLES
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RAYTHEON CO.
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CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED 28 OCT 63
APPROVAL 4 NOV 63
APPROVAL
APPROVAL
NASA APPROVAL
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MIT APPROVAL

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HOUSTON, TEXAS

AGC/CTS OPERATION CONSOLE ASSY

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014465
SCALE 1/2
WT
SHEET 5 OF 6

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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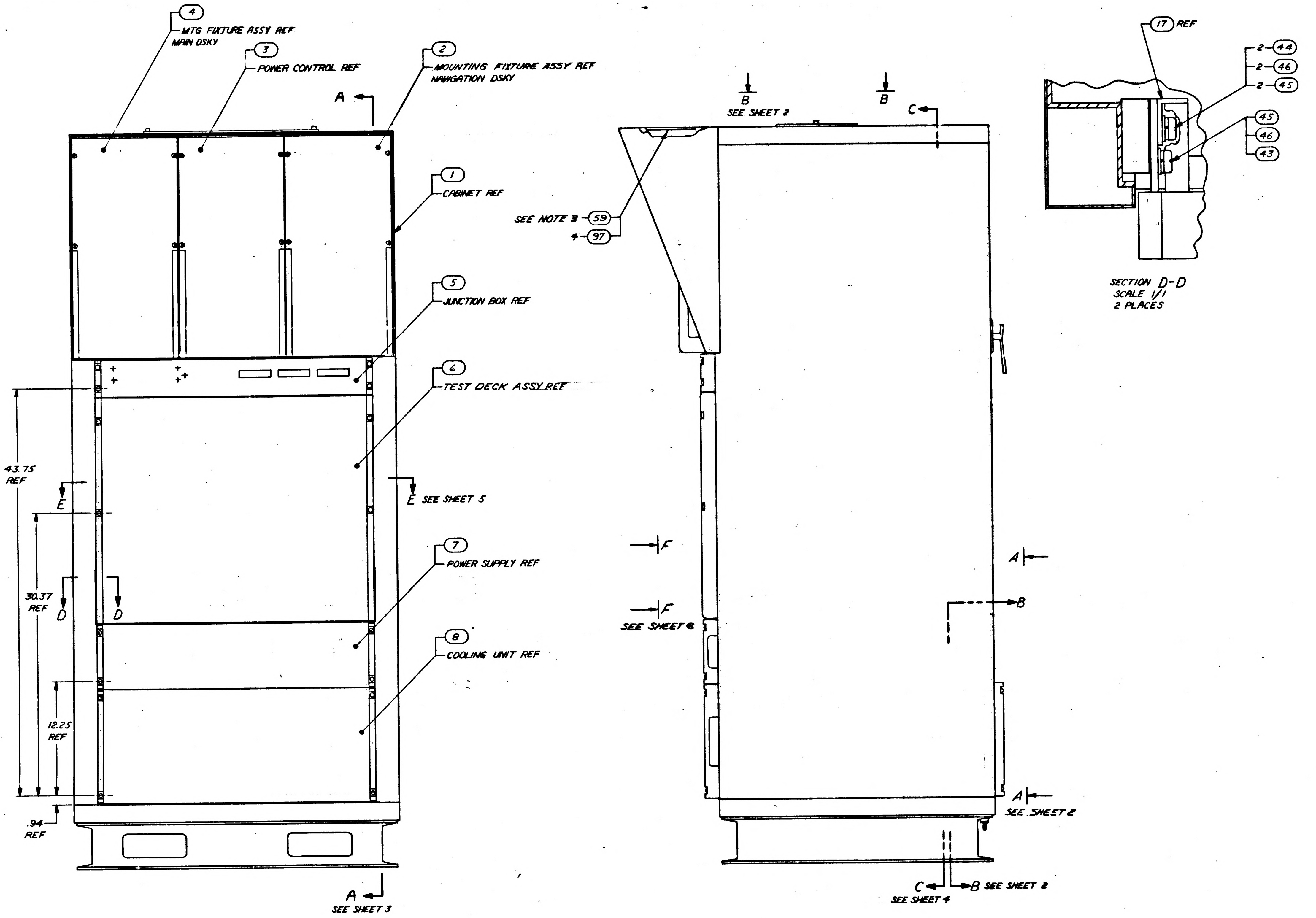

SECTION D-D
SCALE 1/1
2 PLACES

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04582 DATE 11/1/63

NOTES
1. NUMBERS PRECEDING BALLOONS DENOTE QUANTITIES
2. ASSEMBLE FIND NO. 54 USING FIND NO. 52
3. MARK APPLICABLE INFORMATION, .09 HIGH BLACK CHARACTERS PER ND 1002019

PARTS LIST CONTINUED ON SHEET 2			
1	1014480-1	DECAL, IDENTIFICATION	67
3	1006659-2	COUPLING, HALF FEMALE	66
3	1006670	COUPLING, HALF MALE	65
2	AN6270-4-41	HOSE ASSY	64
6	MS35234-46	SCREW, PAN HD	63
20	MS35234-60	SCREW, PAN HD	62
14	MS35650-104	NUT, HEX PLAIN	61
4	MS35234-64	SCREW, PAN HD	60
1	1020086	NAMEPLATE, APOLLO G&N	59
16	MS35250-71	SCREW, FLAT HD	58
12	MS25281-10	CLAMP, LOOP	57
2	AN6270-4-L-11 1/2	HOSE ASSY	56
6	1006739	ELBOW, SWIVEL NUT	55
18	MS35249-87	SCREW, FLAT HD	54
24	MS35234-61	SCREW, PAN HD	53
AR	MIL-S-40083 CL31	COMPOUND, SEALING	52
88	MS35338-81	WASHER, LOCK	51
14	MS35234-63	SCREW, PAN HD	50
27	MS35338-80	WASHER, LOCK	49
27	MS15795-307	WASHER, FLAT	48
21	MS35233-45	SCREW, PAN HD	47
6	MS35338-83	WASHER, LOCK	46
6	MS15795-312	WASHER, FLAT	45
4	MS35233-99	SCREW, PAN HD	44
2	MS35233-98	SCREW, PAN HD	43
72	MS15795-308	WASHER, FLAT	42
8	MS35233-66	SCREW, PAN HD	41
1	1020041	CABLE ASSY W13	40
1	1020049	W12	39
1	1020020	W11	38
1	1020042	W10	37
1	1020045	W9	36
1	1020021	W8	35
1	1020011	W7	34
1	1020009	W6	33
1	1020003	W5	32
1	1014498	W4	31
1	1014496	W3	30
1	1014495	CABLE ASSY W2	29
1	1020010	TEST MOUNT ASSY	28
1	1014372	CHASSIS ASSY CMPTR COMPT	27
1	1014447	CABLE SUPPORT TRAY ASSY	26
REF	1020001	HANDLING FIXTURE, AGC	25
1	1014438	SLIDE, LH	24
1	1014437	SLIDE, RH	23
3	1006665-4	SLIDE, QUICK DISCONNECT	22
3	1006665-3	SLIDE, QUICK DISCONNECT	21
1	1006854-2	SLIDE CHASSIS, LOCK OPEN	20
1	1006854-1	SLIDE CHASSIS, LOCK OPEN	19
1	1014479-2	BRACKET SPRING ASSY	18
1	1014479-1	BRACKET SPRING ASSY	17
2	1014429	STOP, DOOR	16
16	MS15795-309	WASHER, FLAT	15
20	MS35234-62	SCREW, PAN HD	14
2	1014473	BRACKET, ANGLE	13
1	1014416	AC INPUT PANEL ASSY	12
1	1006856	FAN, VENTILATING	11
1	1014453	CONN. INTERFACE PANEL ASSY	10
1	1006918	FILTER, AIR RFI SHIELDED	9
1	1020051	COOLING UNIT	8
1	1014404	POWER SUPPLY ASSY	7
1	1014468	TEST DECK ASSY	6
1	1014434	JUNCTION BOX ASSY	5
1	1014377	MTG FIX. ASSY MAIN DSKY	4
1	1014388	POWER CONTROL ASSY	3
1	1014334	MTG FIX. ASSY NAVIGATION DSKY	2
1	1020070	CABINET REWORK	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

–	–	–	–	–	–
SH1	SH2	SH3	SH4	SH5	SH6

REVISION STATUS OF SHEETS

NEXT ASSY	USED ON
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MATERIAL
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN Jl Tapia DATE 12 Aug 63
CHECKED A. J. Marinaro 24 Oct 63
APPROVAL P. Moran 4 Nov 63
APPROVAL 4 Nov 63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

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HOUSTON, TEXAS

AGC/CTS OPERATION CONSOLE ASSY

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SIZE J
NASA DRAWING NO 1014465
SCALE 1/4
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SHEET 1 OF 6

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
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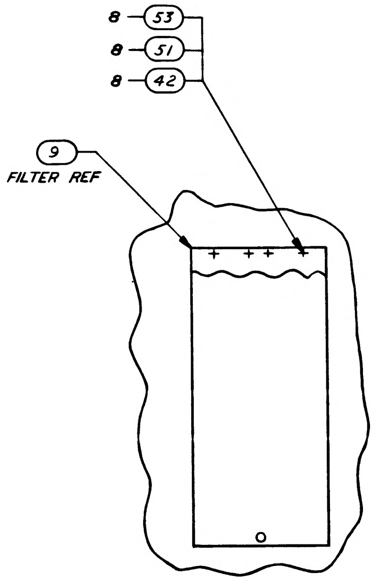
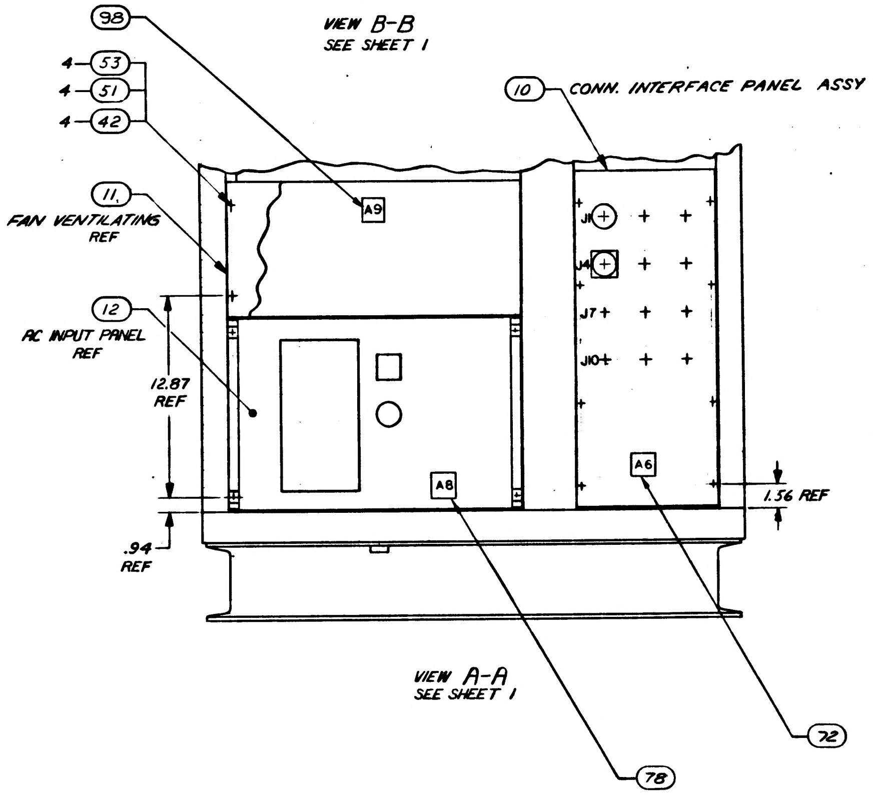
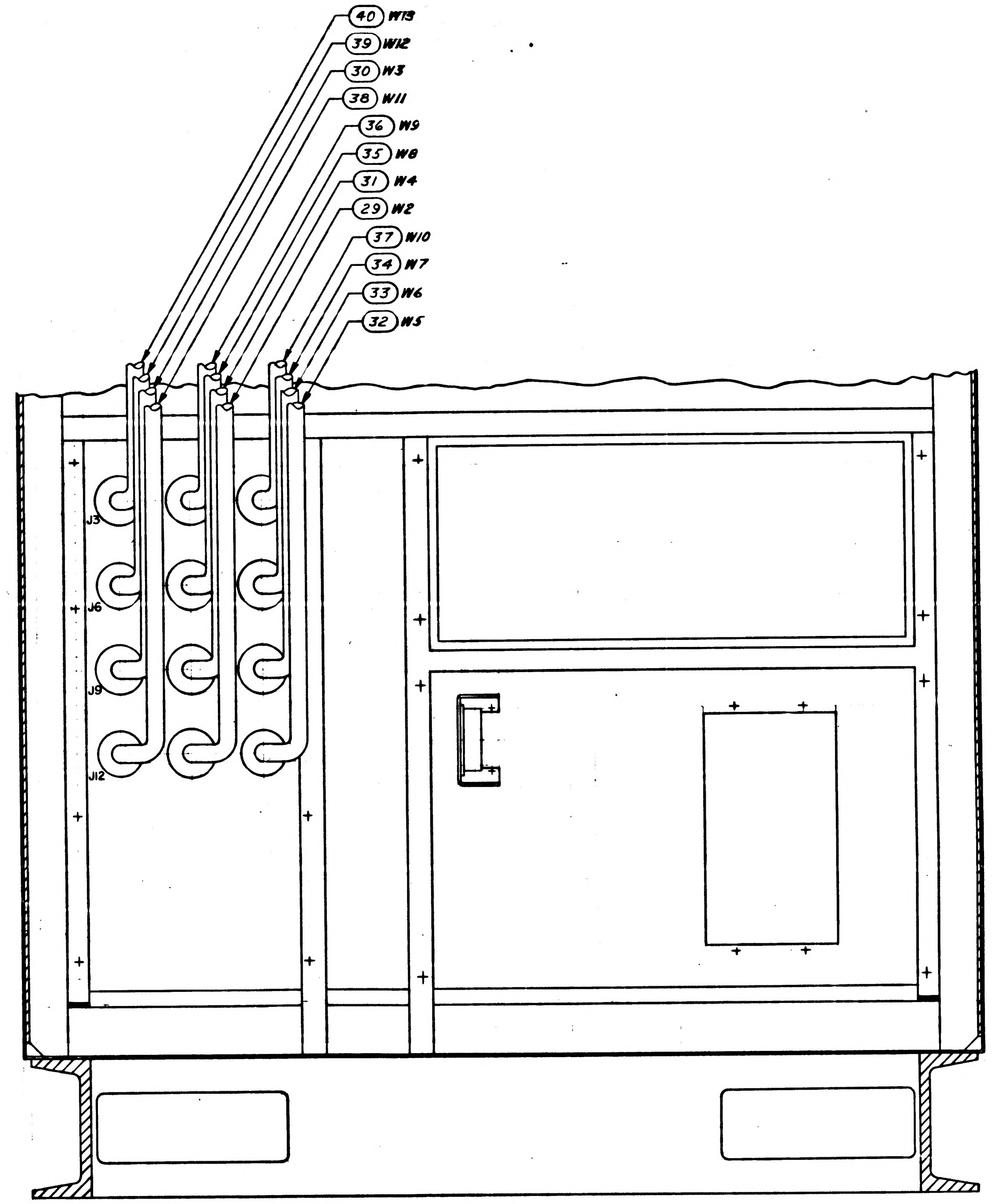


VIEW B-B
SEE SHEET 1



VIEW A-A
SEE SHEET 1



SECTION B-B
SEE SHEET 1
SCALE 1/2

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04-78- DATE 11/1/63

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2	1014480-9	DECAL, IDENTIFICATION	98
4	MS20470A2-4	RIVET, UNIVERSAL	97
1		WIRING HARNESS	96
1		CABLE ASSY, MAIN DSKY	95
1		CABLE ASSY, NAV DSKY	94
1		TEST CABLE ASSY, S/C	93
1		TEST CABLE ASSY, PSA	92
1		TEST CABLE ASSY, PM	91
1	1020077-4	HOSE ASSY	90
1	1020077-3	HOSE ASSY	89
1	1020038	STICK EXTENDER ASSY NO. 6	88
1	1020037	STICK EXTENDER ASSY NO. 5	87
1	1020036	STICK EXTENDER ASSY NO. 4	86
1	1020035	STICK EXTENDER ASSY NO. 3	85
1	1020034	STICK EXTENDER ASSY NO. 2	84
1	1020033	STICK EXTENDER ASSY NO. 1	83
1	1020054-2	TRAY EXTENDER B	82
1	1020054-1	TRAY EXTENDER A	81
1	1020072	STORAGE COMPARTMENT ASSY	80
4	MS35233-43	SCREW, PAN HD	79
1	1014480-8	DECAL, IDENTIFICATION	78
1	1020077-1	HOSE ASSY	77
1	1020077-2	HOSE ASSY	76
4	MS25281-8	CLAMP, LOOP	75
1	1020074	PLATE, HOSE SUPPORT	74
2	1014480-7	DECAL, IDENTIFICATION	73
2	1014480-6	DECAL, IDENTIFICATION	72
2	1014490-5	DECAL, IDENTIFICATION	71
2	1014480-4	DECAL, IDENTIFICATION	70
2	1014480-3	DECAL, IDENTIFICATION	69
2	1014480-2	DECAL, IDENTIFICATION	68

LIST OF MATERIALS

NEXT ASSY	USED ON
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APPLICATION

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LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN B.Y. DATE 30 Aug 63
CHECKED O.J. Marinaro 24 OCT 63
APPROVAL P. Miraz JPK 4 Nov 63
APPROVAL 4 NOV 63
APPROVAL
NASA APPROVAL 11/1/63
MIT APPROVAL
MIT APPROVAL 2 Nov 63

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CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014465
SCALE 1/4
WT
SHEET 2 OF 6

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INCHES
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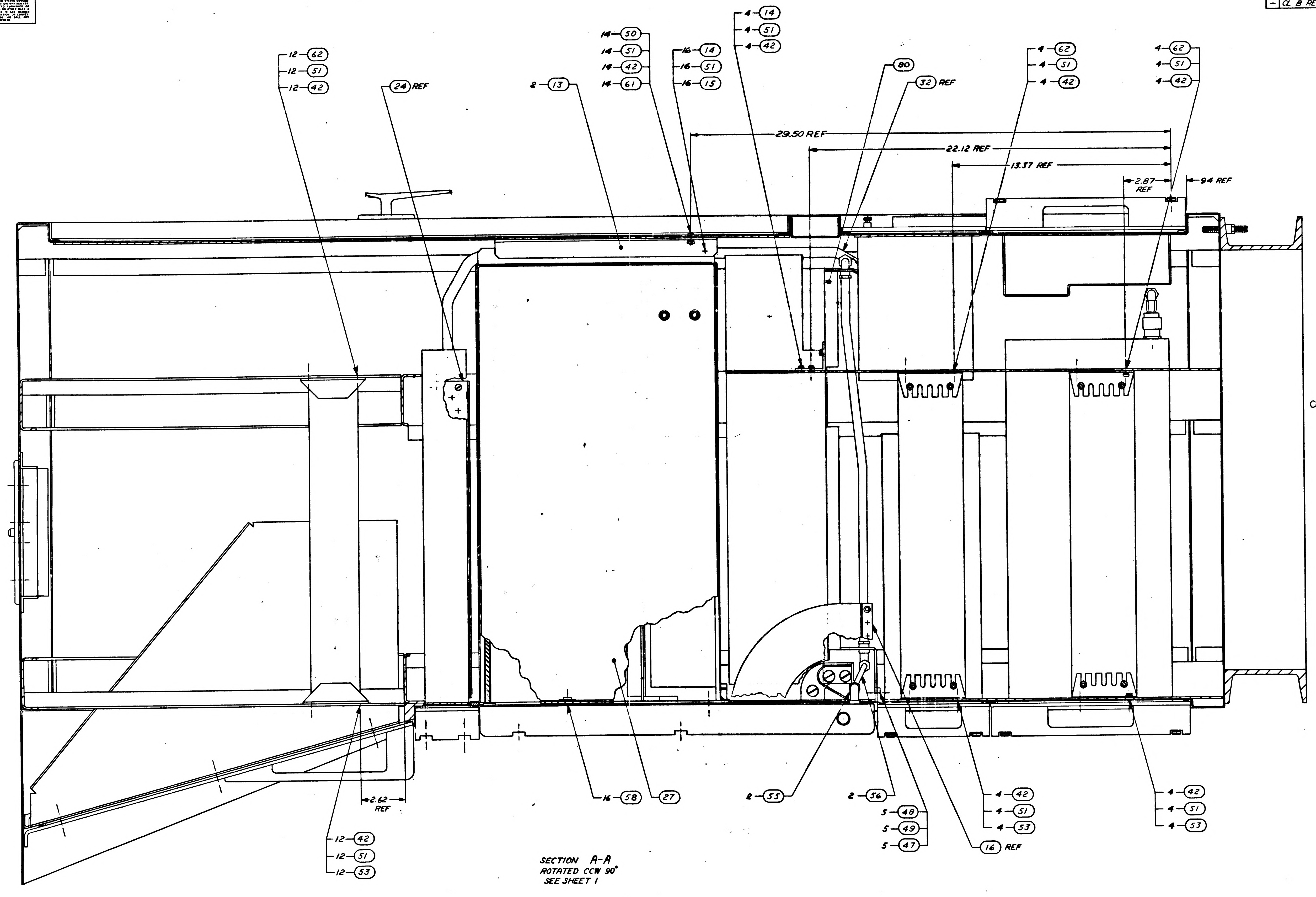

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SECTION A-A
ROTATED CCW 90°
SEE SHEET 1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04120 DATE 11/14/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1020002	
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APPLICATION	

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LEXINGTON, MASS
CONTRACT NO NAS 9-498
DRAWN B.J. Kapia DATE 12 Aug 63
CHECKED C.J. Marinaro 24 Oct 63
APPROVAL P. Mine 4 Nov 63
APPROVAL [illegible] 9 Nov 63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

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CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014465
SCALE 1/2
WT
SHEET 3

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1014465

INCHES
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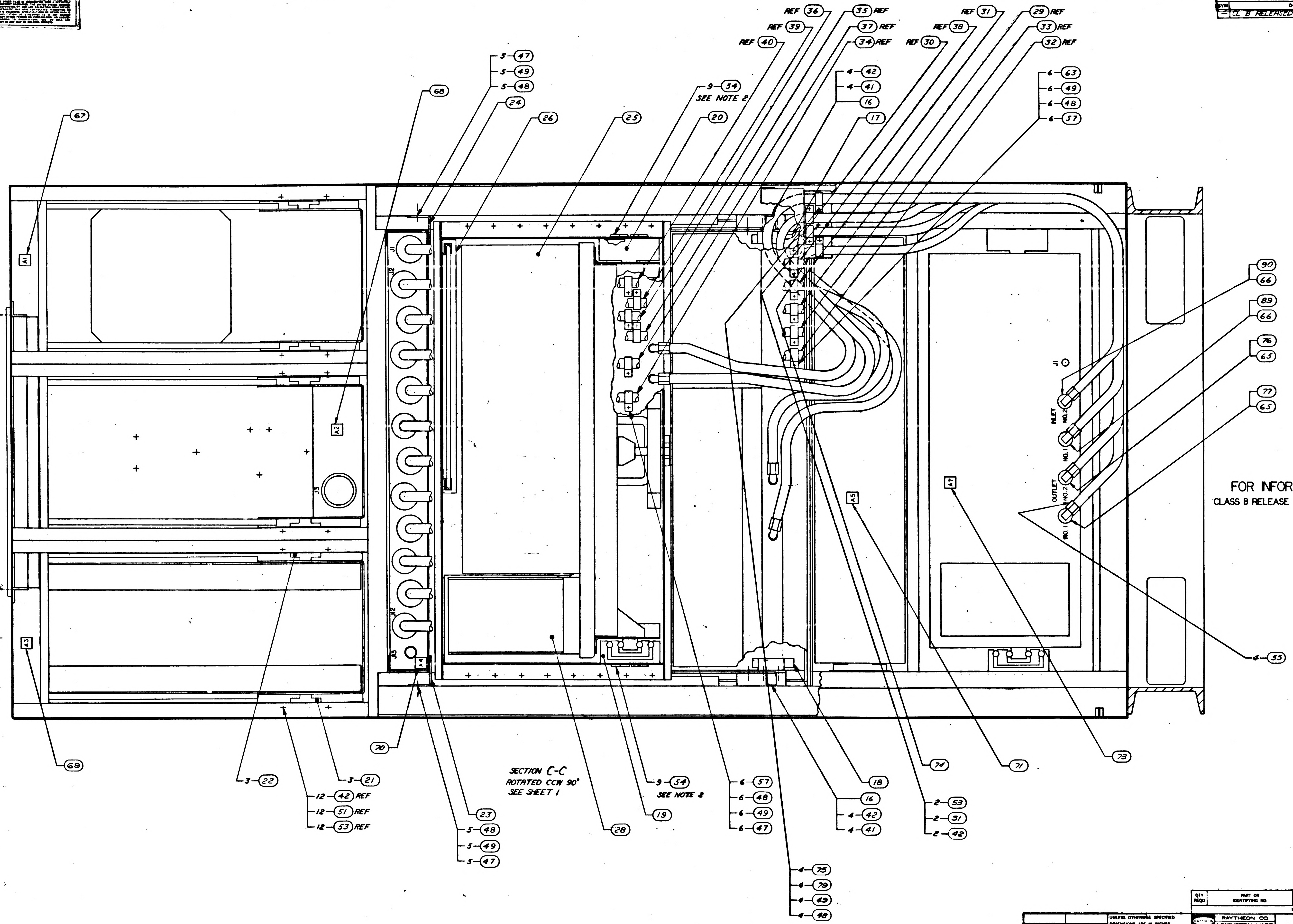

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SECTION C-C
ROTATED CCW 90°
SEE SHEET 1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04587 DATE 11/15/63

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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APPLICATION	

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN A J Spain DATE 7 Oct 63
CHECKED A J Morrison 28 Oct 63
APPROVAL W Morse 9 Nov 63
APPROVAL 4 Nov 63
APPROVAL
NASA APPROVAL 11/1/63
MIT APPROVAL
MIT APPROVAL 12 Nov 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

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CODE IDENT NO.
SIZE J
NASA DRAWING NO. 1014465
SCALE 1/2
SHEET 4 OF 6

INCHES
1 2
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REVISIONS

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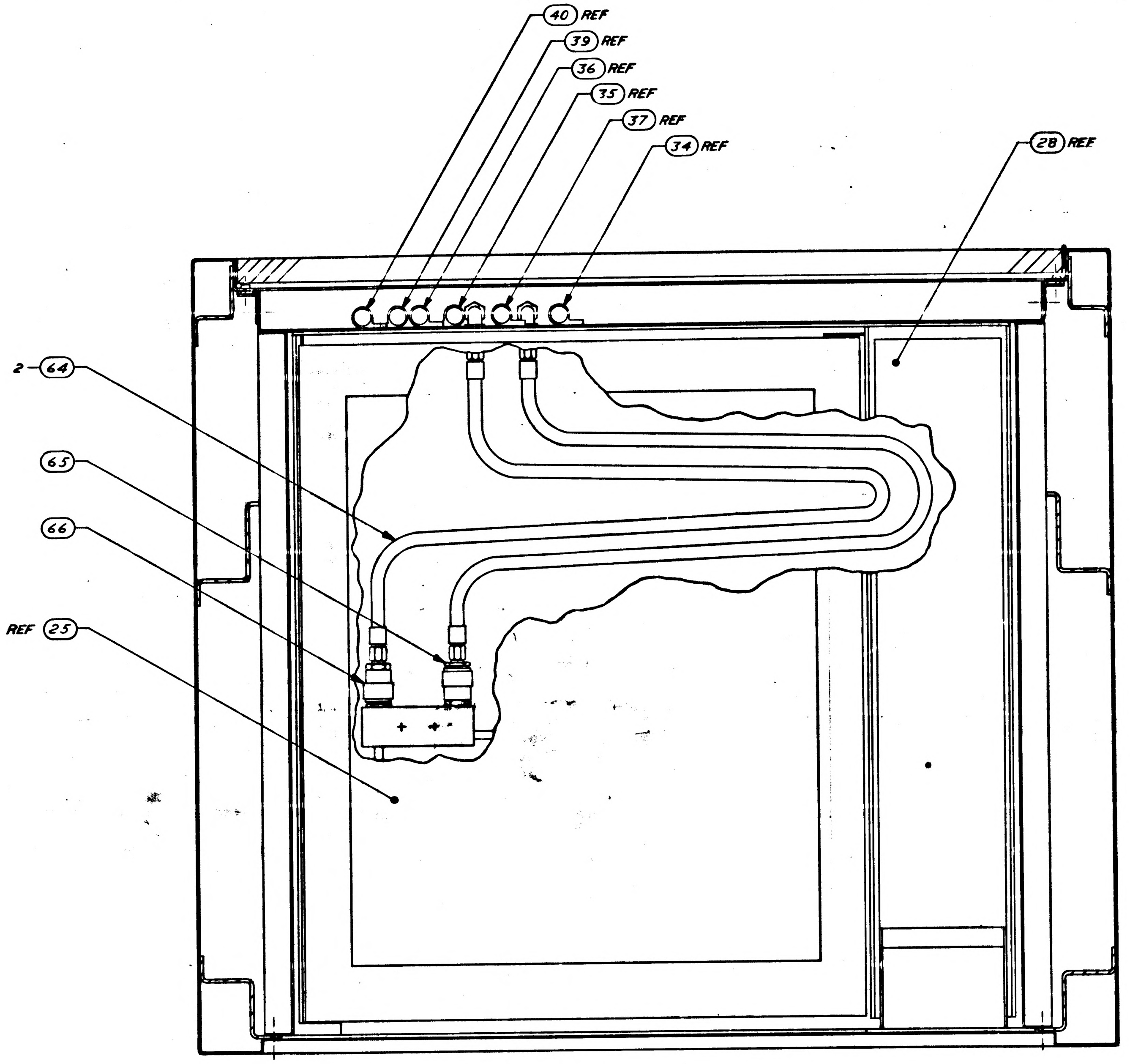

SHOWN WITH FIND NO. 6 REMOVED
SECTION E-E
SEE SHEET 1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 0458 DATE 11/15/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

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CONTRACT NO NAS 9-498
DRAWN B. J. Papia DATE 26 [illegible]
CHECKED [illegible] 24 OCT 63
APPROVAL [illegible] 4 NOV 63
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 63
MIT APPROVAL [illegible] 12 Nov 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

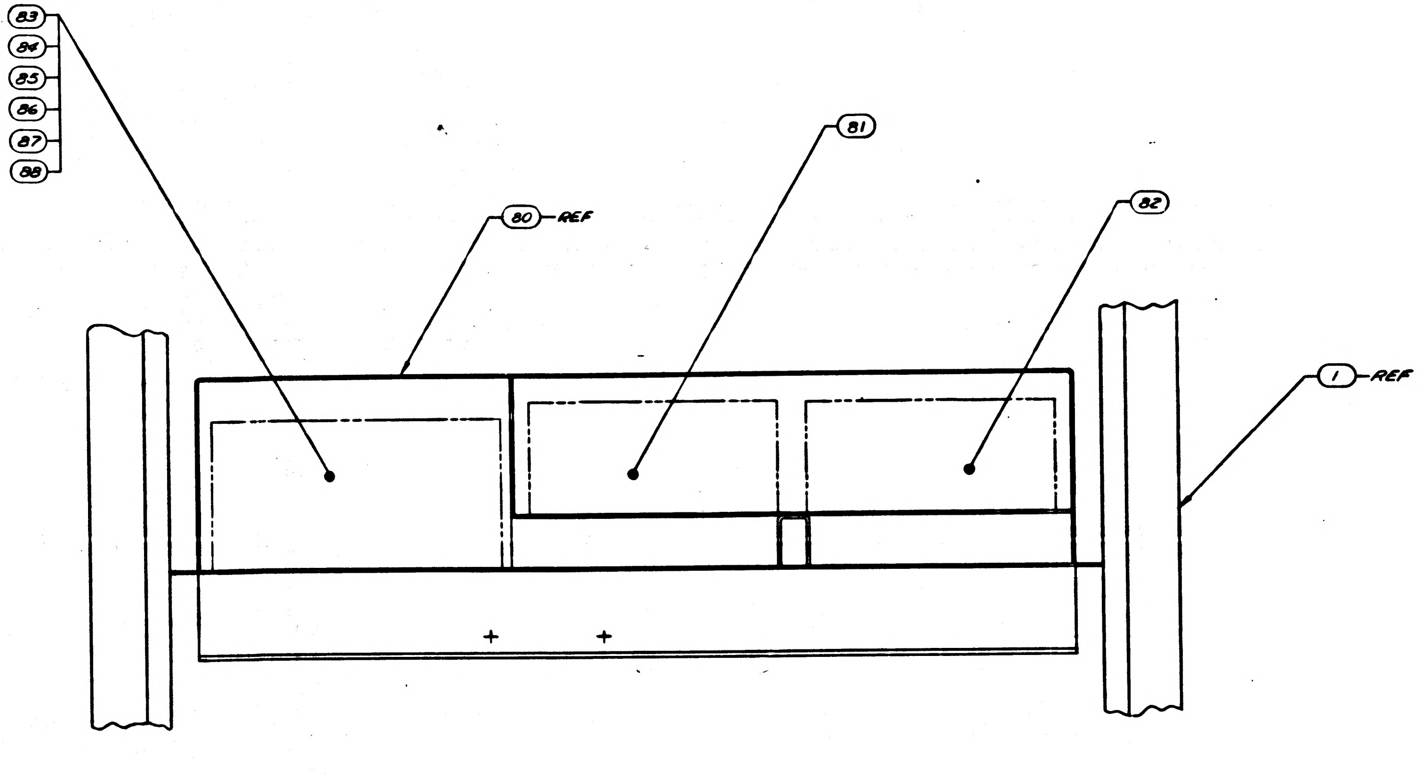
AGC/CTS OPERATION CONSOLE ASSY

CODE IDENT NO. ——— SIZE J NASA DRAWING NO 1014465
SCALE 1/2 WT SHEET 5 OF 6

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		



PARTIAL VIEW F-F
SHOWN WITH FIND NO.6 REMOVED
SEE SHEET 1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04582 DATE 11/12/63

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1020002	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 28 Oct 63
CHECKED 28 Oct 63
APPROVAL 9 Nov 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 12 Nov 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGC/CTS OPERATION CONSOLE
ASSY

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014465
SCALE 1/2
WT
SHEET 6 OF 6

1014465

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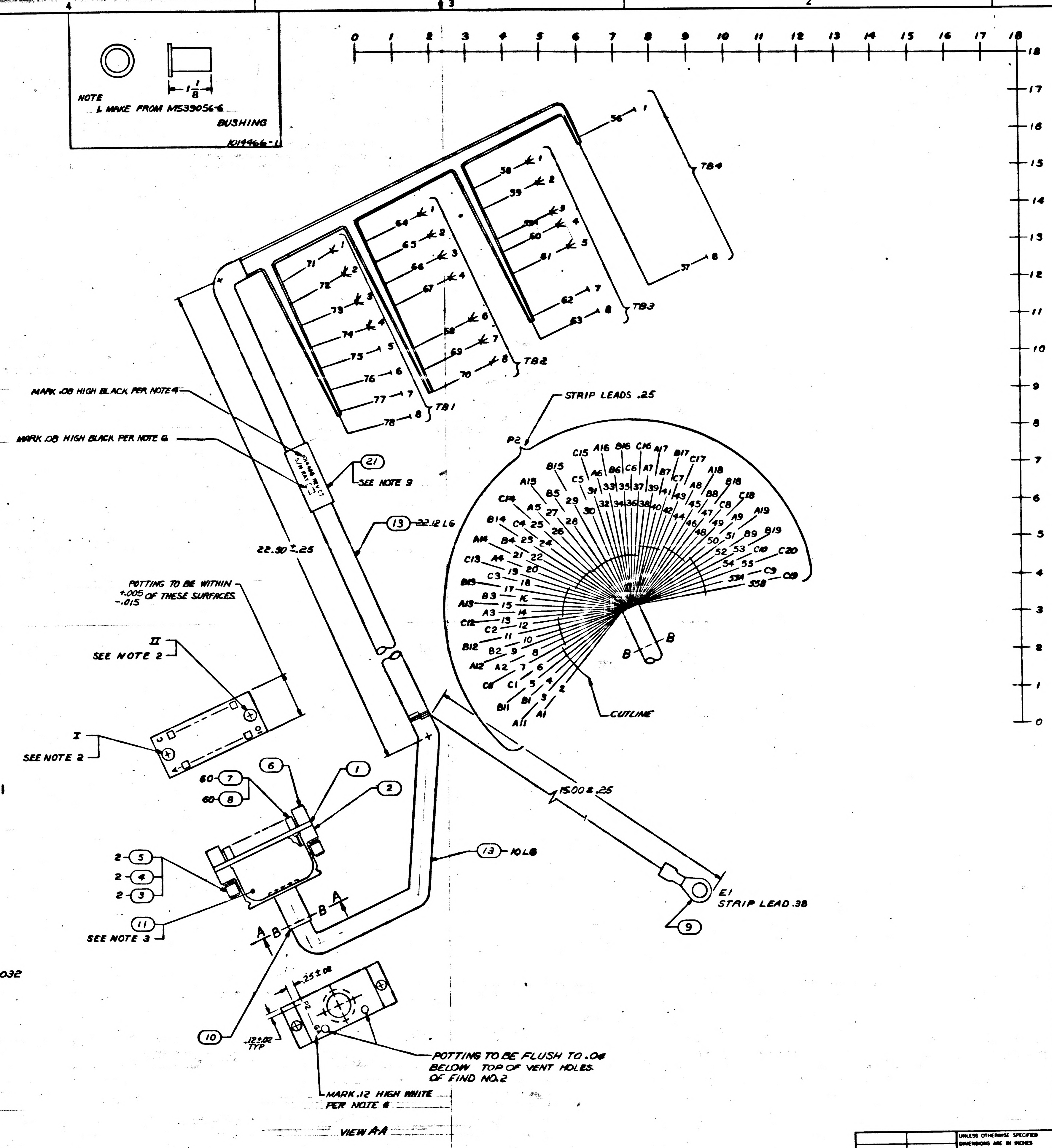
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R 5567A DR. PL [illegible] CHK [illegible] APPD [illegible]	12/26/63	JJB
B	CL II CHANGE PER RD R 5739 DR RD. Glenn CHK R. Sargent APPD [illegible]	17 FEB 64	JJB
C	CHANGED PER TDRR 07653 DR [illegible] CHK [illegible] APPD [illegible]	23 APR 64	KEB

ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	23	RED	20	12	58	
	24				58	
	25				58	
	26				59	
	27				59	
	28				59	
	29				60	
	30				60	
	31				60	
	32				61	
	33				61	
	34	RED		12	61	
	2	ORN		14	64	
	3				64	
	4				64	
	5				65	
	6				65	
	7				65	
	8				66	
	9				66	
	10				66	
	11				67	
	12				67	
	13				67	
	14				68	
	15				68	
	16				68	
	17				69	
	18				69	
	19				69	
	20				70	
	21				70	
	36				62	
	37	ORN		14	63	
	38	GRN		15	75	
	44				74	
	45				74	
	48				73	
	49				73	
	50				72	
	53	GRN		15	72	
	42	VIO		16	74	
	43				74	
	46				73	
	47				73	
	51				72	
	52	VIO		16	72	
	39	WHT		17	76	
	40	WHT	20	17	77	
	1	WHT	4	18	56	
	54	BLK	20	19	71	
	55	BLK	20	19	71	
	35	WHT/RED	20	20	57	
	41	WHT/RED	20	20	78	
	59A	RED	20	12	22	
	59A	RED	20	12	55A	
	59A	RED	20	12	55B	


NOTE
1. MAKE FROM MS39056-6
1 1/8
BUSHING
1014466-1
TB4
TB3
TB2
TB1
56 1
57 8
58 1
59 2
59A 3
60 4
61 5
62 7
63 8
64 1
63 2
66 3
67 4
68 6
69 7
70 8
71 1
72 2
73 3
74 4
75 5
76 6
77 7
78 8
MARK .08 HIGH BLACK PER NOTE 4
MARK .08 HIGH BLACK PER NOTE 6
1014466 REV [ ]
S/N RAY [ ]
21
SEE NOTE 9
13 22.12 LG
22.50 ± .25
STRIP LEADS .25
P2
CUTLINE
B
B
POTTING TO BE WITHIN +.005 -.015 OF THESE SURFACES
II
SEE NOTE 2
I
SEE NOTE 2
6
1
2
60 7
60 8
2 5
2 4
2 3
11
SEE NOTE 3
A
B
B
A
13 10 LG
15.00 ± .25
E1
STRIP LEAD .38
9
10
.25 ± .02
.12 ± .02 TYP
P2
G
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES. OF FIND NO. 2
MARK .12 HIGH WHITE PER NOTE 4
VIEW A-A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 05P35 DATE 10/19/63

NOTES

1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 11 PER ND1002009 METHOD E
4. MARK PER ND 1002019
5. MIL-I-631 TYPE F, FOAM U2 GRADE A CLASS I CATEGORY I FOR FIND NO. 13 AWG 5/8 IN. COLOR WHT
6. MARK SER NO. PER ND1002023
7. NUMBERS PRECEDING BALLOONS DENOTES QUANTITY
8. STRIP ALL LEADS .38 UNLESS OTHERWISE SPECIFIED
9. BOND USING TETRAHYDOFURAN WITH 10% POLYVINYL CHLORIDE

~~10. POTTING TO BE +.005 -.015 FROM SURFACES OF FIND NO. 2~~

—	1020019	SCHEMATIC	REF
1	1014472-3	BAND MARKER, CABLE	21
AR	MIL-W-16878/4 TYPE E, 20 WHT/RED	WIRE, ELEC	20
AR	MIL-W-16878/4 TYPE E, 20, BLK		19
AR	MS25190-B-4 WHT		18
AR	MIL-W-16878/4 TYPE E, 20, WHT		17
AR	20, VIO		16
AR	20, GRN		15
AR	MIL-W-16878/4, TYPE E, 20, ORN	WIRE, ELEC	14
AR	SEE NOTE 5	SLEEVING	13
AR	MIL-W-16878/4, TYPE E, 20 RED	WIRE, ELEC	12
AR	1006683	COMPOUND SILICONE RUBBER	11
1	1014466-1	BUSHING	10
1	MS25036-25	TERMINAL, LUG	9
60	1010380	INSULATOR BUSHING, FEMALE	8
60	1010379-1	CONTACT, ELECTRICAL FEMALE	7
2	1014032	RECEPTACLE, INDEXING	6
2	1006997	WASHER, PLAIN FLAT	5
2	MS35337-79	WASHER, LOCK	4
2	1006998-1	SCREW, CAPTIVE	3
1	1014000-4	FRAME, MODULE	2
1	1014021	PLATE, CONNECTOR	1
QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN C. LaPorte DATE 3 Aug 63
CHECKED A. G. Cousins 21 Aug 63
APPROVAL C. Spalding 3 Sept 63
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS BRANCHED
DC POWER

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014466
SCALE 1/1 WT SHEET OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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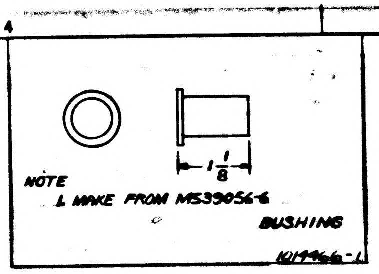


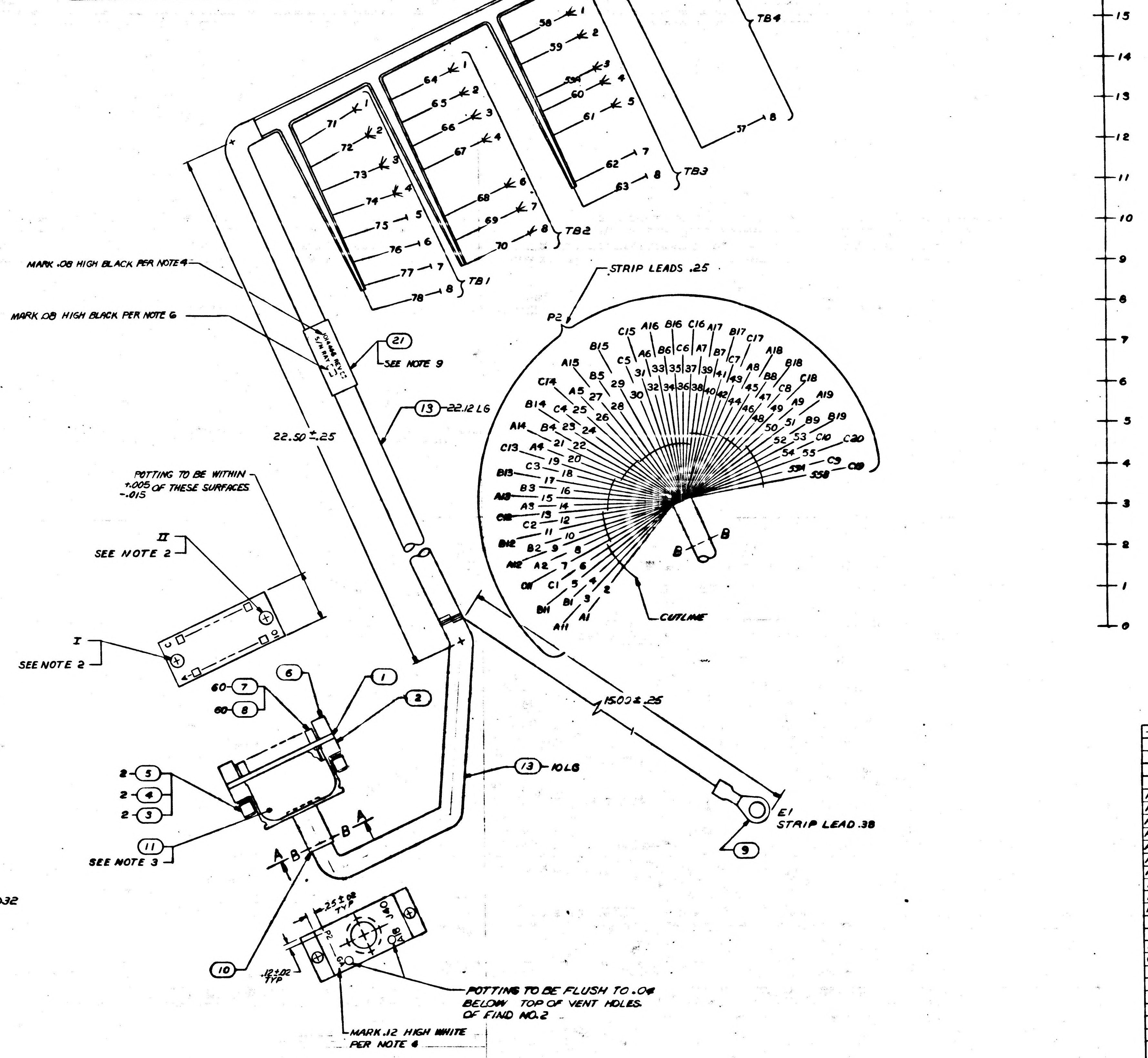
NOTE
1. MAKE FROM MS39056-6

BUSHING

1014466-1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R5567A DR. PL CHK APPD	12/23/63	
B	CL II CHANGE PER RD-R 5739 DR R.D. Glenn CHK R. Sargent APPD	17 FEB 64	
C	CHANGED PER TDRR 07653 DR CHK APPD	23 APR 64	KEB
D	CHANGED PER TDRR 11304 DR CHK APPD	7 AUG 64	KEB

ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	23	RED	20	12	58	
	24	↑	↑	↑	58	
	25				58	
	26				59	
	27				59	
	28				59	
	29				60	
	30				60	
	31				60	
	32				61	
	33	↓		↓	61	
	34	RED		12	61	
	2	ORN		14	64	
	3	↑		↑	64	
	4				64	
	5				65	
	6				65	
	7				65	
	8				66	
	9				66	
	10				66	
	11				67	
	12				67	
	13				67	
	14				68	
	15				68	
	16				68	
	17				69	
	18				69	
	19				69	
	20				70	
	21				70	
	36	↓		↓	62	
	37	ORN		14	63	
	38	GRN		15	75	
	44	↑		↑	74	
	45				74	
	48				73	
	49				73	
	50	↓		↓	72	
	53	GRN		15	72	
	42	VIO		16	74	
	43	↑		↑	74	
	46				73	
	47				73	
	51	↓		↓	72	
	52	VIO		16	72	
	39	WHT	↓	17	76	
	40	WHT	20	17	77	
	1	WHT	4	18	56	
	54	BLK	20	19	71	
	55	BLK	20	19	71	
	35	WHT/RED	20	20	57	
	41	WHT/RED	20	20	78	
	59A	RED	20	12	22	
	59A	RED	20	12	55A	
	59A	RED	20	12	55B	


36
1
TB4
58
59
59A
60
61
62
63
2
3
4
5
7
8
37
TB3
64
65
66
67
68
69
70
TB2
71
72
73
74
75
76
77
78
TB1
MARK .08 HIGH BLACK PER NOTE 4
MARK .08 HIGH BLACK PER NOTE 6
1014466 REV
S/N RAY
21
SEE NOTE 9
13
22.12 LG
22.50 ±.25
STRIP LEADS .25
P2
A1 A2 A3 A4 A5 A6 A7 A8 A9 A10 A11 A12 A13 A14 A15 A16 A17 A18 A19
B1 B2 B3 B4 B5 B6 B7 B8 B9 B10 B11 B12 B13 B14 B15 B16 B17 B18 B19
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10 C11 C12 C13 C14 C15 C16 C17 C18 C19 C20
55A
55B
B
B
CUTLINE
POTTING TO BE WITHIN +.005 -.015 OF THESE SURFACES
II
SEE NOTE 2
I
SEE NOTE 2
60-7
60-8
6
1
2
2-5
2-4
2-3
11
SEE NOTE 3
A
B
B
A
13
10LG
15.00±.25
E1
STRIP LEAD .38
9
10
.25±.02 TYP
.12±.02 TYP
P2
J40
A18
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO.2
MARK .12 HIGH WHITE PER NOTE 4
VIEW A-A

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 11 PER ND1002009 METHOD E
4. MARK PER ND 1002C19
5. MIL-I-631 TYPE F, FORM U, GRADE A CLASS I CATEGORY I FOR FIND NO. 13 AWG 5/8 IN. COLOR WHT
6. MARK SER NO. PER ND1002023
7. NUMBERS PRECEDING BALLOONS DENOTES QUANTITY
8. STRIP ALL LEADS .38 UNLESS OTHERWISE SPECIFIED
9. BOND USING TETRAHYDOFURAN WITH 10% POLYVINYL CHLORIDE
~~10. POTTING TO BE +.005 -.015 FROM SURFACES OF FIND NO. 2~~

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE 11/1/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO.
—	1020019	SCHEMATIC	REF
1	1014472-3	BAND MARKER CABLE	21
AR	MIL-W-16878/4 TYPE E,20 WHT/RED	WIRE, ELEC	20
AR	MIL-W-16878/4 TYPE E,20,BLK	↑	19
AR	MS25190-B-4 WHT		18
AR	MIL-W-16878/4 TYPE E,20, WHT		17
AR	↑ 20,VIO		16
AR	↓ 20,GRN	↓	15
AR	MIL-W-16878/4,TYPE E,20,ORN	WIRE, ELEC	14
AR	SEE NOTE 5	SLEEVING	13
AR	MIL-W-16878/4, TYPE E, 20 RED	WIRE, ELEC	12
AR	1006683	COMPOUND SILICONE RUBBER	11
1	1014466-1	BUSHING	10
1	MS25036-25	TERMINAL, LUG	9
60	1010380	INSULATOR BUSHING, FEMALE	8
60	1010379-1	CONTACT, ELECTRICAL FEMALE	7
2	1014032	RECEPTACLE, INDEXING	6
2	1006997	WASHER, PLAIN FLAT	5
2	MS35337-79	WASHER, LOCK	4
2	1006998-1	SCREW, CAPTIVE	3
1	1014000-4	FRAME, MODULE	2
1	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014466

1014156	1020002	
NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN C. LaPorte DATE 3 Aug 63
CHECKED A. G. 21 Aug 63
APPROVAL C. 30 Sep 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS BRANCHED
DC POWER

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014466
SCALE 1/1
WT
SHEET OF

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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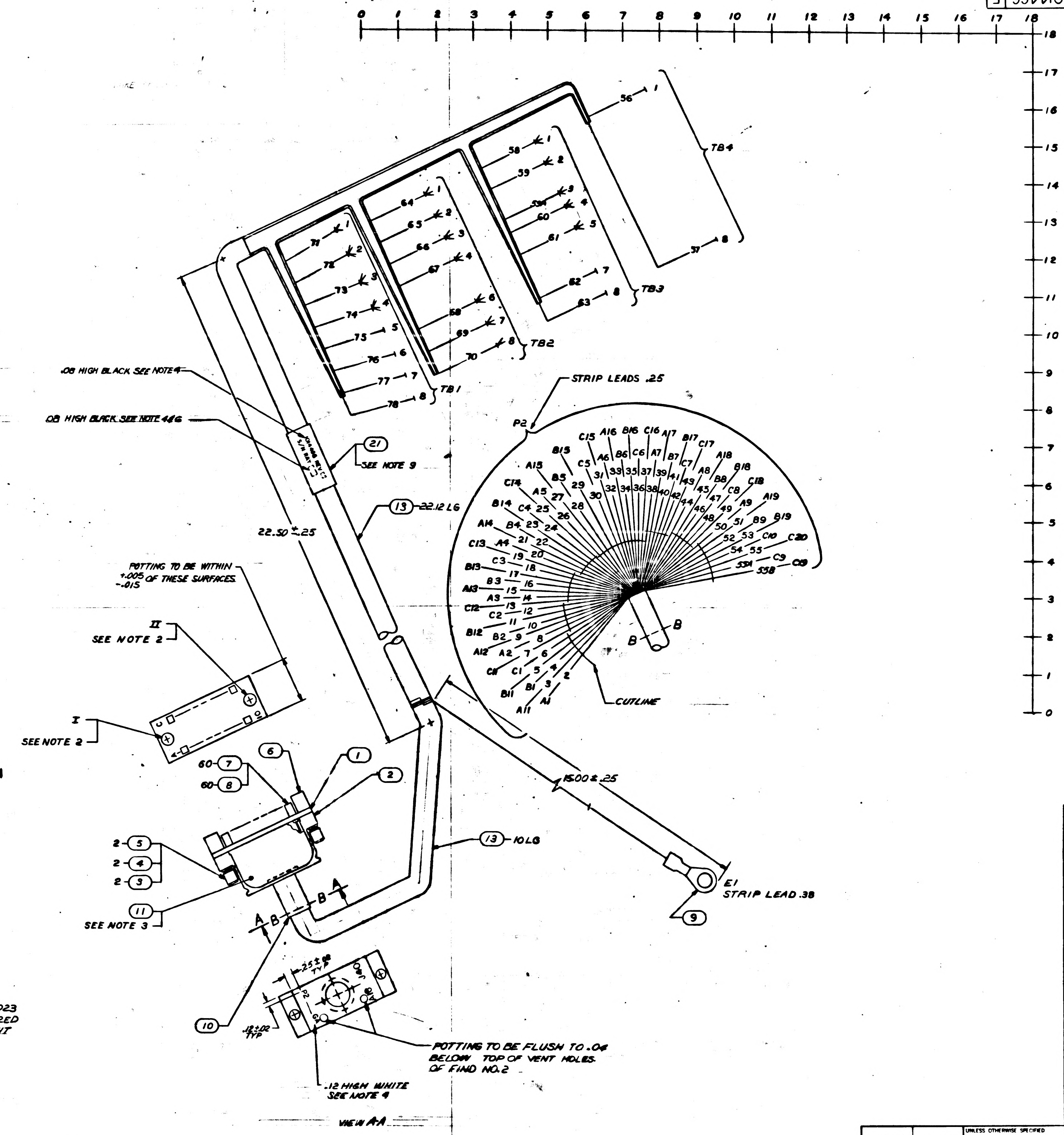
1014466 E

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	23	RED	20	12	58	
	24	↑	↑	↑	58	
	25				58	
	26				59	
	27				59	
	28				59	
	29				60	
	30				60	
	31				60	
	32				61	
	33	↓		↓	61	
	34	RED		12	61	
	2	ORN		14	64	
	3	↑		↑	64	
	4				64	
	5				65	
	6				65	
	7				65	
	8				66	
	9				66	
	10				66	
	11				67	
	12				67	
	13				67	
	14				68	
	15				68	
	16				68	
	17				69	
	18				69	
	19				69	
	20				70	
	21				70	
	36	↓		↓	62	
	37	ORN		14	63	
	38	GRN		15	75	
	44	↑		↑	74	
	45				74	
	48				73	
	49				73	
	50	↓		↓	72	
	53	GRN		15	72	
	42	V/O		16	74	
	43	↑		↑	74	
	46				73	
	47				73	
	51	↓		↓	72	
	52	V/O		16	72	
	39	WHT	↓	17	76	
	40	WHT	20	17	77	
	1		4	18	56	
	54	BLK	20	19	71	
	55	BLK	20	19	71	
	35	WHT/RED	20	20	57	
	41	WHT/RED	20	20	78	
	59A	RED	20	12	22	
	59A	RED	20	12	55A	
	59A	RED	20	12	55B	



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
56
1
TB4
58
59
59A
60
61
62
63
7
8
37
TB3
64
65
66
67
68
69
70
TB2
71
72
73
74
75
76
77
78
TB1
.08 HIGH BLACK SEE NOTE 4
.08 HIGH BLACK SEE NOTE 4&6
1014466 REV C
S/N RAY
21
SEE NOTE 9
13
22.12 LG
22.50 ± .25
POTTING TO BE WITHIN +.005 -.015 OF THESE SURFACES
II
SEE NOTE 2
I
SEE NOTE 2
STRIP LEADS .25
P2
CUTLINE
B
60-7
60-8
6
1
2
2-5
2-4
2-3
11
SEE NOTE 3
A
B
13
10 LG
15.00 ± .25
E1
STRIP LEAD .38
9
10
.25 ± .02 TYP
.12 ± .02 TYP
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO. 2
.12 HIGH WHITE SEE NOTE 4
VIEW A-A

NOTES

1. FOR FABRICATION SEE ND1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 11 PER ND1002009 METHOD E
4. MARK GOTHIC CHARACTERS AS SHOWN PER ND1002019 & ND1002023 USING MARKING INKS 1006256-001 OR 1006271-1 AS REQUIRED
5. MIL-I-7444 TYPE I FOR FIND NO. 13 AWG 5/8 IN. COLOR WHT
6. SERIALIZE PER ND1002023
7. NUMBERS PRECEDING BALLOONS DENOTE QUANTITY
8. STRIP ALL LEADS .38 UNLESS OTHERWISE SPECIFIED
9. BOND USING FIND 22 APPROX AS SHOWN
10. ~~POTTING TO BE +.005 -.015 FROM SURFACES OF FIND NO. 2~~
11. CRIMP PER ND1002206
12. SOLDER PER ND1002071

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R 5567A DR. P.L. [illegible] CHK [illegible] APPD [illegible]	12/23/63	[illegible]
B	CL II CHANGE PER RD-R 5739 DR R.D. [illegible] CHK R. [illegible] APPD [illegible]	17 FEB 64	[illegible]
C	CHANGED PER TDRR 07653 DR [illegible] CHK [illegible] APPD [illegible]	23 APR 64	KEB
D	CHANGED PER TDRR 11304 DR G. Mitchell CHK [illegible] APPD [illegible]	7 AUG 64	[illegible]
E	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17501 DR P. [illegible] CHK [illegible] APPD [illegible]	13 APR 65	[illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
—	1020019	SCHEMATIC	REF
AR	1006253	ADHESIVE	22
1	1014472-3A	BAND MARKER, CABLE	21
AR	MIL-W-16878/4 TYPE E, 20 WHT/RED	WIRE, ELEC	20
AR	MIL-W-16878/4 TYPE E, 20, BLK	↑	19
AR	MS25190-B-4		18
AR	MIL-W-16878/4 TYPE E, 20, WHT		17
AR	↑ 20, VIO		16
AR	↓ 20, GRN	↓	15
AR	MIL-W-16878/4, TYPE E, 20, ORN	WIRE, ELEC	14
AR	SEE NOTE 5	SLEEVING	13
AR	MIL-W-16878/4, TYPE E, 20 RED	WIRE, ELEC	12
AR	1006653	COMPOUND SILICONE RUBBER	11
1	1020370-24	BUSHING	10
1	MS25036-25	TERMINAL, LUG	9
60	1010380	INSULATOR BUSHING, FEMALE	8
60	1010379-1	CONTACT, ELECTRICAL FEMALE	7
2	1014032	RECEPTACLE, INDEXING	6
2	1006997	WASHER, PLAIN FLAT	5
2	MS35337-79	WASHER, LOCK	4
2	1006998-1	SCREW, CAPTIVE	3
1	1014000-4	FRAME, MODULE	2
1	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN C. [illegible] DATE 3 Aug 63
CHECKED A. G. [illegible] 21 Aug 63
APPROVAL C. [illegible] 20 Sep 63
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

WIRING HARNESS BRANCHED
DC POWER

CODE IDENT NO	SIZE	NASA DRAWING NO
—	J	1014466
SCALE 1/1	WT	SHEET OF

PREPARED DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014466 E

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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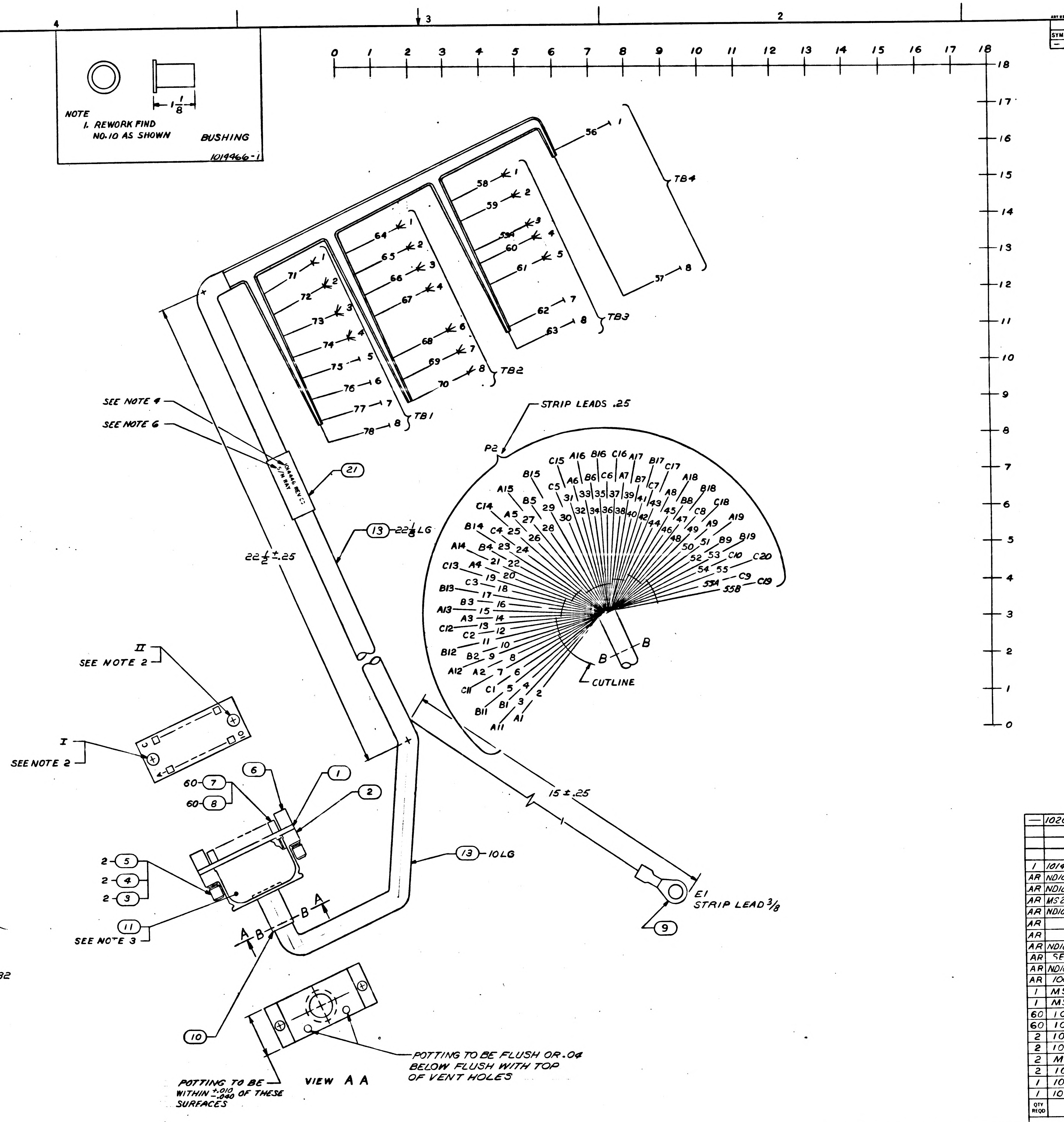
1014466

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	23	RED	20	12	58	
	24	↑	↑	↑	58	
	25				58	
	26				59	
	27				59	
	28				59	
	29				60	
	30				60	
	31				60	
	32				61	
	33	↓		↓	61	
	34	RED		12	61	
	2	ORN		14	64	
	3	↑		↑	64	
	4				64	
	5				65	
	6				65	
	7				65	
	8				66	
	9				66	
	10				66	
	11				67	
	12				67	
	13				67	
	14				68	
	15				68	
	16				68	
	17				69	
	18				69	
	19				69	
	20				70	
	21				70	
	36	↓		↓	62	
	37	ORN		14	63	
	38	GRN		15	75	
	44	↑		↑	74	
	45				74	
	48				73	
	49				73	
	50	↓		↓	72	
	53	GRN		15	72	
	42	VIO		16	74	
	43	↑		↑	74	
	46				73	
	47				73	
	51	↓		↓	72	
	52	VIO		16	72	
	39	WHT	↓	17	76	
	40	WHT	20	17	77	
	1	BLK	4	18	56	
	54	BLK	20	19	71	
	55	BLK	20	19	71	
	35	WHT/RED	20	20	57	
	41	WHT/RED	20	20	78	
	59A	RED	20	12	22	
	59A	RED	20	12	55A	
	59A	RED	20	12	55B	


NOTE
1. REWORK FIND NO. 10 AS SHOWN
1 1/8
BUSHING
1014466-1
TB4
TB3
TB2
TB1
56
57
58
59
59A
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
SEE NOTE 4
SEE NOTE 6
21
13
22 1/8 LG
22 1/2 ± .25
STRIP LEADS .25
P2
CUTLINE
B
B
15 ± .25
E1
STRIP LEAD 3/8
9
II
SEE NOTE 2
I
SEE NOTE 2
60 7
60 8
6
1
2
2 5
2 4
2 3
11
SEE NOTE 3
13 10 LG
A
A
B
B
10
POTTING TO BE WITHIN +.010 -.040 OF THESE SURFACES
VIEW A A
POTTING TO BE FLUSH OR .04 BELOW FLUSH WITH TOP OF VENT HOLES

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 11 PER ND 1002183
4. MARK PER ND 1002019
5. MIL-I-631 TYPE F, FOAM Ua GRADE a CLASS I CATEGORY I FOR FIND NO. 13 AWG 5/8 IN. COLOR WHT
6. MARK SER NO. PER ND 1002023
7. NUMBERS PRECEDING BALLOONS DENOTES QUANTITY
8. STRIP ALL LEADS .375 UNLESS OTHERWISE SPECIFIED
9. BOND FIND NO. 21 USING TETRAHYDROFURAN WITH 10% POLYVINL CHLORIDE

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 0835 DATE 10/10/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
—	1020019	SCHEMATIC	REF
1	1014472-4	BAND MARKER	21
AR	ND1002181 TYPE I CL 1	WIRE, ELEC AWG 20 WHT/RED	20
AR	ND1002181 TYPE I CL 1	↑ AWG 20 BLK	19
AR	MS25190-B-4	BLK	18
AR	ND1002181 TYPE I CL 1	AWG 20 WHT	17
AR	↑	AWG 20 VIO	16
AR	↓	↓ AWG 20 GRN	15
AR	ND1002181 TYPE I CL 1	WIRE, ELEC AWG 20 ORN	14
AR	SEE NOTE 5	SLEEVING	13
AR	ND1002181 TYPE I CL 1	WIRE, ELEC AWG 20 RED	12
AR	1006904	EPOXY RESIN	11
1	MS39056-6	BUSHING	10
1	MS25036-25	TERMINAL, LUG	9
60	1010380	INSULATOR BUSHING, FEMALE	8
60	1010379-1	CONTACT, ELECTRICAL FEMALE	7
2	1014032	RECEPTACLE, INDEXING	6
2	1006997	WASHER, PLAIN FLAT	5
2	MS35337-79	WASHER, LOCK	4
2	1006998-1	SCREW, CAPTIVE	3
1	1014000-4	FRAME, MODULE	2
1	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN C. LaPorte DATE 30 Aug 63
CHECKED A. G. Cagnagno 21 Aug 63
APPROVAL C. Spalding 30 Sept 63
APPROVAL 7/30/63
APPROVAL 9/20/63
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS BRANCHED DC POWER

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014466
SCALE 1/1
WT
SHEET 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014466

INCHES
PHOTOGRAPHIC SCALE ONLY

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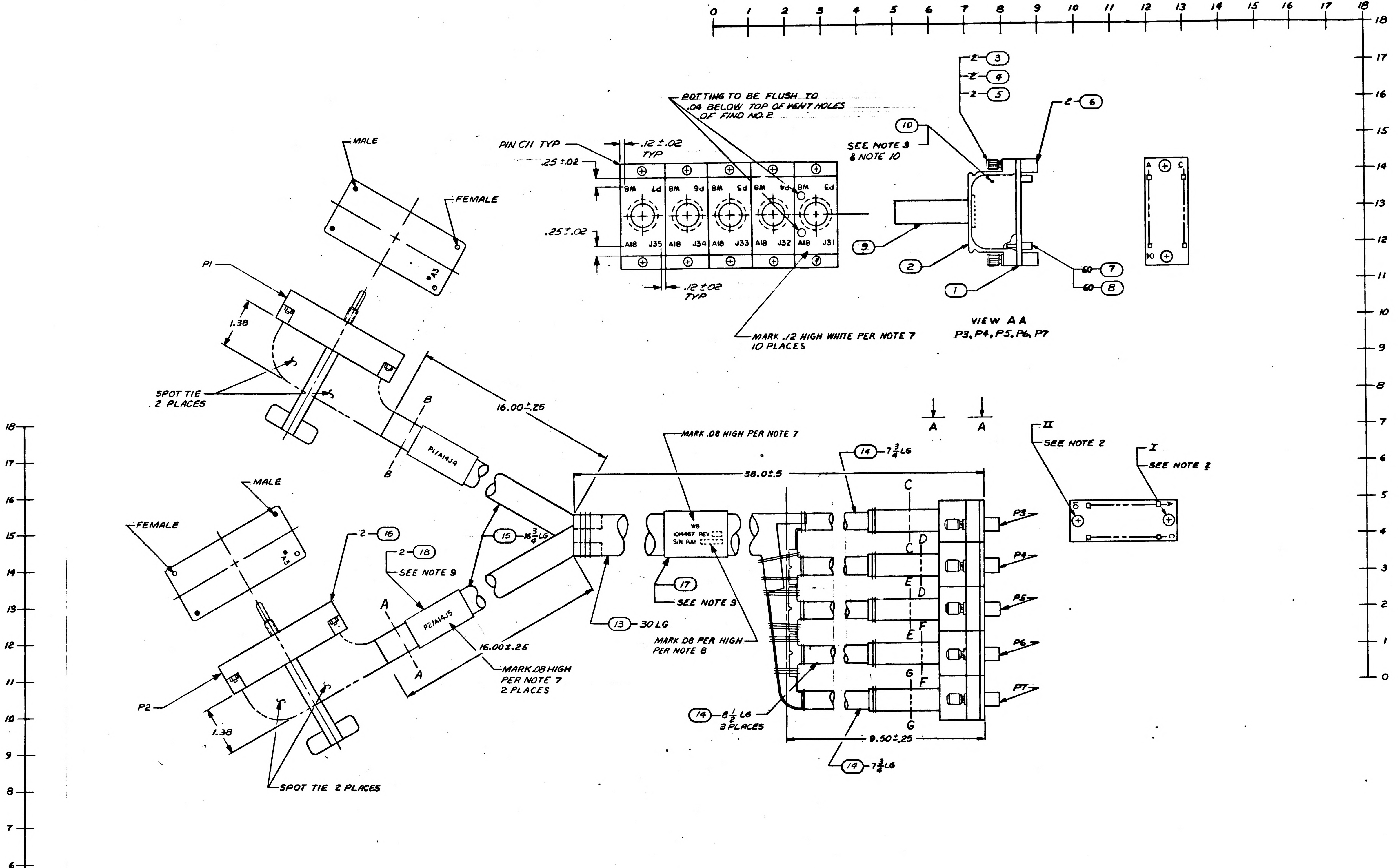
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD-R 5481A W. Brown CHK W J. Gifford APPD.	8 NOV 63	
B	CHANGED PER TDRR NO 06328 DR R D Glenn CHK APPD	25 FEB 64	



MALE
FEMALE
P1
1.38
SPOT TIE 2 PLACES
B
P1/A14J4
16.00±.25
MALE
FEMALE
2 – 16
2 – 18
SEE NOTE 9
P2/A14J5
A
16.00±.25
MARK .08 HIGH PER NOTE 7 2 PLACES
P2
1.38
SPOT TIE 2 PLACES
15 – 16 3/4 LG
13 – 30 LG
MARK .08 HIGH PER NOTE 7
38.0±.5
W8 1014467 REV S/N RAY
17
SEE NOTE 9
MARK .08 PER HIGH PER NOTE 8
14 – 7 3/4 LG
14 – 8 1/2 LG 3 PLACES
9.50±.25
14 – 7 3/4 LG
C D E F G
P3 P4 P5 P6 P7
A A
PIN C11 TYP
.25±.02
.12±.02 TYP
.25±.02
.12±.02 TYP
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO. 2
W8 P7 W8 P6 W8 P5 W8 P4 W8 P3
A18 J35 A18 J34 A18 J33 A18 J32 A18 J31
MARK .12 HIGH WHITE PER NOTE 7 10 PLACES
SEE NOTE 3 & NOTE 10
2 – 3
2 – 4
2 – 5
2 – 6
10
9
2
1
60 – 7
60 – 8
VIEW A A
P3, P4, P5, P6, P7
A C
10 B
II
SEE NOTE 2
I
SEE NOTE 2
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03431 DATE 26 Aug 63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032
2. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1014047
3. FILL WITH FIND NO. 10 PER ND1002009 METHOD E
4. ~~MIL-W-16878/4 TYPE E22 WHITE FOR FIND NO 11, E22 BLACK FOR FIND NO. 12~~
5. MIL-I-631 TYPE F, FOAM U2 GRADE 2, CLASS I, CATEGORY I, FOR FIND NO. 13 AWG 1 1/8, FOR FIND NO. 14 AWG 1/2, FOR FIND NO. 15 AWG 3/4
6. NUMBER PRECEDING BALLOON DENOTES QUANTITY
7. MARK PER ND1002019
8. MARK SER NO. PER ND1002023
9. BOND FIND NO. 17 & 18 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
10. POTTING TO BE $^{+.005}_{-.015}$ FROM SURFACES OF FIND NO. 2

B	B	—	—
A	—	—	—
SH1	SH 2	SH 3	SH 4

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
2	1014472-6A	BAND MARKER, CABLE	
1	1014472 9	BAND MARKER, CABLE	
2	1006672	CONNECTOR	
AR	SEE NOTE 5	SLEEVING	
AR	SEE NOTE 5	SLEEVING	
AR	SEE NOTE 5	SLEEVING	
AR	MIL-W-16878/4, TYPE E, 22, BLK	WIRE, ELECTRICAL	
AR	MIL-W-16878/4, TYPE E, 22 WHT	WIRE, ELECTRICAL	
AR	1006683	COMPOUND, SILICONE RUBBER	
5	MS39056-6	BUSHING	
300	1010380	INSULATOR BUSH. FEMALE	
300	1010379-1	CONTACT, ELEC FEMALE	
10	1014032	RECEPTACLE, INDEXING	6
10	1006997	WASHER, PLAIN FLAT	
10	MS35337-79	WASHER, LOCK	4
10	1006998-1	SCREW, CAPTIVE	3
5	1014000-4	FRAME, MODULE	2
5	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN N. Matty DATE 8/2/63
CHECKED A G Caggiano 26 Aug 63
APPROVAL JEK
APPROVAL 9/12/63
APPROVAL
NASA APPROVAL 9/26/63
MIT APPROVAL
MIT APPROVAL 9/26/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W8 TEST PANEL

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014467
SCALE 1/1
WT
SHEET 1 OF 4

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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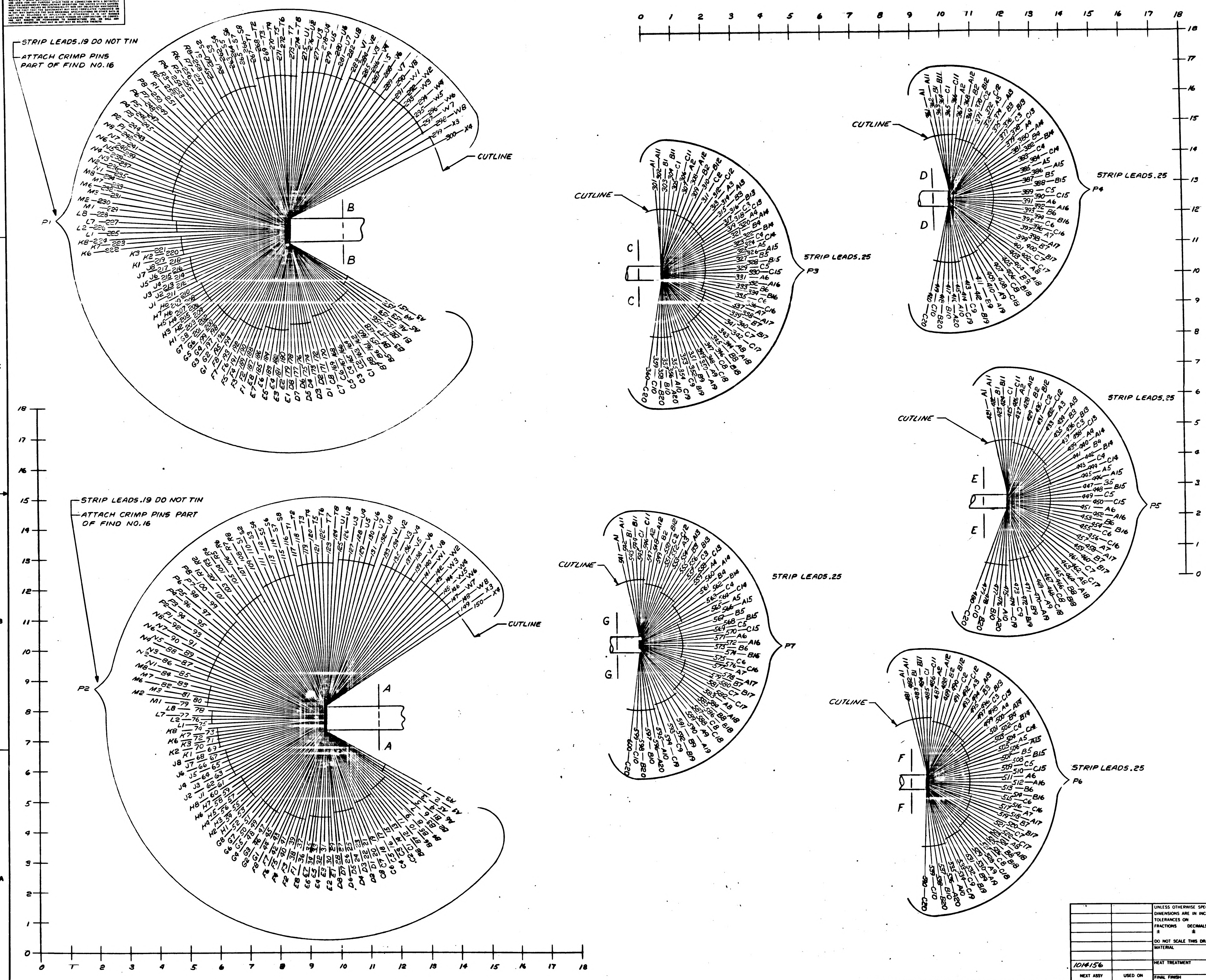
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		
B	CHANGED PER TDRR NO. 06328 DR RD Glen CHK APPD	25 FEB 64	


STRIP LEADS .19 DO NOT TIN
ATTACH CRIMP PINS PART OF FIND NO. 16
P1
CUTLINE
B
STRIP LEADS .19 DO NOT TIN
ATTACH CRIMP PINS PART OF FIND NO. 16
P2
CUTLINE
A
CUTLINE
STRIP LEADS .25
P3
C
CUTLINE
STRIP LEADS .25
P4
D
CUTLINE
STRIP LEADS .25
P5
E
CUTLINE
STRIP LEADS .25
P7
G
CUTLINE
STRIP LEADS .25
P6
F
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03434 DATE 20 Jly 63

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN K. Mcabby DATE 8/12/63
CHECKED A. G. Cogneau 20 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W8 TEST PANEL

CODE IDENT NO —— SIZE J NASA DRAWING NO 1014467
SCALE 1/1 WT SHEET 2 OF 4

INCHES
PHOTOGRAPHIC SCALE ONLY

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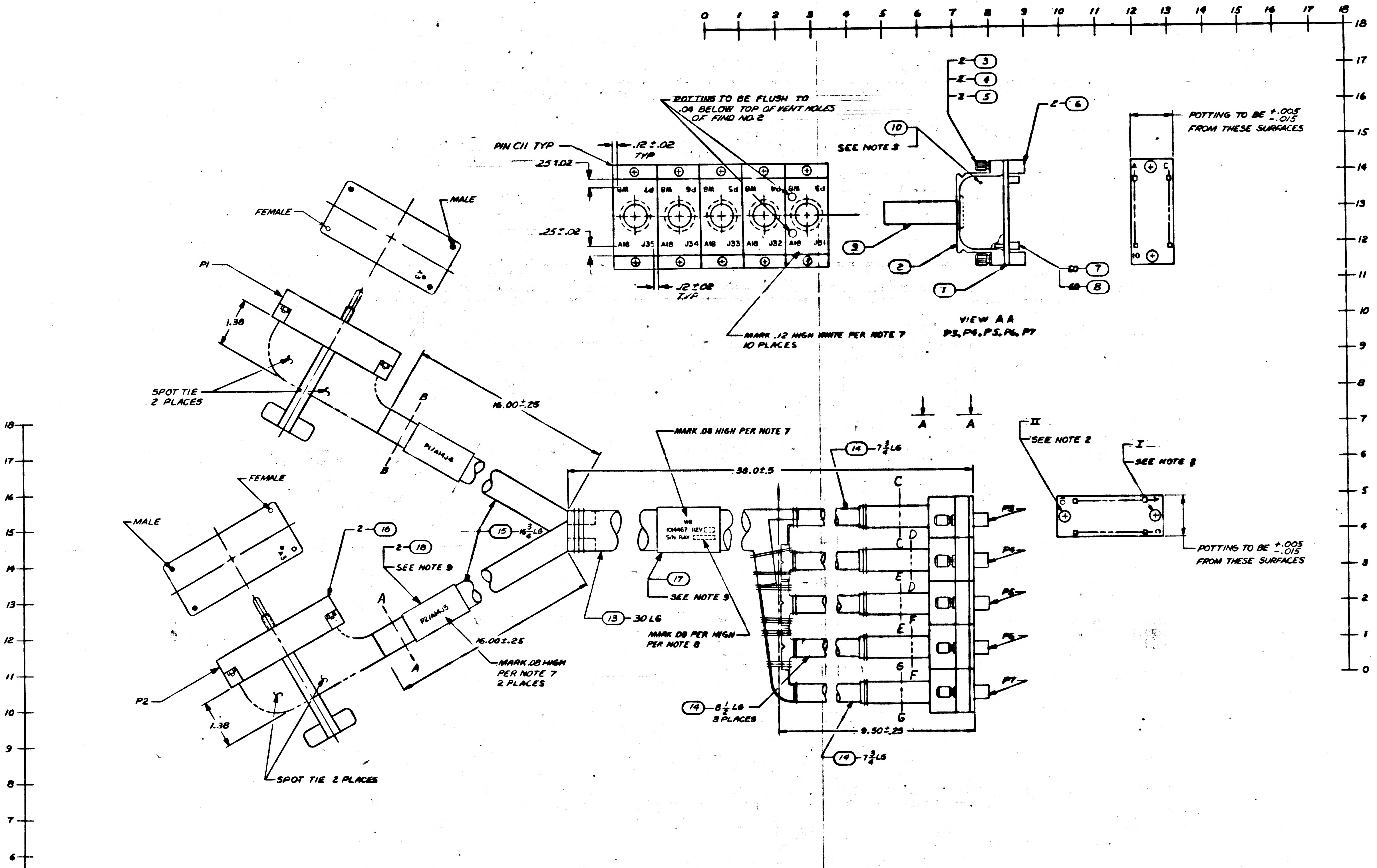
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD R5481A W Brown CHK W J Gifford APPD G Gusa	8 NOV 63	
B	CHANGED PER TDRR NO 06328 DR RD Glenn CHK APPD	25 FEB 64	
C	CHANGED PER TDRR 10449 DR F Fincham CHK APPD G Marinaro	2 JUL 64	


POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO. 2
PIN C11 TYP
.12 ± .02 TYP
.25 ± .02
.25 ± .02
.12 ± .02 TYP
J35
J34
J33
J32
J31
MARK .12 HIGH WHITE PER NOTE 7 10 PLACES
SEE NOTE 3
VIEW A A
P3, P4, P5, P6, P7
POTTING TO BE +.005 -.015 FROM THESE SURFACES
FEMALE
MALE
P1
1.38
SPOT TIE 2 PLACES
B
B
P1/AM-14
16.00 ± .25
MARK .08 HIGH PER NOTE 7
38.0 ± .5
W8 1014467 REV S/N RAY
15 - 16 3/8 LG
2 - 16
2 - 18
SEE NOTE 9
17
SEE NOTE 9
13 - 30 LG
MARK .08 PER HIGH PER NOTE 8
FEMALE
MALE
P2/AM-15
A
A
16.00 ± .25
MARK .08 HIGH PER NOTE 7 2 PLACES
P2
1.38
SPOT TIE 2 PLACES
14 - 7 3/4 LG
14 - 8 1/2 LG 3 PLACES
14 - 7 3/4 LG
9.50 ± .25
P3
P4
P5
P6
P7
SEE NOTE 2
SEE NOTE 2
POTTING TO BE +.005 -.015 FROM THESE SURFACES

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03431 DATE 26 Aug 63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032
2. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1014047
3. FILL WITH FIND NO. 10 PER ND1002009 METHOD E
4. ~~MIL-W-16878/4 TYPE E 22 WHITE FOR FIND NO. 11, E22 BLACK FOR FIND NO. 12~~
5. MIL-I-631 TYPE F, FOAM U2 GRADE 2, CLASS I, CATEGORY I, FOR FIND NO. 13 AWG 1 1/8, FOR FIND NO. 14 AWG 1/2, FOR FIND NO. 15 AWG 3/8
6. NUMBER PRECEDING BALLOON DENOTES QUANTITY
7. MARK PER ND1002019
8. MARK SER NO. PER ND1002023
9. BOND FIND NO. 17 & 18 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
10. ~~POTTING TO BE +.005 -.015 FROM SURFACES OF FIND NO. 2~~

C	B	—	—
B	B	—	—
A	—	—	—
SH1	SH 2	SH 3	SH 4

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
2	1014472-6A	BAND MARKER, CABLE	18
1	1014472-9	BAND MARKER, CABLE	17
2	1006672	CONNECTOR	16
AR	SEE NOTE 5	SLEEVING	15
AR	SEE NOTE 5	SLEEVING	14
AR	SEE NOTE 5	SLEEVING	13
AR	MIL-W-16878/4, TYPE E, 22, BLK	WIRE, ELECTRICAL	12
AR	MIL-W-16878/4, TYPE E, 22 WHT	WIRE, ELECTRICAL	11
AR	1006683	COMPOUND, SILICONE RUBBER	10
5	MS39056-6	BUSHING	9
300	1010380	INSULATOR BUSH. FEMALE	8
300	1010379-1	CONTACT, ELEC FEMALE	7
10	1014032	RECEPTACLE, INDEXING	6
10	1006997	WASHER, PLAIN FLAT	5
10	MS35337-79	WASHER, LOCK	4
10	1006998-1	SCREW, CAPTIVE	3
5	1014000-4	FRAME, MODULE	2
5	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	1014156
USED ON	
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN W. Matty DATE
CHECKED A G Cappuccio 26 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W8 TEST PANEL

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014467
SCALE 1/1
WT
SHEET 1 OF 4

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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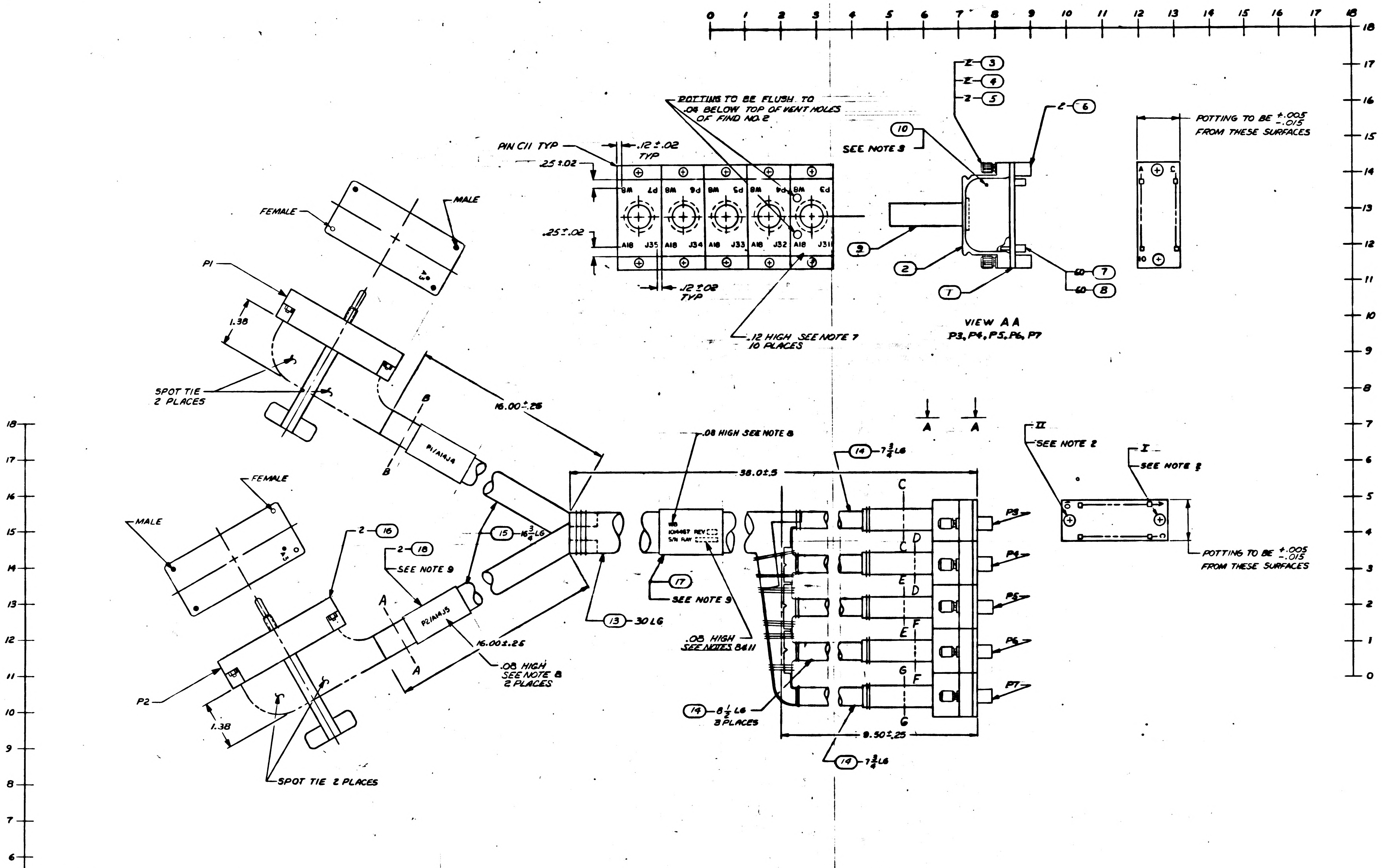
1014467 D

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		
A	CLASS II CHANGE PER RD R 5481A W Brown CHK W J Gifford APPD. R G[illegible]	8 NOV 63	JJY
B	CHANGED PER TDRR NO 06328 DR R D Glenn CHK [illegible] APPD J Cunley	25 FEB 64	J 10/64 WP.
C	CHANGED PER TDRR 10449 DR F[illegible] CHK [illegible] APPD G Marinaro	2 JUL 64	JJB
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17501 DR P. Morency CHK [illegible] APPD [illegible]	13 APR 65	JJB


0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO. 2
PIN C11 TYP
.12 ± .02 TYP
.25 ± .02
W8 P7
W8 P6
W8 P5
W8 P4
W8 P3
A18 J35
A18 J34
A18 J33
A18 J32
A18 J31
.12 ± .02 TYP
.12 HIGH SEE NOTE 7 10 PLACES
3
4
5
6
10
SEE NOTE 3
9
2
7
8
VIEW AA
P3, P4, P5, P6, P7
POTTING TO BE +.005 −.015 FROM THESE SURFACES
A
C
10
FEMALE
MALE
P1
1.38
SPOT TIE 2 PLACES
B
B
P1/A14J4
16.00 ± .25
FEMALE
MALE
2
16
18
SEE NOTE 9
15
15 3/4 LG
P2/A14J5
A
A
16.00 ± .25
.08 HIGH SEE NOTE 8 2 PLACES
P2
1.38
SPOT TIE 2 PLACES
.08 HIGH SEE NOTE 8
38.0 ± .5
W8
1014467 REV
S/N RAY
17
SEE NOTE 9
13
30 LG
.08 HIGH SEE NOTES 8 & 11
14
7 3/4 LG
C
D
E
F
G
P3
P4
P5
P6
P7
14
8 1/2 LG 3 PLACES
9.50 ± .25
14
7 3/4 LG
A
A
II
SEE NOTE 2
I
SEE NOTE 2
POTTING TO BE +.005 −.015 FROM THESE SURFACES

NOTES
1. FOR FABRICATION SEE ND1002032
2. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1014047
3. FILL WITH FIND NO. 10 PER ND1002009 METHOD E
~~4. MIL-W-16878/4 TYPE E22 WHITE FOR FIND NO 11, E22 BLACK FOR FIND NO. 12~~
5. MIL-I-7444 TYPE I
FOR FIND NO. 13 AWG 1 1/8, FOR FIND NO. 14 AWG 1/2, FOR FIND NO. 15 AWG 3/4
6. NUMBER PRECEDING BALLOON DENOTES QUANTITY
7. MARK GOTHIC CHARACTERS AS SHOWN PER ND1002019 USING WHITE INK 1006271-1
8. MARK GOTHIC CHARACTERS AS SHOWN PER ND1002019 USING BLACK INK 1006256-001
9. BOND USING FIND 19 APPROX AS SHOWN
~~10. POTTING TO BE +.005 −.015 FROM SURFACES OF FIND NO. 2~~
11. SERIALIZE PER ND1002023
12. SOLDER PER ND1002071
13. CRIMP PER ND1002206

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	1006253	ADHESIVE	19
2	1014472-6A	BAND MARKER, CABLE	18
1	1014472-9A	BAND MARKER, CABLE	17
2	1006672	CONNECTOR	16
AR	SEE NOTE 5	SLEEVING	15
AR	SEE NOTE 5	SLEEVING	14
AR	SEE NOTE 5	SLEEVING	13
AR	MIL-W-16878/4, TYPE E, 22, BLK	WIRE, ELECTRICAL	12
AR	MIL-W-16878/4, TYPE E, 22 WHT	WIRE, ELECTRICAL	
AR	1006683	COMPOUND, SILICONE RUBBER	10
5	MS39056-6	BUSHING	9
300	1010380	INSULATOR BUSH. FEMALE	8
300	1010379-1	CONTACT, ELEC FEMALE	7
10	1014032	RECEPTACLE, INDEXING	6
10	1006997	WASHER, PLAIN FLAT	5
10	MS35337-79	WASHER, LOCK	4
10	1006998-1	SCREW, CAPTIVE	3
5	1014000-4	FRAME, MODULE	2
5	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN K. Matty DATE 8/2/63
CHECKED A G Caggiano 26 Aug 63
APPROVAL C [illegible] JPK
APPROVAL J Waleigh [illegible] 9/12/63
APPROVAL J. J. [illegible] 9/4/63
NASA APPROVAL K [illegible] 9/4/63
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

CABLE ASSEMBLY
W8 TEST PANEL

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014467
SCALE 1/1
WT
SHEET 1 OF 4

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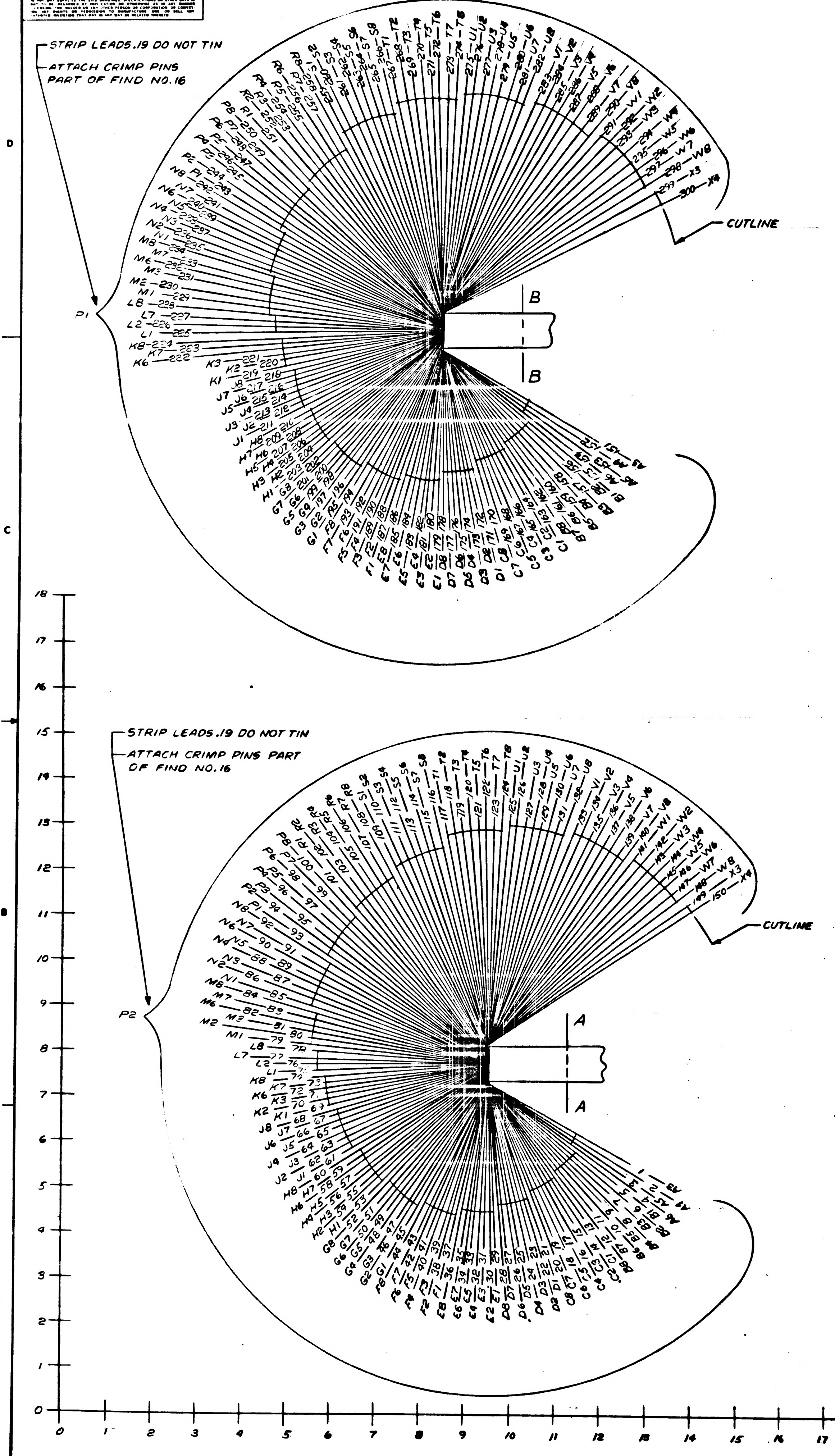
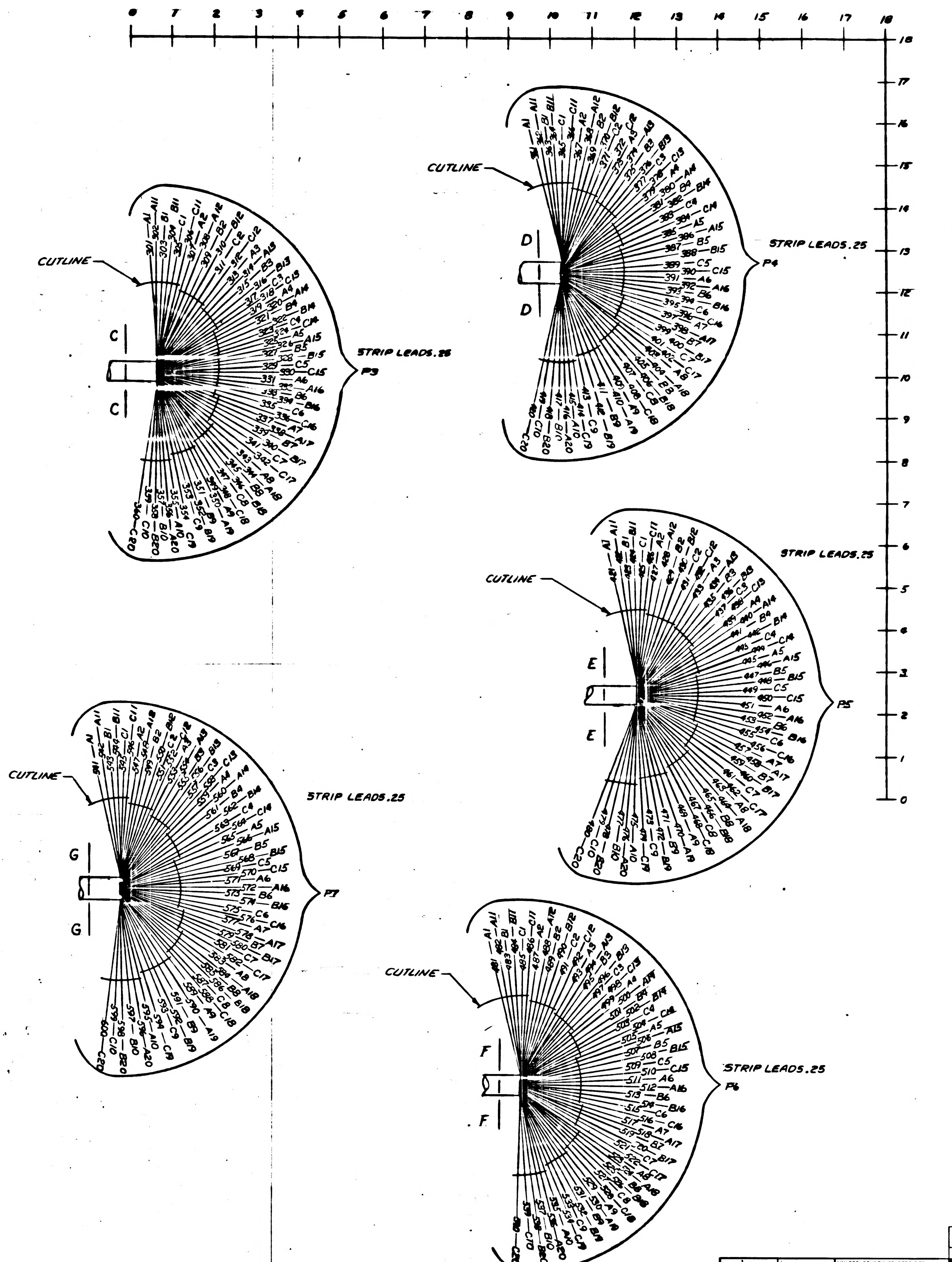
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 03431		
B	CHANGED PER TDRR NO. 06328 DR RD CHK APPD	25 FEB	
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17501 DR P. Moreny CHK APPD	13 APR 65	



STRIP LEADS .19 DO NOT TIN
ATTACH CRIMP PINS PART OF FIND NO. 16
P1
CUTLINE
B
B
STRIP LEADS .19 DO NOT TIN
ATTACH CRIMP PINS PART OF FIND NO. 16
P2
CUTLINE
A
A
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18



CUTLINE
C
C
STRIP LEADS .25
P3
CUTLINE
G
G
STRIP LEADS .25
P7
CUTLINE
D
D
STRIP LEADS .25
P4
CUTLINE
STRIP LEADS .25
E
E
P5
CUTLINE
F
F
STRIP LEADS .25
P6
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

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LIST OF MATERIALS			

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE
CHECKED A. G. Cozzens 20 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

CABLE ASSEMBLY
W8 TEST PANEL

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014467
SCALE 1/1
WT
SHEET E OF 4

1014467 D

1014467

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TORR 03431		
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17501 DR P. CHK APPD	13 APR 65	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	BLK	22	12	600	
	599				2	
	3				598	
	597				4	
	5				596	
	595				6	
	7				590	
	539				8	
	9				538	
	537				10	
	11				536	
	535				12	
	13				480	
	479				14	
	15				478	
	477				16	
	17				476	
	475				18	
	19				420	
	419				20	
	21				418	
	417				22	
	23				416	
	415				24	
	25				360	
	359				26	
	186				358	
	357				178	
	170				356	
	355	BLK	22	12	162	
	31	WHT	22	11	594	
	593				32	
	33				592	
	591				34	
	35				590	
	589				36	
	37				588	
	587				38	
	39				586	
	585				40	
	41				584	
	583				42	
	43				582	
	581				44	
	45				580	
	579				46	
	47				578	
	577				48	
	49				576	
	575				50	
	51				574	
	573				52	
	53				572	
	571				54	
	55				570	
	569				56	
	57				568	
	567				58	
	59				566	
	565				60	
	61				564	
	563				62	
	63				562	
	561				64	
	65				560	
	559				66	
	67				558	
	557				68	
	69				556	
	555				70	
	71				554	
	553				72	
	73				552	
	551				74	
	75				550	
	549				76	
	77				548	
	547				78	
	79				546	
	545				80	
	81				544	
	543				82	
	83				542	
	541				84	
	85	WHT	22	11	534	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	533	WHT	22	11	86	
	87				532	
	531				88	
	89				530	
	529				90	
	91				528	
	527				92	
	93				526	
	525				94	
	95				524	
	523				96	
	97				522	
	521				98	
	99				520	
	519				100	
	101				518	
	517				102	
	103				516	
	515				104	
	105				514	
	513				106	
	107				512	
	511				108	
	109				510	
	509				110	
	111				508	
	507				112	
	113				506	
	505				114	
	115				504	
	503				116	
	117				502	
	501				118	
	119				500	
	499				120	
	121				498	
	497				122	
	123				496	
	495				124	
	125				494	
	493				126	
	127				492	
	491				128	
	129				490	
	489				130	
	131				488	
	487				132	
	133				486	
	485				134	
	135				484	
	483				136	
	137				482	
	481				138	
	139				474	
	473				140	
	141				472	
	471				142	
	143				470	
	469				144	
	145				468	
	467				146	
	147				466	
	465				148	
	149				464	
	463				150	
	151				462	
	461				152	
	153				460	
	459				154	
	155				458	
	457				156	
	157				456	
	455				158	
	159				454	
	453				160	
	161				452	
	451				30	
	163				450	
	449				164	
	165				448	
	447				166	
	167				446	
	445				168	
	169				444	
	443	WHT	22	11	29	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	171	WHT	22	11	442	
	441				172	
	173				440	
	439				174	
	175				438	
	437				176	
	177				436	
	435				28	
	179				434	
	433				180	
	181				432	
	431				182	
	183				430	
	429				184	
	185				428	
	427				27	
	187				426	
	425				188	
	189				424	
	423				190	
	191				422	
	421				192	
	193				414	
	413				194	
	195				412	
	411				196	
	197				410	
	409				198	
	199				408	
	407				200	
	201				406	
	405				202	
	203				404	
	403				204	
	205				402	
	401				206	
	207				400	
	399				208	
	209				398	
	397				210	
	211				396	
	395				212	
	213				394	
	393				214	
	215				392	
	391				216	
	217				390	
	389				218	
	219				388	
	387				220	
	221				386	
	385				222	
	223				384	
	383				224	
	225				382	
	381				226	
	227				380	
	379				228	
	229				378	
	377				230	
	231				376	
	375				232	
	233				374	
	373				234	
	235				372	
	371				236	
	237				370	
	369				238	
	239				368	
	367				240	
	241				366	
	365				242	
	243				364	
	363				244	
	245				362	
	361				246	
	247				354	
	353				248	
	249				352	
	351				250	
	251				350	
	349				252	
	253				348	
	347				254	
	255	WHT	22	11	346	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	345	WHT	22	11	256	
	257				344	
	343				258	
	259				342	
	341				260	
	261				340	
	339				262	
	263				338	
	337				264	
	265				336	
	335				266	
	267				334	
	333				268	
	269				332	
	331				270	
	271				330	
	329				272	
	273				328	
	327				274	
	275				326	
	325				276	
	277				324	
	323				278	
	279				322	
	321				280	
	281				320	
	319				282	
	283				318	
	317				284	
	285				316	
	315				286	
	287				314	
	313				288	
	289				312	
	311				290	
	291				310	
	309				292	
	293				308	
	307				294	
	295				306	
	305				296	
	297				304	
	303				298	
	299				302	
	301	WHT	22	11	300	

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CABLE ASSEMBLY
W8 TEST PANEL

CODE IDENT NO ——
SIZE J
NASA DRAWING NO 1014467
SCALE NONE
WT
SHEET 3 OF 4

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
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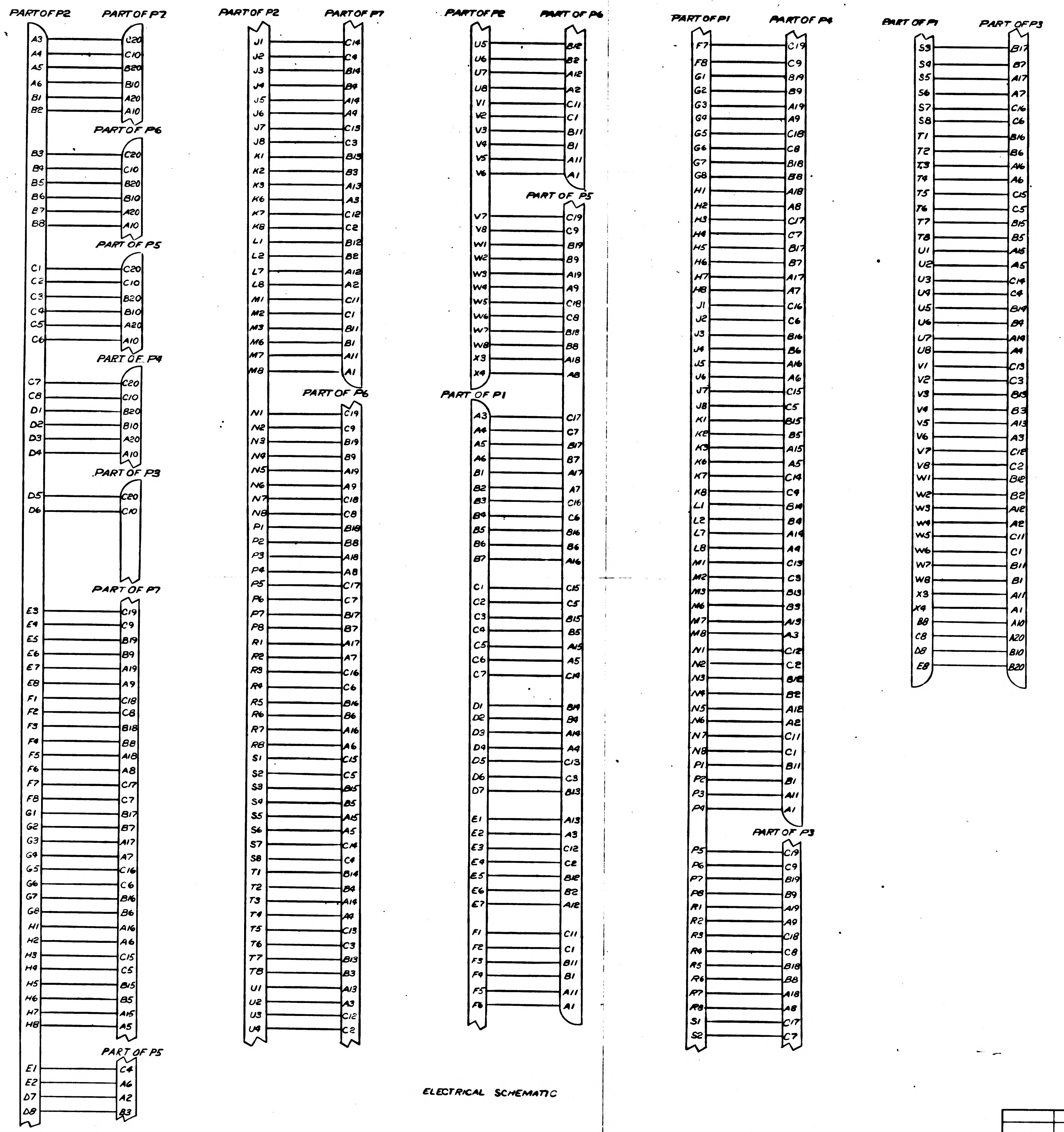
D	UPGRADE TO CLASS A WITH CHANGE PER TDRR 17501 DR P. Morency CHK [illegible] APPD [illegible]	13 APR 66	[illegible]


PART OF P2
PART OF P7
A3 C20
A4 C10
A5 B20
A6 B10
B1 A20
B2 A10
PART OF P6
B3 C20
B4 C10
B5 B20
B6 B10
B7 A20
B8 A10
PART OF P5
C1 C20
C2 C10
C3 B20
C4 B10
C5 A20
C6 A10
PART OF P4
C7 C20
C8 C10
D1 B20
D2 B10
D3 A20
D4 A10
PART OF P3
D5 C20
D6 C10
PART OF P7
E3 C19
E4 C9
E5 B19
E6 B9
E7 A19
E8 A9
F1 C18
F2 C8
F3 B18
F4 B8
F5 A18
F6 A8
F7 C17
F8 C7
G1 B17
G2 B7
G3 A17
G4 A7
G5 C16
G6 C6
G7 B16
G8 B6
H1 A16
H2 A6
H3 C15
H4 C5
H5 B15
H6 B5
H7 A15
H8 A5
PART OF P5
E1 C4
E2 A6
D7 A2
D8 B3
PART OF P2
PART OF P7
J1 C14
J2 C4
J3 B14
J4 B4
J5 A14
J6 A4
J7 C13
J8 C3
K1 B13
K2 B3
K3 A13
K6 A3
K7 C12
K8 C2
L1 B12
L2 B2
L7 A12
L8 A2
M1 C11
M2 C1
M3 B11
M6 B1
M7 A11
M8 A1
PART OF P6
N1 C19
N2 C9
N3 B19
N4 B9
N5 A19
N6 A9
N7 C18
N8 C8
P1 B18
P2 B8
P3 A18
P4 A8
P5 C17
P6 C7
P7 B17
P8 B7
R1 A17
R2 A7
R3 C16
R4 C6
R5 B16
R6 B6
R7 A16
R8 A6
S1 C15
S2 C5
S3 B15
S4 B5
S5 A15
S6 A5
S7 C14
S8 C4
T1 B14
T2 B4
T3 A14
T4 A4
T5 C13
T6 C3
T7 B13
T8 B3
U1 A13
U2 A3
U3 C12
U4 C2
PART OF P2
PART OF P6
U5 B12
U6 B2
U7 A12
U8 A2
V1 C11
V2 C1
V3 B11
V4 B1
V5 A11
V6 A1
PART OF P5
V7 C19
V8 C9
W1 B19
W2 B9
W3 A19
W4 A9
W5 C18
W6 C8
W7 B18
W8 B8
X3 A18
X4 A8
PART OF P1
A3 C17
A4 C7
A5 B17
A6 B7
B1 A17
B2 A7
B3 C16
B4 C6
B5 B16
B6 B6
B7 A16
C1 C15
C2 C5
C3 B15
C4 B5
C5 A15
C6 A5
C7 C14
D1 B14
D2 B4
D3 A14
D4 A4
D5 C13
D6 C3
D7 B13
E1 A13
E2 A3
E3 C12
E4 C2
E5 B12
E6 B2
E7 A12
F1 C11
F2 C1
F3 B11
F4 B1
F5 A11
F6 A1
PART OF P1
PART OF P4
F7 C19
F8 C9
G1 B19
G2 B9
G3 A19
G4 A9
G5 C18
G6 C8
G7 B18
G8 B8
H1 A18
H2 A8
H3 C17
H4 C7
H5 B17
H6 B7
H7 A17
H8 A7
J1 C16
J2 C6
J3 B16
J4 B6
J5 A16
J6 A6
J7 C15
J8 C5
K1 B15
K2 B5
K3 A15
K6 A5
K7 C14
K8 C4
L1 B14
L2 B4
L7 A14
L8 A4
M1 C13
M2 C3
M3 B13
M6 B3
M7 A13
M8 A3
N1 C12
N2 C2
N3 B12
N4 B2
N5 A12
N6 A2
N7 C11
N8 C1
P1 B11
P2 B1
P3 A11
P4 A1
PART OF P3
P5 C19
P6 C9
P7 B19
P8 B9
R1 A19
R2 A9
R3 C18
R4 C8
R5 B18
R6 B8
R7 A18
R8 A8
S1 C17
S2 C7
PART OF P1
PART OF P3
S3 B17
S4 B7
S5 A17
S6 A7
S7 C16
S8 C6
T1 B16
T2 B6
T3 A16
T4 A6
T5 C15
T6 C5
T7 B15
T8 B5
U1 A15
U2 A5
U3 C14
U4 C4
U5 B14
U6 B4
U7 A14
U8 A4
V1 C13
V2 C3
V3 B13
V4 B3
V5 A13
V6 A3
V7 C12
V8 C2
W1 B12
W2 B2
W3 A12
W4 A2
W5 C11
W6 C1
W7 B11
W8 B1
X3 A11
X4 A1
B8 A10
C8 A20
D8 B10
E8 B20

ELECTRICAL SCHEMATIC

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
~~MIT APPROVAL~~
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

CABLE ASSEMBLY
W8 TEST PANEL

CODE IDENT NO	SIZE	NASA DRAWING NO
—	J	1014467

SCALE NONE WT SHEET 4 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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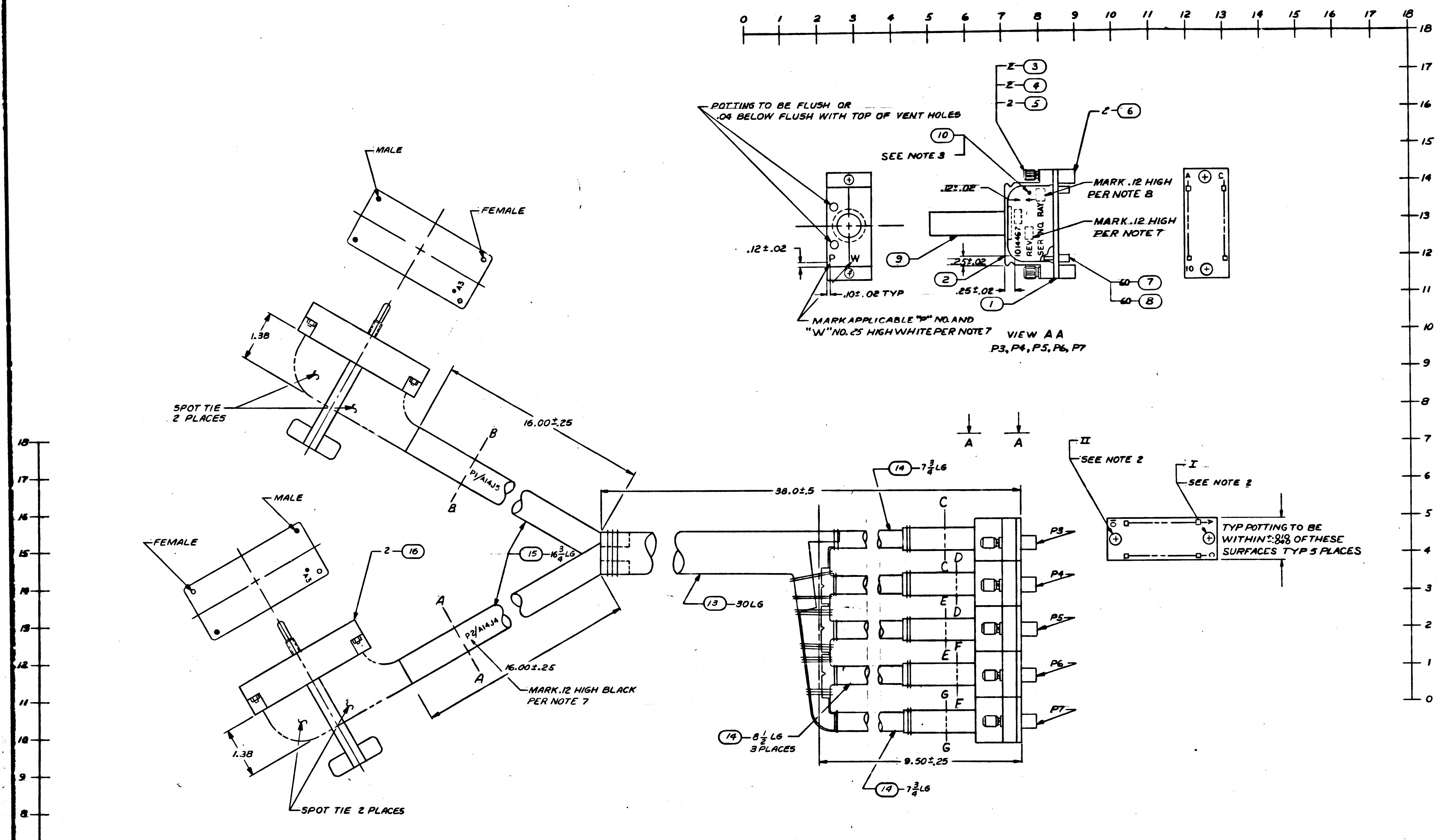
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		



POTTING TO BE FLUSH OR .04 BELOW FLUSH WITH TOP OF VENT HOLES
SEE NOTE 3
10
.12±.02
.12±.02
P W
.10±.02 TYP
MARK APPLICABLE "P" NO. AND "W" NO. .25 HIGH WHITE PER NOTE 7
9
2
1
.25±.02
.25±.02
2-3
2-4
2-5
2-6
MARK .12 HIGH PER NOTE 8
MARK .12 HIGH PER NOTE 7
60-7
60-8
1014467 REV SER NO RAY
VIEW AA
P3, P4, P5, P6, P7
MALE
FEMALE
1.38
SPOT TIE 2 PLACES
16.00±.25
B
P1/A14J5
38.0±.5
A A
SEE NOTE 2
SEE NOTE 2
TYP POTTING TO BE WITHIN ±.010/.040 OF THESE SURFACES TYP 5 PLACES
14-7 3/4 LG
C
D
E
F
G
P3
P4
P5
P6
P7
MALE
FEMALE
2-16
15-16 3/4 LG
13-30 LG
A
P2/A14J4
16.00±.25
MARK .12 HIGH BLACK PER NOTE 7
1.38
SPOT TIE 2 PLACES
14-8 1/2 LG 3 PLACES
9.50±.25
14-7 3/4 LG

FOR INFORMATION ONLY
CLASS RELEASE TDRR NO. 03431 DATE 26 Sep 63

NOTES

1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032
2. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1014047
3. FILL WITH FIND NO. 10 PER ND1002183
4. MIL-W-16878/4 TYPE E22 WHITE, FOR FIND NO. 11 E22 BLACK, FOR FIND NO. 12
5. MIL-I-631 TYPE F, FOAM U2 GRADE 2, CLASS I, CATEGORY I, FOR FIND NO. 13 AWG 1 1/8, FOR FIND NO. 14 AWG 1/2, FOR FIND NO. 15 AWG 3/4
6. NUMBER PRECEDING BALLOON DENOTES QUANTITY
7. MARK PER ND1002019
8. MARK SER NO. PER ND1002023

—	—	—	—
SH 1	SH 2	SH 3	SH 4

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
2	1006672	CONNECTOR	16
AR	SEE NOTE 5	SLEEVING	15
AR	SEE NOTE 5	SLEEVING	14
AR	SEE NOTE 5	SLEEVING	13
AR	SEE NOTE 4	WIRE, ELECTRICAL	12
AR	SEE NOTE 4	WIRE, ELECTRICAL	11
AR	1006904	EPOXY RESIN	10
5	MS39056-6	BUSHING	9
300	1010380	INSULATOR BUSH. FEMALE	8
300	1010379-1	CONTACT, ELEC FEMALE	7
10	1014032	RECEPTACLE, INDEXING	6
10	1006997	WASHER, PLAIN FLAT	5
10	MS35337-79	WASHER, LOCK	4
10	1006998-1	SCREW, CAPTIVE	3
5	1014000-4	FRAME, MODULE	2
5	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014467

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Matty DATE 8/6/63
CHECKED A G Cappuccio 26 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W8 TEST PANEL

CODE IDENT NO —
SIZE J
NASA DRAWING NO. 1014467
SCALE 1/1
WT
SHEET 1 OF 4

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS	
SYM	DESCRIPTION
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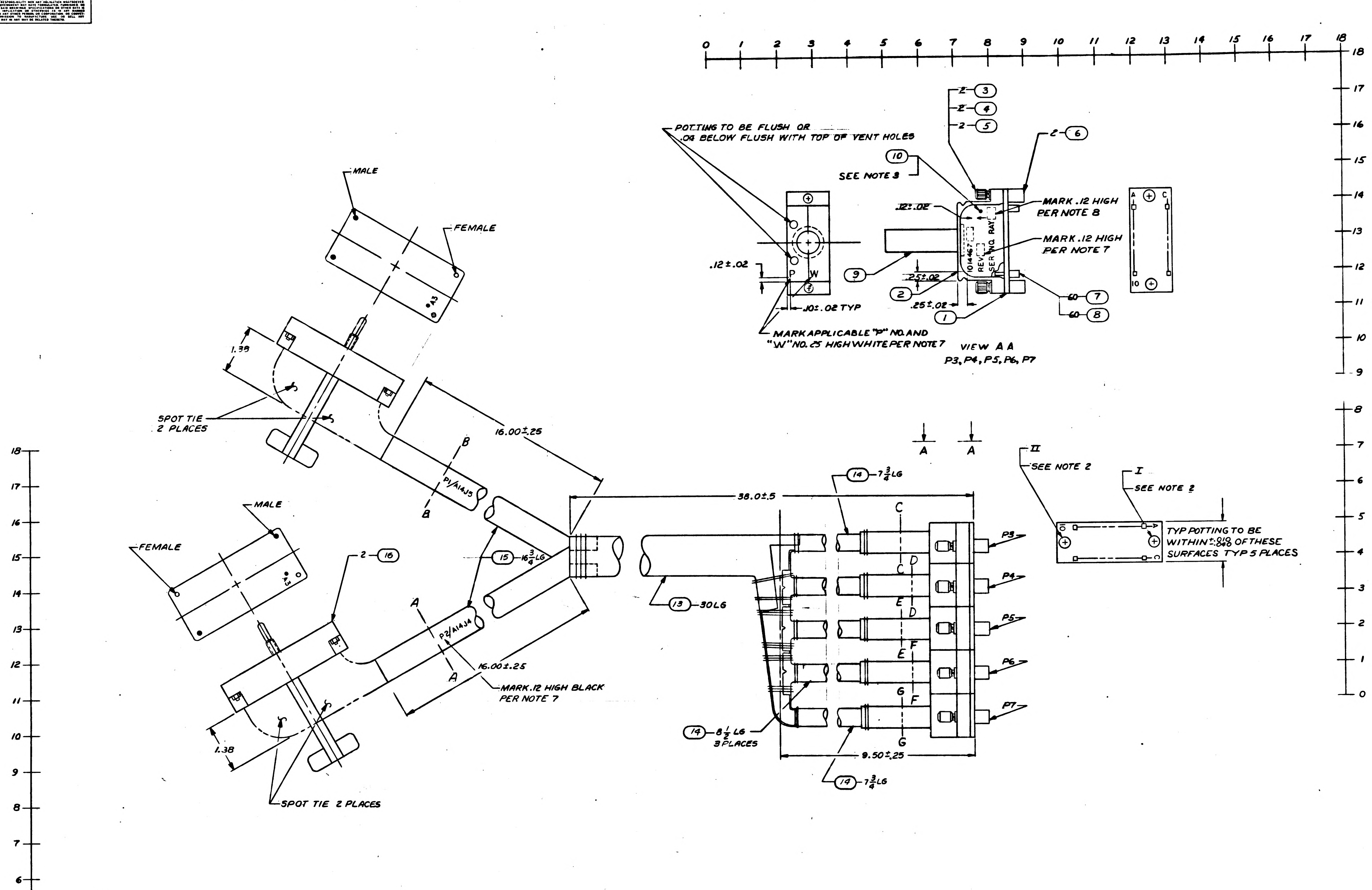

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
POTTING TO BE FLUSH OR .04 BELOW FLUSH WITH TOP OF VENT HOLES
2 ③
2 ④
2 ⑤
2 ⑥
⑩
SEE NOTE 3
.12±.02
MARK .12 HIGH PER NOTE 8
MARK .12 HIGH PER NOTE 7
1014467
REV
SER NO.
RAY
.12±.02
P
W
⑨
②
.25±.02
.25±.02
①
.10±.02 TYP
60 ⑦
60 ⑧
A
C
10
MARK APPLICABLE "P" NO. AND "W" NO. .25 HIGH WHITE PER NOTE 7
VIEW A A
P3, P4, P5, P6, P7
MALE
FEMALE
1.38
SPOT TIE 2 PLACES
16.00±.25
B
B
P1/A14J5
MALE
FEMALE
2 ⑯
A
A
P2/A14J4
⑮ 16 3/4 LG
16.00±.25
MARK .12 HIGH BLACK PER NOTE 7
1.38
SPOT TIE 2 PLACES
38.0±.5
⑬ 30 LG
A
A
⑭ 7 3/4 LG
C
C
D
D
E
E
F
F
G
G
P3
P4
P5
P6
P7
⑭ 8 1/2 LG 3 PLACES
9.50±.25
⑭ 7 3/4 LG
II SEE NOTE 2
I SEE NOTE 2
TYP POTTING TO BE WITHIN +.010 −.040 OF THESE SURFACES TYP 5 PLACES

FOR INFORMATION ONLY
CLASS RELEASE TDRR NO. 03491

NOTES
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E22 BLACK, FOR FIND NO. 12
5. MIL-I-631 TYPE F, FOAM U2 GRADE 2, CLASS I, CATEGORY I, FOR FIND NO. 13 AWG 1 1/8, FOR FIND NO. 14 AWG 1/2, FOR FIND NO. 15 AWG 3/4
6. NUMBER PRECEDING BALLOON DENOTES QUANTITY
7. MARK PER ND1002019
8. MARK SER NO. PER ND1002023

—	—	—	—
SH 1	SH 2	SH 3	SH 4

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION
2	1006672	CONNECTOR
AR	SEE NOTE 5	SLEEVING
AR	SEE NOTE 5	SLEEVING
AR	SEE NOTE 5	SLEEVING
AR	SEE NOTE 4	WIRE, ELECT
AR	SEE NOTE 4	WIRE, ELECTR
AR	1006904	EPOXY RESIN
5	MS39056-6	BUSHING
300	1010380	INSULATOR BU
300	1010379-1	CONTACT, ELEC
10	1014032	RECEPTACLE,
10	1006997	WASHER, PL
10	MS35337-79	WASHER, LOC
10	1006998-1	SCREW, CAPT
5	1014000-4	FRAME, MOD
5	1014021	PLATE, CONN

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

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FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN N. Matty DATE 8/-/63
CHECKED A G Cappene 26Aug63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPA
CABLE
CODE IDENT NO —
SIZE J
SCALE 1/1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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SYM	DESCRIPTION	DATE	APPROVED
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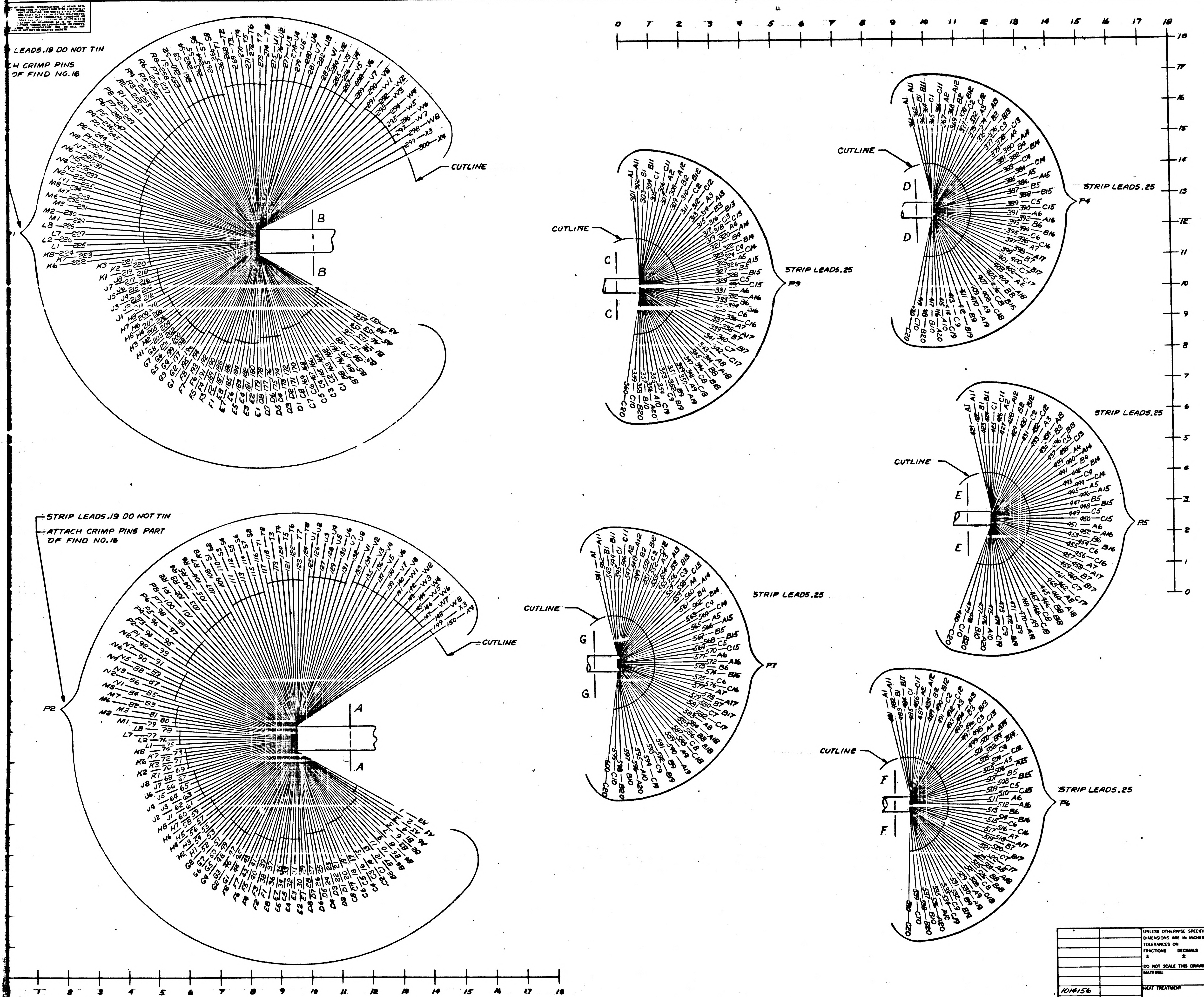

P LEADS.19 DO NOT TIN
CH CRIMP PINS
OF FIND NO.16
CUTLINE
B
B
STRIP LEADS.19 DO NOT TIN
ATTACH CRIMP PINS PART OF FIND NO.16
CUTLINE
P2
A
A
CUTLINE
C
C
STRIP LEADS.25
P3
CUTLINE
G
G
STRIP LEADS.25
P7
CUTLINE
D
D
STRIP LEADS.25
P4
CUTLINE
E
E
STRIP LEADS.25
P5
CUTLINE
F
F
STRIP LEADS.25
P6

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03431 DATE 20 Aug 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN H. Maltz DATE 8/1/63
CHECKED A. G. Cozzens 20 Aug 63
APPROVAL
APPROVAL 8/12/63
APPROVAL 8/12/63
NASA APPROVAL 8/26/63
MIT APPROVAL 9/12/63
MIT APPROVAL 9/11/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W8 TEST PANEL

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014467
SCALE 1/1
WT
SHEET 2 OF 4

1014467

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SYM	DESCRIPTION
—	CLASS B RELEASED PER T

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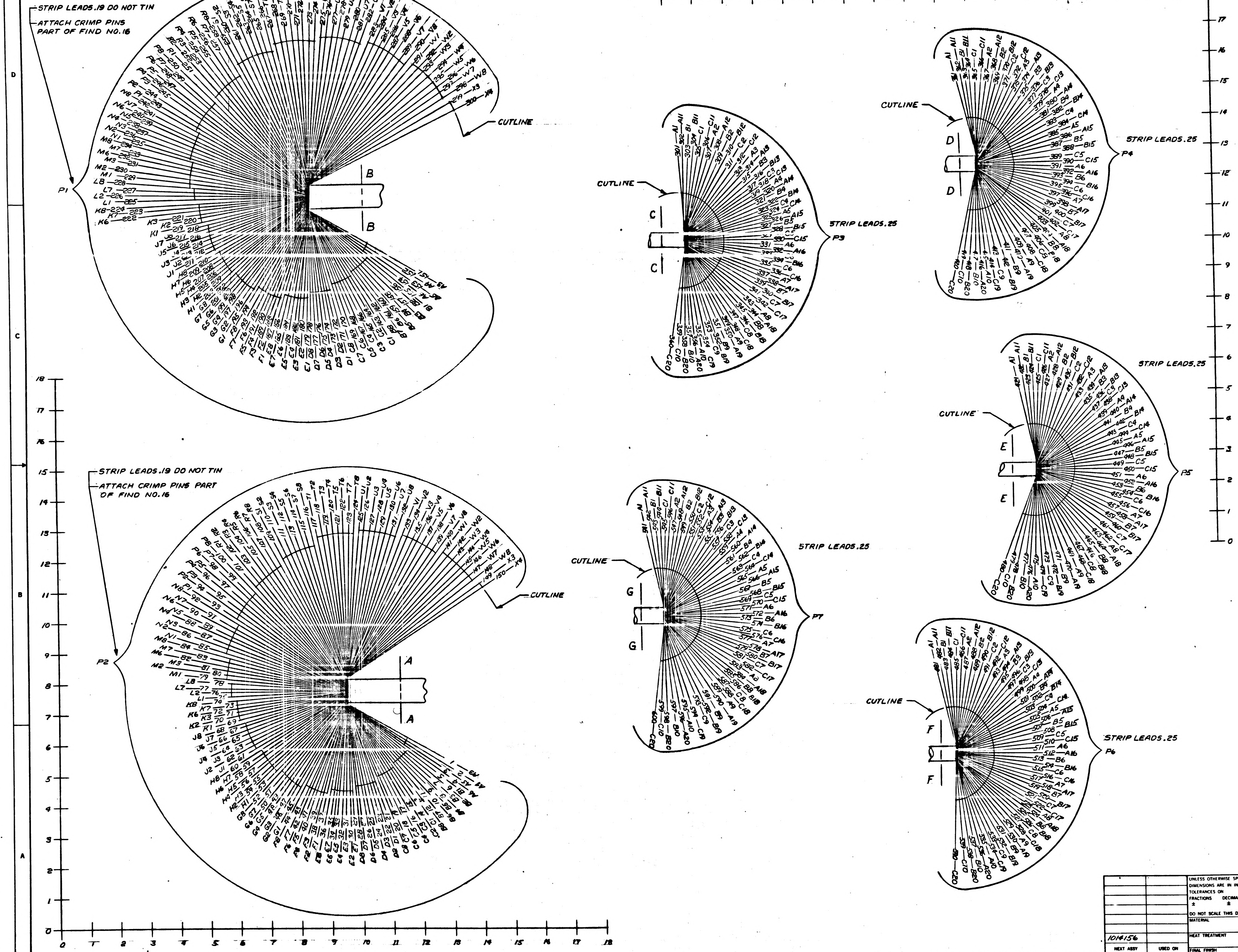
STRIP LEADS .19 DO NOT TIN
ATTACH CRIMP PINS PART OF FIND NO.16
P1
CUTLINE
B
STRIP LEADS .19 DO NOT TIN
ATTACH CRIMP PINS PART OF FIND NO.16
P2
CUTLINE
A
CUTLINE
C
STRIP LEADS .25
P3
CUTLINE
D
STRIP LEADS .25
P4
CUTLINE
E
STRIP LEADS .25
P5
CUTLINE
G
STRIP LEADS .25
P7
CUTLINE
F
STRIP LEADS .25
P6
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

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MATERIAL
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QTY REQD	PART OR IDENTIFYING NO.

LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE
CHECKED A. G. 20 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

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NF
CODE IDENT NO —
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SCALE 1/1
WT

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	BLK	22	12	600	
	599				2	
	3				598	
	597				4	
	5				596	
	595				6	
	7				590	
	539				8	
	9				538	
	537				10	
	11				536	
	535				12	
	13				480	
	479				14	
	15				478	
	477				16	
	17				476	
	475				18	
	19				420	
	419				20	
	21				418	
	417				22	
	23				416	
	415				24	
	25				360	
	359				26	
	186				358	
	357				178	
	170				356	
	355	BLK	22	12	162	
	31	WHT	22	11	594	
	593				32	
	33				592	
	591				34	
	35				590	
	589				36	
	37				588	
	587				38	
	39				586	
	585				40	
	41				584	
	583				42	
	43				582	
	581				44	
	45				580	
	579				46	
	47				578	
	577				48	
	49				576	
	575				50	
	51				574	
	573				52	
	53				572	
	571				54	
	55				570	
	569				56	
	57				568	
	567				58	
	59				566	
	565				60	
	61				564	
	563				62	
	63				562	
	561				64	
	65				560	
	559				66	
	67				558	
	557				68	
	69				556	
	555				70	
	71				554	
	553				72	
	73				552	
	551				74	
	75				550	
	549				76	
	77				548	
	547				78	
	79				546	
	545				80	
	81				544	
	543				82	
	83				542	
	541				84	
	85	WHT	22	11	534	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	533	WHT	22	11	86	
	87				532	
	531				88	
	89				530	
	529				90	
	91				528	
	527				92	
	93				526	
	525				94	
	95				524	
	523				96	
	97				522	
	521				98	
	99				520	
	519				100	
	101				518	
	517				102	
	103				516	
	515				104	
	105				514	
	513				106	
	107				512	
	511				108	
	109				510	
	509				110	
	111				508	
	507				112	
	113				506	
	505				114	
	115				504	
	503				116	
	117				502	
	501				118	
	119				500	
	499				120	
	121				498	
	497				122	
	123				496	
	495				124	
	125				494	
	493				126	
	127				492	
	491				128	
	129				490	
	489				130	
	131				488	
	487				132	
	133				486	
	485				134	
	135				484	
	483				136	
	137				482	
	481				138	
	139				474	
	473				140	
	141				472	
	471				142	
	143				470	
	469				144	
	145				468	
	467				146	
	147				466	
	465				148	
	149				464	
	463				150	
	151				462	
	461				152	
	153				460	
	459				154	
	155				458	
	457				156	
	157				456	
	455				158	
	159				454	
	453				160	
	161				452	
	451				30	
	163				450	
	449				164	
	165				448	
	447				166	
	167				446	
	445				168	
	169				444	
	443	WHT	22	11	29	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	171	WHT	22	11	442	
	441				172	
	173				440	
	439				174	
	175				438	
	437				176	
	177				436	
	435				28	
	179				434	
	433				180	
	181				432	
	431				182	
	183				430	
	429				184	
	185				428	
	427				27	
	187				426	
	425				188	
	189				424	
	423				190	
	191				422	
	421				192	
	193				414	
	413				194	
	195				412	
	411				196	
	197				410	
	409				198	
	199				408	
	407				200	
	201				406	
	405				202	
	203				404	
	403				204	
	205				402	
	401				206	
	207				400	
	399				208	
	209				398	
	397				210	
	211				396	
	395				212	
	213				394	
	393				214	
	215				392	
	391				216	
	217				390	
	389				218	
	219				388	
	387				220	
	221				386	
	385				222	
	223				384	
	383				224	
	225				382	
	381				226	
	227				380	
	379				228	
	229				378	
	377				230	
	231				376	
	375				232	
	233				374	
	373				234	
	235				372	
	371				236	
	237				370	
	369				238	
	239				368	
	367				240	
	241				366	
	365				242	
	243				364	
	363				244	
	245				362	
	361				246	
	247				354	
	353				248	
	249				352	
	351				250	
	251				350	
	349				252	
	253				348	
	347				254	
	255	WHT	22	11	346	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	395	WHT	22	11	256	
	257				344	
	343				258	
	259				342	
	341				260	
	261				340	
	339				262	
	263				338	
	337				264	
	265				336	
	335				266	
	267				334	
	333				268	
	269				332	
	331				270	
	271				330	
	329				272	
	273				328	
	327				274	
	275				326	
	325				276	
	277				324	
	323				278	
	279				322	
	321				280	
	281				320	
	319				282	
	283				318	
	317				284	
	285				316	
	315				286	
	287				314	
	313				288	
	289				312	
	311				290	
	291				310	
	309				292	
	293				308	
	307				294	
	295				306	
	305				296	
	297				304	
	303				298	
	299				302	
	301	WHT	22	11	300	

FOR INFORMATION ONLY
CLASS B RELEASE PER TDRR NO. 03431 DATE 26 Sep 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
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DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED 20 Aug 63
APPROVAL
APPROVAL 9/12/63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W8 TEST PANEL

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014467
SCALE NONE
WT
SHEET 3 OF 4

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

1014467

F-2

1014467

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SYM	DESCRIPTION
–	CLASS B RELEASED

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	BLK	22	12	600	
	599				2	
	3				598	
	597				4	
	5				596	
	595				6	
	7				590	
	539				8	
	9				538	
	537				10	
	11				536	
	535				12	
	13				480	
	479				14	
	15				478	
	477				16	
	17				476	
	475				18	
	19				420	
	419				20	
	21				418	
	417				22	
	23				416	
	415				24	
	25				360	
	359				26	
	186				358	
	357				178	
	170				356	
	355	BLK	22	12	162	
	31	WHT	22	11	594	
	593				32	
	33				592	
	591				34	
	35				590	
	589				36	
	37				588	
	587				38	
	39				586	
	585				40	
	41				584	
	583				42	
	43				582	
	581				44	
	45				580	
	579				46	
	47				578	
	577				48	
	49				576	
	575				50	
	51				574	
	573				52	
	53				572	
	571				54	
	55				570	
	569				56	
	57				568	
	567				58	
	59				566	
	565				60	
	61				564	
	563				62	
	63				562	
	561				64	
	65				560	
	559				66	
	67				558	
	557				68	
	69				556	
	555				70	
	71				554	
	553				72	
	73				552	
	551				74	
	75				550	
	549				76	
	77				548	
	547				78	
	79				546	
	545				80	
	81				544	
	543				82	
	83				542	
	541				84	
	85	WHT	22	11	534	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	533	WHT	22	11	86	
	87				532	
	531				88	
	89				530	
	529				90	
	91				528	
	527				92	
	93				526	
	525				94	
	95				524	
	523				96	
	97				522	
	521				98	
	99				520	
	519				100	
	101				518	
	517				102	
	103				516	
	515				104	
	105				514	
	513				106	
	107				512	
	511				108	
	109				510	
	509				110	
	111				508	
	507				112	
	113				506	
	505				114	
	115				504	
	503				116	
	117				502	
	501				118	
	119				500	
	499				120	
	121				498	
	497				122	
	123				496	
	495				124	
	125				494	
	493				126	
	127				492	
	491				128	
	129				490	
	489				130	
	131				488	
	487				132	
	133				486	
	485				134	
	135				484	
	483				136	
	137				482	
	481				138	
	139				474	
	473				140	
	141				472	
	471				142	
	143				470	
	469				144	
	145				468	
	467				146	
	147				466	
	465				148	
	149				464	
	463				150	
	151				462	
	461				152	
	153				460	
	459				154	
	155				458	
	457				156	
	157				456	
	455				158	
	159				454	
	453				160	
	161				452	
	451				30	
	163				450	
	449				164	
	165				448	
	447				166	
	167				446	
	445				168	
	169				444	
	443	WHT	22	11	29	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	171	WHT	22	11	442	
	441				172	
	173				440	
	439				174	
	175				438	
	437				176	
	177				436	
	435				28	
	179				434	
	433				180	
	181				432	
	431				182	
	183				430	
	429				184	
	185				428	
	427				27	
	187				426	
	425				188	
	189				424	
	423				190	
	191				422	
	421				192	
	193				414	
	413				194	
	195				412	
	411				196	
	197				410	
	409				198	
	199				408	
	407				200	
	201				406	
	405				202	
	203				404	
	403				204	
	205				402	
	401				206	
	207				400	
	399				208	
	209				398	
	397				210	
	211				396	
	395				212	
	213				394	
	393				214	
	215				392	
	391				216	
	217				390	
	389				218	
	219				388	
	387				220	
	221				386	
	385				222	
	223				384	
	383				224	
	225				382	
	381				226	
	227				380	
	379				228	
	229				378	
	377				230	
	231				376	
	375				232	
	233				374	
	373				234	
	235				372	
	371				236	
	237				370	
	369				238	
	239				368	
	367				240	
	241				366	
	365				242	
	243				364	
	363				244	
	245				362	
	361				246	
	247				354	
	353				248	
	249				352	
	351				250	
	251				350	
	349				252	
	253				348	
	347				254	
	255	WHI	22	11	346	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	345	WHT	22	11	256	
	257				344	
	343				258	
	259				342	
	341				260	
	261				340	
	339				262	
	263				338	
	337				264	
	265				336	
	335				266	
	267				334	
	333				268	
	269				332	
	331				270	
	271				330	
	329				272	
	273				328	
	327				274	
	275				326	
	325				276	
	277				324	
	323				278	
	279				322	
	321				280	
	281				320	
	319				282	
	283				318	
	317				284	
	285				316	
	315				286	
	287				314	
	313				288	
	289				312	
	311				290	
	291				310	
	309				292	
	293				308	
	307				294	
	295				306	
	305				296	
	297				304	
	303				298	
	299				302	
	301	WHT	22	11	300	

FOR INFORMATION ONLY
CLASS B RELEASE PER TORR NO

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014156	
NEXT ASSY	USED ON
APPLICATION	

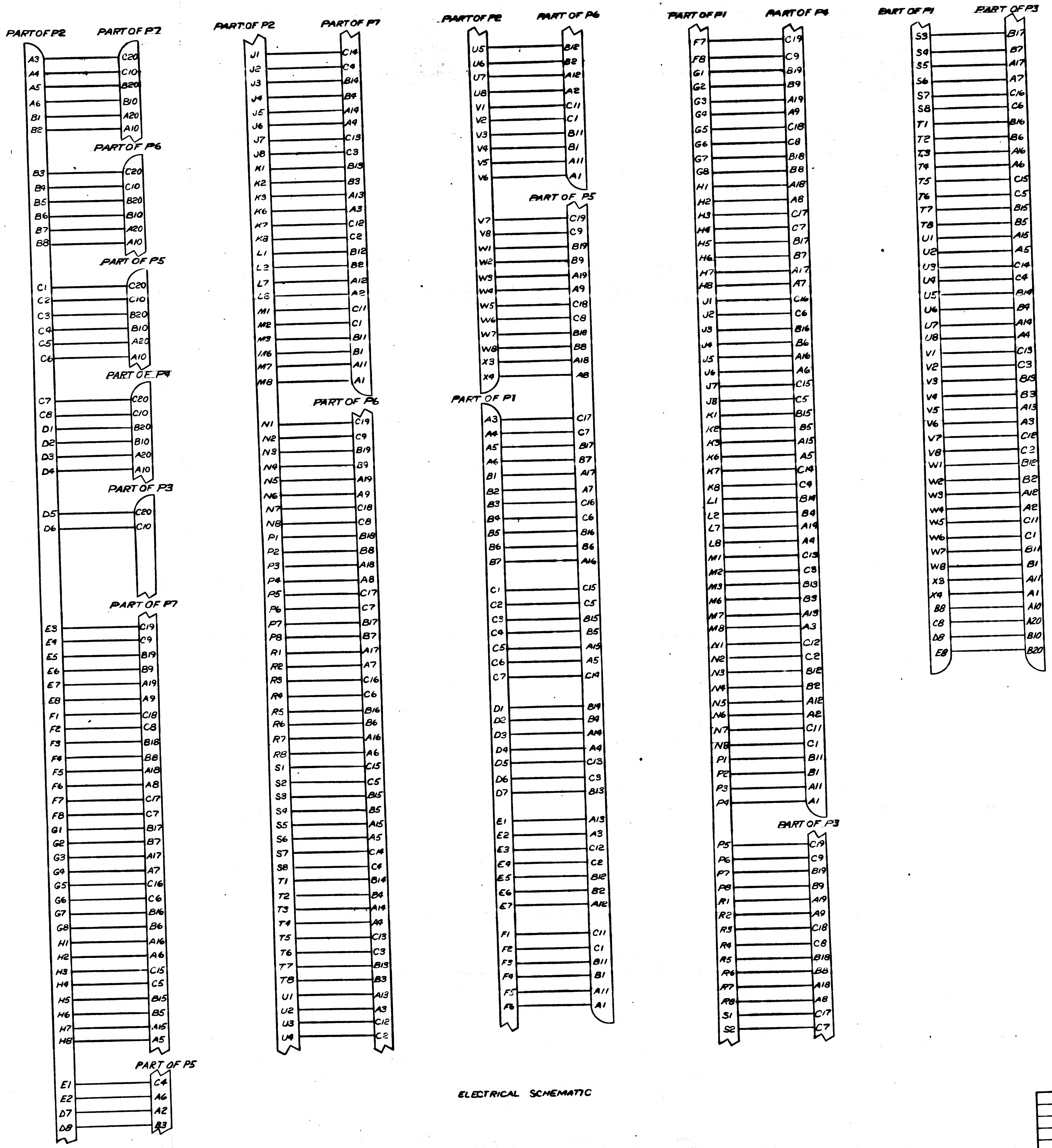
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

QTY REQD
PART OR IDENTIFYING NO

RAYTHEON CO
LEXINGTON, MASS
CONTRACT NO. NAS 9-498
DRAWN
DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL
CODE
SCALE NONE

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVED
	CLASS B RELEASED PER TDRR		


PART OF P2
PART OF P2
PART OF P6
PART OF P5
PART OF P4
PART OF P3
PART OF P7
PART OF P5
PART OF P2
PART OF P7
PART OF P6
PART OF P2
PART OF P6
PART OF P5
PART OF P1
PART OF P1
PART OF P4
PART OF P3
PART OF P1
PART OF P3

ELECTRICAL SCHEMATIC

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CLASS B RELEASE TDRR NO.03431 DATE 21 Sep 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

NEXT ASSY	USED ON
1019156	

APPLICATION

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE 8/12/63
CHECKED A. G. 20 Aug 63
APPROVAL
APPROVAL 9/12/63
APPROVAL
NASA APPROVAL
~~MIT APPROVAL~~ 9/26/63
MIT APPROVAL 9/25/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W8 TEST PANEL

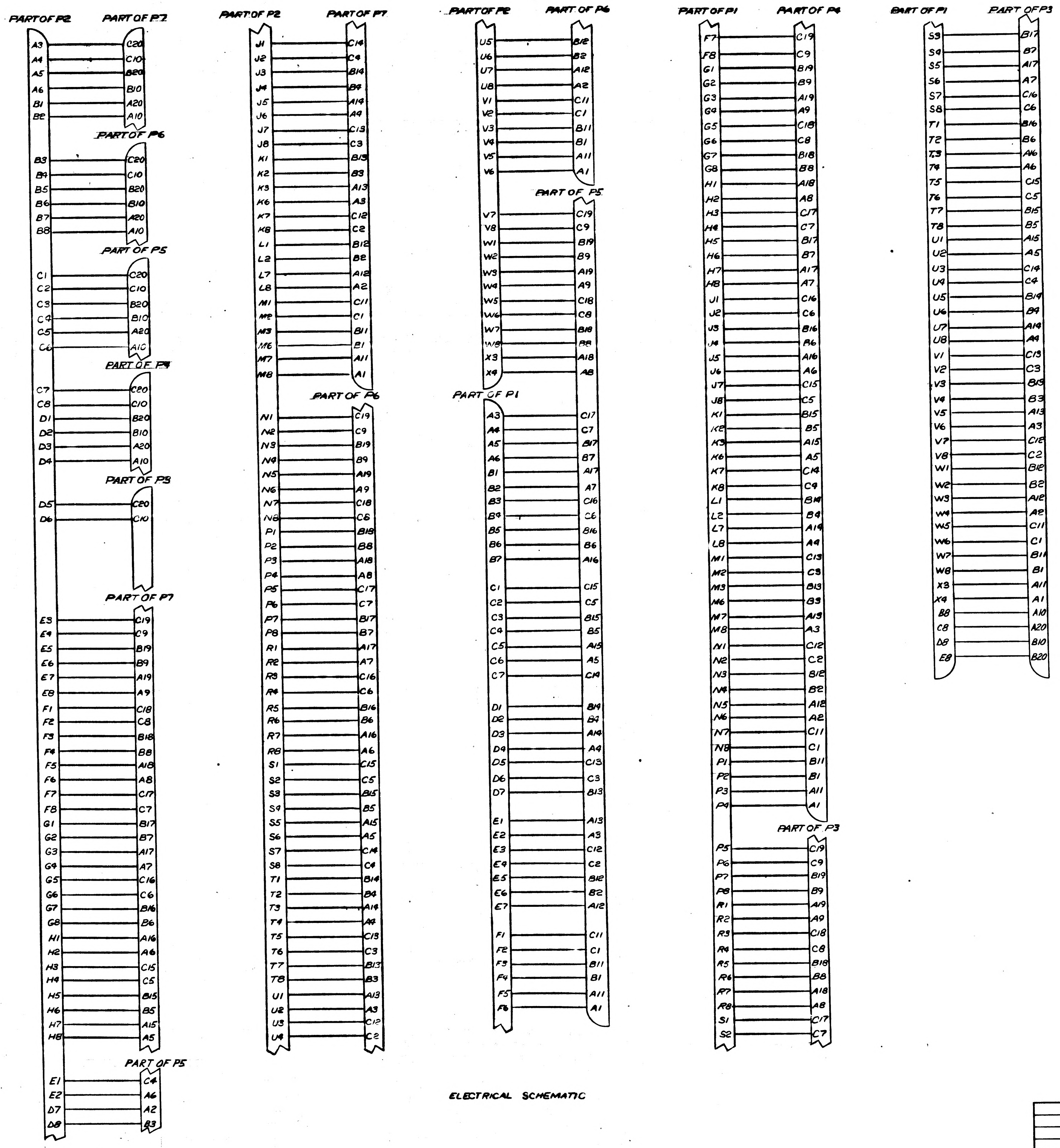
CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014467
SCALE NONE
WT
SHEET 4 OF 4

1014467

1014467

REVISIONS

SYM	DESCRIPTION
	CLASS B RELEASED PER T


PART OF P2
PART OF P7
A3 C20
A4 C10
A5 B20
A6 B10
B1 A20
B2 A10
PART OF P6
B3 C20
B4 C10
B5 B20
B6 B10
B7 A20
B8 A10
PART OF P5
C1 C20
C2 C10
C3 B20
C4 B10
C5 A20
C6 A10
PART OF P4
C7 C20
C8 C10
D1 B20
D2 B10
D3 A20
D4 A10
PART OF P3
D5 C20
D6 C10
PART OF P7
E3 C19
E4 C9
E5 B19
E6 B9
E7 A19
E8 A9
F1 C18
F2 C8
F3 B18
F4 B8
F5 A18
F6 A8
F7 C17
F8 C7
G1 B17
G2 B7
G3 A17
G4 A7
G5 C16
G6 C6
G7 B16
G8 B6
H1 A16
H2 A6
H3 C15
H4 C5
H5 B15
H6 B5
H7 A15
H8 A5
PART OF P5
E1 C4
E2 A6
D7 A2
D8 B3
PART OF P2
PART OF P7
J1 C14
J2 C4
J3 B14
J4 B4
J5 A14
J6 A4
J7 C13
J8 C3
K1 B13
K2 B3
K3 A13
K6 A3
K7 C12
K8 C2
L1 B12
L2 B2
L7 A12
L8 A2
M1 C11
M2 C1
M3 B11
M6 B1
M7 A11
M8 A1
PART OF P6
N1 C19
N2 C9
N3 B19
N4 B9
N5 A19
N6 A9
N7 C18
N8 C8
P1 B18
P2 B8
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P6 C7
P7 B17
P8 B7
R1 A17
R2 A7
R3 C16
R4 C6
R5 B16
R6 B6
R7 A16
R8 A6
S1 C15
S2 C5
S3 B15
S4 B5
S5 A15
S6 A5
S7 C14
S8 C4
T1 B14
T2 B4
T3 A14
T4 A4
T5 C13
T6 C3
T7 B13
T8 B3
U1 A13
U2 A3
U3 C12
U4 C2
PART OF P2
PART OF P6
U5 B12
U6 B2
U7 A12
U8 A2
V1 C11
V2 C1
V3 B11
V4 B1
V5 A11
V6 A1
PART OF P5
V7 C19
V8 C9
W1 B19
W2 B9
W3 A19
W4 A9
W5 C18
W6 C8
W7 B18
W8 B8
X3 A18
X4 A8
PART OF P1
A3 C17
A4 C7
A5 B17
A6 B7
B1 A17
B2 A7
B3 C16
B4 C6
B5 B16
B6 B6
B7 A16
C1 C15
C2 C5
C3 B15
C4 B5
C5 A15
C6 A5
C7 C14
D1 B14
D2 B4
D3 A14
D4 A4
D5 C13
D6 C3
D7 B13
E1 A13
E2 A3
E3 C12
E4 C2
E5 B12
E6 B2
E7 A12
F1 C11
F2 C1
F3 B11
F4 B1
F5 A11
F6 A1
PART OF P1
PART OF P4
F7 C19
F8 C9
G1 B19
G2 B9
G3 A19
G4 A9
G5 C18
G6 C8
G7 B18
G8 B8
H1 A18
H2 A8
H3 C17
H4 C7
H5 B17
H6 B7
H7 A17
H8 A7
J1 C16
J2 C6
J3 B16
J4 B6
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K6 A5
K7 C14
K8 C4
L1 B14
L2 B4
L7 A14
L8 A4
M1 C13
M2 C3
M3 B13
M6 B3
M7 A13
M8 A3
N1 C12
N2 C2
N3 B12
N4 B2
N5 A12
N6 A2
N7 C11
N8 C1
P1 B11
P2 B1
P3 A11
P4 A1
PART OF P3
P5 C19
P6 C9
P7 B19
P8 B9
R1 A19
R2 A9
R3 C18
R4 C8
R5 B18
R6 B8
R7 A18
R8 A8
S1 C17
S2 C7
PART OF P1
PART OF P3
S3 B17
S4 B7
S5 A17
S6 A7
S7 C16
S8 C6
T1 B16
T2 B6
T3 A16
T4 A6
T5 C15
T6 C5
T7 B15
T8 B5
U1 A15
U2 A5
U3 C14
U4 C4
U5 B14
U6 B4
U7 A14
U8 A4
V1 C13
V2 C3
V3 B13
V4 B3
V5 A13
V6 A3
V7 C12
V8 C2
W1 B12
W2 B2
W3 A12
W4 A2
W5 C11
W6 C1
W7 B11
W8 B1
X3 A11
X4 A1
B8 A10
C8 A20
D8 B10
E8 B20

ELECTRICAL SCHEMATIC

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO.

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO	NOM D
	LIST OF MATERIALS	

1014156	
NEXT ASSY	USED ON
APPLICATION	

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HEAT TREATMENT
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN
DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
~~MIT APPROVAL~~
MIT APPROVAL

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HOU
CAE
WE

CODE IDENT NO —
SIZE J
SCALE NONE
WT

1014467

INCHES
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NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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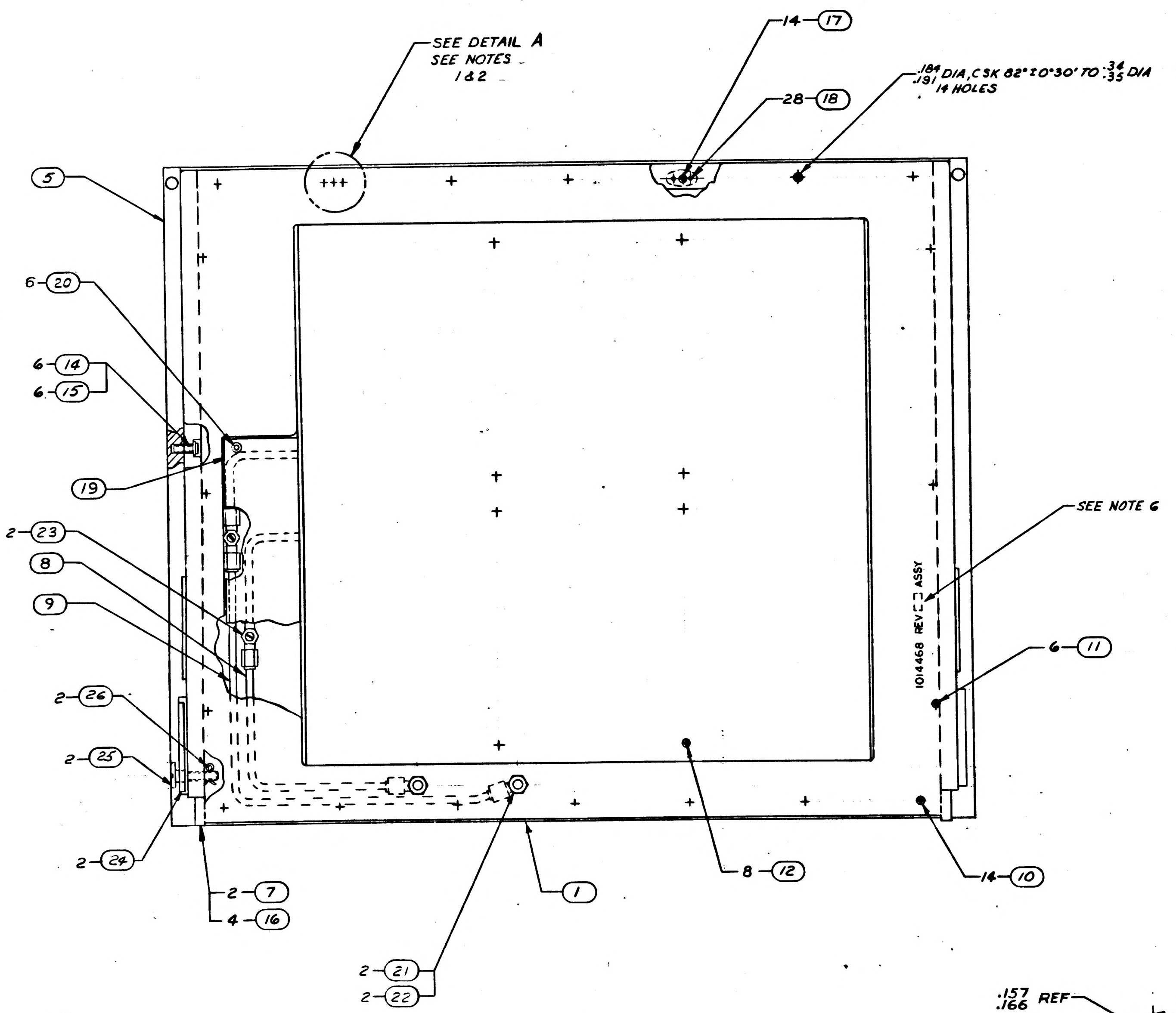
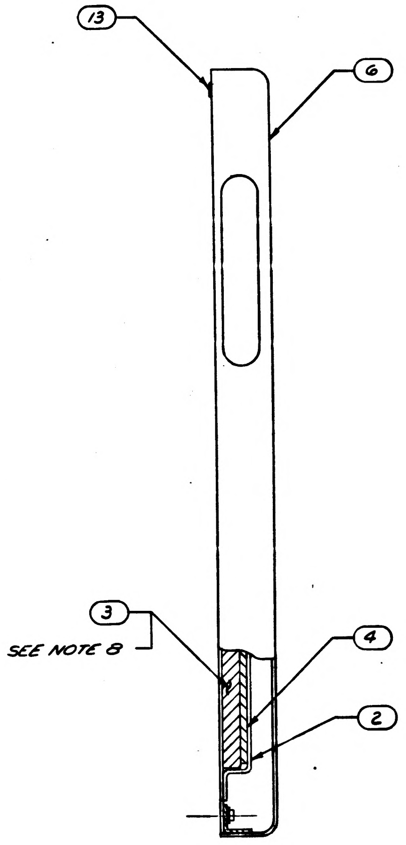
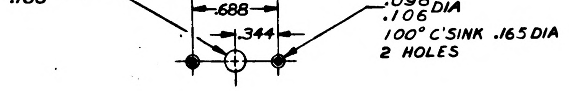
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR NO. 06330 DR R.J.D. Glenn CHK O. Coggiano APPD	25 FEB 64	

Ⓜ







DETAIL A
14 PLACES
SCALE 2/1

NOTES

1. ASSEMBLE FIND 2 TO FIND 1. WITH FIND 11 USING .125 DIA HOLES IN FIND 2 AS GUIDES DRILL AND C'SINK AS SHOWN
2. DISASSEMBLE FIND 2 AND FIND 1 BY REMOVING FIND 11. DRILL HOLES IN FIND 2 AS SHOWN
3. ASSEMBLE AS SHOWN
4. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES
5. ASSEMBLE VALVES (FIND 23) TO COLD PLATE (FIND 3). FILL COLD PLATE (FIND 3) TO MAXIMUM CAPACITY WITH COOLANT. CLOSE VALVES (FIND 23) AND ASSEMBLE COLD PLATE AS SHOWN
6. MARK APPLICABLE REV PER ND 1002019
7. CHROMATE TOUCH UP (DRILLED HOLES) PER MIL-C-5541
8. GOVT FURNISHED MATERIAL

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04137 DATE 10/30/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
2	MS9245-61	PIN, COTTER	26
2	1014394	SCREW, SHOULDER	25
2	1014393	HINGE	24
2	1006687	VALVE, LINE	23
2	AN833-4D	ELBOW, FLARED TUBE	22
2	AN924-4D	NUT, FLARED TUBE	21
6	MS35200-16	SCREW, FLAT HEAD	20
1	1020065	COVER, HYDRAULIC TUBING	19
28	MS20426AD2-5	RIVET, CSK HD	18
14	NAS1031C08	NUT, FLOATING, ANCHOR	17
4	MS16562-195	PIN, SPRING	16
6	MS15795-310	WASHER, LOCK	15
6	MS35225-81	SCREW, MACH, PAN HD	14
2	1006661	PLUG, GLIDE	13
8	MS35200-60	SCREW, MACH, CSK HD	12
6	MS35200-42	SCREW, MACH, CSK HD	11
14	MS35200-43	SCREW, MACH, CSK HD	10
1	AN6270-4-19	HOSE ASSEMBLY	9
1	AN6270-4-11	HOSE ASSEMBLY	8
2	1014431	REST, SPRING	7
1	1014433	HANDLE, ASSY	6
1	1014432	HANDLE, ASSY	5
1	1014463	PLATE, INSULATOR	4
1	1015422	COLD, PLATE	3
1	1014462	BRACKET, MOUNTING	2
1	1014397	COVER ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN [illegible] DATE 13 AUG 63
CHECKED A.J. Marinaro 30 Sep 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL W. Kupfer 30 Oct 63
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

TEST DECK ASSEMBLY
CTS / AGC OPERATION CONSOLE

CODE IDENT NO —
SIZE J
NASA DRAWING NO. 1014468
SCALE 1/2
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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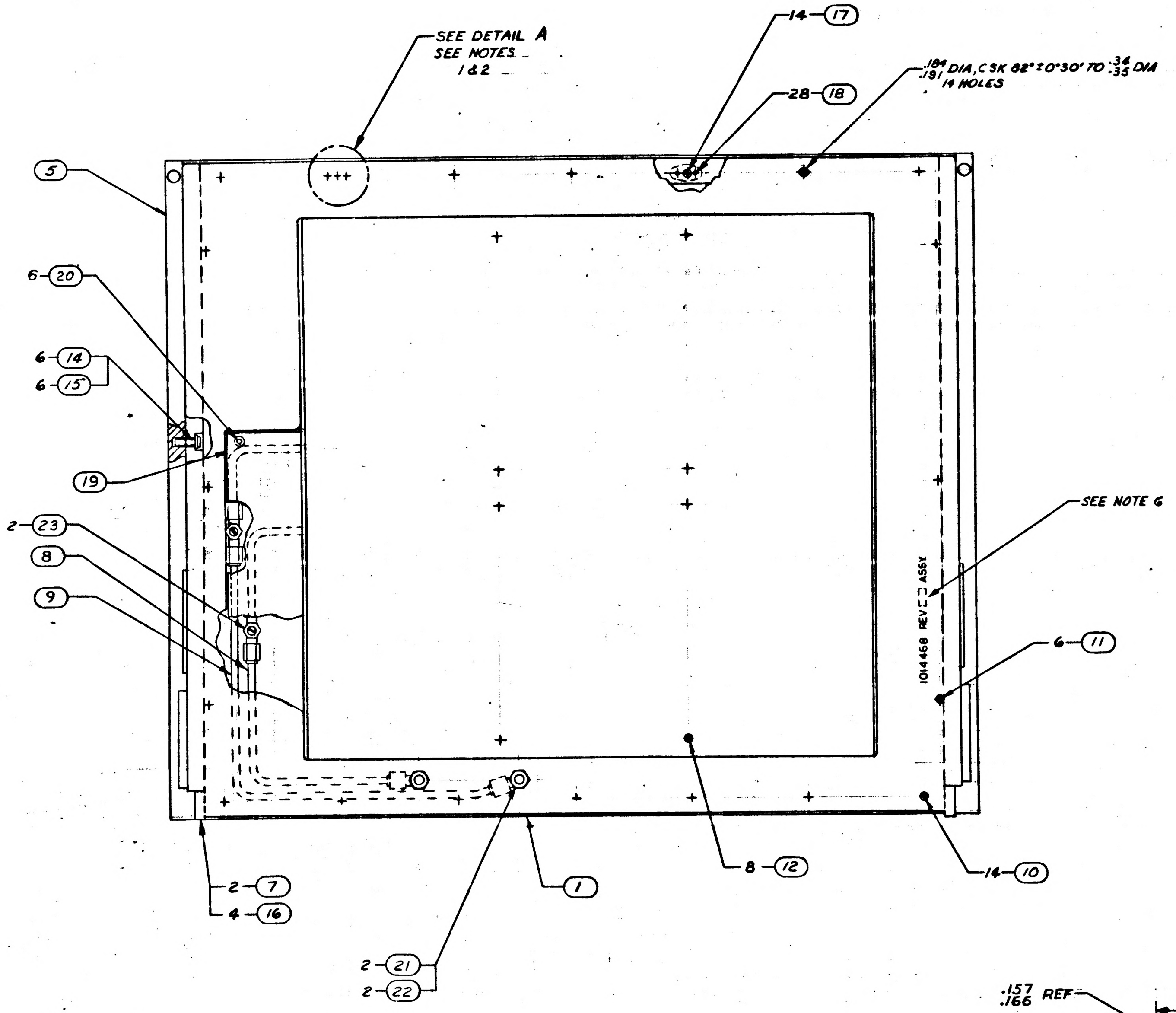
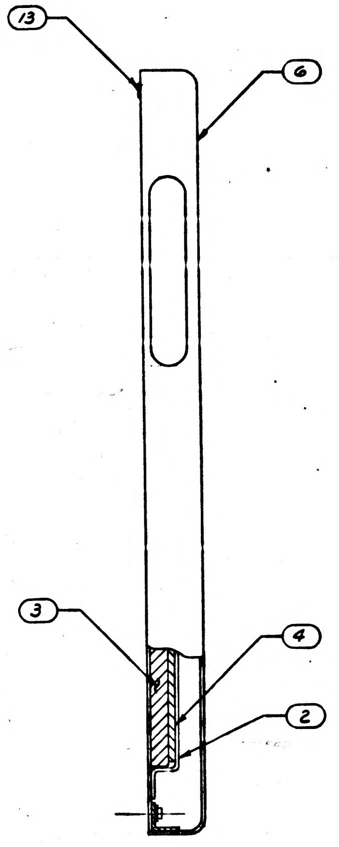
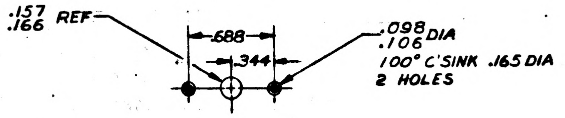
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		







DETAIL A
14 PLACES
SCALE 2/1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 7 DATE 10/3/63

NOTES

1. ASSEMBLE FIND 2 TO FIND 1 WITH FIND 11 USING .125 DIA HOLES IN FIND 2 AS GUIDES DRILL AND C'SINK AS SHOWN
2. DISASSEMBLE FIND 2 AND FIND 1 BY REMOVING FIND 11. DRILL HOLES IN FIND 2 AS SHOWN
3. ASSEMBLE AS SHOWN
4. NUMBERS PRECEDING BALLOONS INDICATE QUANTITIES
5. ASSEMBLE VALVES (FIND 23) TO COLD PLATE (FIND 3). FILL COLD PLATE (FIND 3) TO MAXIMUM CAPACITY WITH COOLANT. CLOSE VALVES (FIND 23) AND ASSEMBLE COLD PLATE AS SHOWN
6. MARK APPLICABLE REV PER ND 1002019
7. CHROMATE TOUCH UP (DRILLED HOLES) PER MIL-C-5541

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
2	1006687	VALVE, LINE	23
2	AN 833-4D	ELBOW, FLARED TUBE	22
2	AN 924-4D	NUT, FLARED TUBE	21
6	MS35200-16	SCREW, FLAT HEAD	20
1	1020065	COVER, HYDRAULIC TUBING	19
28	MS20426AD2-5	RIVET, CSK HD	18
14	NAS 1031C08	NUT, FLOATING, ANCHOR	17
4	MS16562-195	PIN, SPRING	16
6	MS15795-310	WASHER, LOCK	15
6	MS35225-81	SCREW, MACH, PAN HD	14
2	1006661	PLUG, GLIDE	13
8	MS35200-60	SCREW, MACH, CSK HD	12
6	MS35200-42	SCREW, MACH, CSK HD	11
14	MS35200-43	SCREW, MACH, CSK HD	10
1	AN6270-4-19	HOSE ASSEMBLY	9
1	AN6270-4-11	HOSE ASSEMBLY	8
2	1014431	REST, SPRING	7
1	1014433	HANDLE, ASSY	6
1	1014432	HANDLE, ASSY	5
1	1014463	PLATE, INSULATOR	4
1	1014338	COLD, PLATE	3
1	1014462	BRACKET, MOUNTING	2
1	1014397	COVER ASSEMBLY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN [illegible] DATE [illegible]
CHECKED [illegible] 30 Sep 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 30 Sep 63
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

TEST DECK ASSEMBLY
CTS / AGC OPERATION CONSOLE

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014468
SCALE 1/2
WT
SHEET 1 OF 1

INTERCRAFT DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
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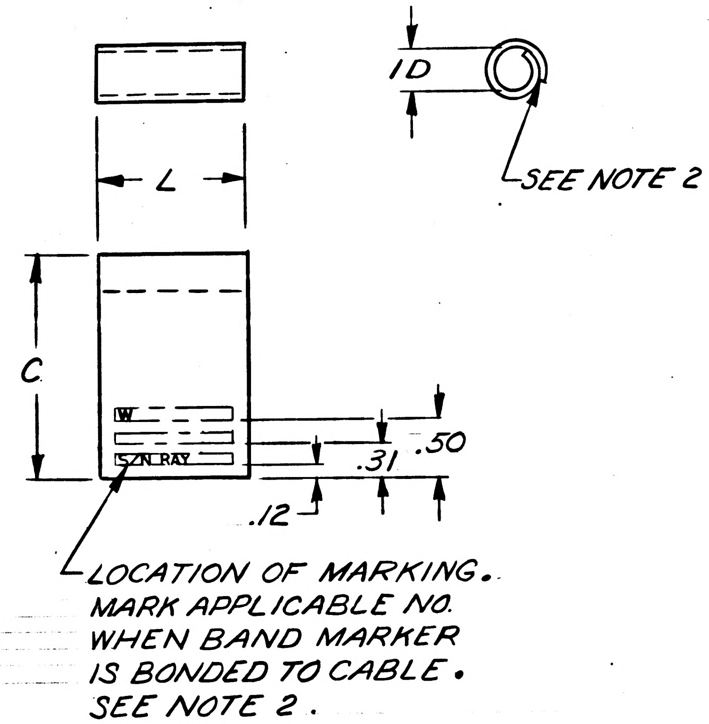
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASE PER TDRR		



ID
L
C
SEE NOTE 2
W
S/N RAY
.50
.31
.12
LOCATION OF MARKING. MARK APPLICABLE NO. WHEN BAND MARKER IS BONDED TO CABLE. SEE NOTE 2.

DASH NO.	DIMENSIONS		
	L	ID	C
-1	1.75	.38	1.50
-2		.50	1.88
-3		.62	2.25
-4		.75	2.69
-5		.88	3.06
-6		1.00	3.44
-7		1.12	3.81
-8		1.25	4.25
-9		1.38	4.63
-10		1.50	5.06
-11		1.75	5.81
-12		2.00	6.62
-13		2.25	7.38
-14		2.50	8.19
-15		2.75	8.94
-16		3.00	9.75
-17	1.75	3.25	10.50
-18	1.75	3.50	11.31
-19	1.75	.150	.88

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 03431 DATE 26 Sep 63

NOTES

1. MATL: YELLOW POLYVINYL CHLORIDE WITH A MATTE FINISH PER MIL-F-10400A
2. MARK .08 HIGH BLACK PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014370	1014156
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 1
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN A. Vorce DATE 14 AUG 63
CHECKED A.J. Marino 2 SEPT 63
APPROVAL C. Gurley JGK
APPROVAL J. [illegible] JGB 9/12/63
APPROVAL J. J. Pandolfino RAB 9/12/63
NASA APPROVAL V. [illegible] 9/16/63
MIT APPROVAL [illegible] 9/16/63
MIT APPROVAL [illegible] 9/15/63

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BAND MARKER, CABLE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014472
SCALE NONE
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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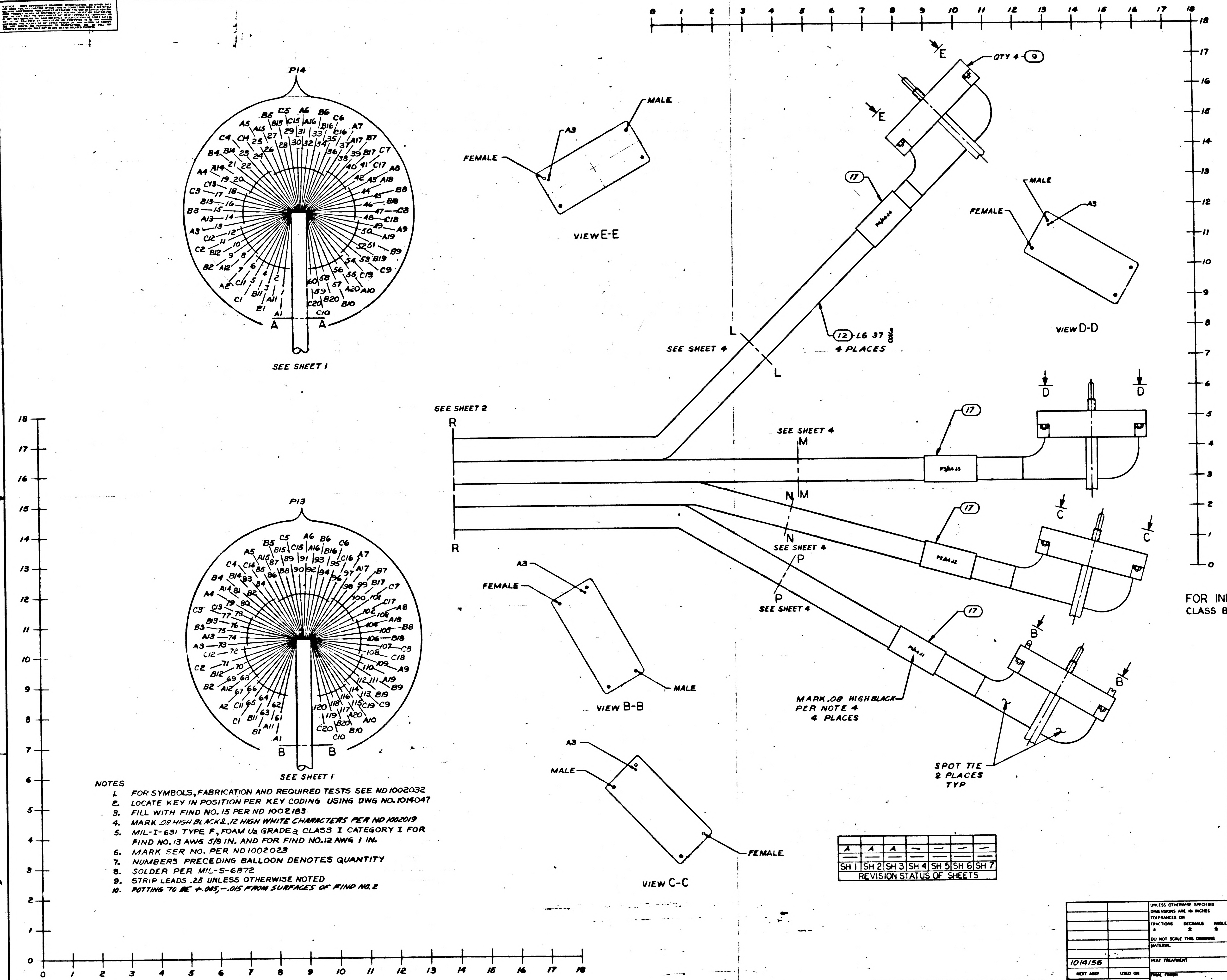
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 03586		
A	CHANGED PER TDRR 06445 DR. Ken Ball CHK APPD	MAR 64	



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 10/3/63

NOTES

1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 15 PER ND 1002183
4. MARK .08 HIGH BLACK & .12 HIGH WHITE CHARACTERS PER ND 1002019
5. MIL-I-631 TYPE F, FOAM Ua GRADE a CLASS I CATEGORY I FOR FIND NO. 13 AWG 5/8 IN. AND FOR FIND NO. 12 AWG 1 IN.
6. MARK SER NO. PER ND 1002023
7. NUMBERS PRECEDING BALLOON DENOTES QUANTITY
8. SOLDER PER MIL-S-6872
9. STRIP LEADS .25 UNLESS OTHERWISE NOTED
10. POTTING TO BE +.005, -.015 FROM SURFACES OF FIND NO. 2

A	A	A	—	—	—	—
—	—	—	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5	SH 6	SH 7
REVISION STATUS OF SHEETS						

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	1014472-6A	BAND MARKER, CABLE	17
AR	MIL-W-16878/4 TYPE E, 22 WHT	WIRE, ELEC	16
AR	1006683	COMPOUND SILICONE RUBBER	15
10	MS39056-6	BUSHING	14
AR	SEE NOTE 5	INSULATION, ELECTRICAL	13
AR	SEE NOTE 5	INSULATION, ELECTRICAL	12
AR	MIL-W-16878/4 TYPE E, 22 BLK	WIRE, ELEC	11
1	1014472-8	BAND MARKER, CABLE	10
4	1006672	CONNECTOR, 152 PIN	9
600	1010380	INSULATOR BUSHING, FEMALE	8
600	1010379-1	CONTACT, ELECTRICAL FEMALE	7
20	1014032	RECEPTACLE, INDEXING	6
20	1006997	WASHER, PLAIN FLAT	5
20	MS35337-79	WASHER, LOCK	4
20	1006998-1	SCREW, CAPTIVE	3
10	1014000-4	FRAME, MODULE	2
10	1014021	PLATE, CONNECTOR	1

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H Swindell DATE 8-13-63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL D S 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W4
COMPUTER TEST SET

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014477
SCALE 1/1 WT SHEET 1 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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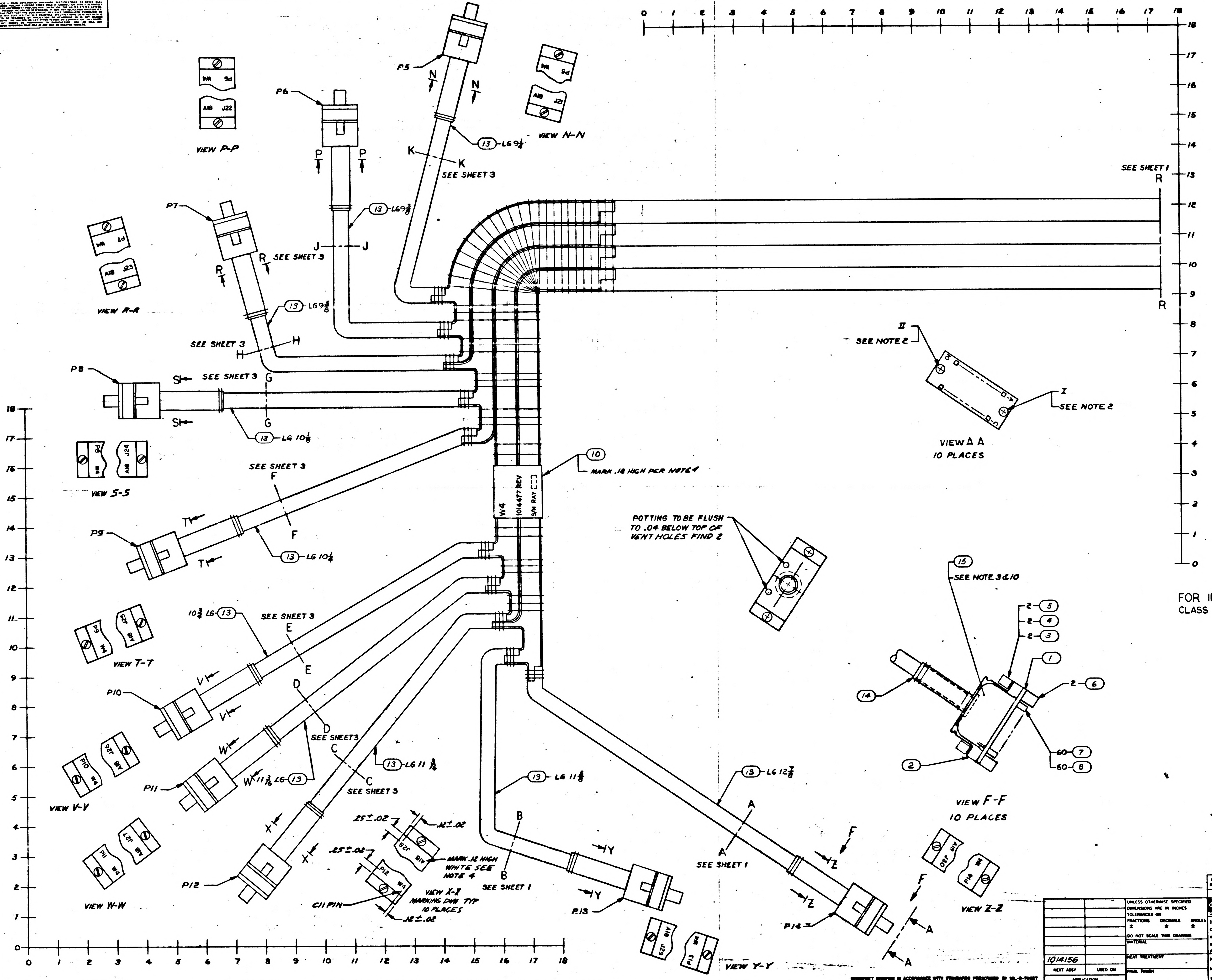
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASE PER TDRR		
A	CHANGED PER TDRR 06445 DR. Ken Ball CHK. APPD.	19 MAR 64	XCB



P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
N
P
R
S
T
V
W
X
Y
Z
VIEW P-P
VIEW N-N
VIEW R-R
VIEW S-S
VIEW T-T
VIEW V-V
VIEW W-W
VIEW Y-Y
VIEW Z-Z
A18 J22
A18 J21
A18 J23
A18 J24
A18 J25
A18 J26
A18 J27
A18 J28
A18 J29
A18 J30
P5 W4
P6 W4
P7 W4
P8 W4
P9 W4
P10 W4
P11 W4
P12 W4
P13 W4
P14 W4
(13)-LG 9¾
(13)-LG 9⅜
(13)-LG 9⅝
(13)-LG 10⅛
(13)-LG 10¼
10¾ LG-(13)
11 3/16 LG-(13)
(13)-LG 11 3/16
(13)-LG 11⅝
(13)-LG 12⅞
K
SEE SHEET 3
J
H
G
F
E
D
C
B
A
SEE SHEET 1
SEE SHEET 1 R
R
(10)
MARK .18 HIGH PER NOTE 4
W4 1014477 REV S/N RAY
.25±.02
.12±.02
MARK .12 HIGH WHITE SEE NOTE 4
C11 PIN
VIEW X-X MARKING DWG TYP 10 PLACES
II SEE NOTE 2
I SEE NOTE 2
VIEW A A 10 PLACES
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES FIND 2
(15) SEE NOTE 3 & 10
2-(5)
2-(4)
2-(3)
(1)
2-(6)
(14)
(2)
60-(7)
60-(8)
VIEW F-F 10 PLACES
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 10/1/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

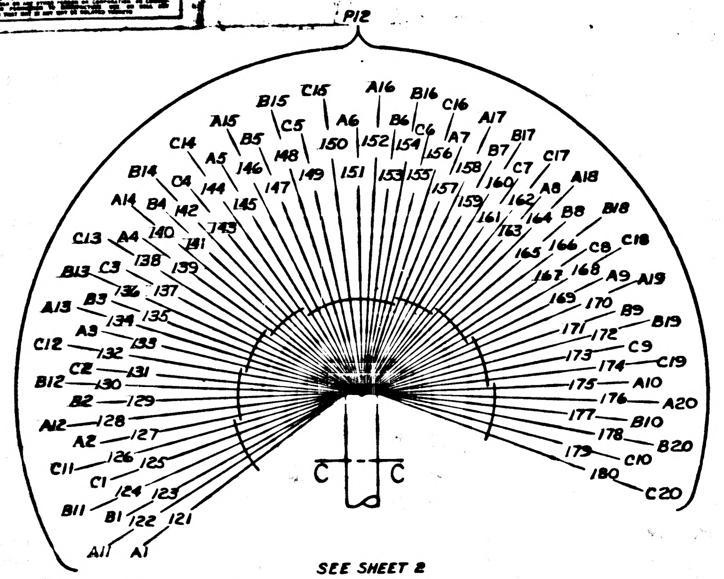
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H Swindell DATE 8-9-63
CHECKED 13 SEP 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 10-2-63
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMELY
W4
COMPUTER TEST SET

CODE IDENT NO. ——
SIZE J
NASA DRAWING NO 1014477
SCALE 1/1
WT
SHEET 2 OF 7

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 02586		
A	CHANGED PER TDRR 06445 DR. Ken Bedd CHK. J. W. Wong APPD. L. L.	1/Mar 64	XCB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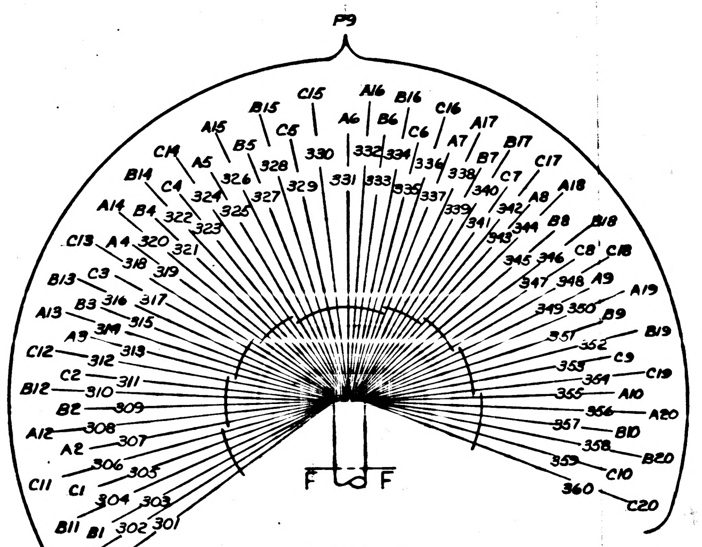
121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180
C C

SEE SHEET 2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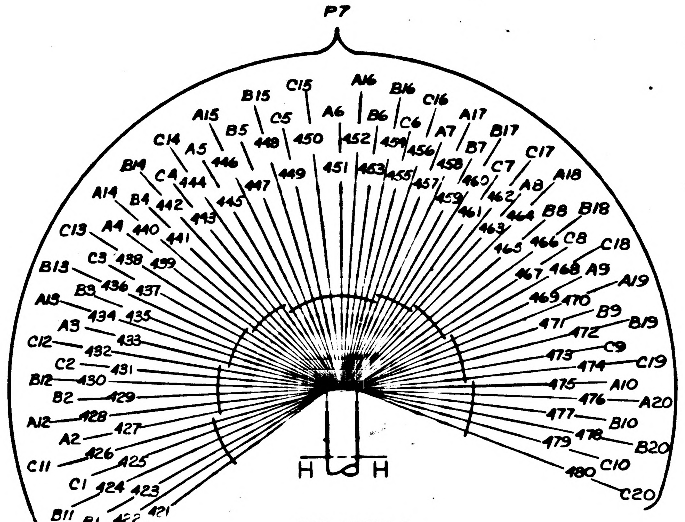
301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360
F F

SEE SHEET 2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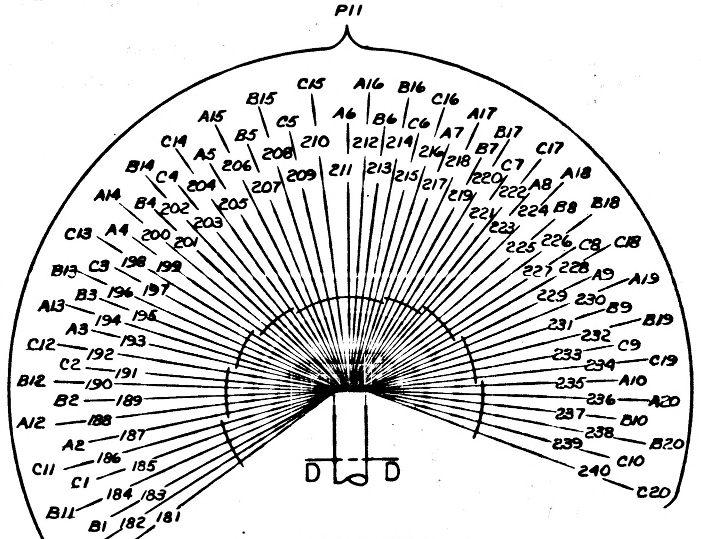
421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480
H H

SEE SHEET 2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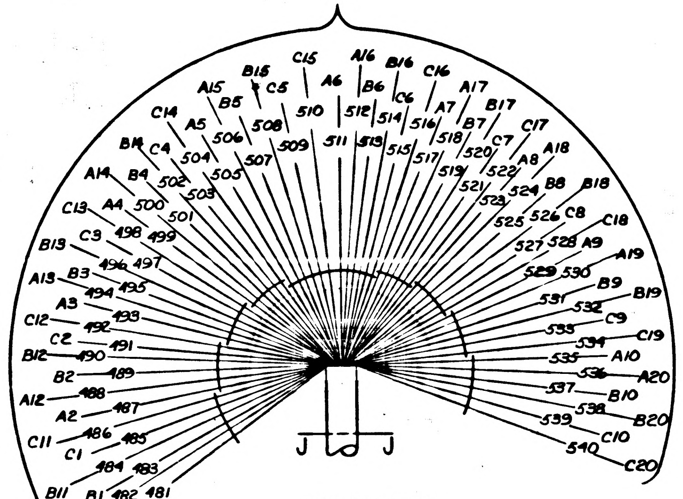
181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240
D D

SEE SHEET 2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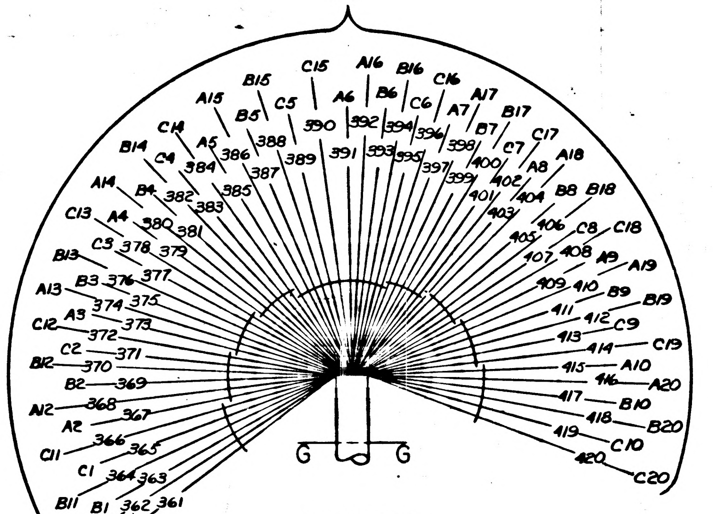
481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540
J J

SEE SHEET 2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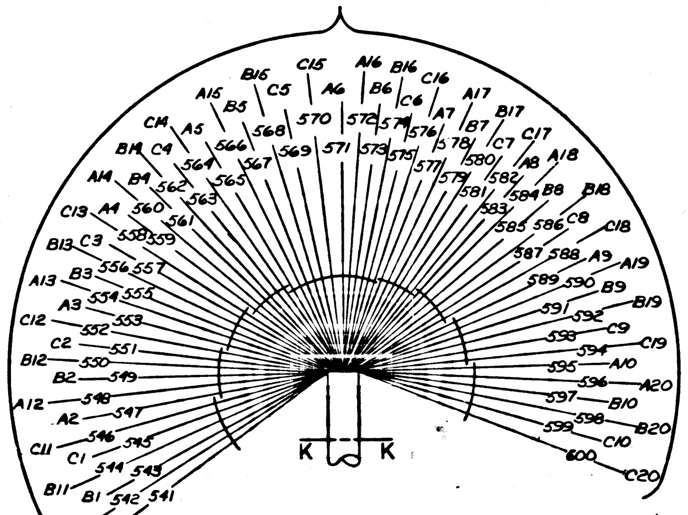
361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420
G G

SEE SHEET 2

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 02586 DATE 10/1/63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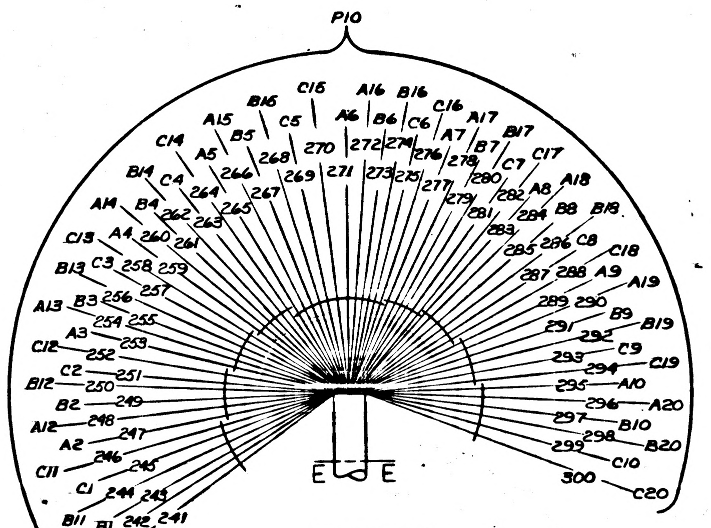
541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600
K K

SEE SHEET 2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241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300
E E

SEE SHEET 2

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL PROTECT

NEXT ASSY	USED ON
1014156	

APPLICATION

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Swindell DATE 8-15-63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
QC APPROVAL
MIT APPROVAL

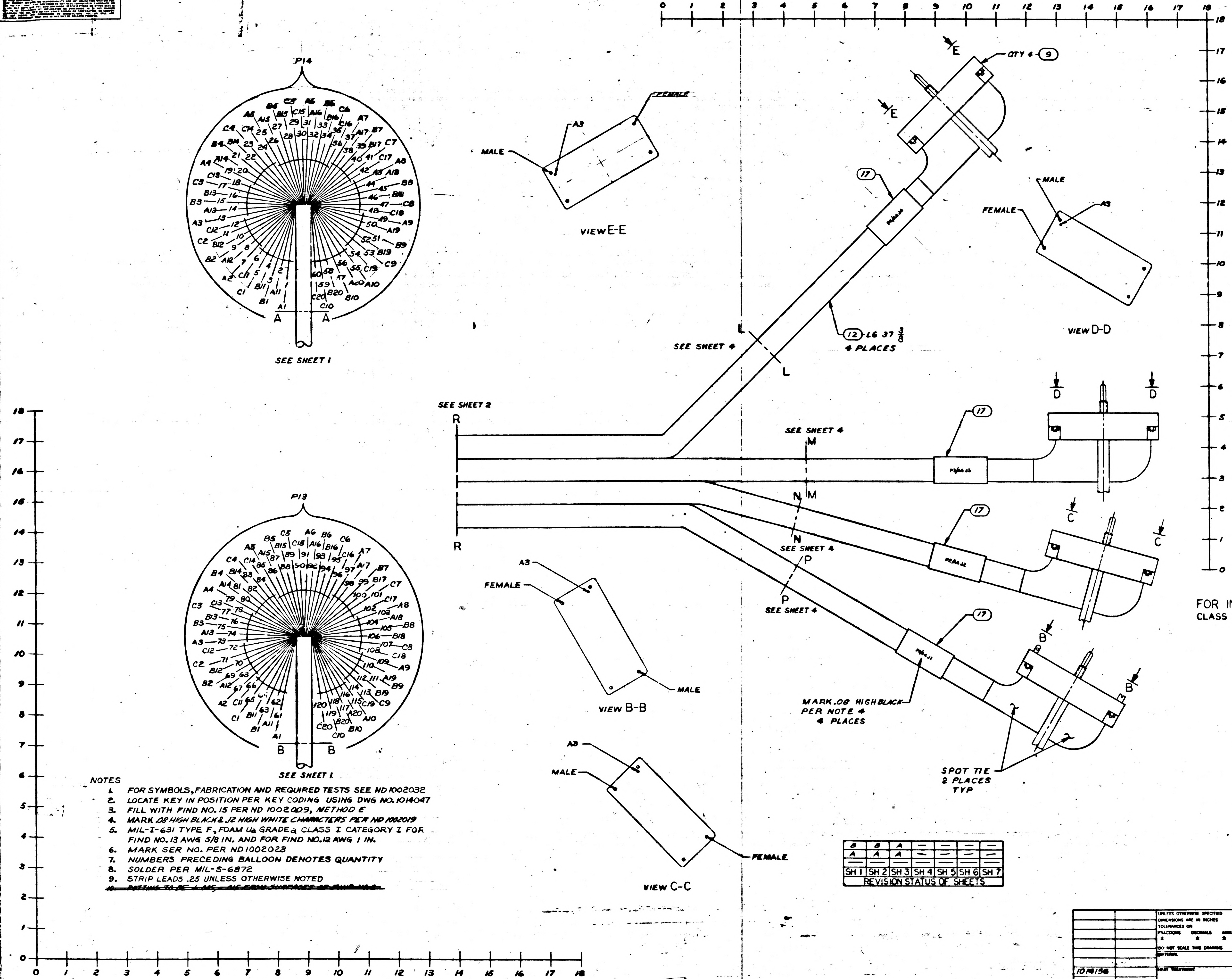
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W 4
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
DRAWING NO 1014477
SCALE 1/1
WT
SHEET OF

1014477

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 03586		
A	CHANGED PER TDRR 06445 DR. Ken Bull CHK [illegible] APPD [illegible]	19 MAR 64	KB
B	CHANGED PER TDRR 09766 DR R.E. Hinchen CHK [illegible] APPD [illegible]	9 June 64	KCB



P14
SEE SHEET 1
A
A
P13
SEE SHEET 1
B
B
FEMALE
A3
MALE
VIEW E-E
E
E
QTY 4 - 9
17
12 L6 37 3/4
4 PLACES
L
L
SEE SHEET 4
MALE
A3
FEMALE
VIEW D-D
SEE SHEET 2
R
R
17
SEE SHEET 4
M
M
N
N
D
D
17
C
C
SEE SHEET 4
P
P
SEE SHEET 4
A3
FEMALE
MALE
VIEW B-B
17
B
B
MARK .08 HIGH BLACK PER NOTE 4 4 PLACES
SPOT TIE 2 PLACES TYP
A3
MALE
FEMALE
VIEW C-C

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 10/1/63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 15 PER ND 1002009, METHOD E
4. MARK .08 HIGH BLACK & .12 HIGH WHITE CHARACTERS PER ND 1002019
5. MIL-I-631 TYPE F, FOAM Ua GRADE a CLASS I CATEGORY I FOR FIND NO. 13 AWG 5/8 IN. AND FOR FIND NO. 12 AWG 1 IN.
6. MARK SER NO. PER ND 1002023
7. NUMBERS PRECEDING BALLOON DENOTES QUANTITY
8. SOLDER PER MIL-S-6872
9. STRIP LEADS .25 UNLESS OTHERWISE NOTED
~~10. [illegible]~~

B	B	A	—	—	—	—
A	A	A	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5	SH 6	SH 7

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	1014472-6A	BAND MARKER, CABLE	17
AR	~~MIL-W-16878/4~~ TYPE E, 22 WHT	WIRE, ELEC	16
AR	1006683	COMPOUND SILICONE RUBBER	15
10	MS39056-6	BUSHING	14
AR	SEE NOTE 5	INSULATION, ELECTRICAL	13
AR	SEE NOTE 5	INSULATION, ELECTRICAL	12
AR	~~MIL-W-16878/4~~ TYPE E, 22 BLK	WIRE, ELEC	11
1	1014472-8	BAND MARKER, CABLE	10
4	1006672	CONNECTOR, 152 PIN	9
600	1010380	INSULATOR BUSHING, FEMALE	8
600	1010379-1	CONTACT, ELECTRICAL FEMALE	7
20	1014032	RECEPTACLE, INDEXING	6
20	1006997	WASHER, PLAIN FLAT	5
20	MS 35337-79	WASHER, LOCK	4
20	1006998-1	SCREW, CAPTIVE	3
10	1014000-4	FRAME, MODULE	2
10	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H Swindell DATE 8-13-63
CHECKED [illegible] 13 SEP 63
APPROVAL [illegible]
APPROVAL [illegible] 9/3/63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL D Scaramella 10/1/63

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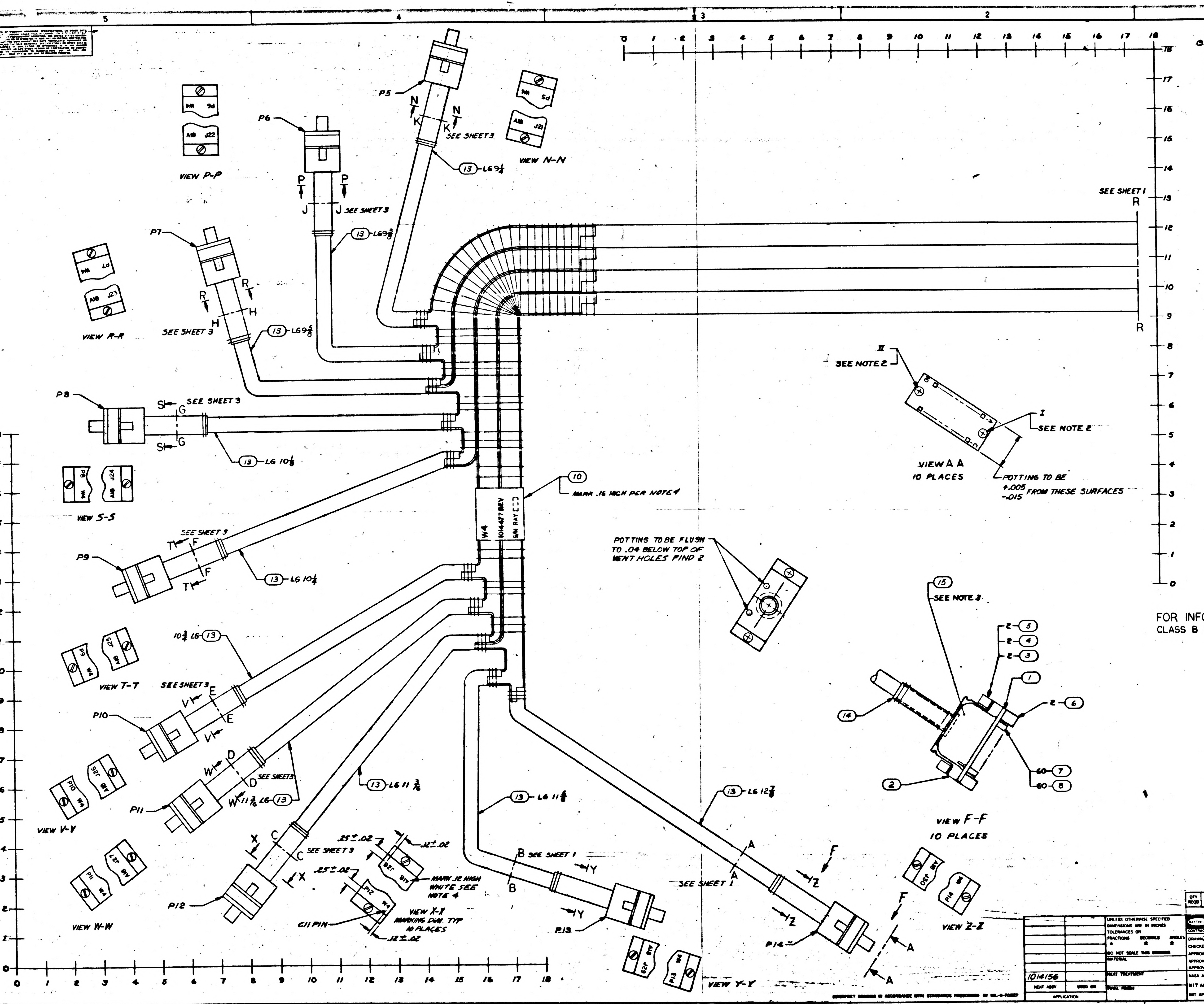
CABLE ASSEMBLY
W4
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014477
SCALE 1/1
WT
SHEET 1 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014477

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 03586		
A	CHANGED PER TDRR 06445 DR. Ken Ball CHK J Wolkowicz APPD. S Carberry	19 MAR 64	KEB
B	CHANGED PER TDRR 09766 DR P. Hinden CHK J.M. APPD S Carberry	9 June 64	KEB



P5
N
K
SEE SHEET 3
13 - L6 9¾
VIEW N-N
W4 P5
A18 J21
P6
P
J
SEE SHEET 3
13 - L6 9⅜
VIEW P-P
W4 P6
A18 J22
P7
R
H
SEE SHEET 3
13 - L6 9⅝
VIEW R-R
W4 P7
A18 J23
SEE SHEET 1
R
P8
S
G
SEE SHEET 3
13 - L6 10⅛
VIEW S-S
P8 W4
A18 J24
10
MARK .16 HIGH PER NOTE 4
W4
1014477 REV
S/N RAY
P9
T
F
SEE SHEET 3
13 - L6 10¼
VIEW T-T
P9 W4
A18 J25
10¾ L6 - 13
P10
V
E
SEE SHEET 3
VIEW V-V
P10 W4
A18 J26
P11
W
D
SEE SHEET 3
11 3/16 L6 - 13
13 - L6 11 3/16
VIEW W-W
P11 W4
A18 J27
P12
X
C
SEE SHEET 3
.25 ± .02
.12 ± .02
MARK .12 HIGH WHITE SEE NOTE 4
VIEW X-X MARKING DIM. TYP 10 PLACES
C11 PIN
P12 W4
A18 J28
13 - L6 11⅝
B
SEE SHEET 1
Y
P13
VIEW Y-Y
P13 W4
A18 J29
13 - L6 12⅞
A
SEE SHEET 1
Z
P14
F
VIEW Z-Z
P14 W4
A18 J30
II
SEE NOTE 2
I
SEE NOTE 2
VIEW A A
10 PLACES
POTTING TO BE +.005 -.015 FROM THESE SURFACES
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES FIND 2
15
SEE NOTE 3
2 - 5
2 - 4
2 - 3
1
14
2 - 6
2
60 - 7
60 - 8
VIEW F-F
10 PLACES
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 10/1/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
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MATERIAL
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FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H Swindell DATE 8-9-63
CHECKED 13 SEP 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 10-3-63
MIT APPROVAL
MIT APPROVAL 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W4
COMPUTER TEST SET

CODE IDENT NO. — SIZE J NASA DRAWING NO. 1014477
SCALE 1/1 WT SHEET 2 OF 7

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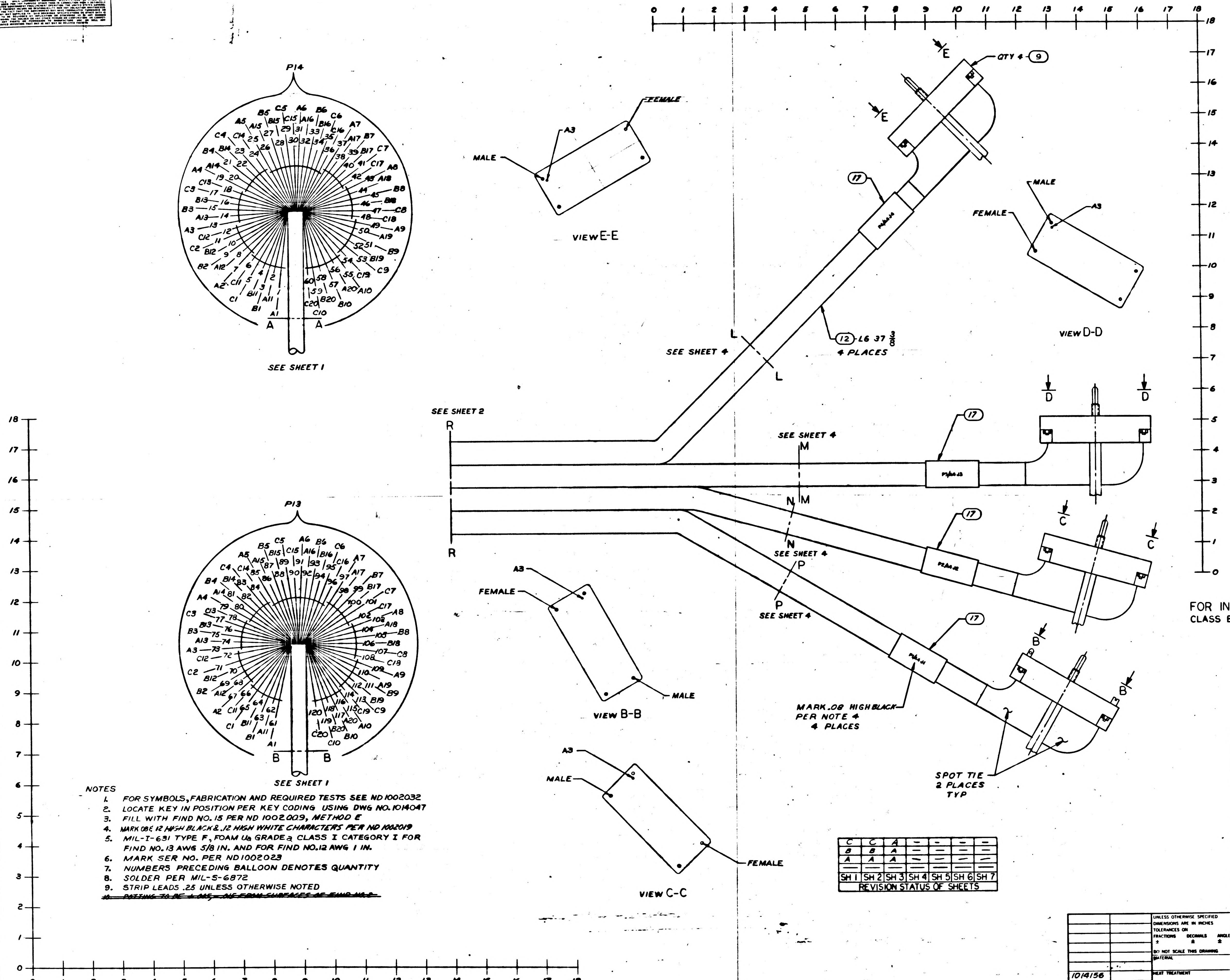
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 03586		
A	CHANGED PER TDRR 06445 DR. Ken Bull CHK APPD	19 MAR 64	
B	CHANGED PER TDRR 09766 DR RE Hirsch CHK APPD	9 June 64	
C	CHANGED PER TDRR 11958 DR A CHK APPD	31 AUG 64	



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 10/1/63

C	C	A	—	—	—	—
B	B	A	—	—	—	—
A	A	A	—	—	—	—
—	—	—	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5	SH 6	SH 7

REVISION STATUS OF SHEETS

NOTES
1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND 1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 15 PER ND 1002009, METHOD E
4. MARK .08 & .12 HIGH BLACK & .12 HIGH WHITE CHARACTERS PER ND 1002019
5. MIL-I-631 TYPE F, FOAM Ua GRADE a CLASS I CATEGORY I FOR FIND NO. 13 AWG 5/8 IN. AND FOR FIND NO. 12 AWG 1 IN.
6. MARK SER NO. PER ND 1002023
7. NUMBERS PRECEDING BALLOON DENOTES QUANTITY
8. SOLDER PER MIL-S-6872
9. STRIP LEADS .25 UNLESS OTHERWISE NOTED
~~10. POTTING TO BE [illegible] FROM SURFACES OF FIND NO. 2~~

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4	1014472-6A	BAND MARKER, CABLE	17
AR	MIL-W-16878/4 TYPE E, 22 WHT	WIRE, ELEC	16
AR	1006683	COMPOUND SILICONE RUBBER	15
10	MS39056-6	BUSHING	14
AR	SEE NOTE 5	INSULATION, ELECTRICAL	13
AR	SEE NOTE 5	INSULATION, ELECTRICAL	12
AR	MIL-W-16878/4 TYPE E, 22 BLK	WIRE, ELEC	11
1	1014472-8	BAND MARKER, CABLE	10
4	1006672	CONNECTOR, 152 PIN	9
600	1010380	INSULATOR BUSHING, FEMALE	8
600	1010379-1	CONTACT, ELECTRICAL FEMALE	7
20	1014032	RECEPTACLE, INDEXING	6
20	1006997	WASHER, PLAIN FLAT	5
20	MS35337-79	WASHER, LOCK	4
20	1006998-1	SCREW, CAPTIVE	3
10	1014000-4	FRAME, MODULE	2
10	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

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MATERIAL
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H Swindell DATE 8-13-63
CHECKED 13 SEP 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W4
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014477
SCALE 1/1
WT
SHEET 1 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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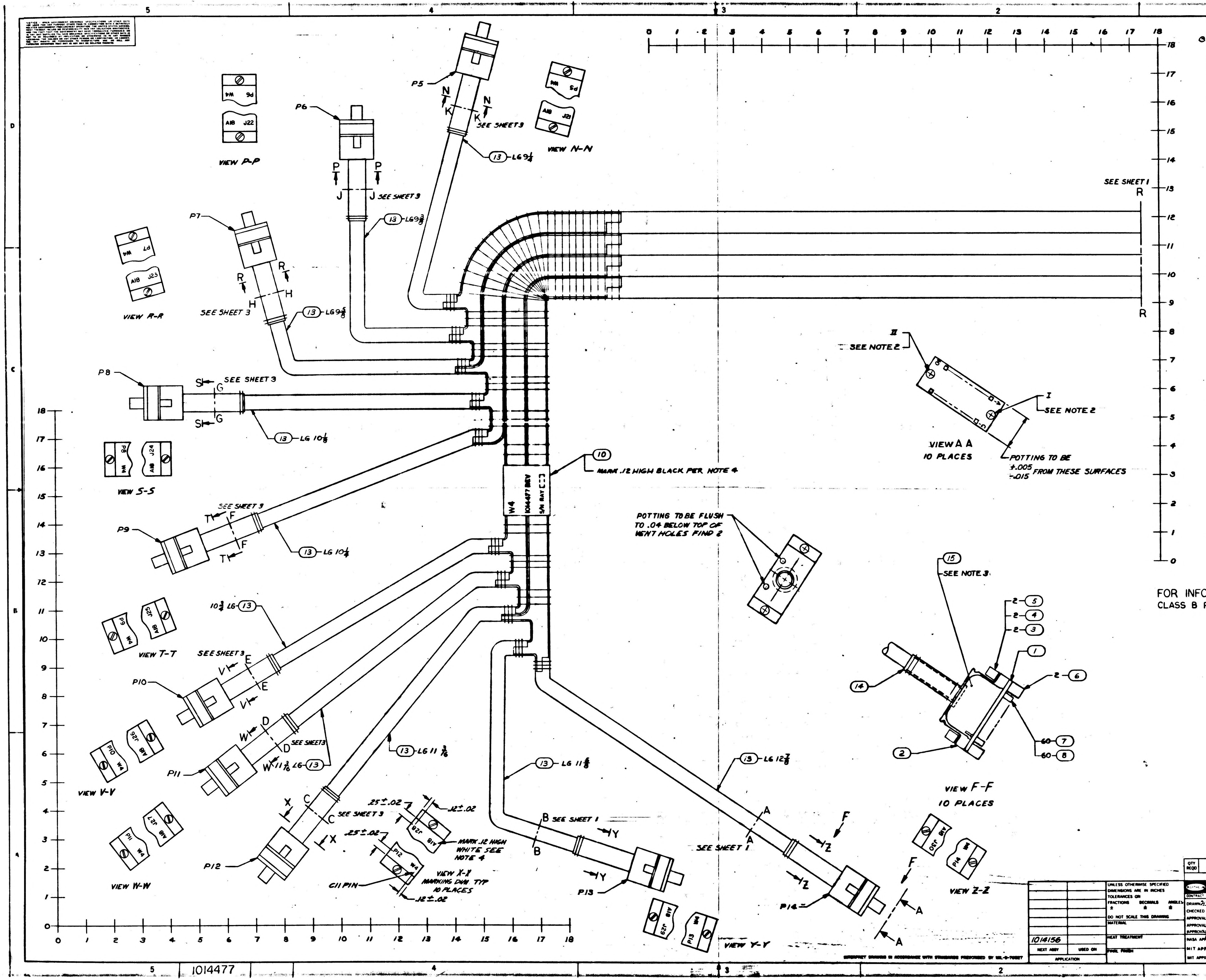
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASE PER TDRR		
A	CHANGED PER TDRR 06445 DR. Ken Bull CHK APPD.	19 MAR 64	KEB
B	CHANGED PER TDRR 09766 DR CHK APPD	9 June 64	KEO
C	CHANGED PER TDRR 11958 DR a Mitchell CHK APPD	31 Aug 64	KEB


P5
N N
K K
SEE SHEET 3
13 - LG 9¼
VIEW N-N
P5 W4
A18 J21
P6
P P
J J SEE SHEET 3
13 - LG 9⅜
P6 W4
A18 J22
VIEW P-P
P7
R R
H H
SEE SHEET 3
13 - LG 9⅝
P7 W4
A18 J23
VIEW R-R
P8
S G SEE SHEET 3
S G
13 - LG 10⅛
P8 W4
A18 J24
VIEW S-S
SEE SHEET 3
T F
T F
P9
13 - LG 10¼
P9 W4
A18 J25
VIEW T-T
10¾ LG - 13
SEE SHEET 3
V E
V E
P10
P10 W4
A18 J26
VIEW V-V
W D
SEE SHEET 3
W D
11 3/16 LG - 13
P11
13 - LG 11 3/16
P11 W4
A18 J27
VIEW W-W
X C
SEE SHEET 3
C X
P12
.25±.02
.12±.02
A18 J28
MARK .12 HIGH WHITE SEE NOTE 4
.25±.02
P12 W4
C11 PIN
VIEW X-X MARKING DIM TYP 10 PLACES
.12±.02
13 - LG 11⅝
B SEE SHEET 1
B
Y
Y
P13
A18 J29
P13 W4
VIEW Y-Y
13 - LG 12⅞
A
SEE SHEET 1
A
Z
Z
P14
F
F
A
A
A18 J30
P14 W4
VIEW Z-Z
10
MARK .12 HIGH BLACK PER NOTE 4
W4 1014477 REV S/N BAY [ ]
SEE SHEET 1
R
R
II
SEE NOTE 2
I
SEE NOTE 2
VIEW A A
10 PLACES
POTTING TO BE +.005 -.015 FROM THESE SURFACES
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES FIND 2
15
SEE NOTE 3
2 - 5
2 - 4
2 - 3
1
2 - 6
14
60 - 7
60 - 8
2
VIEW F-F
10 PLACES
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03585 DATE 10/1/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H Swindell DATE 8-9-63
CHECKED 13 SEP 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W4
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014477
SCALE 1/1
WT
SHEET 2 OF 7

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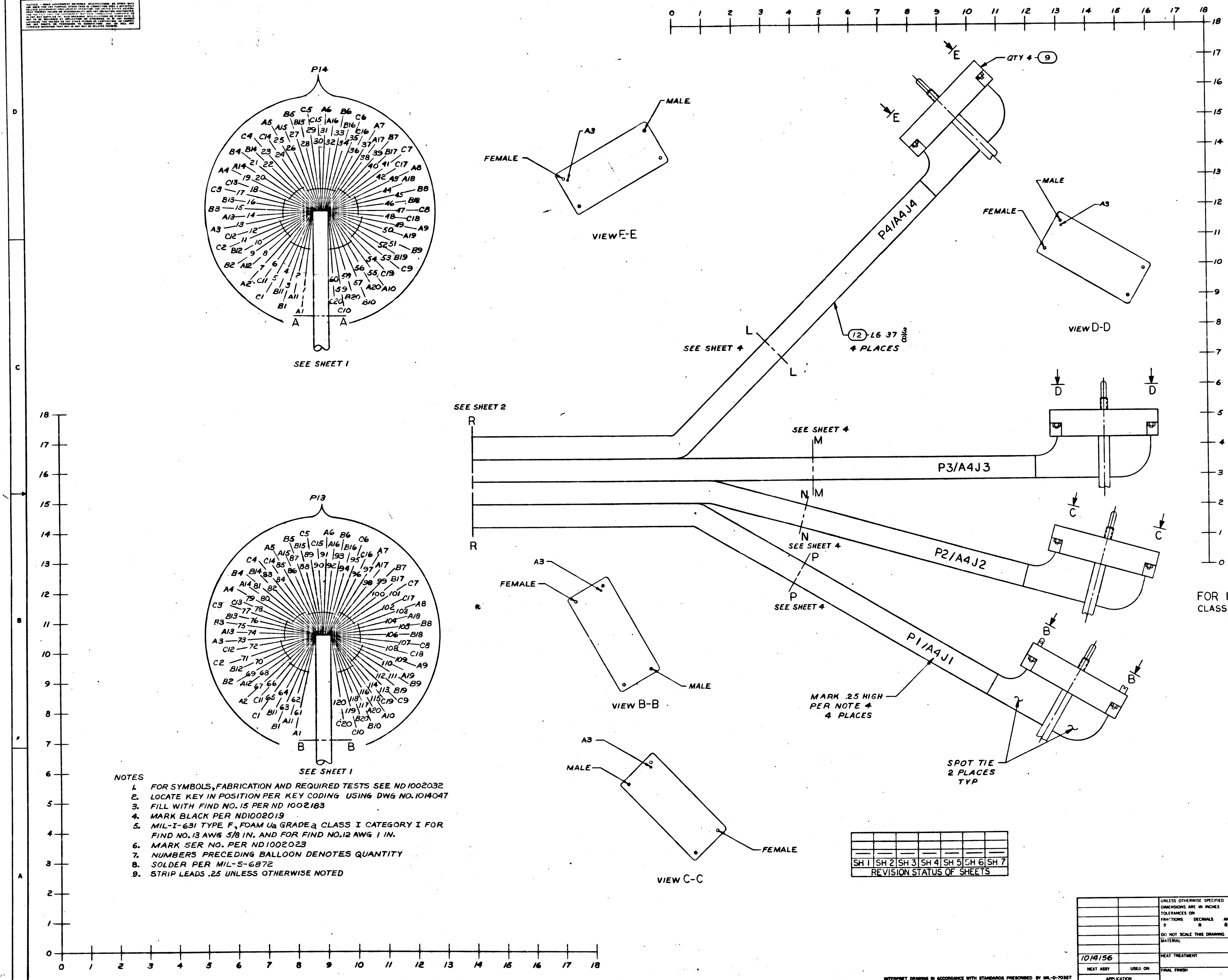
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 03586		


P14
SEE SHEET 1
A
A
P13
SEE SHEET 1
B
B
VIEW E-E
FEMALE
MALE
A3
VIEW D-D
FEMALE
MALE
A3
VIEW B-B
FEMALE
MALE
A3
VIEW C-C
MALE
FEMALE
A3
E
E
QTY 4-9
D
D
C
C
B
B
P4/A4J4
P3/A4J3
P2/A4J2
P1/A4J1
12-L6 37 3/8
4 PLACES
SEE SHEET 4
L
L
SEE SHEET 2
R
R
SEE SHEET 4
M
M
N
N
SEE SHEET 4
P
P
SEE SHEET 4
MARK .25 HIGH PER NOTE 4
4 PLACES
SPOT TIE
2 PLACES
TYP

NOTES

1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 15 PER ND 1002183
4. MARK BLACK PER ND1002019
5. MIL-I-631 TYPE F, FOAM Ua GRADE a CLASS I CATEGORY I FOR FIND NO. 13 AWG 5/8 IN. AND FOR FIND NO. 12 AWG 1 IN.
6. MARK SER NO. PER ND1002023
7. NUMBERS PRECEDING BALLOON DENOTES QUANTITY
8. SOLDER PER MIL-S-6872
9. STRIP LEADS .25 UNLESS OTHERWISE NOTED

SH 1	SH 2	SH 3	SH 4	SH 5	SH 6	SH 7

REVISION STATUS OF SHEETS

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 10/3/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	ND1002181 TYPE I CL I	WIRE, ELEC AWG 22 WHT	16
AR	1006904	EPOXY RESIN	15
10	MS39056-6	BUSHING	14
AR	SEE NOTE 5	INSULATION, ELECTRICAL	13
AR	SEE NOTE 5	INSULATION, ELECTRICAL	12
AR	ND1002181 TYPE I CL I	WIRE, ELEC, AWG 22 BLK	11
1	1014472-12	BAND MARKER, CABLE	10
4	1006672	CONNECTOR, 152 PIN	9
600	1010380	INSULATOR BUSHING, FEMALE	8
600	1010379-1	CONTACT, ELECTRICAL FEMALE	7
20	1014032	RECEPTACLE, INDEXING	6
20	1006997	WASHER, PLAIN FLAT	5
20	MS35337-79	WASHER, LOCK	4
20	1006998-1	SCREW, CAPTIVE	3
10	1014000-4	FRAME, MODULE	2
10	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H Swindell DATE 8-13-63
CHECKED 13 SEP 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
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MIT APPROVAL 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W4
COMPUTER TEST SET

CODE IDENT NO. —— SIZE J NASA DRAWING NO 1014477
SCALE 1/1 WT SHEET 1 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014477

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REVISIONS			
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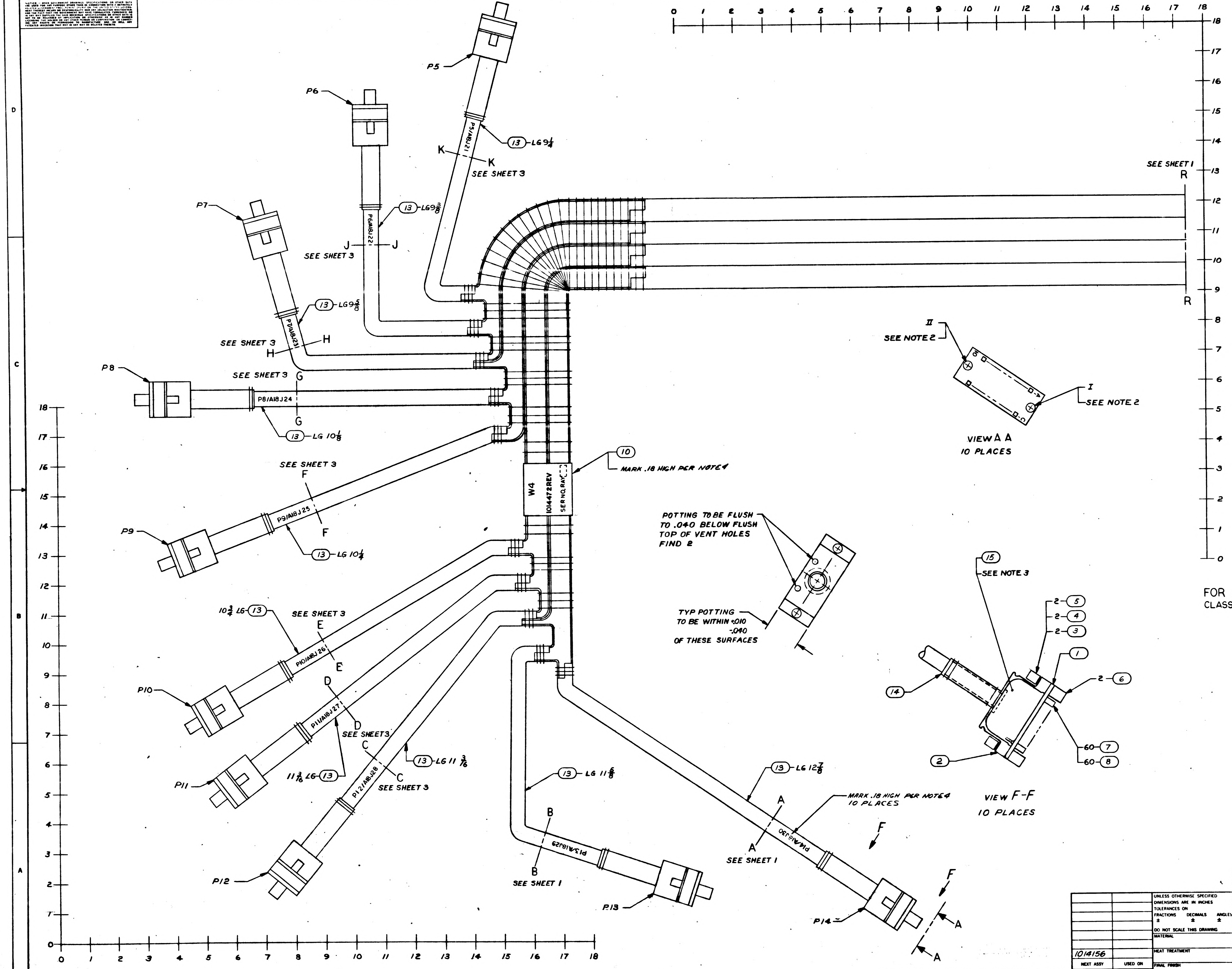

P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P5/A18J21
P6/A18J22
P7/A18J23
P8/A18J24
P9/A18J25
P10/A18J26
P11/A18J27
P12/A18J28
P13/A18J29
P14/A18J30
(13)-LG 9¾
(13)-LG 9⅜
(13)-LG 9⅝
(13)-LG 10⅛
(13)-LG 10¼
10¾ LG-(13)
11 3/16 LG-(13)
(13)-LG 11 3/16
(13)-LG 11⅝
(13)-LG 12⅞
K K SEE SHEET 3
J J SEE SHEET 3
H H SEE SHEET 3
G G SEE SHEET 3
F F SEE SHEET 3
E E SEE SHEET 3
D D SEE SHEET 3
C C SEE SHEET 3
B B SEE SHEET 1
A A SEE SHEET 1
SEE SHEET 1
R R
W4
1014472 REV
SER NO. RAY
(10)
MARK .18 HIGH PER NOTE 4
MARK .18 HIGH PER NOTE 4 10 PLACES
II SEE NOTE 2
I SEE NOTE 2
VIEW A A
10 PLACES
POTTING TO BE FLUSH TO .040 BELOW FLUSH TOP OF VENT HOLES FIND 2
TYP POTTING TO BE WITHIN +.010 -.040 OF THESE SURFACES
(15) SEE NOTE 3
2-(5)
2-(4)
2-(3)
(1)
2-(6)
(14)
(2)
60-(7)
60-(8)
VIEW F-F
10 PLACES
F F
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 10/1/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H Swindell DATE 8-9-63
CHECKED 13 SEP 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 10-7-63
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

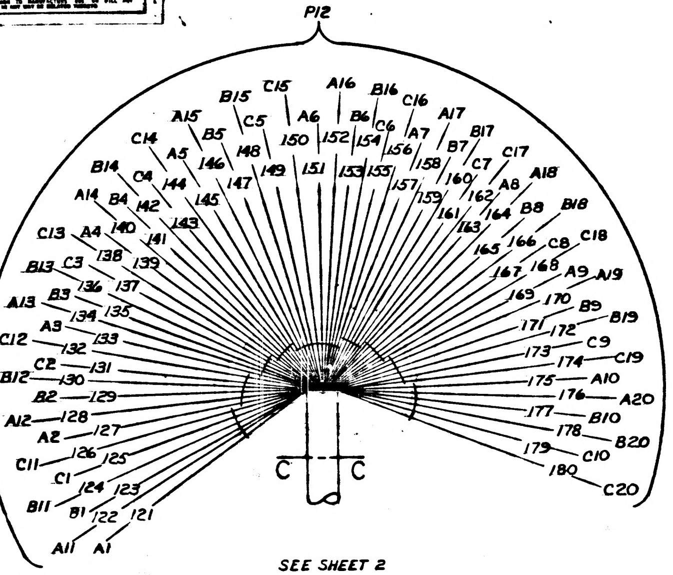
CABLE ASSEMBLY
W4
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014477
SCALE 1/1
WT
SHEET 2 OF 7

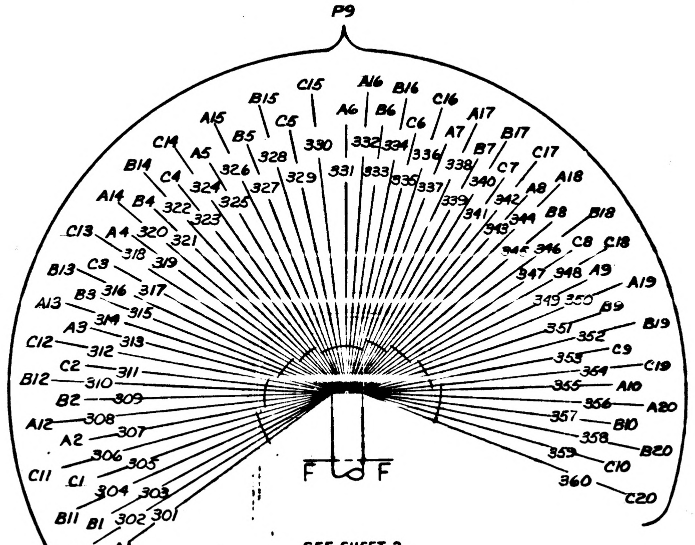
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014477

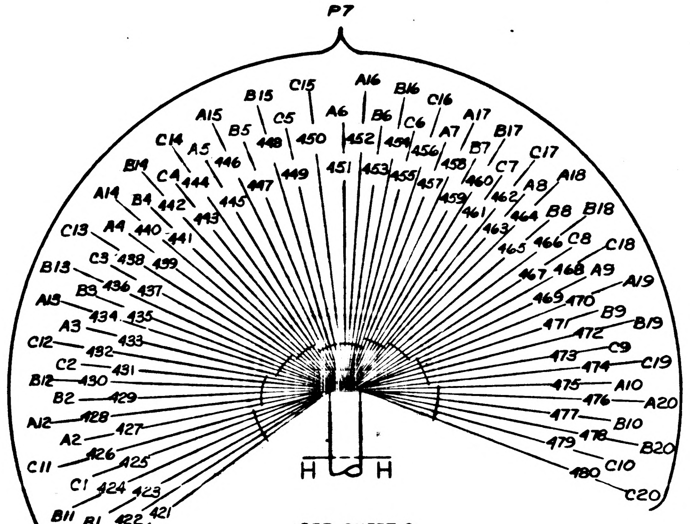
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 03586		



SEE SHEET 2



SEE SHEET 2



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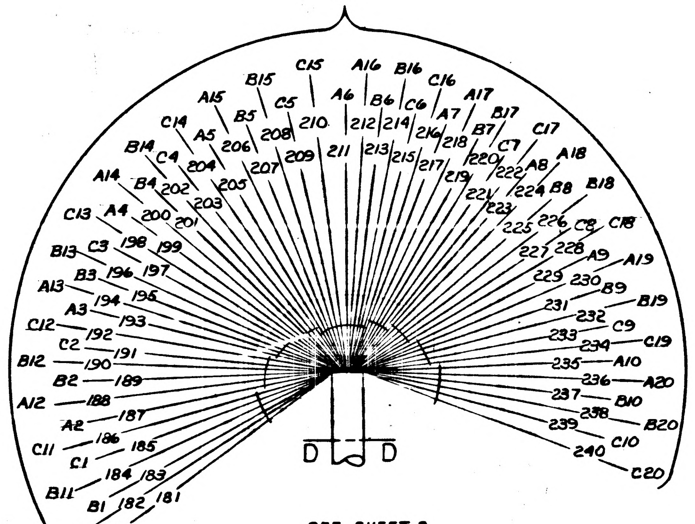
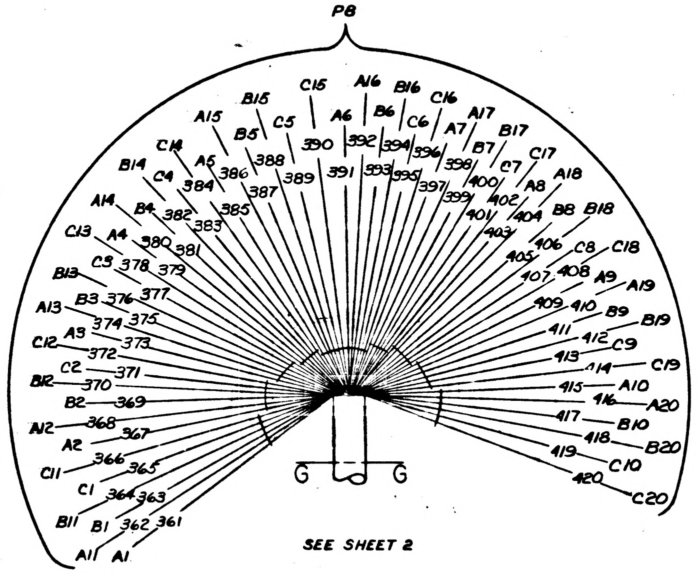
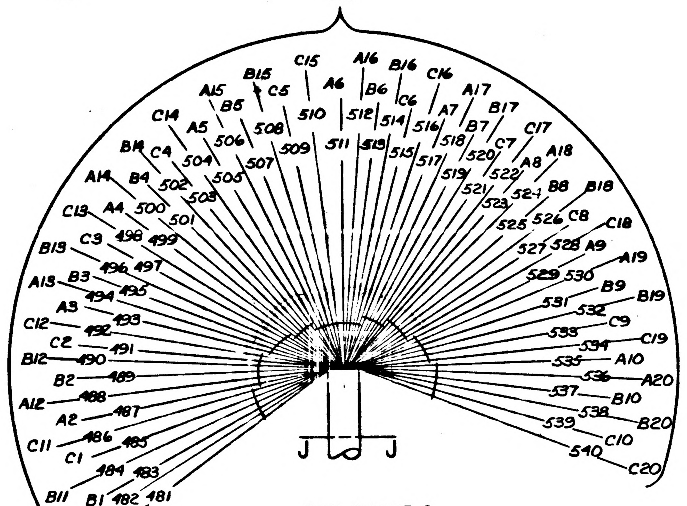


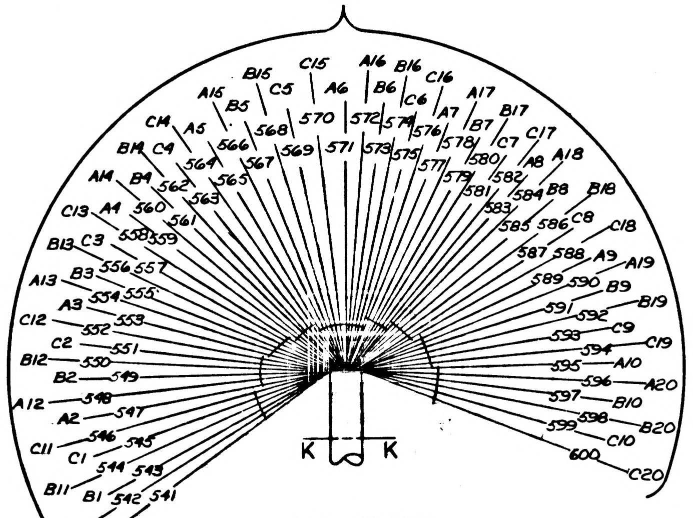
SEE SHEET 2



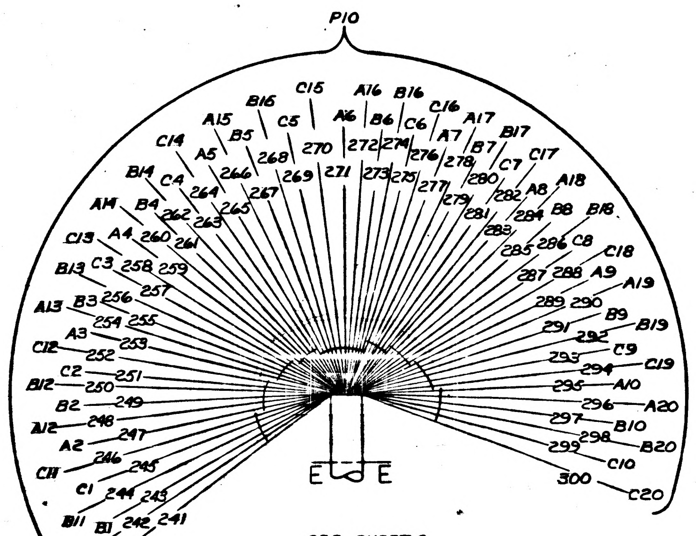
SEE SHEET 2



SEE SHEET 2



SEE SHEET 2



SEE SHEET 2

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO 03586 DATE 10/1/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	
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FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-493
DRAWN H Swindell DATE 8-15-63
CHECKED G Rea 18 SEP 63
APPROVAL C Spalding JRK
APPROVAL 9/20/63
APPROVAL
NASA APPROVAL W.J. Blume 10-3-63
MIT APPROVAL
MIT APPROVAL J. B. 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

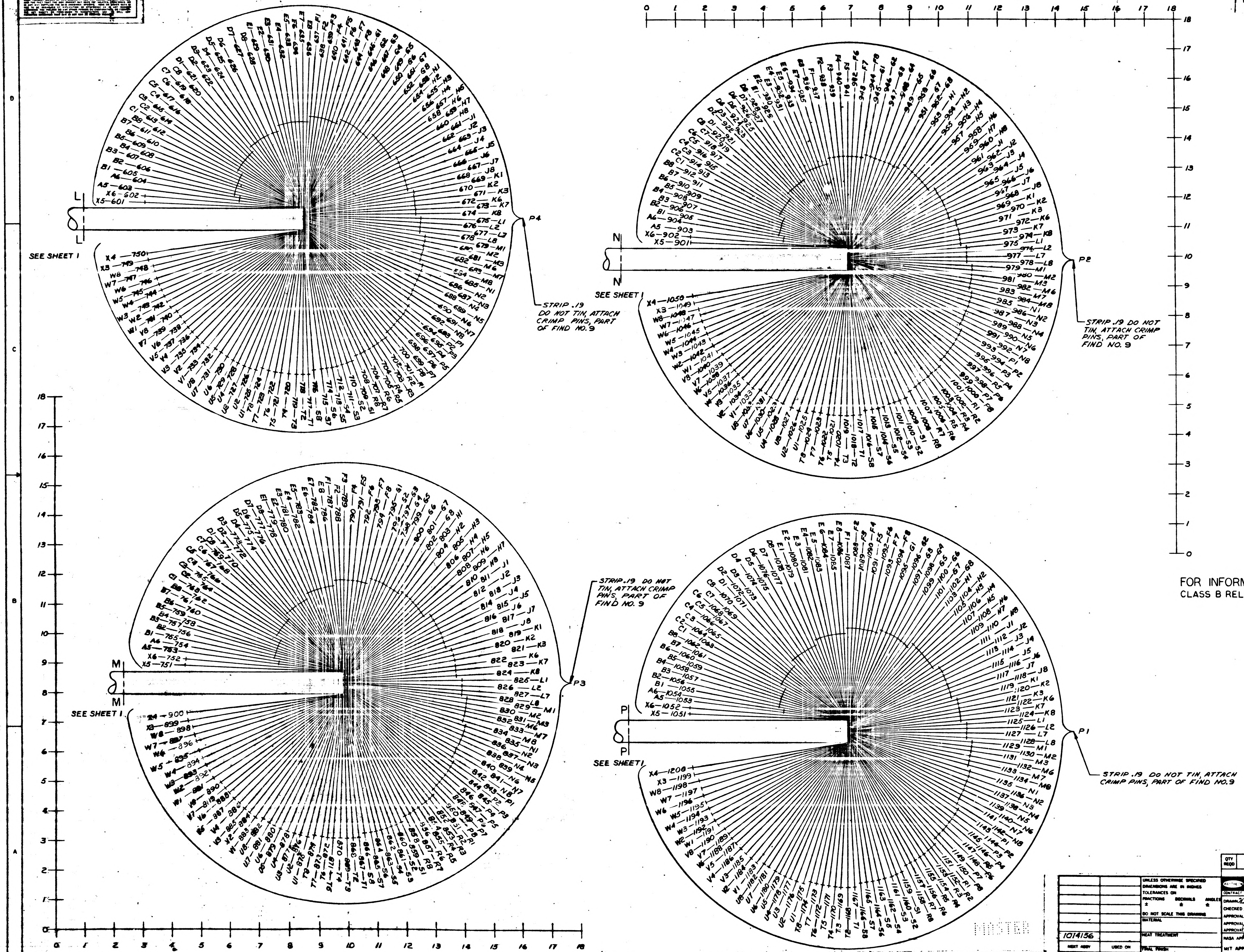
CABLE ASSEMBLY
W 4
COMPUTER TEST SET

CODE IDENT NO —— SIZE J NASA DRAWING NO 1014477
SCALE 1/1 WT SHEET 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 03586		



P4
P2
P3
P1
L
N
M
P
SEE SHEET 1
SEE SHEET 1
SEE SHEET 1
SEE SHEET 1
X5—601
X5—901
X5—751
X5—1051
STRIP .19 DO NOT TIN, ATTACH CRIMP PINS, PART OF FIND NO. 9
STRIP .19 DO NOT TIN, ATTACH CRIMP PINS, PART OF FIND NO. 9
STRIP .19 DO NOT TIN, ATTACH CRIMP PINS, PART OF FIND NO. 9
STRIP .19 DO NOT TIN, ATTACH CRIMP PINS, PART OF FIND NO. 9
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 1/63

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
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DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 8-21-63
CHECKED [illegible] 13 SEP 63
APPROVAL E. Sperling JPK
APPROVAL [illegible] 9/20/63
APPROVAL [illegible]
NASA APPROVAL [illegible] 10-3-63
MIT APPROVAL [illegible] 30/63
MIT APPROVAL D. [illegible] 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

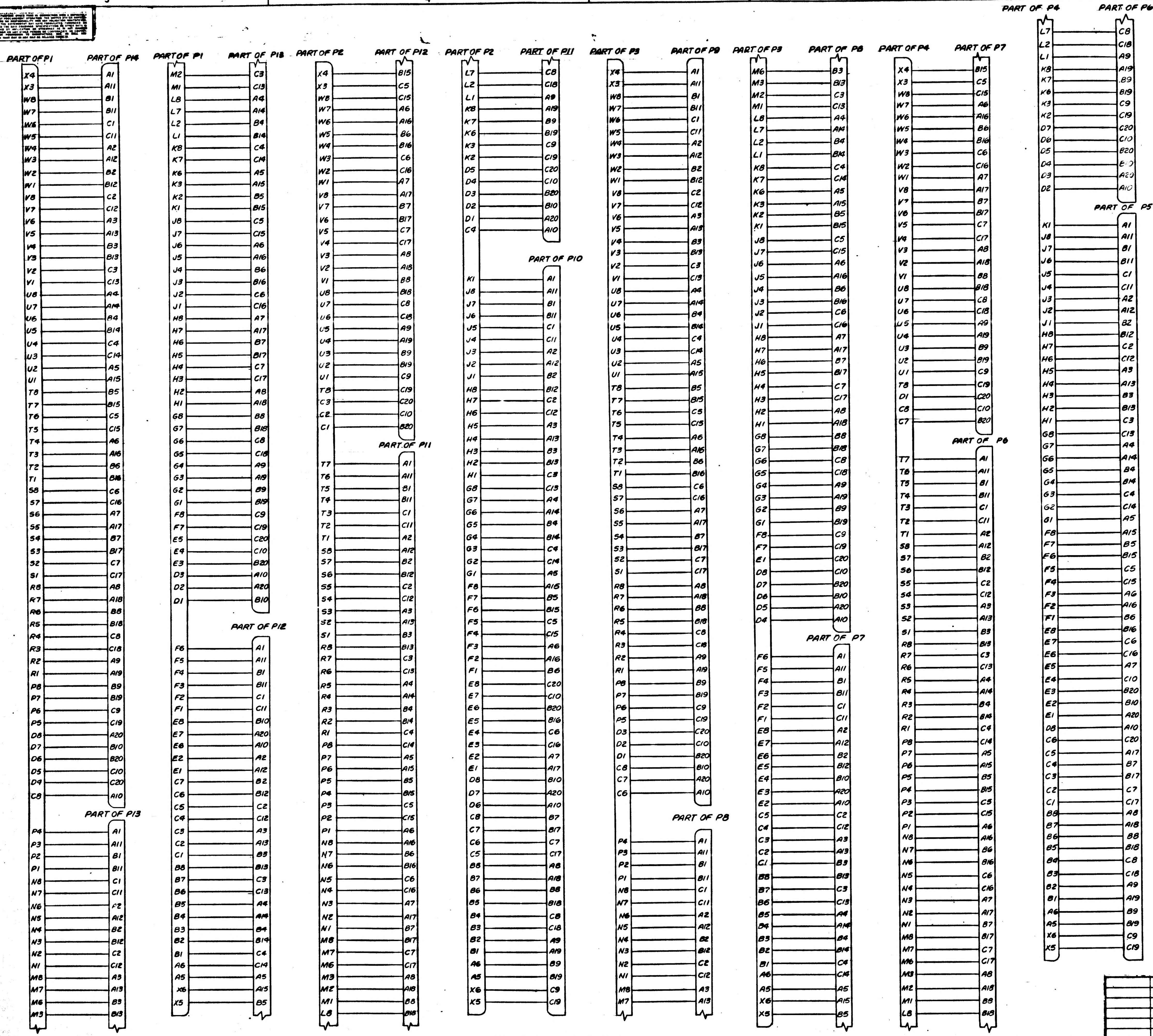
CABLE ASSEMBLY
W4
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014477
SCALE 1/1
WT
SHEET 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014477

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR 03586		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PART OF P14
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X3 A11
W8 B1
W7 B11
W6 C1
W5 C11
W4 A2
W3 A12
W2 B2
W1 B12
V8 C2
V7 C12
V6 A3
V5 A13
V4 B3
V3 B13
V2 C3
V1 C13
U8 A4
U7 A14
U6 B4
U5 B14
U4 C4
U3 C14
U2 A5
U1 A15
T8 B5
T7 B15
T6 C5
T5 C15
T4 A6
T3 A16
T2 B6
T1 B16
S8 C6
S7 C16
S6 A7
S5 A17
S4 B7
S3 B17
S2 C7
S1 C17
R8 A8
R7 A18
R6 B8
R5 B18
R4 C8
R3 C18
R2 A9
R1 A19
P8 B9
P7 B19
P6 C9
P5 C19
D8 A20
D7 B10
D6 B20
D5 C10
D4 C20
C8 A10
PART OF P13
P4 A1
P3 A11
P2 B1
P1 B11
N8 C1
N7 C11
N6 F2
N5 A12
N4 B2
N3 B12
N2 C2
N1 C12
M8 A3
M7 A13
M6 B3
M3 B13
PART OF P1
PART OF P18
M2 C3
M1 C13
L8 A4
L7 A14
L2 B4
L1 B14
K8 C4
K7 C14
K6 A5
K3 A15
K2 B5
K1 B15
J8 C5
J7 C15
J6 A6
J5 A16
J4 B6
J3 B16
J2 C6
J1 C16
H8 A7
H7 A17
H6 B7
H5 B17
H4 C7
H3 C17
H2 A8
H1 A18
G8 B8
G7 B18
G6 C8
G5 C18
G4 A9
G3 A19
G2 B9
G1 B19
F8 C9
F7 C19
E5 C20
E4 C10
E3 B20
D3 A10
D2 A20
D1 B10
PART OF P12
F6 A1
F5 A11
F4 B1
F3 B11
F2 C1
F1 C11
E8 B10
E7 A20
E6 A10
E2 A2
E1 A12
C7 B2
C6 B12
C5 C2
C4 C12
C3 A3
C2 A13
C1 B3
B8 B13
B7 C3
B6 C13
B5 A4
B4 A14
B3 B4
B2 B14
B1 C4
A6 C14
A5 A5
X6 A15
X5 B5
PART OF P2
PART OF P12
X4 B15
X3 C5
W8 C15
W7 A6
W6 A16
W5 B6
W4 B16
W3 C6
W2 C16
W1 A7
V8 A17
V7 B7
V6 B17
V5 C7
V4 C17
V3 A8
V2 A18
V1 B8
U8 B18
U7 C8
U6 C18
U5 A9
U4 A19
U3 B9
U2 B19
U1 C9
T8 C19
C3 C20
C2 C10
C1 B20
PART OF P11
T7 A1
T6 A11
T5 B1
T4 B11
T3 C1
T2 C11
T1 A2
S8 A12
S7 B2
S6 B12
S5 C2
S4 C12
S3 A3
S2 A13
S1 B3
R8 B13
R7 C3
R6 C13
R5 A4
R4 A14
R3 B4
R2 B14
R1 C4
P8 C14
P7 A5
P6 A15
P5 B5
P4 B15
P3 C5
P2 C15
P1 A6
N8 A16
N7 B6
N6 B16
N5 C6
N4 C16
N3 A7
N2 A17
N1 B7
M8 B17
M7 C7
M6 C17
M3 A8
M2 A18
M1 B8
L8 B18
PART OF P2
PART OF P11
L7 C8
L2 C18
L1 A9
K8 A19
K7 B9
K6 B19
K3 C9
K2 C19
D5 C20
D4 C10
D3 B20
D2 B10
D1 A20
C4 A10
PART OF P10
K1 A1
J8 A11
J7 B1
J6 B11
J5 C1
J4 C11
J3 A2
J2 A12
J1 B2
H8 B12
H7 C2
H6 C12
H5 A3
H4 A13
H3 B3
H2 B13
H1 C3
G8 C13
G7 A4
G6 A14
G5 B4
G4 B14
G3 C4
G2 C14
G1 A5
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F7 B5
F6 B15
F5 C5
F4 C15
F3 A6
F2 A16
F1 B6
E8 C20
E7 C10
E6 B20
E5 B16
E4 C6
E3 C16
E2 A7
E1 A17
D8 B10
D7 A20
D6 A10
C8 B7
C7 B17
C6 C7
C5 C17
B8 A8
B7 A18
B6 B8
B5 B18
B4 C8
B3 C18
B2 A9
B1 A19
A6 B9
A5 B19
X6 C9
X5 C19
PART OF P3
PART OF P9
X4 A1
X3 A11
W8 B1
W7 B11
W6 C1
W5 C11
W4 A2
W3 A12
W2 B2
W1 B12
V8 C2
V7 C12
V6 A3
V5 A13
V4 B3
V3 B13
V2 C3
V1 C13
U8 A4
U7 A14
U6 B4
U5 B14
U4 C4
U3 C14
U2 A5
U1 A15
T8 B5
T7 B15
T6 C5
T5 C15
T4 A6
T3 A16
T2 B6
T1 B16
S8 C6
S7 C16
S6 A7
S5 A17
S4 B7
S3 B17
S2 C7
S1 C17
R8 A8
R7 A18
R6 B8
R5 B18
R4 C8
R3 C18
R2 A9
R1 A19
P8 B9
P7 B19
P6 C9
P5 C19
D3 C20
D2 C10
D1 B20
C8 B10
C7 A20
C6 A10
PART OF P8
P4 A1
P3 A11
P2 B1
P1 B11
N8 C1
N7 C11
N6 A2
N5 A12
N4 B2
N3 B12
N2 C2
N1 C12
M8 A3
M7 A13
PART OF P3
PART OF P8
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M3 B13
M2 C3
M1 C13
L8 A4
L7 A14
L2 B4
L1 B14
K8 C4
K7 C14
K6 A5
K3 A15
K2 B5
K1 B15
J8 C5
J7 C15
J6 A6
J5 A16
J4 B6
J3 B16
J2 C6
J1 C16
H8 A7
H7 A17
H6 B7
H5 B17
H4 C7
H3 C17
H2 A8
H1 A18
G8 B8
G7 B18
G6 C8
G5 C18
G4 A9
G3 A19
G2 B9
G1 B19
F8 C9
F7 C19
E1 C20
D8 C10
D7 B20
D6 B10
D5 A20
D4 A10
PART OF P7
F6 A1
F5 A11
F4 B1
F3 B11
F2 C1
F1 C11
E8 A2
E7 A12
E6 B2
E5 B12
E4 B10
E3 A20
E2 A10
C5 C2
C4 C12
C3 A3
C2 A13
C1 B3
B8 B13
B7 C3
B6 C13
B5 A4
B4 A14
B3 B4
B2 B14
B1 C4
A6 C14
A5 A5
X6 A15
X5 B5
PART OF P4
PART OF P7
X4 B15
X3 C5
W8 C15
W7 A6
W6 A16
W5 B6
W4 B16
W3 C6
W2 C16
W1 A7
V8 A17
V7 B7
V6 B17
V5 C7
V4 C17
V3 A8
V2 A18
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U6 C18
U5 A9
U4 A19
U3 B9
U2 B19
U1 C9
T8 C19
D1 C20
C8 C10
C7 B20
PART OF P6
T7 A1
T6 A11
T5 B1
T4 B11
T3 C1
T2 C11
T1 A2
S8 A12
S7 B2
S6 B12
S5 C2
S4 C12
S3 A3
S2 A13
S1 B3
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R6 C13
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N7 B6
N6 B16
N5 C6
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N3 A7
N2 A17
N1 B7
M8 B17
M7 C7
M6 C17
M3 A8
M2 A18
M1 B8
L8 B18
PART OF P4
PART OF P6
L7 C8
L2 C18
L1 A9
K8 A19
K7 B9
K6 B19
K3 C9
K2 C19
D7 C20
D6 C10
D5 B20
D4 B10
D3 A20
D2 A10
PART OF P5
K1 A1
J8 A11
J7 B1
J6 B11
J5 C1
J4 C11
J3 A2
J2 A12
J1 B2
H8 B12
H7 C2
H6 C12
H5 A3
H4 A13
H3 B3
H2 B13
H1 C3
G8 C13
G7 A4
G6 A14
G5 B4
G4 B14
G3 C4
G2 C14
G1 A5
F8 A15
F7 B5
F6 B15
F5 C5
F4 C15
F3 A6
F2 A16
F1 B6
E8 B16
E7 C6
E6 C16
E5 A7
E4 C10
E3 B20
E2 B10
E1 A20
D8 A10
C6 C20
C5 A17
C4 B7
C3 B17
C2 C7
C1 C17
B8 A8
B7 A18
B6 B8
B5 B18
B4 C8
B3 C18
B2 A9
B1 A19
A6 B9
A5 B19
X6 C9
X5 C19

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FOR INFORMATION ONLY
CLASS B RELEASED TDRR NO. 03586 DATE 2/3/63

MASTER

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
1014156	
APPLICATION	

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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 8-21-62
CHECKED 13 SEP 62
APPROVAL C. Spalding JAK
APPROVAL 9/10/63
APPROVAL
NASA APPROVAL 10-2-63
MIT APPROVAL
MIT APPROVAL 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W4
COMPUTER TEST SET

CODE IDENT NO. ——
SIZE J
NASA DRAWING NO. 1014477
SCALE NONE
WT
SHEET 5 OF 7

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASE PER TDRR 3586		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	265	WHITE	22	16	945	
	944				266	
	267				943	
	942				268	
	269				941	
	940				270	
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	938				272	
	273				937	
	933				274	
	275				932	
	931				276	
	277				930	
	929				278	
	279				920	
	919				280	
	281				918	
	917				282	
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	911				284	
	285				910	
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	907				288	
	289				906	
	905				290	
	291				904	
	903				292	
	293				902	
	901				294	
	301				900	
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	893				308	
	309				892	
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	851				350	
	351				850	
	849				352	
	353				848	
	847				354	
	361	WHITE	22	16	846	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
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	843				364	
	365				842	
	841				366	
	367				840	
	839				368	
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	835				372	
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	827				380	
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	825				382	
	383				824	
	823				384	
	385				822	
	821				386	
	387				820	
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	391				816	
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	411				796	
	795				412	
	413				794	
	793				414	
	421				792	
	791				422	
	423				790	
	789				424	
	425				788	
	787				426	
	427				786	
	785				428	
	429				784	
	783				430	
	431				767	
	766				432	
	433				765	
	764				434	
	435				763	
	762				436	
	437				761	
	760				438	
	439				759	
	758				440	
	441				757	
	756				442	
	443				755	
	754				444	
	445				753	
	752				446	
	447				751	
	750				448	
	449				749	
	748				450	
	451				747	
	746	WHITE	22	16	452	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	453	WHITE	22	16	745	
	744				454	
	455				743	
	742				456	
	457				741	
	740				458	
	459				739	
	738				460	
	461				737	
	736				462	
	463				735	
	734				464	
	465				733	
	732				466	
	467				731	
	730				468	
	469				729	
	728				470	
	471				727	
	726				472	
	473				725	
	724				474	
	481				723	
	722				482	
	483				721	
	720				484	
	485				719	
	718				486	
	487				717	
	716				488	
	489				715	
	714				490	
	491				713	
	712				492	
	493				711	
	710				494	
	495				709	
	708				496	
	497				707	
	706				498	
	499				705	
	704				500	
	501				703	
	702				502	
	503				701	
	700				504	
	505				699	
	698				506	
	507				697	
	696				508	
	509				695	
	694				510	
	511				693	
	692				512	
	513				691	
	690				514	
	515				689	
	688				516	
	517				687	
	686				518	
	519				685	
	684				520	
	521				683	
	682				522	
	523				681	
	680				524	
	525				679	
	678				526	
	527				677	
	676				528	
	529				675	
	674				530	
	531				673	
	672				532	
	533				671	
	670				534	
	541				669	
	668				542	
	543				667	
	666				544	
	545				665	
	664				546	
	547				663	
	662				548	
	549	WHITE	22	16	661	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	660	WHITE	22	16	550	
	551				659	
	658				552	
	553				657	
	656				554	
	555				655	
	654				556	
	557				653	
	652				558	
	559				651	
	650				560	
	561				649	
	648				562	
	563				647	
	646				564	
	565				645	
	644				566	
	567				643	
	642				568	
	569				641	
	640				570	
	571				639	
	638				572	
	573				637	
	636				574	
	575				635	
	634				576	
	577				633	
	617				578	
	579				616	
	615				580	
	581				614	
	613				582	
	583				612	
	611				584	
	585				610	
	609				586	
	587				608	
	607				588	
	589				606	
	605				590	
	591				604	
	603				592	
	593				602	
	601	WHITE	22	16	594	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 10/5/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
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DO NOT SCALE THIS DRAWING
MATERIAL
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 8-15-63
CHECKED 13 SEP 63
APPROVAL
APPROVAL 9/20/63
APPROVAL
NASA APPROVAL 10-2-63
MIT APPROVAL
MIT APPROVAL 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W4
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014477
SCALE NONE
WT
SHEET 6 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASE PER TDRR 03586		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	55	BLACK	22	11	1070	
	1078				56	
	57				1077	
	1076				58	
	59				1075	
	1074				60	
	115				1073	
	1072				116	
	117				1071	
	1061				118	
	119				1082	
	1083				120	
	175				1084	
	1085				176	
	177				1086	
	913				178	
	179				914	
	915				180	
	235				916	
	921				236	
	237				922	
	923				238	
	239				924	
	925				240	
	295				926	
	927				296	
	297				928	
	934				298	
	299				935	
	936				300	
	355				768	
	769				356	
	357				770	
	771				358	
	359				772	
	773				360	
	415				774	
	775				416	
	417				776	
	777				418	
	419				778	
	779				420	
	475				780	
	781				476	
	477				782	
	619				478	
	479				620	
	621				450	
	535				622	
	623				536	
	537				624	
	625				538	
	539				626	
	627				540	
	595				628	
	629				596	
	597				630	
	631				598	
	599				632	
	618	BLACK	22	11	600	
	1	WHITE	22	16	1200	
	1199				2	
	3				1198	
	1197				4	
	5				1196	
	1195				6	
	7				1194	
	1193				8	
	9				1192	
	1191				10	
	11				1190	
	1189				12	
	13				1188	
	1187				14	
	15				1186	
	1185				16	
	17				1184	
	1183				18	
	19				1182	
	1181				20	
	21				1180	
	1179				22	
	23				1178	
	1177				24	
	25	WHITE	22	16	1176	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1175	WHITE	22	16	26	
	27				1174	
	1173				28	
	29				1172	
	1171				30	
	31				1170	
	1169				32	
	3				1168	
	1167				34	
	35				1166	
	1165				36	
	37				1164	
	1163				38	
	39				1162	
	1161				40	
	41				1160	
	1159				42	
	43				1158	
	1157				44	
	45				1156	
	1155				46	
	47				1154	
	1153				48	
	49				1152	
	1151				50	
	51				1150	
	1149				52	
	53				1148	
	1147				54	
	61				1146	
	1145				62	
	63				1144	
	1143				64	
	65				1142	
	1141				66	
	67				1140	
	1139				68	
	69				1138	
	1137				70	
	71				1136	
	1135				72	
	73				1134	
	1133				74	
	75				1132	
	1131				76	
	77				1130	
	1129				78	
	79				1128	
	1127				80	
	81				1126	
	1125				82	
	33				1124	
	1123				84	
	85				1122	
	1121				86	
	87				1120	
	1119				88	
	89				1118	
	1117				90	
	91				1116	
	1115				92	
	93				1114	
	1113				94	
	95				1112	
	1111				96	
	97				1110	
	1109				98	
	99				1108	
	1107				100	
	101				1106	
	1105				102	
	103				1104	
	1103				104	
	105				1102	
	1101				106	
	107				1100	
	1099				108	
	109				1098	
	1097				110	
	111				1096	
	1095				112	
	113				1094	
	1093				114	
	121				1092	
	1091	WHITE	22	16	122	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	123	WHITE	22	16	1090	
	1089				124	
	125				1088	
	1087				126	
	127				1080	
	1079				128	
	129				1069	
	1068				130	
	131				1067	
	1066				132	
	133				1065	
	1064				134	
	135				1063	
	1062				136	
	137				1061	
	1060				138	
	139				1059	
	1058				140	
	141				1057	
	1056				142	
	143				1055	
	1054				144	
	145				1053	
	1052				146	
	147				1051	
	1050				148	
	149				1049	
	1048				150	
	151				1047	
	1046				152	
	153				1045	
	1044				154	
	155				1043	
	1042				156	
	157				1041	
	1040				158	
	159				1039	
	1038				160	
	161				1037	
	1036				162	
	163				1035	
	1034				164	
	165				1033	
	1032				166	
	167				1031	
	1030				168	
	169				1029	
	1028				170	
	171				1027	
	1026				172	
	173				1025	
	1024				174	
	181				1023	
	1022				182	
	183				1021	
	1020				184	
	185				1019	
	1018				186	
	187				1017	
	1016				188	
	189				1015	
	1014				190	
	191				1013	
	1012				192	
	193				1011	
	1010				194	
	195				1009	
	1008				196	
	197				1007	
	1006				198	
	199				1005	
	1004				200	
	201				1003	
	1002				202	
	203				1001	
	1000				204	
	205				999	
	998				206	
	207				997	
	996				208	
	209				995	
	994				210	
	211				993	
	992				212	
	213	WHITE	22	16	991	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	990	WHITE	22	16	214	
	215				989	
	988				216	
	217				987	
	986				218	
	219				985	
	984				220	
	221				983	
	982				222	
	223				981	
	980				224	
	225				979	
	978				226	
	227				977	
	976				228	
	229				975	
	974				230	
	231				973	
	972				232	
	233				971	
	970				234	
	241				969	
	968				242	
	243				967	
	966				244	
	245				965	
	964				246	
	247				963	
	962				248	
	249				961	
	960				250	
	251				959	
	958				252	
	253				957	
	956				254	
	255				955	
	954				256	
	257				953	
	952				258	
	259				951	
	950				260	
	261				949	
	948				262	
	263				947	
	946	WHITE	22	16	264	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 8-15-63
CHECKED 13 Sep 63
APPROVAL Sperling
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

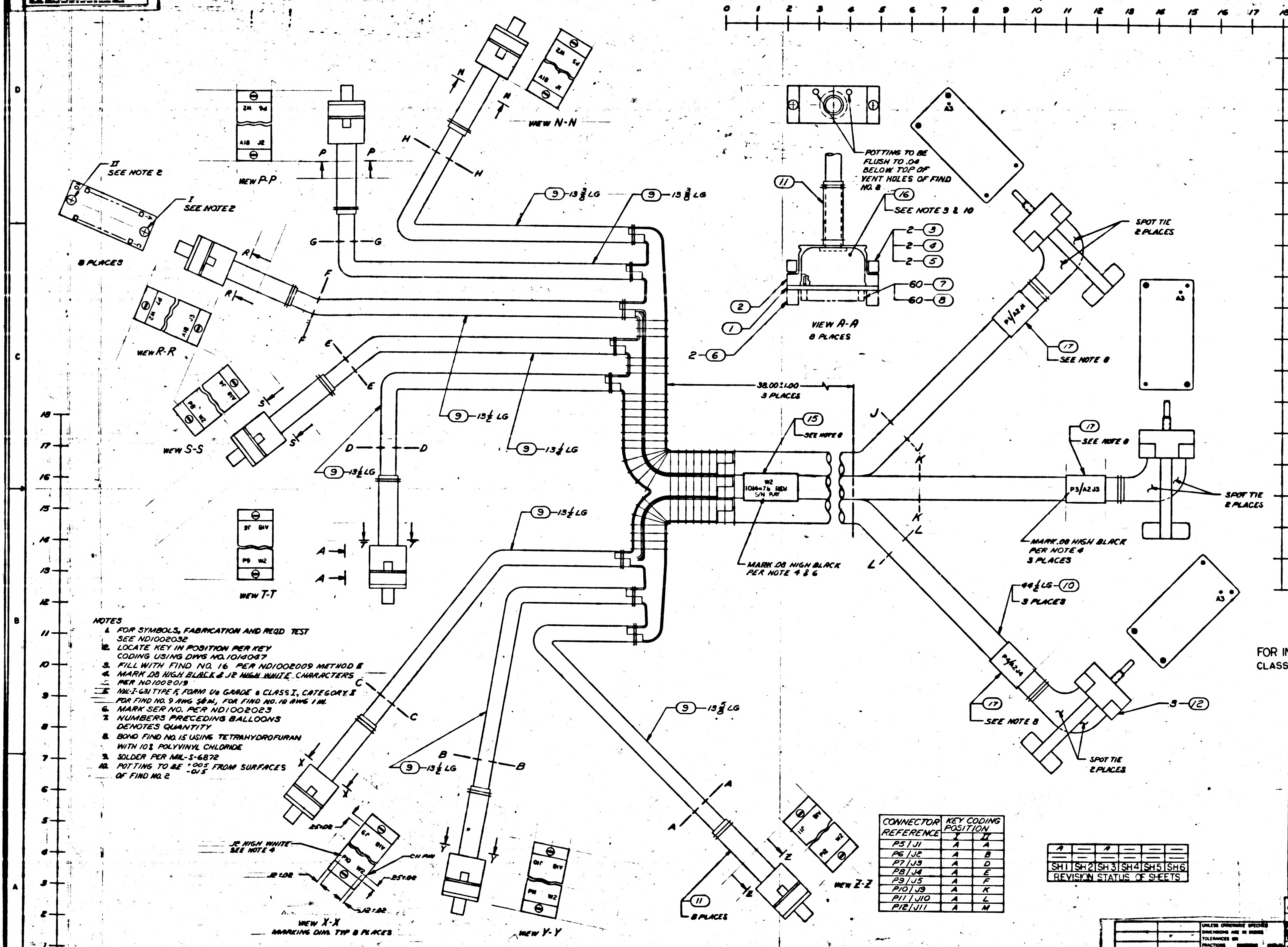
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W4
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014477
SCALE NONE
WT
SHEET 7 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04139		
A	CHANGED PER TDRR 06447 DR. W. B CHK. APPD.	64	


VIEW N-N
VIEW P-P
P6 W2
A18 J2
II SEE NOTE 2
I SEE NOTE 2
8 PLACES
VIEW R-R
VIEW S-S
VIEW T-T
P9 W2
A18 J5
9 — 13 3/8 LG
9 — 13 1/2 LG
9 — 13 5/8 LG
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO. 8
SEE NOTE 3 & 10
VIEW A-A
8 PLACES
2-6
38.00±1.00
3 PLACES
SEE NOTE 8
W2 1014478 REV S/N PWY
MARK .08 HIGH BLACK PER NOTE 4 & 6
MARK .08 HIGH BLACK PER NOTE 4
3 PLACES
SPOT TIE 2 PLACES
SEE NOTE 8
P3/A2J3
44 1/2 LG — 10
3 PLACES
3—12
J2 HIGH WHITE SEE NOTE 4
.25±.02
.12±.02
VIEW X-X
MARKING DIM. TYP 8 PLACES
VIEW Y-Y
VIEW Z-Z
11
8 PLACES

NOTES

1. FOR SYMBOLS, FABRICATION AND REQD TEST SEE ND1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 16 PER ND1002009 METHOD E
4. MARK .08 HIGH BLACK & .12 HIGH WHITE CHARACTERS PER ND1002019
5. MIL-I-631 TYPE F, FORM U GRADE A CLASS I, CATEGORY 2 FOR FIND NO. 9 AWG 5/8 IN., FOR FIND NO. 10 AWG 1 IN.
6. MARK SER NO. PER ND1002023
7. NUMBERS PRECEDING BALLOONS DENOTES QUANTITY
8. BOND FIND NO. 15 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
9. SOLDER PER MIL-S-6872
10. POTTING TO BE $^{+.005}_{-.015}$ FROM SURFACES OF FIND NO. 2

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04139 DATE 10/21/63

CONNECTOR REFERENCE	KEY CODING POSITION	
	I	II
P5/J1	A	A
P6/J2	A	B
P7/J3	A	D
P8/J4	A	E
P9/J5	A	F
P10/J9	A	K
P11/J10	A	L
P12/J11	A	M

A	—	A	—	—	—
—	—	—	—	—	—
SH1	SH2	SH3	SH4	SH5	SH6

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
3	1014472-7A	BAND MARKER, CABLE	17
AR	1006683	COMPOUND SILICONE RUBBER	16
1	1014472-7	BAND MARKER, CABLE	15
AR	MIL-W-16878/4 TYPE E 22 WHT	WIRE, ELEC	14
AR	MIL-W-16878/4 TYPE E 22 BLK	WIRE, ELEC	13
3	1006672	CONNECTOR, PLUG	12
8	MS39056-6	BUSHING	11
AR	SEE NOTE 5	SLEEVING	10
AR	SEE NOTE 5	SLEEVING	9
480	1010380	INSULATOR, BUSHING, FEMALE	8
480	1010379-1	CONTACT, ELECTRICAL, FEMALE	7
16	1014032	RECEPTACLE, INDEXING	6
16	1006997	WASHER, PLAIN FLAT	5
16	MS35337-79	WASHER, LOCK	4
16	1006998-1	SCREW, CAPTIVE	3
8	1014000-4	FRAME, MODULE	2
8	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014156	1023002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± 1/64
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-497
DRAWN DATE 19AUG63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

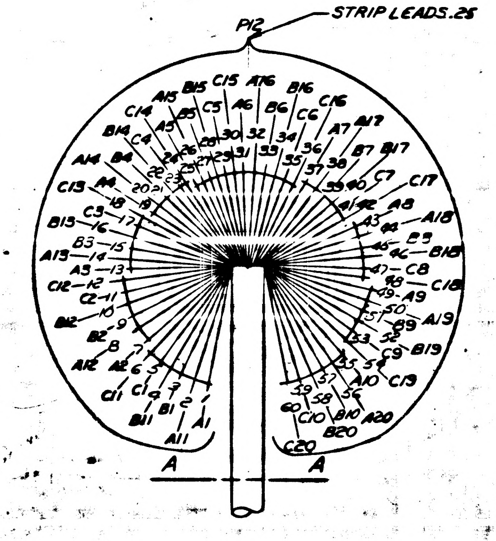
CABLE ASSEMBLY
W2
COMPUTER TEST SET

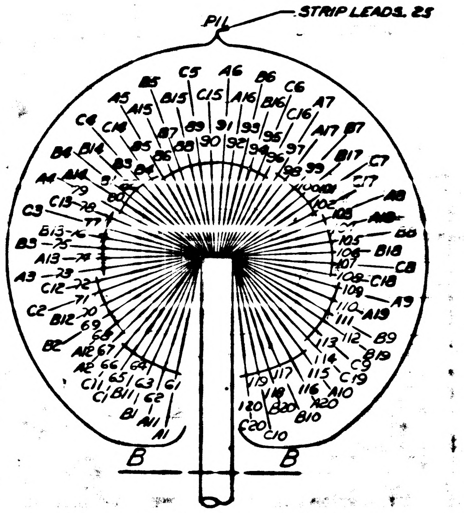
1014478

SCALE 1/1

1014478

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASED PER TDRR 04139	[illegible]	
A	CHANGED PER TDRR 06497 DR. W. Brown CHK JPF APPD	[illegible]	


P12
STRIP LEADS .25
A
A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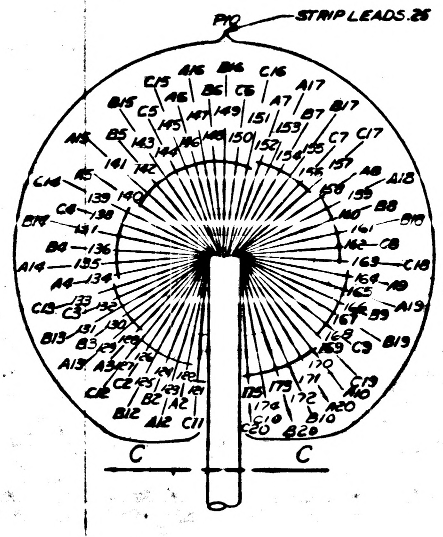
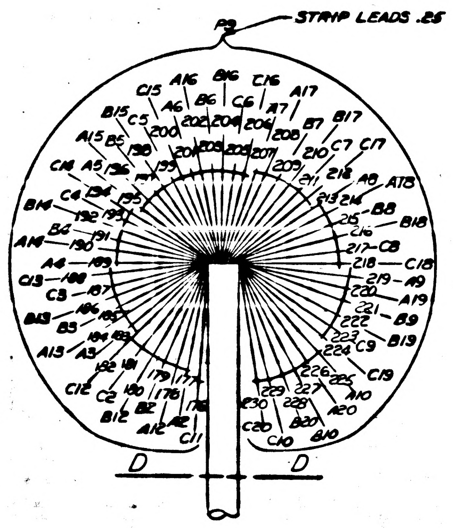
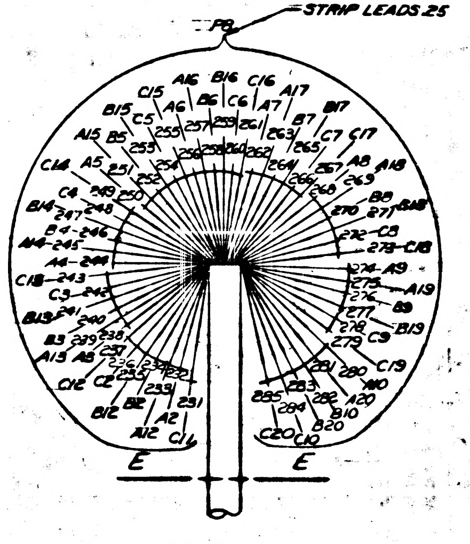
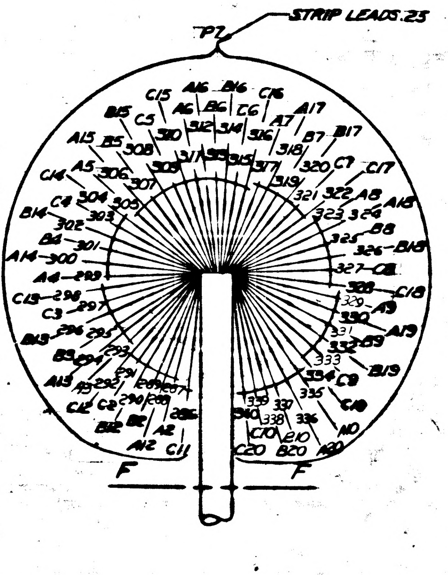
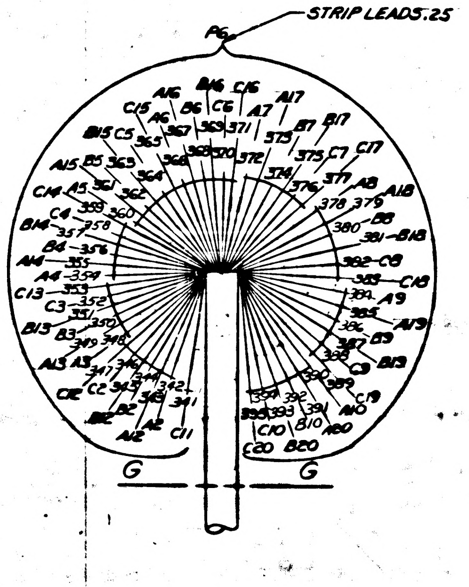
STRIP LEADS .25
B
B

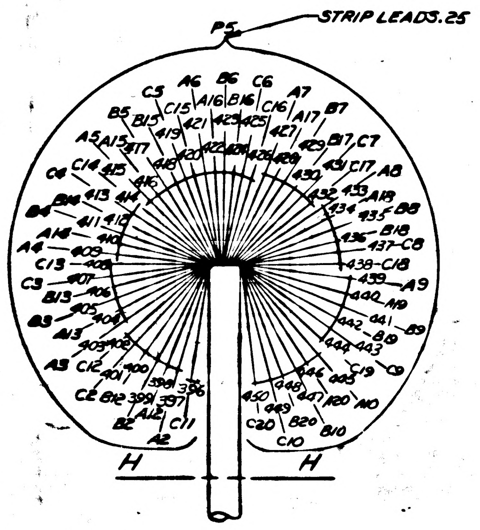

P10
STRIP LEADS .25
C
C


P9
STRIP LEADS .25
D
D


P8
STRIP LEADS .25
E
E


P7
STRIP LEADS .25
F
F


P6
STRIP LEADS .25
G
G


P5
STRIP LEADS .25
H
H

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04139 DATE 10-4-63

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 24JUL63
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W2
COMPUTER TEST SET

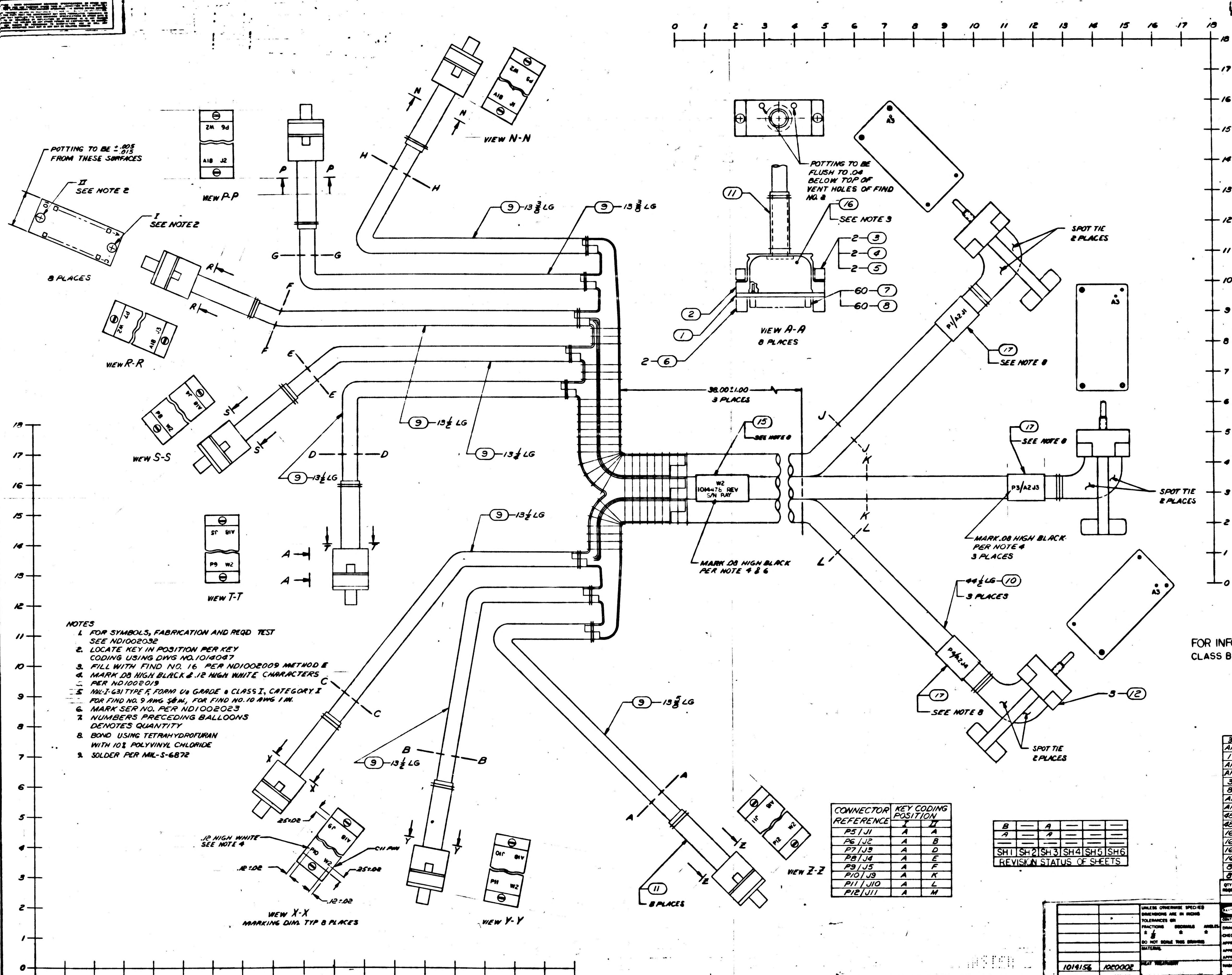
CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014478
SCALE 1/1
WT
SHEET 2 OF [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	ZONE NO

LIST OF MATERIALS

1014478

1014478


POTTING TO BE ±.005/.015 FROM THESE SURFACES
II SEE NOTE 2
I SEE NOTE 2
8 PLACES
VIEW P-P
VIEW N-N
VIEW R-R
VIEW S-S
VIEW T-T
VIEW X-X MARKING DIM. TYP 8 PLACES
VIEW Y-Y
VIEW Z-Z
VIEW A-A 8 PLACES
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES OF FIND NO. 8
SEE NOTE 3
9 - 13 3/8 LG
9 - 13 1/2 LG
9 - 13 5/8 LG
9 - 13 3/4 LG
10 - 44 1/2 LG 3 PLACES
38.00±1.00 3 PLACES
15 SEE NOTE 8
W2 1014478 REV S/N RAY
MARK .08 HIGH BLACK PER NOTE 4 & 6
MARK .08 HIGH BLACK PER NOTE 4 3 PLACES
17 SEE NOTE 8
SPOT TIE 2 PLACES
P1/A2J1
P3/A2J3
P4/A2J4
3 - 12
11 8 PLACES
.12 HIGH WHITE SEE NOTE 4
.25±.02
.12±.02
A3
A18 J2
P6 W2
P5 W2
A18 J1
P7 W2
A18 J3
P8 W2
A18 J4
A18 J5
P9 W2
P10 W2
A18 J9
P11 W2
A18 J10
P12 W2
A18 J11
2 - 3
2 - 4
2 - 5
60 - 7
60 - 8
2 - 6
1
2
11
16

NOTES

1. FOR SYMBOLS, FABRICATION AND REQD TEST SEE ND1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 16 PER ND1002009 METHOD E
4. MARK .08 HIGH BLACK & .12 HIGH WHITE CHARACTERS PER ND1002019
5. MIL-I-631 TYPE F, FORM U, GRADE A CLASS I, CATEGORY I FOR FIND NO. 9 AWG 5/8 IN., FOR FIND NO. 10 AWG 1 IN.
6. MARK SER NO. PER ND1002023
7. NUMBERS PRECEDING BALLOONS DENOTES QUANTITY
8. BOND USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
9. SOLDER PER MIL-S-6872

CONNECTOR REFERENCE	KEY CODING POSITION	
	I	II
P5/J1	A	A
P6/J2	A	B
P7/J3	A	D
P8/J4	A	E
P9/J5	A	F
P10/J9	A	K
P11/J10	A	L
P12/J11	A	M

B	—	A	—	—	—
A	—	A	—	—	—
—	—	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5	SH 6

REVISION STATUS OF SHEETS

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04139		
A	CHANGED PER TDRR 06447 DR W. Bonn CHK. [illegible] APPD [illegible]	9 MAR 64	KCB
B	CHANGED PER TDRR 11306 DR C Hayward CHK Q.G.C. APP [illegible]	7 AUG 64	[illegible]

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04139 DATE 10/24/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
3	1014472-7A	BAND MARKER, CABLE	17
AR	1006683	COMPOUND SILICONE RUBBER	16
1	1014472-7	BAND MARKER, CABLE	15
AR	MIL-W-16878/4 TYPE E 22 WHT	WIRE, ELEC	14
AR	MIL-W-16878/4 TYPE E 22 BLK	WIRE, ELEC	13
3	1006672	CONNECTOR, PLUG	12
8	MS39056-6	BUSHING	11
AR	SEE NOTE 5	SLEEVING	10
AR	SEE NOTE 5	SLEEVING	9
480	1010380	INSULATOR, BUSHING, FEMALE	8
480	1010379-1	CONTACT, ELECTRICAL, FEMALE	7
16	1014032	RECEPTACLE, INDEXING	6
16	1006997	WASHER, PLAIN FLAT	5
16	MS35337-79	WASHER, LOCK	4
16	1006998-1	SCREW, CAPTIVE	3
8	1014000-4	FRAME, MODULE	2
8	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN [illegible] DATE 15 AUG 63
CHECKED A. Cappuccio 27 Sept 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

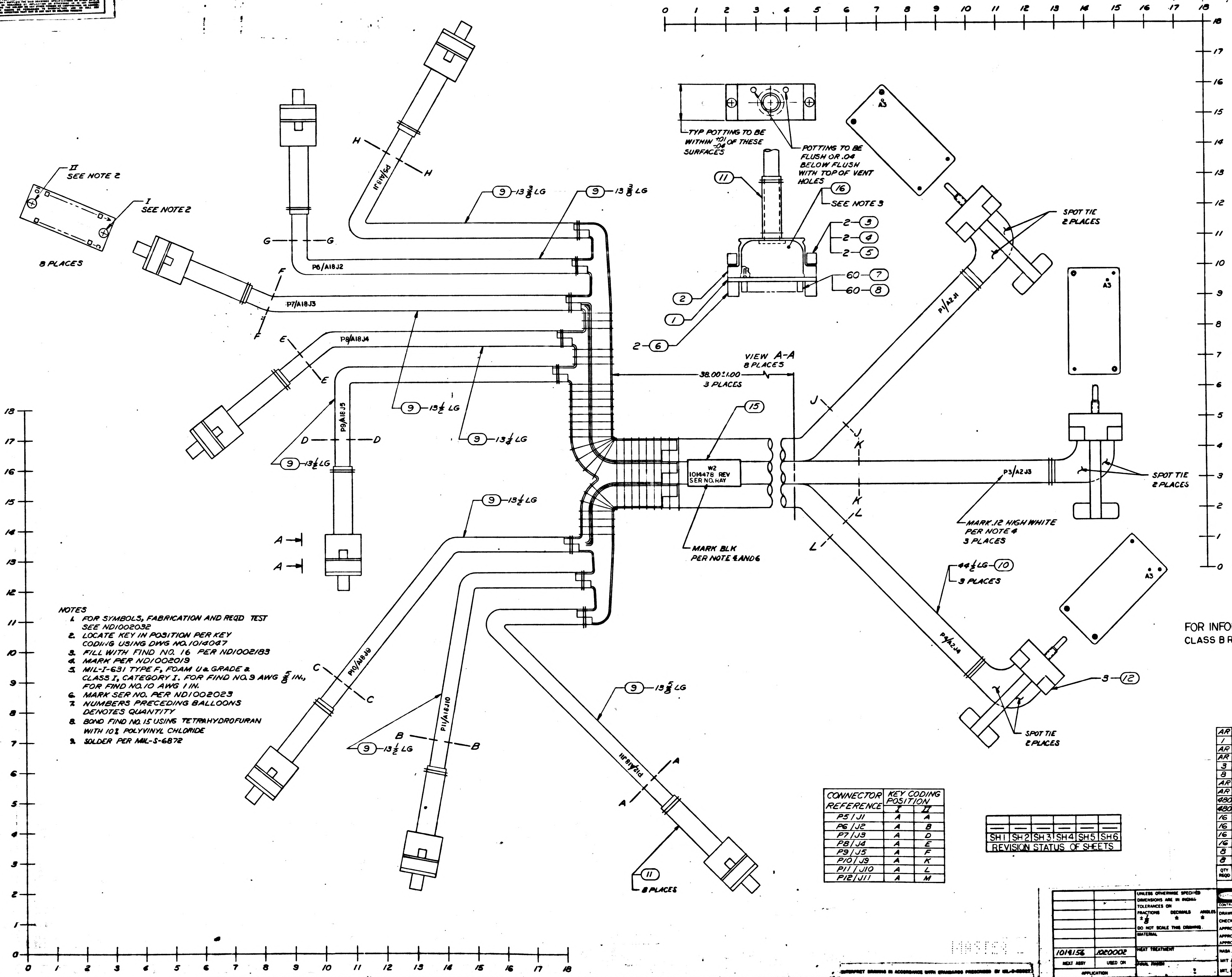
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W2
COMPUTER TEST SET

SIZE J
NASA DRAWING NO 1014478
SCALE 1/1 SHEET 1 OF 6

1014478

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04139	[illegible]	


II SEE NOTE 2
I SEE NOTE 2
8 PLACES
9 — 13 3/8 LG
9 — 13 3/8 LG
H — H
P5/A18J1
G — G
P6/A18J2
F — F
P7/A18J3
E — E
P8/A18J4
9 — 13 1/2 LG
9 — 13 1/2 LG
D — D
P9/A18J5
9 — 13 1/2 LG
A — A
9 — 13 1/2 LG
C — C
P10/A18J9
B — B
P11/A18J10
9 — 13 1/2 LG
9 — 13 5/8 LG
P12/A18J11
11 — 8 PLACES
TYP POTTING TO BE WITHIN +.01 -.04 OF THESE SURFACES
POTTING TO BE FLUSH OR .04 BELOW FLUSH WITH TOP OF VENT HOLES
11
16 SEE NOTE 3
2 — 3
2 — 4
2 — 5
60 — 7
60 — 8
2
1
2 — 6
VIEW A-A 8 PLACES
38.00 ± 1.00 3 PLACES
15
W2 1014478 REV SER NO. HAY
MARK BLK PER NOTE 4 AND 6
A3
SPOT TIE 2 PLACES
P1/A2J1
J — J
K — K
L — L
P3/A2J3
SPOT TIE 2 PLACES
MARK .12 HIGH WHITE PER NOTE 4 3 PLACES
44 1/2 LG — 10 — 3 PLACES
P2/A2J2
3 — 12
SPOT TIE 2 PLACES
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TEST SEE ND1002032
2. LOCATE KEY IN POSITION PER KEY CODING USING DWG NO. 1014047
3. FILL WITH FIND NO. 16 PER ND1002183
4. MARK PER ND1002019
5. MIL-I-631 TYPE F, FOAM U & GRADE A CLASS I, CATEGORY I. FOR FIND NO. 9 AWG 5/8 IN., FOR FIND NO. 10 AWG 1 IN.
6. MARK SER NO. PER ND1002023
7. NUMBERS PRECEDING BALLOONS DENOTES QUANTITY
8. BOND FIND NO. 15 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
9. SOLDER PER MIL-S-6872

CONNECTOR REFERENCE	KEY CODING POSITION	
	I	II
P5/J1	A	A
P6/J2	A	B
P7/J3	A	D
P8/J4	A	E
P9/J5	A	F
P10/J9	A	K
P11/J10	A	L
P12/J11	A	M

—	—	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5	SH 6

REVISION STATUS OF SHEETS

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04139 DATE 10/24/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	1006904	EPOXY RESIN	16
1	1014472-6	MARKER, BAND	15
AR	ND1002181 TYPE I CL I	WIRE, ELEC AWG 22, WHT	14
AR	ND1002181 TYPE I CL I	WIRE, ELEC AWG 22 BLK	13
3	1006672	CONNECTOR, PLUG	12
8	MS39056-6	BUSHING	11
AR	SEE NOTE 5	SLEEVING	10
AR	SEE NOTE 5	SLEEVING	9
480	1010380	INSULATOR, BUSHING, FEMALE	8
480	1010379-1	CONTACT, ELECTRICAL, FEMALE	7
16	1014032	RECEPTACLE, INDEXING	6
16	1006997	WASHER, PLAIN FLAT	5
16	MS35337-79	WASHER, LOCK	4
16	1006998-1	SCREW, CAPTIVE	3
8	1014000-4	FRAME, MODULE	2
8	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/8 DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN [illegible] DATE 19AUG63
CHECKED A. Cagg[illegible] 27 Sep 63
APPROVAL C. [illegible] PK
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

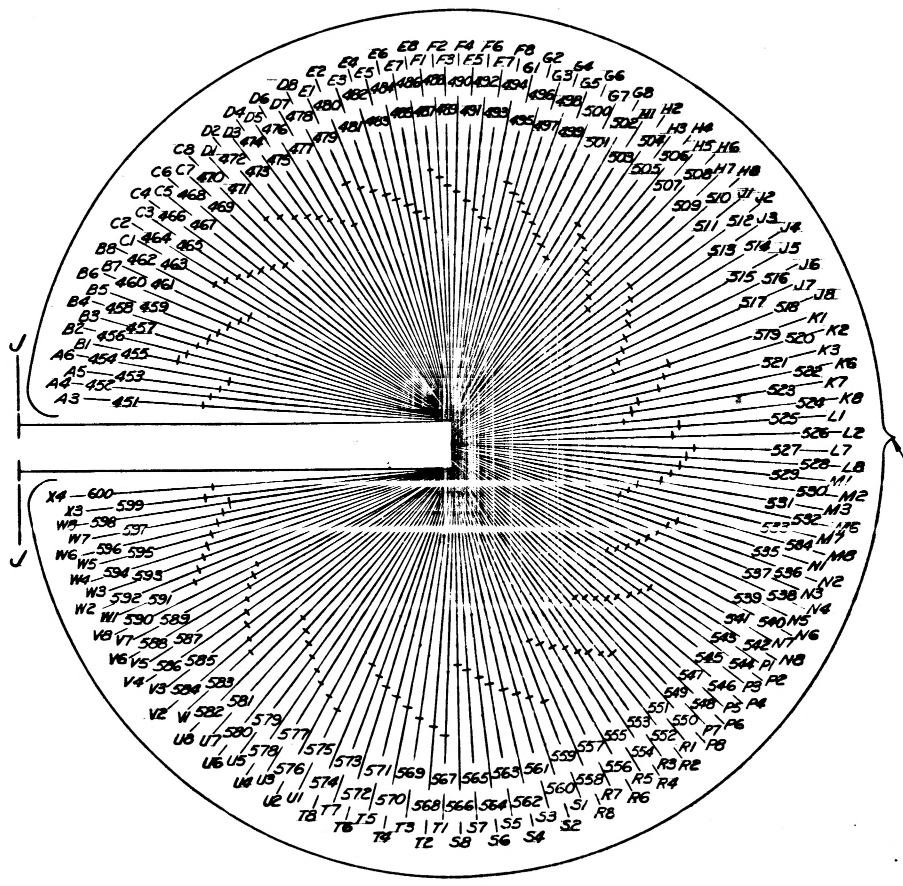
CABLE ASSEMBLY
W2
COMPUTER TEST SET

CODE IDENT NO. —— SIZE J NASA DRAWING NO 1014478
SCALE 1/1 WT SHEET 1 OF 6

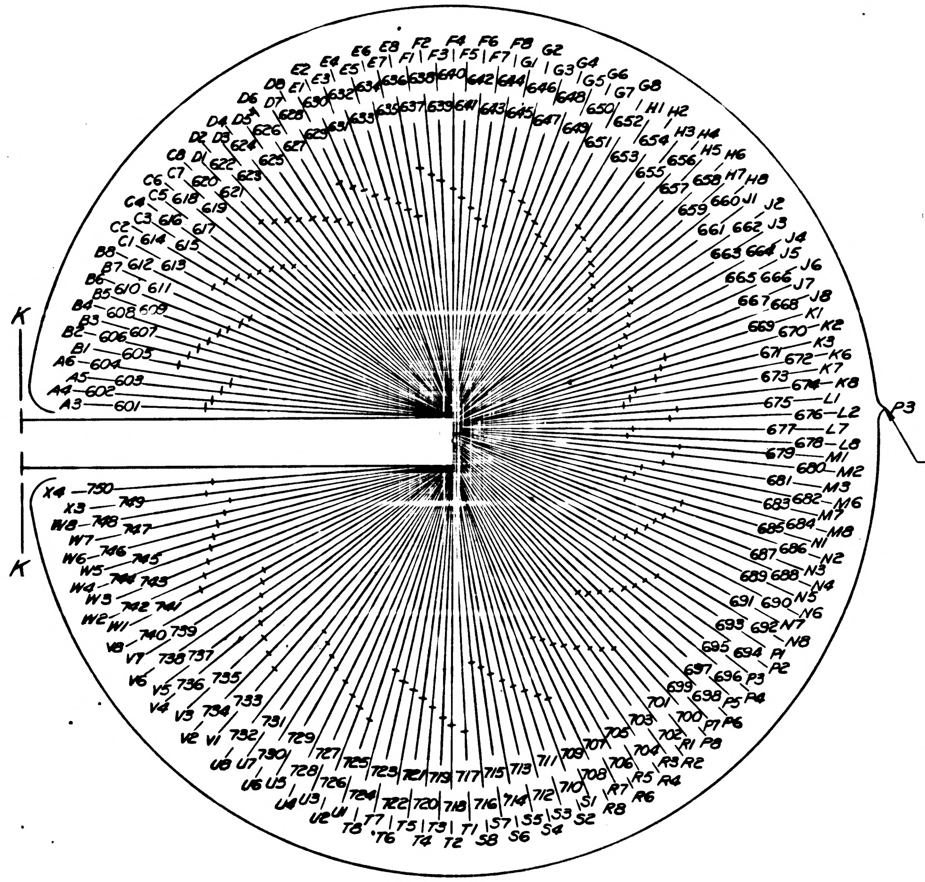
1014478

INCHES
PHOTOGRAPHIC SCALE ONLY

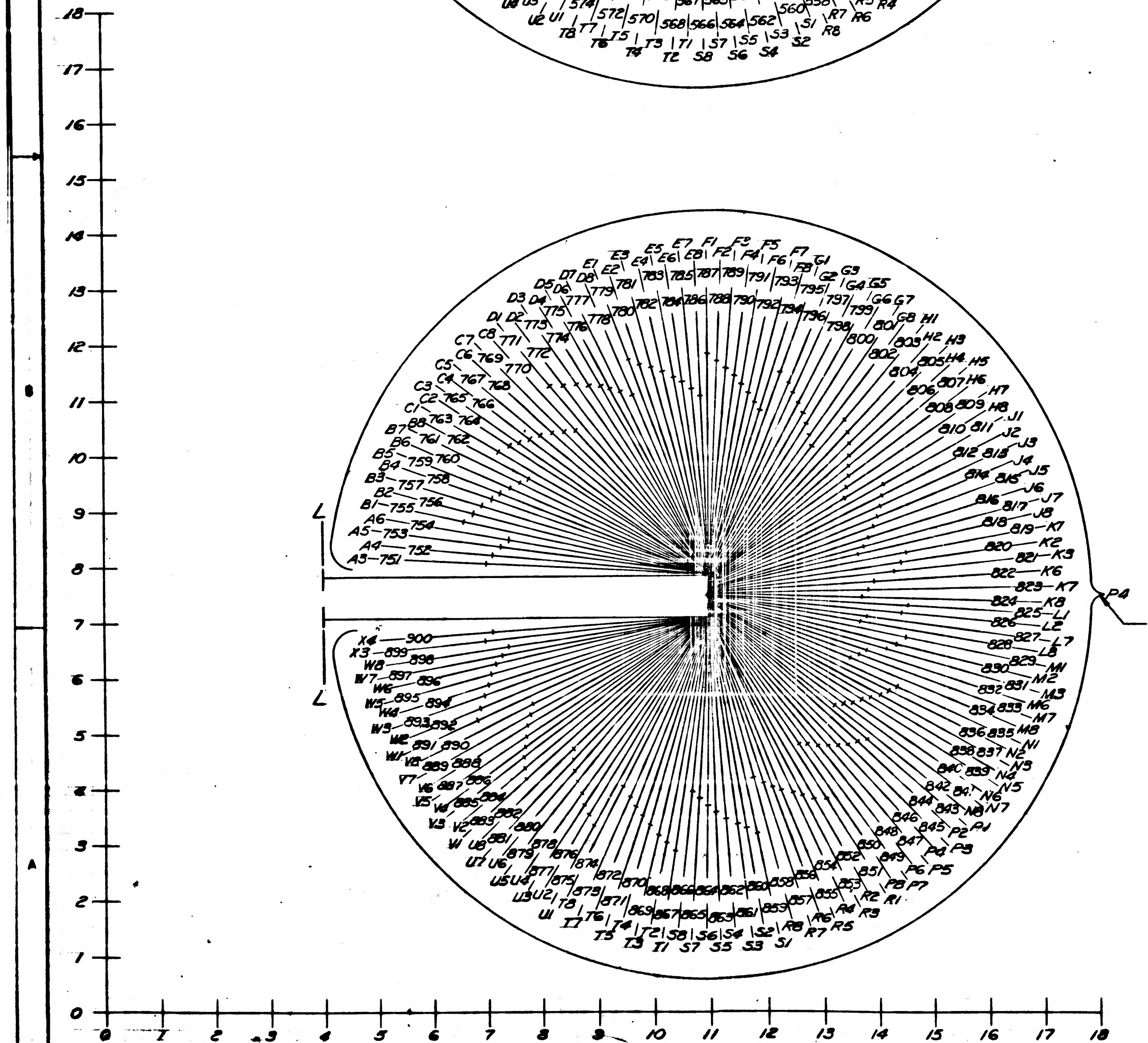
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04,39	[illegible]	



STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 12



STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 12



STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 12

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04139 DATE 10-31-63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1019156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/8 DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

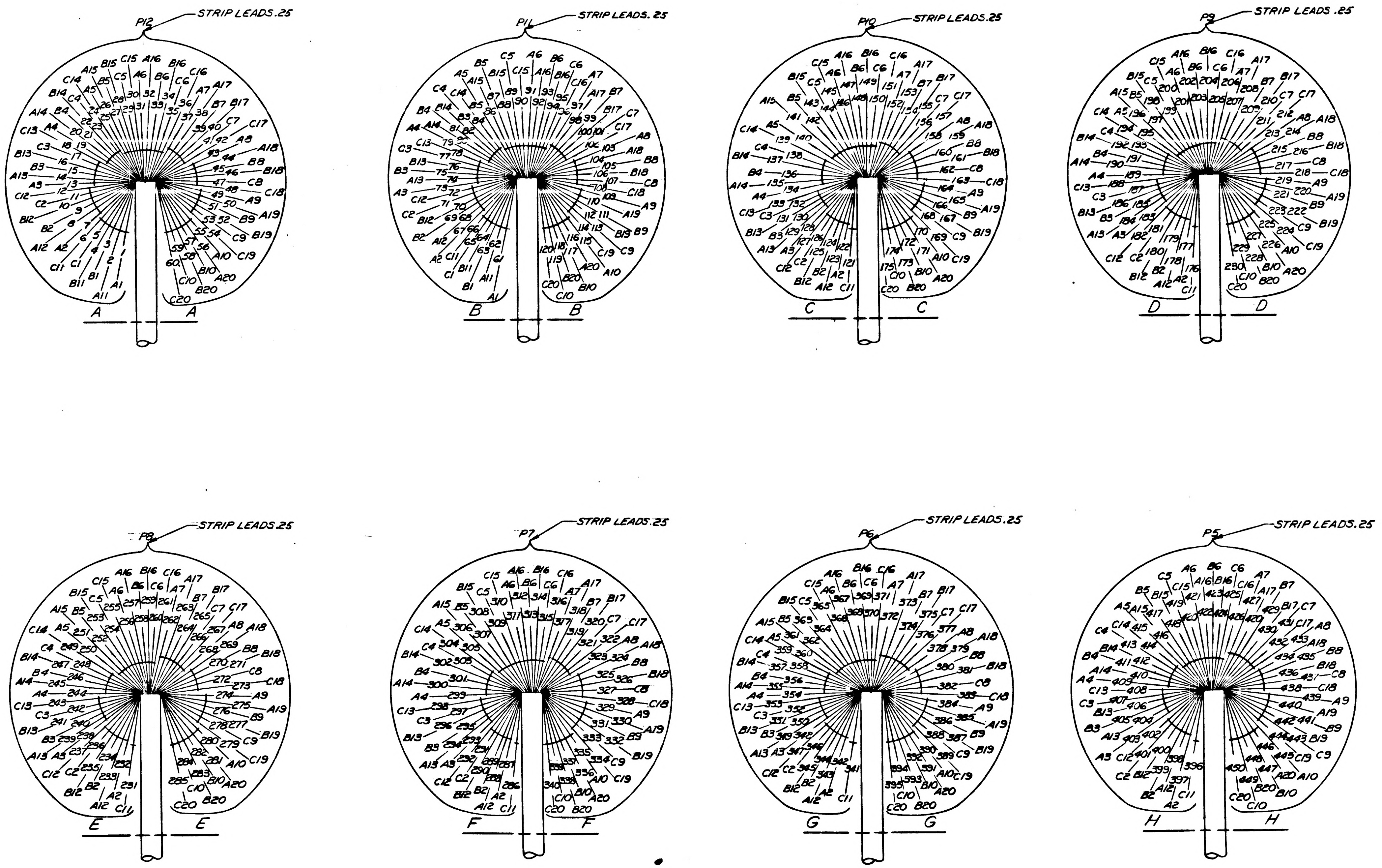
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN Ed Williams DATE 21 AUG 63
CHECKED 22 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 10/31/63
MIT APPROVAL
MIT APPROVAL 10/30/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W2
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014478
SCALE 1/1
WT
SHEET 2 OF 6

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 04.29		



P12
STRIP LEADS .25
A
P11
STRIP LEADS .25
B
P10
STRIP LEADS .25
C
P9
STRIP LEADS .25
D
P8
STRIP LEADS .25
E
P7
STRIP LEADS .25
F
P6
STRIP LEADS .25
G
P5
STRIP LEADS .25
H

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04.29 DATE 0/24/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 24AUG62
CHECKED [illegible] 22 Sep 62
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W2
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014478
SCALE 1/1
WT
SHEET 3 OF 6

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	55	BLK	22	13	898	
	897				56	
	57				896	
	895				58	
	59				894	
	893				60	
	115				892	
	891				116	
	117				890	
	870				118	
	119				830	
	850				120	
	170				810	
	770				171	
	172				790	
	748				173	
	174				747	
	746				175	
	225				745	
	744				226	
	227				743	
	742				228	
	229				741	
	740				230	
	280				720	
	700				281	
	282				680	
	660				283	
	284				640	
	620				285	
	335				591	
	522				336	
	337				521	
	520				338	
	339				519	
	518				340	
	390				517	
	516				391	
	392				515	
	514				393	
	394				513	
	512				395	
	445				511	
	510				446	
	447				509	
	508				448	
	449				507	
	503	BLK	22	13	450	
	1	WHT	22	14	900	
	899				2	
	3				889	
	888				4	
	5				887	
	886				6	
	7				885	
	884				8	
	9				883	
	882				10	
	11				881	
	880				12	
	13				879	
	878				14	
	15				877	
	876				16	
	17				875	
	874				18	
	19				873	
	872				20	
	21				871	
	869				22	
	23				868	
	867				24	
	25				866	
	865				26	
	27				864	
	863				28	
	29				862	
	861				30	
	31				860	
	858	WHT	22	14	32	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	33	WHT	22	14	857	
	856				34	
	35				855	
	854				36	
	37				853	
	852				38	
	39				851	
	849				40	
	41				848	
	847				42	
	43				846	
	845				44	
	45				844	
	843				46	
	47				842	
	841				48	
	49				840	
	839				50	
	51				838	
	837				52	
	53				836	
	835				54	
	61				834	
	833				62	
	63				832	
	831				64	
	65				859	
	829				66	
	67				828	
	827				68	
	69				826	
	825				70	
	71				824	
	823				72	
	73				822	
	821				74	
	75				820	
	819				76	
	77				818	
	817				78	
	79				816	
	815				80	
	81				814	
	813				82	
	83				812	
	811				84	
	85				809	
	808				86	
	87				807	
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	802				92	
	93				801	
	800				94	
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	793				100	
	101				792	
	791				102	
	103				789	
	788				104	
	105				787	
	786				106	
	107				785	
	784				108	
	109				783	
	782				110	
	111				781	
	780				112	
	113				779	
	778				114	
	121				777	
	776				122	
	123				775	
	774	WHT	22	14	124	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	125	WHT	22	14	773	
	772				126	
	127				771	
	799				128	
	129				769	
	768				130	
	131				767	
	766				132	
	133				765	
	764				134	
	135				763	
	762				136	
	137				761	
	760				138	
	139				759	
	758				140	
	141				757	
	756				142	
	143				755	
	754				144	
	145				753	
	752				146	
	147				751	
	750				148	
	149				749	
	739				150	
	151				738	
	737				152	
	153				736	
	735				154	
	155				734	
	733				156	
	157				732	
	731				158	
	159				730	
	729				160	
	161				728	
	727				162	
	163				726	
	725				164	
	165				724	
	723				166	
	167				722	
	721				168	
	169				719	
	718				176	
	177				717	
	716				178	
	179				715	
	714				180	
	181				713	
	712				182	
	183				711	
	710				184	
	185				709	
	708				186	
	187				707	
	706				188	
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	704				190	
	191				703	
	702				192	
	193				701	
	699				194	
	195				698	
	697				196	
	197				696	
	695				198	
	199				694	
	693				200	
	201				692	
	691				202	
	203				690	
	689				204	
	205				688	
	687				206	
	207				686	
	685				208	
	209				684	
	683	WHT	22	14	210	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

NEXT ASSY	USED ON
1014156	1020002
APPLICATION	

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED 27 Jun 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W2
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014478
SCALE NONE
WT
SHEET 4 OF 6

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	211	WHT	22	14	682	
	681				212	
	213				679	
	678				214	
	215				677	
	676				216	
	217				675	
	674				218	
	219				673	
	672				220	
	221				671	
	670				222	
	223				669	
	668				224	
	231				667	
	666				232	
	233				665	
	664				234	
	235				663	
	662				236	
	237				661	
	659				238	
	239				658	
	657				240	
	241				656	
	655				242	
	243				654	
	653				244	
	245				652	
	651				246	
	247				650	
	649				248	
	249				648	
	647				250	
	251				646	
	645				252	
	253				644	
	643				254	
	255				642	
	641				256	
	257				639	
	638				258	
	259				637	
	636				260	
	261				635	
	634				262	
	263				633	
	632				264	
	265				631	
	630				266	
	267				629	
	628				268	
	269				627	
	626				270	
	271				625	
	624				272	
	273				623	
	622				274	
	275				621	
	619				276	
	277				618	
	617				278	
	279				616	
	615				286	
	287				614	
	613				288	
	289				612	
	611				290	
	291				610	
	609				292	
	293				608	
	607				294	
	295				606	
	605				296	
	297				604	
	603				298	
	299				602	
	601				300	
	301				600	
	599	WHT	22	14	302	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	303	WHT	22	14	598	
	597				304	
	305				596	
	595				306	
	307				594	
	593				308	
	309				592	
	590				310	
	311				589	
	588				312	
	313				587	
	586				314	
	315				585	
	584				316	
	317				583	
	582				318	
	319				581	
	580				320	
	321				579	
	578				322	
	323				577	
	576				324	
	325				575	
	574				326	
	327				573	
	572				328	
	329				571	
	570				330	
	331				569	
	568				332	
	333				567	
	566				334	
	341				565	
	564				342	
	343				563	
	562				344	
	345				561	
	560				346	
	347				559	
	558				348	
	349				557	
	556				350	
	351				555	
	554				352	
	353				553	
	552				354	
	355				551	
	550				356	
	357				549	
	548				358	
	359				547	
	546				360	
	361				545	
	544				362	
	363				543	
	542				364	
	365				541	
	540				366	
	367				539	
	538				368	
	369				537	
	536				370	
	371				535	
	534				372	
	373				533	
	532				374	
	375				531	
	530				376	
	377				529	
	528				378	
	379				527	
	526				380	
	381				525	
	524				382	
	383				523	
	506				384	
	385				505	
	504				386	
	387				502	
	501	WHT	22	14	388	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	389	WHT	22	14	500	
	499				396	
	397				498	
	497				398	
	399				496	
	495				400	
	401				494	
	493				402	
	403				492	
	491				404	
	405				490	
	489				406	
	407				488	
	487				408	
	409				486	
	485				410	
	411				484	
	483				412	
	413				482	
	481				414	
	415				480	
	479				416	
	417				478	
	477				418	
	419				476	
	475				420	
	421				474	
	473				422	
	423				472	
	471				424	
	425				470	
	469				426	
	427				468	
	467				428	
	429				466	
	465				430	
	431				464	
	463				432	
	433				462	
	461				434	
	435				460	
	459				436	
	437				458	
	457				438	
	439				456	
	455				440	
	441				454	
	453				442	
	443				452	
	451	WHT	22	14	444	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 19AUG63
CHECKED 22 Sep 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

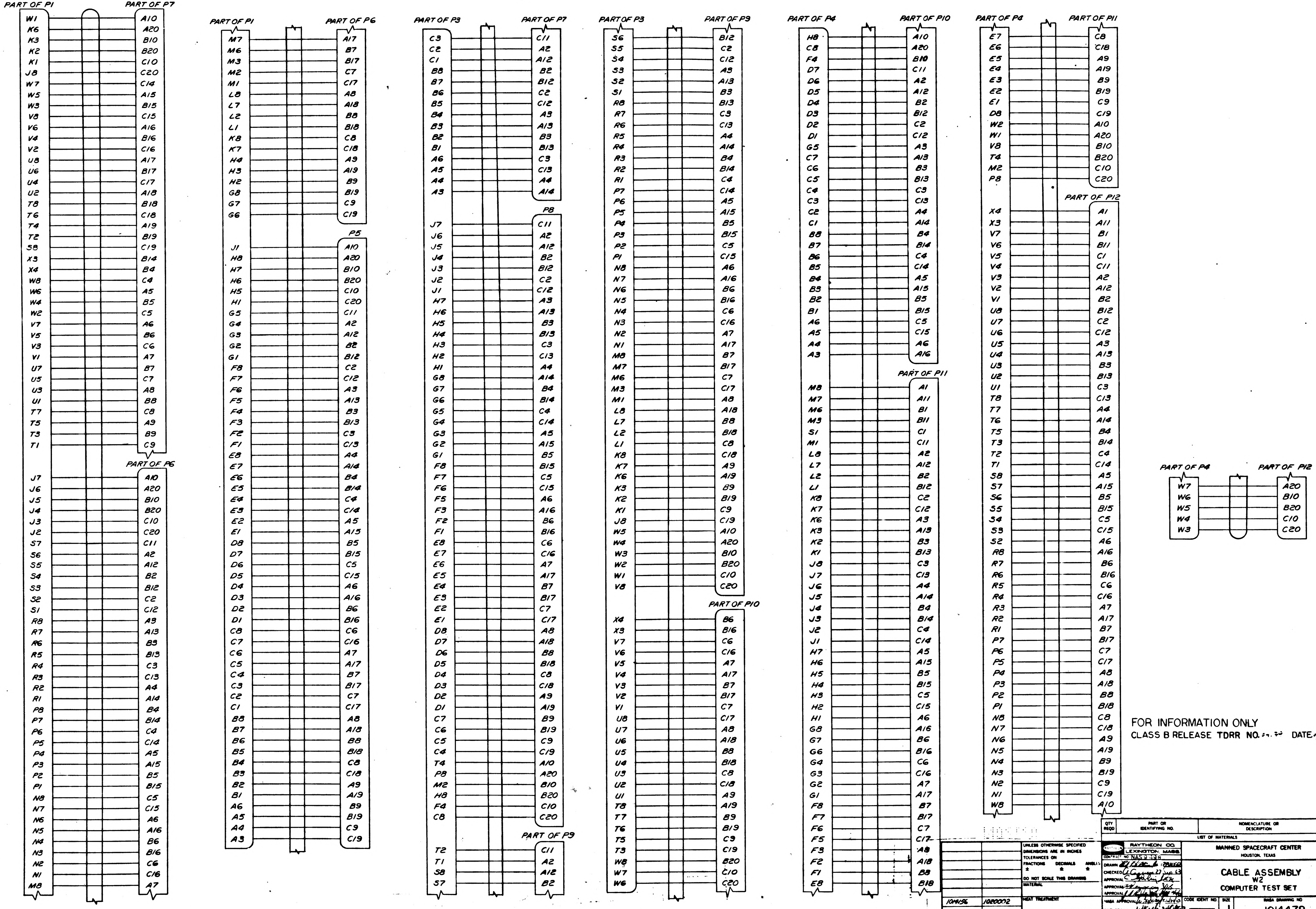
CABLE ASSEMBLY
W2
COMPUTEF TEST SET

CODE IDENT NO. SIZE J NASA DRAWING NO. 1014478
SCALE NONE WT SHEET 5 OF 6

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014478

INCHES
PHOTOGRAPHIC SCALE ONLY



PART OF P1	PART OF P7
W1	A10
K6	A20
K3	B10
K2	B20
K1	C10
J8	C20
W7	C14
W5	A15
W3	B15
V8	C15
V6	A16
V4	B16
V2	C16
U8	A17
U6	B17
U4	C17
U2	A18
T8	B18
T6	C18
T4	A19
T2	B19
S8	C19
X3	B14
X4	B4
W8	C4
W6	A5
W4	B5
W2	C5
V7	A6
V5	B6
V3	C6
V1	A7
U7	B7
U5	C7
U3	A8
U1	B8
T7	C8
T5	A9
T3	B9
T1	C9

PART OF P1	PART OF P6
J7	A10
J6	A20
J5	B10
J4	B20
J3	C10
J2	C20
S7	C11
S6	A2
S5	A12
S4	B2
S3	B12
S2	C2
S1	C12
R8	A3
R7	A13
R6	B3
R5	B13
R4	C3
R3	C13
R2	A4
R1	A14
P8	B4
P7	B14
P6	C4
P5	C14
P4	A5
P3	A15
P2	B5
P1	B15
N8	C5
N7	C15
N6	A6
N5	A16
N4	B6
N3	B16
N2	C6
N1	C16
M8	A7

PART OF P1	PART OF P6
M7	A17
M6	B7
M3	B17
M2	C7
M1	C17
L8	A8
L7	A18
L2	B8
L1	B18
K8	C8
K7	C18
H4	A9
H3	A19
H2	B9
G8	B19
G7	C9
G6	C19

PART OF P1	P5
J1	A10
H8	A20
H7	B10
H6	B20
H5	C10
H1	C20
G5	C11
G4	A2
G3	A12
G2	B2
G1	B12
F8	C2
F7	C12
F6	A3
F5	A13
F4	B3
F3	B13
F2	C3
F1	C13
E8	A4
E7	A14
E6	B4
E5	B14
E4	C4
E3	C14
E2	A5
E1	A15
D8	B5
D7	B15
D6	C5
D5	C15
D4	A6
D3	A16
D2	B6
D1	B16
C8	C6
C7	C16
C6	A7
C5	A17
C4	B7
C3	B17
C2	C7
C1	C17
B8	A8
B7	A18
B6	B8
B5	B18
B4	C8
B3	C18
B2	A9
B1	A19
A6	B9
A5	B19
A4	C9
A3	C19

PART OF P3	PART OF P7
C3	C11
C2	A2
C1	A12
B8	B2
B7	B12
B6	C2
B5	C12
B4	A3
B3	A13
B2	B3
B1	B13
A6	C3
A5	C13
A4	A4
A3	A14

PART OF P3	P8
J7	C11
J6	A2
J5	A12
J4	B2
J3	B12
J2	C2
J1	C12
H7	A3
H6	A13
H5	B3
H4	B13
H3	C3
H2	C13
H1	A4
G8	A14
G7	B4
G6	B14
G5	C4
G4	C14
G3	A5
G2	A15
G1	B5
F8	B15
F7	C5
F6	C15
F5	A6
F3	A16
F2	B6
F1	B16
E8	C6
E7	C16
E6	A7
E5	A17
E4	B7
E3	B17
E2	C7
E1	C17
D8	A8
D7	A18
D6	B8
D5	B18
D4	C8
D3	C18
D2	A9
D1	A19
C7	B9
C6	B19
C5	C9
C4	C19
T4	A10
P8	A20
M2	B10
H8	B20
F4	C10
C8	C20

PART OF P3	PART OF P9
T2	C11
T1	A2
S8	A12
S7	B2

PART OF P3	PART OF P9
S6	B12
S5	C2
S4	C12
S3	A3
S2	A13
S1	B3
R8	B13
R7	C3
R6	C13
R5	A4
R4	A14
R3	B4
R2	B14
R1	C4
P7	C14
P6	A5
P5	A15
P4	B5
P3	B15
P2	C5
P1	C15
N8	A6
N7	A16
N6	B6
N5	B16
N4	C6
N3	C16
N2	A7
N1	A17
M8	B7
M7	B17
M6	C7
M3	C17
M1	A8
L8	A18
L7	B8
L2	B18
L1	C8
K8	C18
K7	A9
K6	A19
K3	B9
K2	B19
K1	C9
J8	C19
W5	A10
W4	A20
W3	B10
W2	B20
W1	C10
V8	C20

PART OF P3	PART OF P10
X4	B6
X3	B16
V7	C6
V6	C16
V5	A7
V4	A17
V3	B7
V2	B17
V1	C7
U8	C17
U7	A8
U6	A18
U5	B8
U4	B18
U3	C8
U2	C18
U1	A9
T8	A19
T7	B9
T6	B19
T5	C9
T3	C19
W8	B20
W7	C10
W6	C20

PART OF P4	PART OF P10
H8	A10
C8	A20
F4	B10
D7	C11
D6	A2
D5	A12
D4	B2
D3	B12
D2	C2
D1	C12
G5	A3
C7	A13
C6	B3
C5	B13
C4	C3
C3	C13
C2	A4
C1	A14
B8	B4
B7	B14
B6	C4
B5	C14
B4	A5
B3	A15
B2	B5
B1	B15
A6	C5
A5	C15
A4	A6
A3	A16

PART OF P4	PART OF P11
M8	A1
M7	A11
M6	B1
M3	B11
S1	C1
M1	C11
L8	A2
L7	A12
L2	B2
L1	B12
K8	C2
K7	C12
K6	A3
K3	A13
K2	B3
K1	B13
J8	C3
J7	C13
J6	A4
J5	A14
J4	B4
J3	B14
J2	C4
J1	C14
H7	A5
H6	A15
H5	B5
H4	B15
H3	C5
H2	C15
H1	A6
G8	A16
G7	B6
G6	B16
G4	C6
G3	C16
G2	A7
G1	A17
F8	B7
F7	B17
F6	C7
F5	C17
F3	A8
F2	A18
F1	B8
E8	B18

PART OF P4	PART OF P11
E7	C8
E6	C18
E5	A9
E4	A19
E3	B9
E2	B19
E1	C9
D8	C19
W2	A10
W1	A20
V8	B10
T4	B20
M2	C10
P8	C20

PART OF P4	PART OF P12
X4	A1
X3	A11
V7	B1
V6	B11
V5	C1
V4	C11
V3	A2
V2	A12
V1	B2
U8	B12
U7	C2
U6	C12
U5	A3
U4	A13
U3	B3
U2	B13
U1	C3
T8	C13
T7	A4
T6	A14
T5	B4
T3	B14
T2	C4
T1	C14
S8	A5
S7	A15
S6	B5
S5	B15
S4	C5
S3	C15
S2	A6
R8	A16
R7	B6
R6	B16
R5	C6
R4	C16
R3	A7
R2	A17
R1	B7
P7	B17
P6	C7
P5	C17
P4	A8
P3	A18
P2	B8
P1	B18
N8	C8
N7	C18
N6	A9
N5	A19
N4	B9
N3	B19
N2	C9
N1	C19
W8	A10

PART OF P4	PART OF P12
W7	A20
W6	B10
W5	B20
W4	C10
W3	C20

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR [illegible]	[illegible]	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. [illegible] DATE [illegible]

1014478

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN [illegible]
CHECKED [illegible] 27 Sep 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W2
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014478
SCALE NONE
WT
SHEET 6 OF 6

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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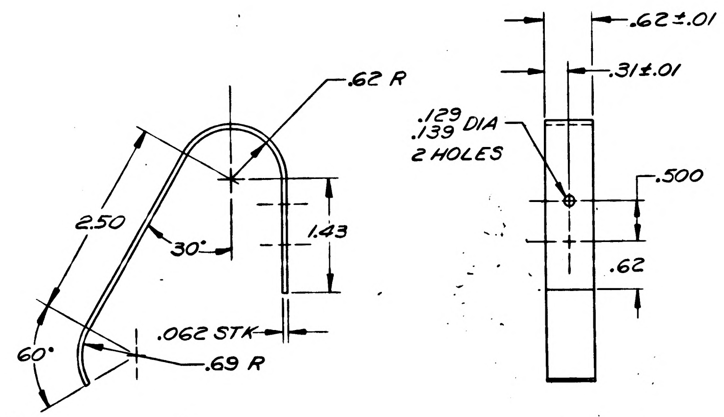
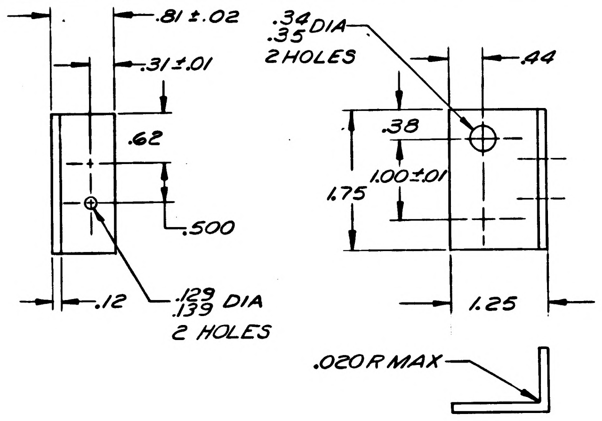


NOTES
1. MATL: CARBON STEEL, MATL NO.2 PER MIL-S-17919
2. REMOVE BURRS AND SHARP EDGES
3. HEAT TREAT TO ROCKWELL B 80-95 PER MIL-H-6875
4. CADMIUM PLATE, TYPE II PER QQ-P-416

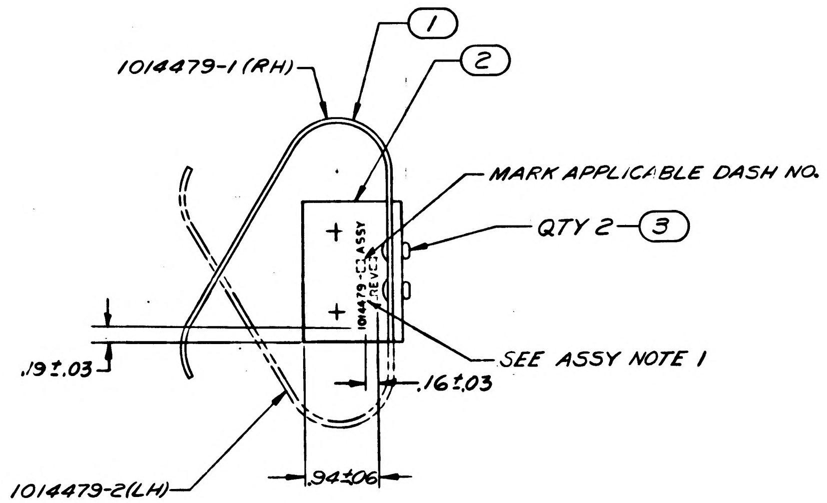
SPRING
1014479-3



NOTES
1. MATL: CARBON STEEL, COMP C1018, COND HR PER QQ-S-633
2. REMOVE BURRS AND SHARP EDGES
3. CADMIUM PLATE, TYPE II PER QQ-P-416

BRACKET, ANGLE
1014479-4

NOTES
1. MARK .08 HIGH BLACK CHARACTERS PER ND1002019



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03835 DATE 10/10/63

REV STATUS OF ASSY	
PART NO.	REV SYMBOL
1014479-1	—
1014479-2	—

REV STATUS OF PARTS	
PART NO.	REV SYMBOL
1014479-3	—
1014479-4	—

QTY REQD	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2	2	MS20470D4-6	RIVET, UNIVERSAL HEAD	3
1	1	1014479-4	BRACKET, ANGLE	2
1	1	1014479-3	SPRING	1
-2	-1	LIST OF MATERIALS		

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±
DECIMALS ±.005 .03
ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE
HEAT TREATMENT SEE NOTE
FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN E. Williams DATE 13SEP63
CHECKED [illegible] 16SEP63
APPROVAL [illegible]
APPROVAL [illegible] 9/30/63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 10/63
MIT APPROVAL [illegible] 9 Oct 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

BRACKET, SPRING ASSY

CODE IDENT NO. ——
SIZE D
NASA DRAWING NO. 1014479
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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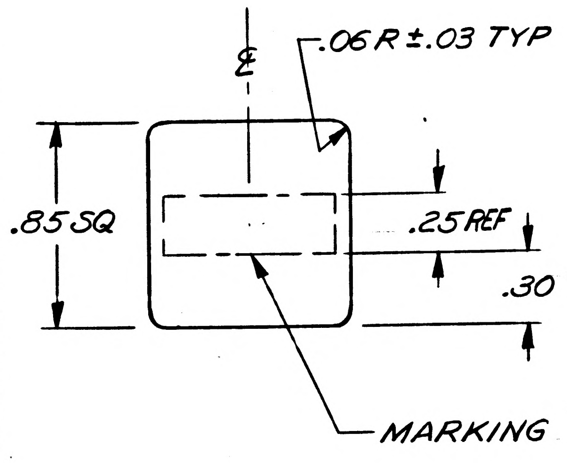
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		



DASH NO.	MARKING	REV STATUS
-1	A1	—
-2	A2	—
-3	A3	—
-4	A4	—
-5	A5	—
-6	A6	—
-7	A7	—
-8	A8	—
-9	A9	—
-10	A10	—
-11	A11	—
-12	A12	—
-13	A13	—
-14	A14	—
-15	A15	—
-16	A16	—
-17	A17	—
-18	A18	—
-19	A19	—

FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 03431 DATE 26/9/63

NOTES

1. MATL: .002-.004 MYLAR DECAL PER MIL-D-8635 TYPE V (WITH RELEASE PAPER REMOVED, NON-CONDUCTIVE FRONT TO BACK, BETWEEN TWO POINTS ON THE SAME SURFACE AND ALONG THE EDGES)
2. BACKGROUND COLOR, BLACK, COLOR NO. 37038 OF FED-STD-595
3. CHARACTER COLOR, SILVER, COLOR NO. 17178 OF FED-STD-595
4. CHARACTERS TO BE 18PT FUTURA DEMIBOLD

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTES

HEAT TREATMENT

FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498

DRAWN a. Voice DATE 23AUG63
CHECKED 30AUG63
APPROVAL C. JRK
APPROVAL JJS 9/12/63
APPROVAL
NASA APPROVAL 9/26/63
MIT APPROVAL 9/26/63
MIT APPROVAL 9/26/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DECAL, IDENTIFICATION

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014480
SCALE 2/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014480

INCHES
0 1 2
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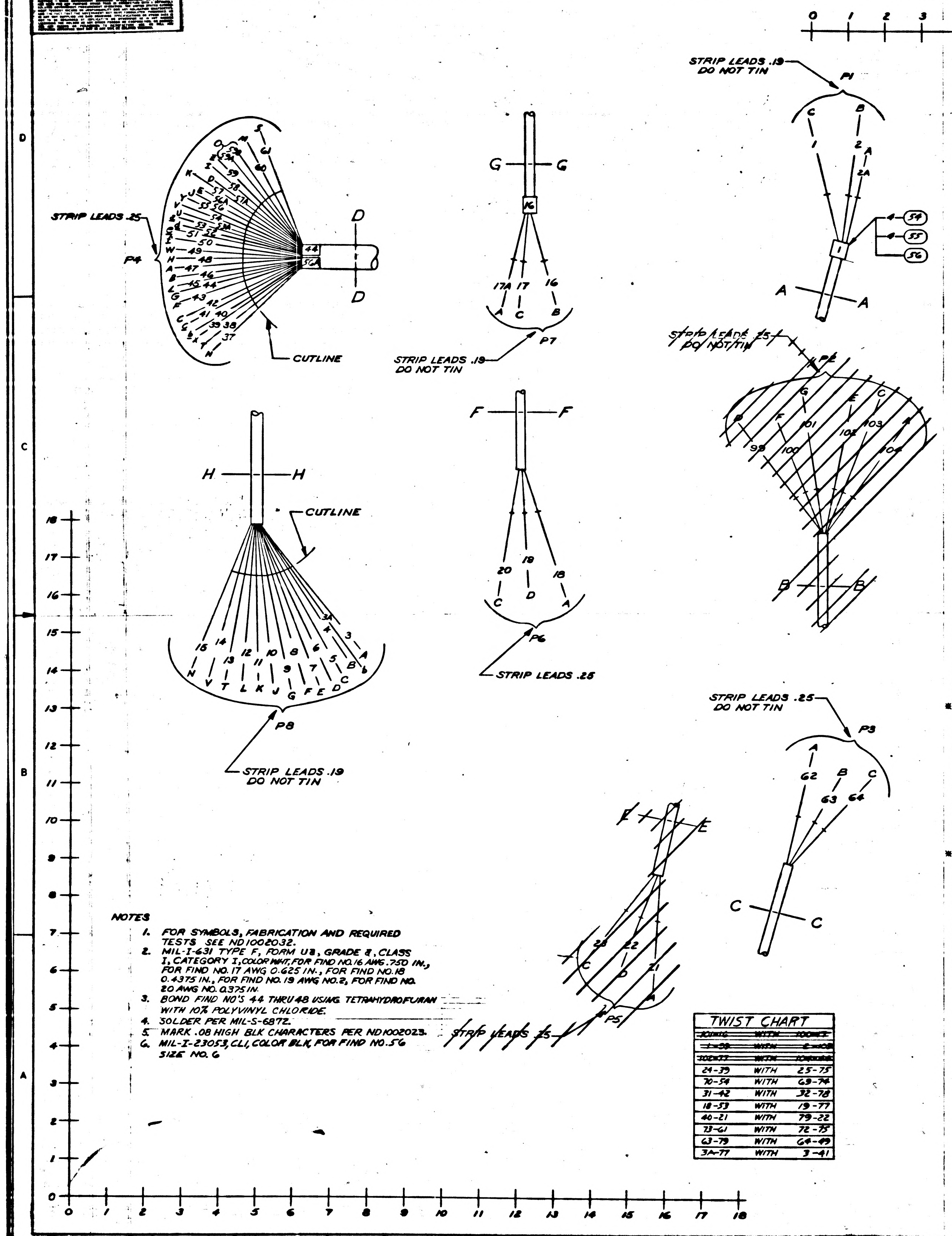
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06682 DR. CHK. APPD.		KB



ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	88	ORN	20	22	13	
	9				87	
	94	GRN		23	26	ATTACH FIND NO.13
	37	WHT	12	34	92	
	93	WHT	20	24	27	ATTACH FIND NO.14
	91	WHT/RED		25	14	
	8				86	
	~~2~~	~~[illegible]~~			~~103~~	
	~~101~~				~~16~~	
	~~104~~				~~[illegible]~~	
	41	WHT/BRN/GY		~~26~~	3	
	~~1~~				~~38~~	
	~~100~~				~~17~~	
	~~102~~				~~77~~	
	76	WHT/BLK/GY		27	7	
	98	BLK		28	15	
	47	WHT/BRN/GY		26	5	
	6	WHT/BRN/GY			46	
	43	WHT/BRN/GY			4	
	51	RED	20	50	11	
	57	ORN	12	41	33	ATTACH FIND NO.52
	52	ORN	20	22	10	
	97	VIO	16	33	30	ATTACH FIND NO.14
	95				36	ATTACH FIND NO.14
ATTACH FIND NO.14	29				97	
	95		16		35	ATTACH FIND NO.14
	27	WHT	12	34	45	
	50	WHT	20	24	12	
	80	BLK	16	35	28	ATTACH FIND NO.14
	71				85	
	85				62	
	83				20	
	23				84	
	81				67	ATTACH FIND NO.14
ATTACH FIND NO.14	34				82	
ATTACH FIND NO.14	31	WHT/BLK/GY	16	36	42	SEE TWIST CHART
ATTACH FIND NO.52	24	WHT/RED/GY	12	51	39	SEE TWIST CHART
SEE TWIST CHART	40	WHT/RED/GY	16	37	21	
	64	WHT/RED/GY	12	51	49	
	18	WHT/ORN/GY	16	38	53	
	63	WHT/BLK/GY		39	79	
	79				22	
	19				77	
* ATTACH FIND NO.14	25				75	ATTACH FIND NO.14 *
	76				59	
ATTACH FIND NO.14	32		16		78	SEE TWIST CHART
	89	RED	12	40	38	
	58				68	ATTACH FIND NO.52
	90	ORN	12	41	55	
	96	VIO	14	43	65	ATTACH FIND NO.14
	96				66	ATTACH FIND NO.14
SEE TWIST CHART	73	WHT/RED/GY		8	61	
	72	WHT/BLK/GY		21	75	
ATTACH FIND NO.15	70	WHT/ORN/GY	18	32	54	SEE TWIST CHART
	75	WHT/BLK/GY		42	56	
* ATTACH FIND NO.15	69				74	ATTACH FIND NO.15 *
	74				48	
	78				60	
	1	WHT	20	53	44	
	2	BLK			57A	
ATTACH FIND NO.28 LG 2"	2A	SHLD			59A	ATTACH FIND NO.28 LG 2"
	56A	WHT			16	
	53A	BLK			17	
ATTACH FIND NO.28 LG 2"	17A	SHLD			59B	ATTACH FIND NO.28 LG 2"
	3A	WHT/BLK/GY	16	39	77	

* SEE TWIST CHART

NOTES

1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032.
2. MIL-I-631 TYPE F, FORM U8, GRADE 8, CLASS I, CATEGORY I, COLOR WHT, FOR FIND NO.16 AWG .750 IN., FOR FIND NO. 17 AWG 0.625 IN., FOR FIND NO.18 0.4375 IN., FOR FIND NO. 19 AWG NO.2, FOR FIND NO. 20 AWG NO. 0.375 IN.
3. BOND FIND NO'S 44 THRU 48 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE.
4. SOLDER PER MIL-S-6872.
5. MARK .08 HIGH BLK CHARACTERS PER ND1002023.
6. MIL-I-23053, CL1, COLOR BLK, FOR FIND NO.56 SIZE NO. 6

TWIST CHART		
~~[illegible]~~	~~WITH~~	~~[illegible]~~
~~[illegible]~~	~~WITH~~	~~[illegible]~~
~~[illegible]~~	~~WITH~~	~~[illegible]~~
24-39	WITH	25-75
70-54	WITH	69-74
31-42	WITH	32-78
18-53	WITH	19-77
40-21	WITH	79-22
73-61	WITH	72-75
63-79	WITH	64-49
3A-77	WITH	3-41

A	A
SH 1	SH 2

REV STATUS OF SHEETS

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04906 DATE 10/30/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	1020019	SCHEMATIC	REF
AR	SEE NOTE 6	SLEEVING	56
4	1000242-15	FERRULE, ELECTRICAL COND.	55
4	1000243-14	FERRULE, ELECTRICAL COND.	54
AR	ND1002181, TYPE II, CLASS 4, 20, BLK/WHT	WIRE, ELEC	53
3	MS25036-11	LUG, CRIMP	52
AR	MIL-W-16878/4, TYPE E, 12, WHT/RED/GY	WIRE, ELEC	51
AR	MIL-W-16878/4, TYPE E, 20, RED	WIRE, ELEC	50
AR	MIL-W-16878/4, TYPE E, 18, WHT/BLK/GY	WIRE, ELEC	49
1	1014472-3A	MARKER, BAND	48
1	1014472-4A	MARKER, BAND	47
6	1014472-1A	MARKER, BAND	46
3	1014472-2A	MARKER, BAND	45
1	1014472-3	MARKER, BAND	44
AR	MIL-W-16878/4 TYPE E, 14 VIO	WIRE, ELEC	43
	12, WHT/BLK/GY		42
	12, ORN		41
	12, RED		40
	16, WHT/BLK/GY		39
	16, WHT/ORN/GY		38
	16, WHT/RED/GY		37
	16, WHT/[illegible]/GY		36
	16, BLK		35
	12, WHT		34
	16, VIO		33
AR	MIL-W-16878/4 TYPE E, 12, WHT/ORN/GY	WIRE, ELEC	32
		~~AWG NO 16 ORN~~	~~31~~
		~~AWG NO 16 RED~~	~~30~~
AR	MIL-W-16878/4 TYPE E, 18, WHT/[illegible]/GY	WIRE, ELEC	29
	20, BLK		28
	20, WHT/BLK/GY		27
	20, WHT/BRN/GY		26
	20, WHT/RED		25
	20, WHT		24
	20, GRN		23
	20, ORN		22
	MIL-W-16878/4 TYPE E, 16, WHT/BLK/GY	WIRE, ELEC	21
	SEE NOTE 2	INSULATION, ELEC	20
	SEE NOTE 2	INSULATION, ELEC	19
	SEE NOTE 2	INSULATION, ELEC	18
	SEE NOTE 2	INSULATION, ELEC	17
AR	SEE NOTE 2	INSULATION, ELEC	16
3	MS35436-30	LUG, TERMINAL	15
14	MS25036-6	LUG, CRIMP	14
1	MS25036-1	LUG, CRIMP	13
1	MS39056-6	BUSHING	12
2	MS39056-4	BUSHING	11
2	MS39056-3	BUSHING	10
4	MS39056-2	BUSHING	9
AR	MIL-W-16878/4 TYPE E [illegible]	WIRE, ELEC	8
1	MS3057-24	CLAMP	7
1	MS3057-12	CLAMP	6
1	MS3106A-20-4S	CONNECTOR, RECEPTACLE	5
2	MS3126F-10-6S	CONNECTOR, RECEPTACLE	4
1	MS3126F-16-8S	CONNECTOR, RECEPTACLE	3
1	MS3126F-22-55S	CONNECTOR, RECEPTACLE	2
1	MS3106A-36-9P	CONNECTOR, PLUG	1

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

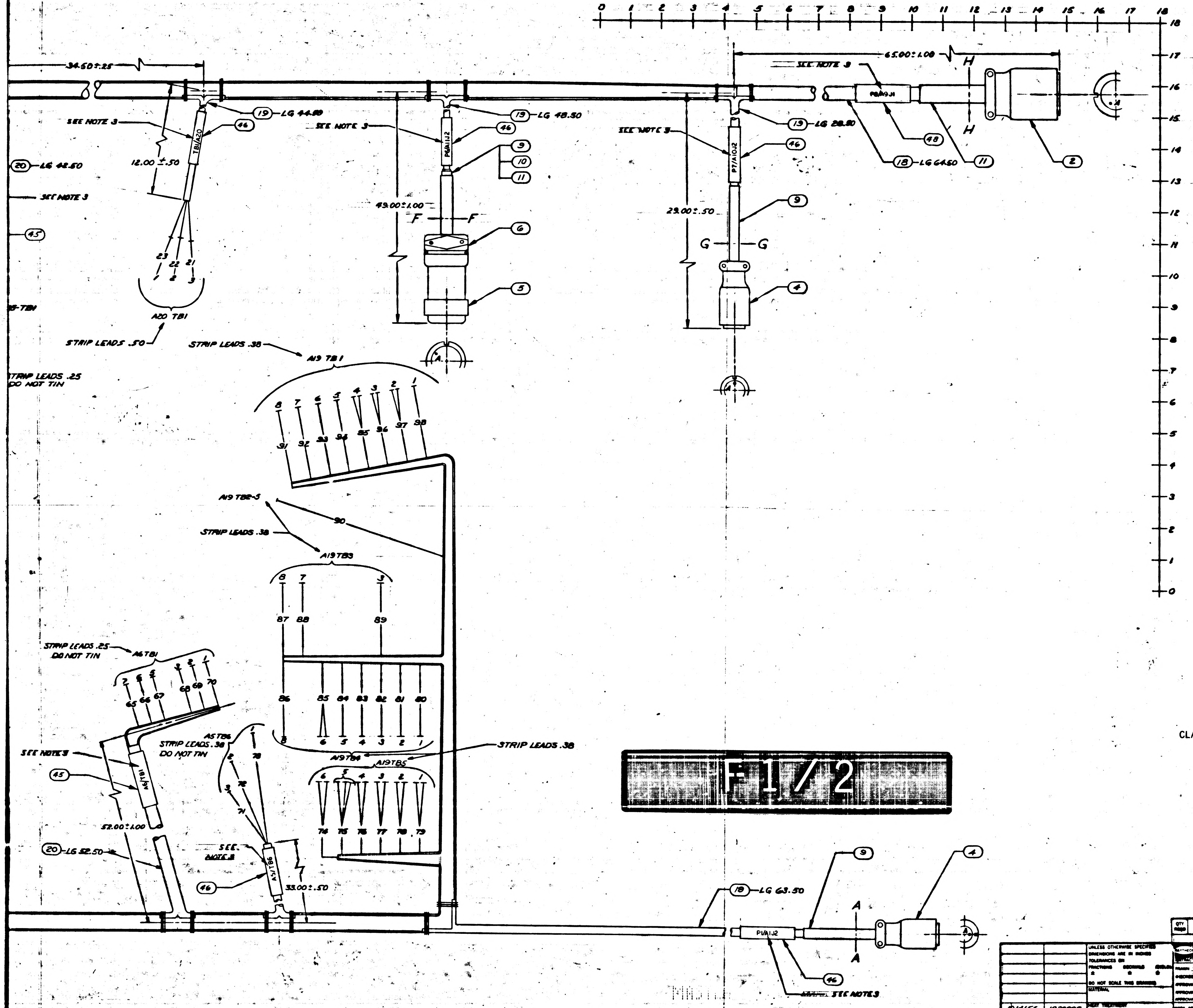
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
SIT APPROVAL
ART APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS,
POWER DISTRIBUTION
COMPUTER TEST SET

CODE IDENT NO | SIZE J | NASA DRAWING NO. 1014481
SCALE | WT | SHEET 2

SYM	DESCRIPTION	DATE	APPROVED
—	~~CL B RELEASED PER TDRR~~		
A	CHANGED PER TDRR 06682 DR. Ken Budd CHK J.c.J APPD	1/64	KB.



34.50±.25
65.00±1.00
SEE NOTE 3
TB1/A20
P6/A11J2
P7/A10J2
P8/A9J1
19 — LG 44.50
19 — LG 48.50
19 — LG 28.50
18 — LG 64.50
20 — LG 42.50
20 — LG 52.50
18 — LG 63.50
46
9
10
11
6
5
4
2
48
45
H
F
G
A
12.00±.50
49.00±1.00
29.00±.50
52.00±1.00
33.00±.50
23 22 21
1 2 3
A20 TB1
STRIP LEADS .50
STRIP LEADS .38
STRIP LEADS .25 DO NOT TIN
A19 TB1
8 7 6 5 4 3 2 1
91 92 93 94 95 96 97 98
A19 TB2-5
90
A19TB3
8 7 3
87 88 89
86 85 84 83 82 81 80
8 6 5 4 3 2 1
A19TB4
A19TB5
74 75 76 77 78 79
A6TB1
2 6 5 4 2 1
65 66 67 68 69 70
A5TB6
1 2 3
73 72 71
18/A6
A5/TB6
P1/A1J2
SEE NOTES 3
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 01306 DATE 1/30/63

F1/2

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

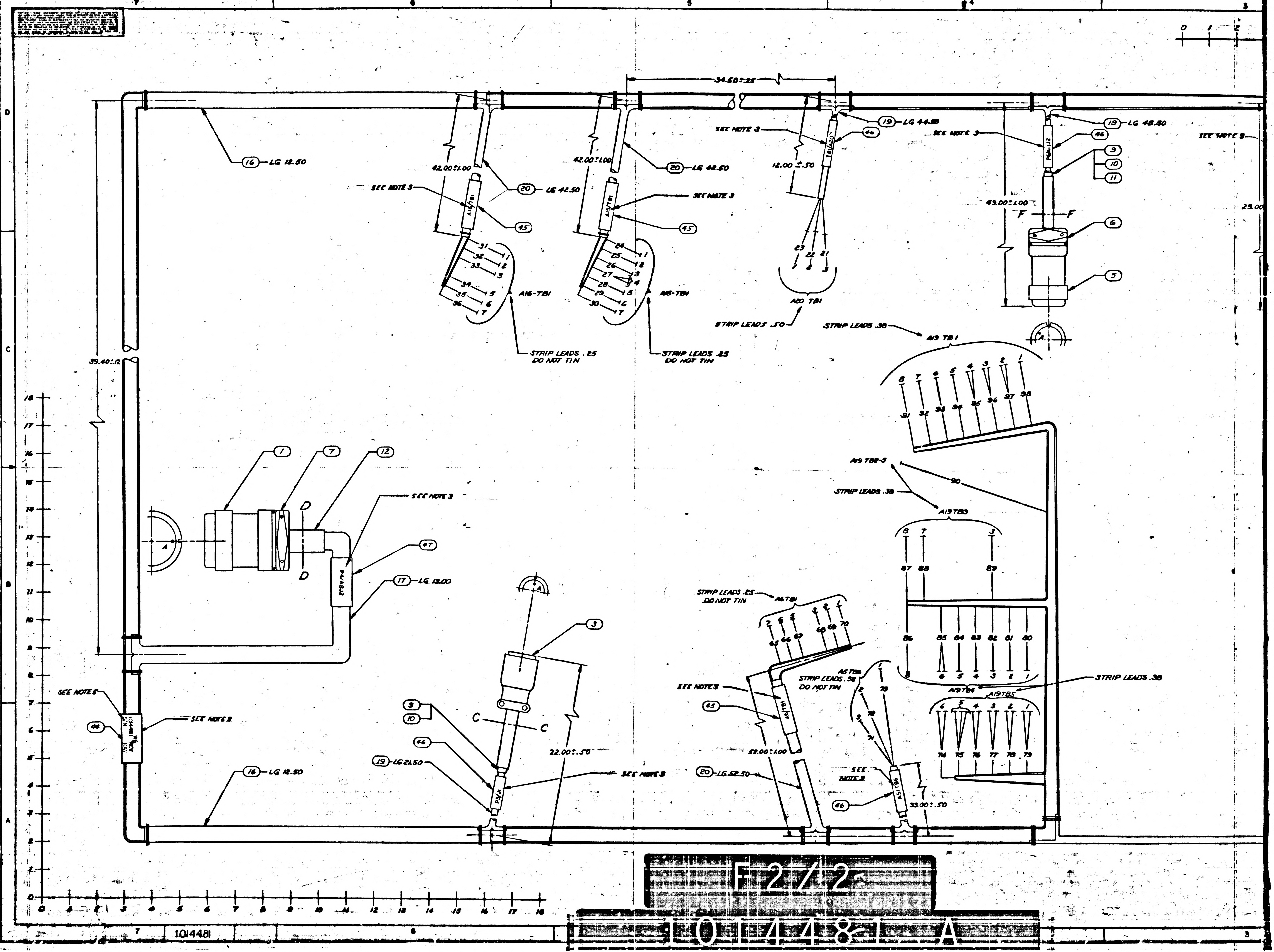
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-497
DRAWN DATE 10-8-63
CHECKED 10-8-63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL W. Crosby 3/18/63
MIT APPROVAL 4/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
POWER DISTRIBUTION
COMPUTER TEST SET

CODE IDENT NO — SIZE J
NASA DRAWING NO 1014481
SCALE 1/1 WT SHEET 2 OF 2

1014481



7
6
5
4
3
D
C
B
A
0 1 2
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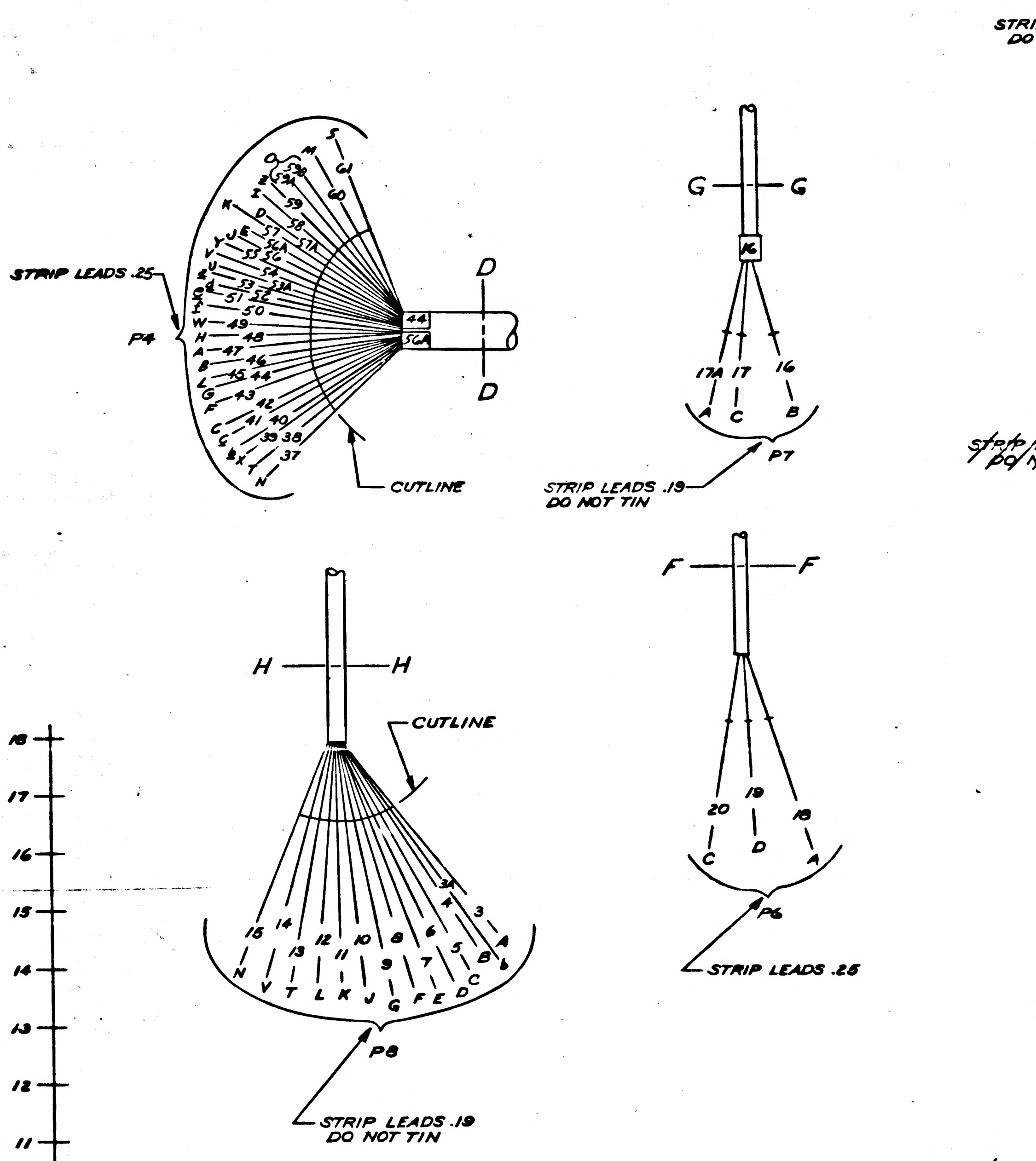
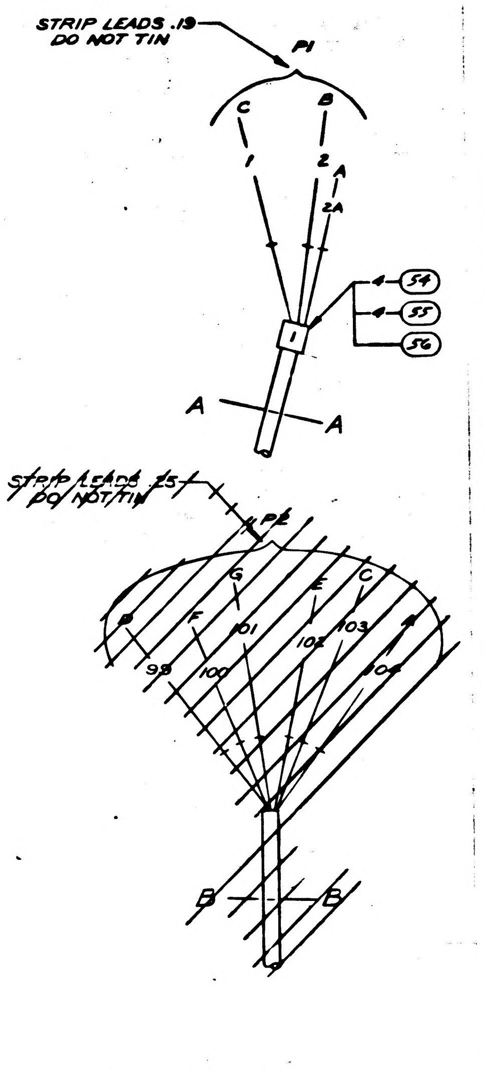
(16) LG 12.50
42.00±1.00
(20) LG 42.50
SEE NOTE 3
A16/TB1
(45)
31 32 33 34 35 36
1 2 3 4 5 6 7
A16-TB1
STRIP LEADS .25
DO NOT TIN
42.00±1.00
(20) LG 48.50
SEE NOTE 3
A15/TB1
(45)
24 25 26 27 28 29 30
1 2 3 4 5 6 7
A15-TB1
STRIP LEADS .25
DO NOT TIN
(19) LG 44.80
SEE NOTE 3
TB1/A20
(46)
12.00±.50
23 22 21
1 2 3
A20 TB1
STRIP LEADS .50
(19) LG 48.50
SEE NOTE 3
P6/A11J2
(46)
(9)
(10)
(11)
43.00±1.00
F F
(6)
(5)
A
SEE NOTE 3
29.00
39.40±.12
STRIP LEADS .38
A19 TB1
8 7 6 5 4 3 2 1
91 92 93 94 95 96 97 98
A19 TB2-5
90
STRIP LEADS .38
A19TB3
8 7 3
87 88 89
86 85 84 83 82 81 80
8 6 5 4 3 2 1
STRIP LEADS .38
A19TB4
A19TB5
6 5 4 3 2 1
74 75 76 77 78 79
(1)
(7)
(12)
D
D
A
SEE NOTE 3
(47)
P4/A8J2
(17) LG 13.00
(3)
A
(9)
(10)
C
C
(46)
(19) LG 21.50
P3/J1
22.00±.50
SEE NOTE 3
SEE NOTE 6
(44)
1014481 REV
S/N
P/N
SEE NOTE 2
(16) LG 12.50
STRIP LEADS .25
DO NOT TIN
A6TB1
7 6 5 4 2 1
65 66 67 68 69 70
SEE NOTE 3
(45)
A6/TB1
A5TB6
STRIP LEADS .38
DO NOT TIN
1 2 3
73 72 71
SEE NOTE 3
A5/TB6
(46)
52.00±1.00
(20) LG 52.50
33.00±.50
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
1014481

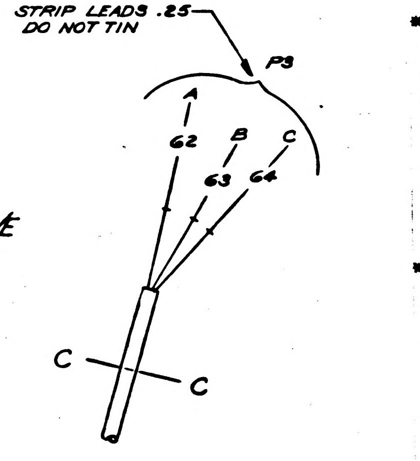
F 2/2

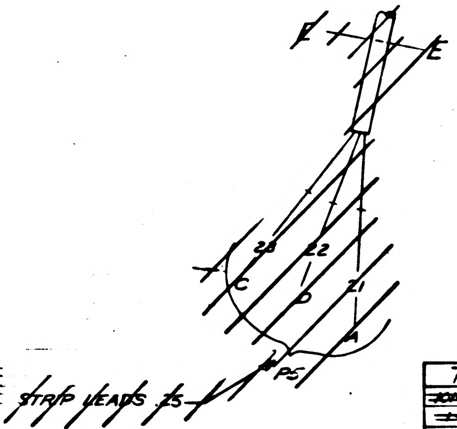
1014481 A

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06682 DR. Ken Bull CHK. J.C.J. APPD.	3 MAR 64	KB
B	CHANGED PER TDRR 07548 DR. Ken Bull CHK. G.G.C. APPD.	23 APR 64	KEB









NOTES

1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032.
2. MIL-I-631 TYPE F, FORM U2, GRADE A, CLASS I, CATEGORY I, COLOR WHT, FOR FIND NO.16 AWG .750 IN., FOR FIND NO.17 AWG 0.625 IN., FOR FIND NO.18 0.4375 IN., FOR FIND NO.19 AWG NO.2, FOR FIND NO. 20 AWG NO. 0.375 IN.
3. BOND USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
4. SOLDER PER MIL-S-6872.
5. MARK .08 HIGH BLK CHARACTERS PER ND1002023.
6. MIL-I-23053, CLI, COLOR BLK, FOR FIND NO.56 SIZE NO.6

TWIST CHART		
[illegible]	~~WITH~~	[illegible]
[illegible]	~~WITH~~	[illegible]
[illegible]	~~WITH~~	[illegible]
24-39	WITH	25-75
70-54	WITH	69-74
31-42	WITH	32-78
18-53	WITH	19-77
40-21	WITH	79-22
73-61	WITH	72-75
63-79	WITH	64-49
3A-77	WITH	3-41

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	88	ORN	20	22	13	
	9				87	
	94	GRN		23	26	ATTACH FIND NO.13
	37	WHT	12	34	92	
	93	WHT	20	24	27	ATTACH FIND NO.14
	91	WHT/RED		25	14	
	8				86	
	~~2~~				~~103~~	
	~~101~~	~~WHT/BLK/GY~~			~~16~~	
	~~104~~				~~44~~	
	41	WHT/BRN/GY		26	3	
	~~1~~				~~38~~	
	~~100~~				~~12~~	
	~~102~~				~~77~~	
	76	WHT/BLK/GY		27	7	
	98	BLK		28	15	
	47	WHT/BRN/GY		26	5	
	6	WHT/BRN/GY			46	
	43	WHT/BRN/GY			4	
	51	RED	20	50	11	
	57	ORN	12	41	33	ATTACH FIND NO.52
	52	ORN	20	22	10	
	97	VIO	16	33	30	ATTACH FIND NO.14
	95				36	ATTACH FIND NO.14
ATTACH FIND NO.14	29				97	
	95		16		35	ATTACH FIND NO.14
	27	WHT	12	34	45	
	50	WHT	20	24	12	
	80	BLK	16	35	28	ATTACH FIND NO.14
	71				85	
	85				62	
	83				20	
	23				84	
	81				67	ATTACH FIND NO.14
ATTACH FIND NO.14	34				82	
ATTACH FIND NO.14	31	WHT/BRN/GY	16	36	42	SEE TWIST CHART
ATTACH FIND NO.52	24	WHT/RED/GY	12	51	39	SEE TWIST CHART
SEE TWIST CHART	40	WHT/RED/GY	16	37	21	
	64	WHT/RED/GY			49	
	18	WHT/ORN/GY		38	53	
	63	WHT/BLK/GY		39	79	
	79				22	
	19				77	
* ATTACH FIND NO.14	25				75	
	76				59	
ATTACH FIND NO.14	32		16		78	SEE TWIST CHART
	89	RED	12	40	38	
	58				68	ATTACH FIND NO.52
	90	ORN	12	41	55	
	96	VIO	14	43	65	ATTACH FIND NO.14
	96				66	ATTACH FIND NO.14
	73	WHT/RED/GY		8	61	
SEE TWIST CHART	72	WHT/BLK/GY	14	21	75	
ATTACH FIND NO.15	70	WHT/ORN/GY	12	32	54	SEE TWIST CHART
	75	WHT/BLK/GY		42	56	
* ATTACH FIND NO.15	69				74	SEE TWIST CHART
	74				48	
	78		12		60	
	1	WHT	20	53	44	
	2	BLK			57A	
ATTACH FIND NO.28 L6.2"	2A	SHLD			59A	ATTACH FIND NO.28 L6.2"
	56A	WHT			16	
	53A	BLK			17	
ATTACH FIND NO.28 L6.2"	17A	SHLD			59B	ATTACH FIND NO.28 L6.2"
	3A	WHT/BLK/GY	20	27	77	

* SEE TWIST CHART

B	B
A	A
—	—
SH 1	SH 2

REV STATUS OF SHEETS

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04906 DATE 10/30/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1020019	SCHEMATIC	REF
AR	SEE NOTE 6	SLEEVING	56
4	1000242-15	FERRULE, ELECTRICAL COND.	55
4	1000243-14	FERRULE, ELECTRICAL COND.	54
AR	ND1002190, TYPE I, CLASS 4, 20, BLK/WHT	WIRE, ELEC	53
3	MS25036-11	LUG, CRIMP	52
AR	MIL-W-16878/4, TYPE E, 12, WHT/RED/GY	WIRE, ELEC	51
AR	MIL-W-16878/4, TYPE E, 20, RED	WIRE, ELEC	50
[illegible]	[illegible]	~~WIRE, ELEC~~	[illegible]
1	1014472-3H	MARKER, BAND	48
1	1014472-4A	MARKER, BAND	47
6	1014472-1A	MARKER, BAND	46
3	1014472-2A	MARKER, BAND	45
1	1014472-3	MARKER, BAND	44
AR	MIL-W-16878/4 TYPE E, 14, VIO	WIRE, ELEC	43
	12, WHT/BLK/GY		42
	12, ORN		41
	12, RED		40
	16, WHT/BLK/GY		39
	16, WHT/ORN/GY		38
	16, WHT/RED/GY		37
	16, WHT/BRN/GY		36
	16, BLK		35
	12, WHT		34
	16, VIO		33
AR	MIL-W-16878/4 TYPE E, 12, WHT/ORN/GY	WIRE, ELEC	32
		~~AWG NO 16, ORN~~	~~31~~
		~~AWG NO 16, RED~~	~~30~~
AR	MIL-W-16878/4 TYPE E, 12, WHT/BRN/GY	WIRE, ELEC	29
	20, BLK		28
	20, WHT/BLK/GY		27
	20, WHT/BRN/GY		26
	20, WHT/RED		25
	20, WHT		24
	20, GRN		23
	20, ORN		22
	MIL-W-16878/4 TYPE E, 14, WHT/BLK/GY	WIRE, ELEC	21
	SEE NOTE 2	INSULATION, ELEC	20
	SEE NOTE 2	INSULATION, ELEC	19
	SEE NOTE 2	INSULATION, ELEC	18
	SEE NOTE 2	INSULATION, ELEC	17
AR	SEE NOTE 2	INSULATION, ELEC	16
2	MS35436-30	LUG, TERMINAL	15
13	MS25036-6	LUG, CRIMP	14
1	MS25036-1	LUG, CRIMP	13
1	MS39056-6	BUSHING	12
2	MS39056-4	BUSHING	11
2	MS39056-3	BUSHING	10
3	MS39056-2	BUSHING	9
AR	MIL-W-16878/4 TYPE E, 14, WHT/RED/GY	WIRE, ELEC	8
1	MS3057-24	CLAMP	7
1	MS3057-12	CLAMP	6
1	MS3106A-20-4S	CONNECTOR, RECEPTACLE	5
2	MS3126F-10-6S	CONNECTOR, RECEPTACLE	4
1	MS3126F-16-8S	CONNECTOR, RECEPTACLE	3
1	MS3126F-22-55S	CONNECTOR, RECEPTACLE	2
1	MS3106A-36-9P	CONNECTOR, PLUG	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.030 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
BIT APPROVAL
MIT APPROVAL
SCALE
WT
SHEET 1 OF 2

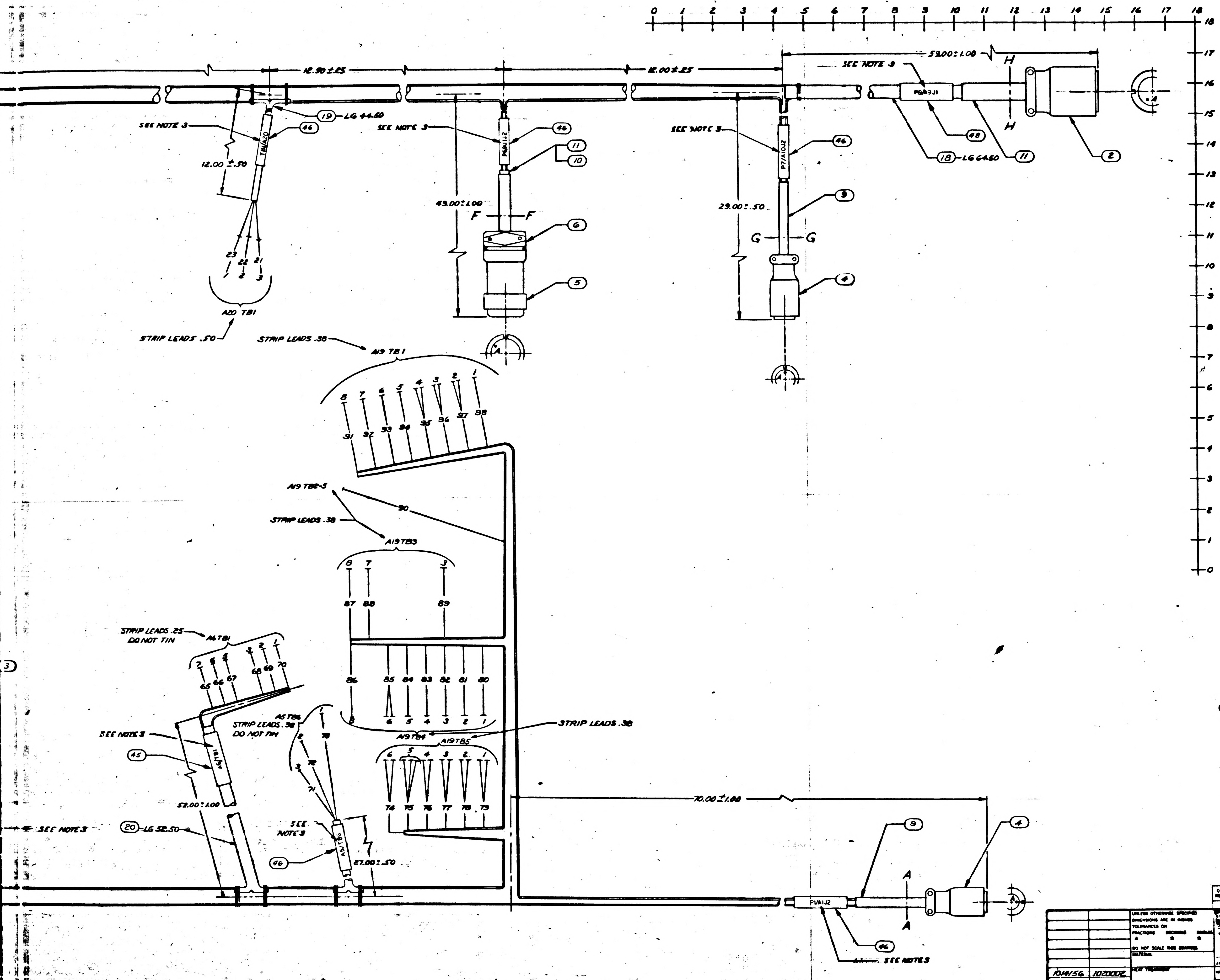
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS,
POWER DISTRIBUTION
COMPUTER TEST SET

SIZE J
DRAWING NO 1014481

1014481

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06682 DR. Ken Budd CHK J.J. APPD	3MAR 64	K B
B	CHANGED PER TDRR 07548 DR Ken Budd CHK. G.G.C. APPD	2MAR 69	KB



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
12.50 ±.25
12.00 ±.25
52.00 ±1.00
SEE NOTE 3
P6/A9J1
H
H
48
18 - LG 64.50
11
2
19 - LG 44.50
46
SEE NOTE 3
TB1/A20
12.00 ±.50
23 22 21
1 2 3
A20 TB1
STRIP LEADS .50
SEE NOTE 3
P6/A11J2
46
11
10
49.00 ±1.00
F F
6
5
A
SEE NOTE 3
P7/A10J2
46
9
29.00 ±.50
G G
4
STRIP LEADS .38
A19 TB1
8 7 6 5 4 3 2 1
91 92 93 94 95 96 97 98
A19 TB2-5
90
STRIP LEADS .38
A19 TB3
8 7 3
87 88 89
86 85 84 83 82 81 80
8 6 5 4 3 2 1
A19 TB4
A19 TB5
STRIP LEADS .38
6 5 4 3 2 1
74 75 76 77 78 79
STRIP LEADS .25
DO NOT TIN
A6 TB1
7 6 5 3 2 1
65 66 67 68 69 70
SEE NOTE 3
45
A6/TB1
52.00 ±1.00
SEE NOTE 3
20 - LG 52.50
A5 TB6
STRIP LEADS .38
DO NOT TIN
1 72
2 73
3 71
SEE NOTE 3
A5/TB6
46
27.00 ±.50
70.00 ±1.00
9
4
A
A
P1/A1J2
46
SEE NOTES 3

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04306 DATE 11/30/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIAL

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN [illegible] DATE [illegible]
CHECKED [illegible] 10-3-63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

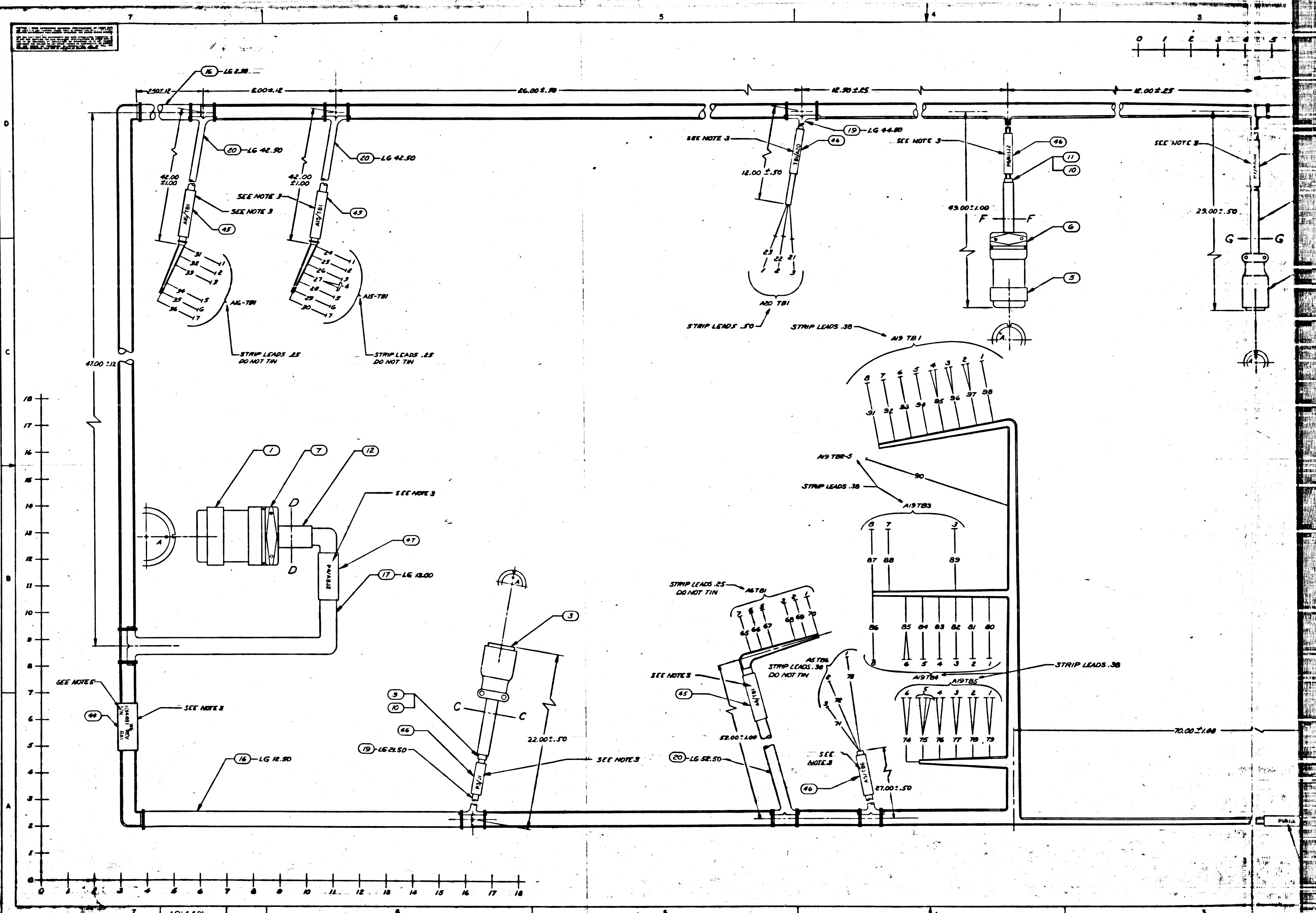
WIRING HARNESS
POWER DISTRIBUTION
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014481
SCALE 1/1
WT
SHEET 2 OF 2

1014481

F 2 / 2

1014481



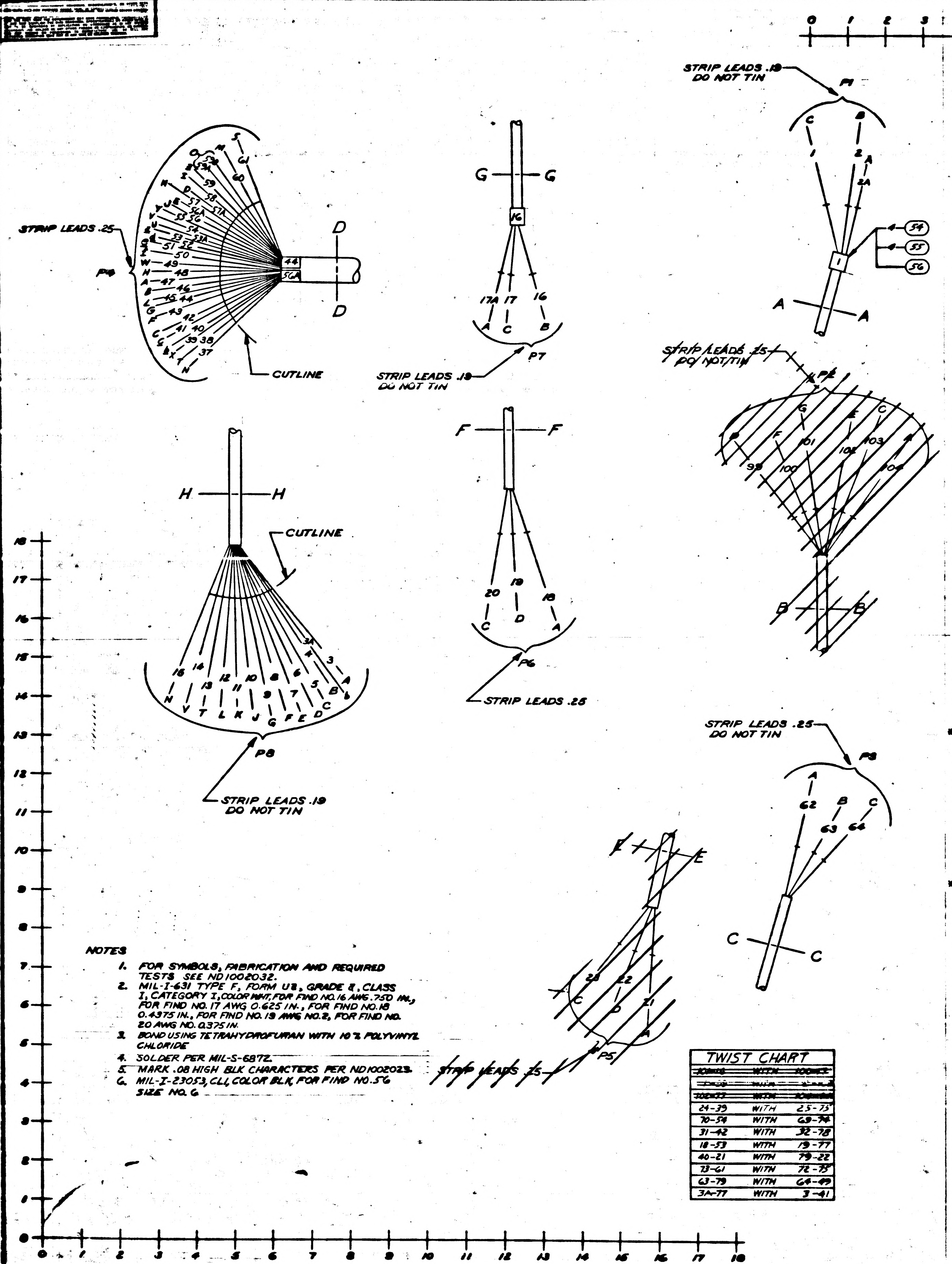
7
6
5
4
3
D
C
B
A
0 1 2 3 4 5
16 -LG 2.50
2.50±.12
6.00±.12
26.00±.50
12.50±.25
12.00±.25
20 -LG 42.50
20 -LG 42.50
19 -LG 44.50
46
SEE NOTE 3
SEE NOTE 3
SEE NOTE 3
SEE NOTE 3
SEE NOTE 3
42.00 ±1.00
42.00 ±1.00
A16/TB1
A15/TB1
A20/TB1
P6/A11J2
45
45
46
11
10
12.00±.50
43.00±1.00
29.00±.50
F
G
6
5
31 32 33 34 35 36
1 2 3 5 6 7
A16-TB1
24 25 26 27 28 29 30
1 2 3 4 5 6 7
A15-TB1
23 22 21
1 2 3
A20 TB1
STRIP LEADS .25 DO NOT TIN
STRIP LEADS .25 DO NOT TIN
STRIP LEADS .50
STRIP LEADS .38
A19 TB1
8 7 6 5 4 3 2 1
91 92 93 94 95 96 97 98
A19 TB2-5
90
STRIP LEADS .38
A19TB3
8 7 3
87 88 89
86 85 84 83 82 81 80
8 6 5 4 3 2 1
A19TB4
A19TB5
STRIP LEADS .38
6 5 4 3 2 1
74 75 76 77 78 79
70.00±1.00
47.00±.12
1
7
12
SEE NOTE 3
47
D
P4/A8J2
17 -LG 13.00
A
3
C
9
10
66
19 -LG 21.50
P3/J1
22.00±.50
SEE NOTE 3
SEE NOTE 5
44
1014481 S/N REV RAY
SEE NOTE 8
16 -LG 12.50
STRIP LEADS .25 A6TB1 DO NOT TIN
7 6 5 4 3 2 1
65 66 67 68 69 70
SEE NOTE 3
45
A6/TB1
A5TB6
STRIP LEADS .38 DO NOT TIN
1 73 2 72 3 71
52.00±1.00
20 -LG 52.50
SEE NOTE 8
46
A5/TB6
27.00±.50
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

1014481

E-1/2

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06682 DR. CHK. APPD.	64	KR
B	CHANGED PER TDRR 07548 DR. CHK. G GC. APPD.	64	KEB
C	CHANGED PER TDRR 08928 CHK. APPD	64	KEB



NOTES

1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032.
2. MIL-I-631 TYPE F, FORM U8, GRADE A, CLASS I, CATEGORY I, COLOR WHT, FOR FIND NO.16 AWG .750 IN., FOR FIND NO. 17 AWG 0.625 IN., FOR FIND NO.18 0.4375 IN., FOR FIND NO. 19 AWG NO.2, FOR FIND NO. 20 AWG NO. 0.375 IN.
3. BOND USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
4. SOLDER PER MIL-S-6872.
5. MARK .08 HIGH BLK CHARACTERS PER ND1002023.
6. MIL-I-23053, CL1, COLOR BLK, FOR FIND NO.56 SIZE NO. 6

TWIST CHART

~~[illegible]~~	~~WITH~~	~~[illegible]~~
~~[illegible]~~	~~WITH~~	~~[illegible]~~
~~[illegible]~~	~~WITH~~	~~[illegible]~~
24-39	WITH	25-75
70-54	WITH	69-74
31-42	WITH	32-78
18-53	WITH	19-77
40-21	WITH	79-22
73-61	WITH	72-75
63-79	WITH	64-49
3A-77	WITH	3-41

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	88	ORN	20	22	13	
	9				87	
	94	GRN		23	26	ATTACH FIND NO.13
	37	WHT	12	34	92	
	93	WHT	20	24	27	ATTACH FIND NO.14
	91	WHT/RED		25	14	
	8				86	
	~~2~~	~~[illegible]~~			~~103~~	
	~~101~~				~~16~~	
	~~104~~				~~44~~	
	41	WHT/BRN/GY		26	3	
	~~1~~				~~38~~	
	~~100~~				~~17~~	
	~~102~~				~~77~~	
	76	WHT/BLK/GY		27	7	
	56	BLK		28	15	
	47	WHT/BRN/GY		26	5	
	6	WHT/BRN/GY			46	
	43	WHT/BRN/GY			4	
	51	RED	20	50	11	
	57	ORN	12	41	33	ATTACH FIND NO.52
	52	ORN	20	22	10	
	97	VIO	16	33	30	ATTACH FIND NO.14
	95				36	ATTACH FIND NO.14
ATTACH FIND NO.14	29				97	
	95		16		35	ATTACH FIND NO.14
	27	WHT	12	34	45	
	50	WHT	20	24	12	
	80	BLK	16	35	28	ATTACH FIND NO.14
	71				85	
	85				62	
	83				20	
	23				84	
	81				67	ATTACH FIND NO.14
ATTACH FIND NO.14	34				82	
ATTACH FIND NO.14	31	WHT/BRN/GY	16	36	42	SEE TWIST CHART
ATTACH FIND NO.52	24	WHT/RED/GY	12	51	39	SEE TWIST CHART
	40	WHT/RED/GY	16	37	21	
	64	WHT/RED/GY			49	
	18	WHT/ORN/GY		38	53	
SEE TWIST CHART	63	WHT/BLK/GY		39	79	
	79				22	
	19				77	
* ATTACH FIND NO.14	25				75	
	76				59	
ATTACH FIND NO.14	32		16		78	SEE TWIST CHART
	89	RED	12	40	38	
	58				68	ATTACH FIND NO.52
	90	ORN	12	41	55	
	96	VIO	14	43	65	ATTACH FIND NO.14
	96				66	ATTACH FIND NO.14
	73	WHT/RED/GY		8	61	
SEE TWIST CHART	72	WHT/BLK/GY	14	21	75	
ATTACH FIND NO.15	70	WHT/ORN/GY	12	32	54	SEE TWIST CHART
	75	WHT/BLK/GY		42	56	
* ATTACH FIND NO.15	69				74	SEE TWIST CHART
	74				48	
	78		12		60	
	1	WHT	20	53	44	
	2	BLK			57A	
ATTACH FIND NO.28 L6.2"	2A	SHLD			59A	ATTACH FIND NO.28 L6.2"
	56A	WHT			16	
	53A	BLK			17	
ATTACH FIND NO.28 L6.2"	17A	SHLD			59B	ATTACH FIND NO.28 L6.2"
	3A	WHT/BLK/GY	20	27	77	

* SEE TWIST CHART

C	C
B	B
A	A
—	—
SH 1	SH 2

REV STATUS OF SHEETS

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04206 DATE 10/30/63

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
☒	1020019	SCHEMATIC	REF
AR	SEE NOTE 6	SLEEVING	56
4	1000242-15	FERRULE, ELECTRICAL COND.	55
4	1000243-14	FERRULE, ELECTRICAL COND.	54
AR	ND1002101, TYPE I, CLASS 4, 20 [illegible]	WIRE, ELEC	53
3	MS25036-11	LUG, CRIMP	52
AR	MIL-W-16878/4, TYPE E, 12, WHT/RED/GY	WIRE, ELEC	51
AR	MIL-W-16878/4, TYPE E, 20, RED	WIRE, ELEC	50
~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~
1	1014472-3A	MARKER, BAND	48
1	1014472-4A	MARKER, BAND	47
6	1014472-1A	MARKER, BAND	46
3	1014472-2A	MARKER, BAND	45
1	1014472-3	MARKER, BAND	44
AR	MIL-W-16878/4 TYPE E, 14 VIO	WIRE, ELEC	43
	12, WHT/BLK/GY		42
	12, ORN		41
	12, RED		40
	16, WHT/[illegible]		39
	16, WHT/ORN/GY		38
	16, WHT/RED/GY		37
	16, WHT/BRN/GY		36
	16, BLK		35
	12, WHT		34
	16, VIO		33
AR	MIL-W-16878/4 TYPE E, 12, WHT/ORN/GY	WIRE, ELEC	32
		~~FIND NO. 16 ORN~~	~~31~~
		~~FIND NO. 16 RED~~	~~30~~
AR	MIL-W-16878/4 TYPE E, 16 WHT/BRN/GY	WIRE, ELEC	29
	20, BLK		28
	20, WHT/BLK/GY		27
	20, WHT/BRN/GY		26
	20, WHT/RED		25
	20, WHT		24
	20, GRN		23
	20, ORN		22
	MIL-W-16878/4 TYPE E, 14, WHT/BLK/GY	WIRE, ELEC	21
	SEE NOTE 2	INSULATION, ELEC	20
	SEE NOTE 2	INSULATION, ELEC	19
	SEE NOTE 2	INSULATION, ELEC	18
	SEE NOTE 2	INSULATION, ELEC	17
AR	SEE NOTE 2	INSULATION, ELEC	16
2	MS35436-30	LUG, TERMINAL	15
13	MS25036-6	LUG, CRIMP	14
1	MS25036-1	LUG, CRIMP	13
1	MS39056-6	BUSHING	12
2	MS39056-4	BUSHING	11
2	MS39056-3	BUSHING	10
3	MS39056-2	BUSHING	9
AR	MIL-W-16878/4 TYPE E, [illegible]	WIRE, ELEC	8
1	MS3057-24	CLAMP	7
1	MS3057-12	CLAMP	6
1	MS3106A-20-4S	CONNECTOR, RECEPTACLE	5
2	MS3126F-10-6S	CONNECTOR, RECEPTACLE	4
1	MS3126F-16-8S	CONNECTOR, RECEPTACLE	3
1	MS3126F-22-55S	CONNECTOR, RECEPTACLE	2
1	MS3106A-36-9P	CONNECTOR, PLUG	1

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.030 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

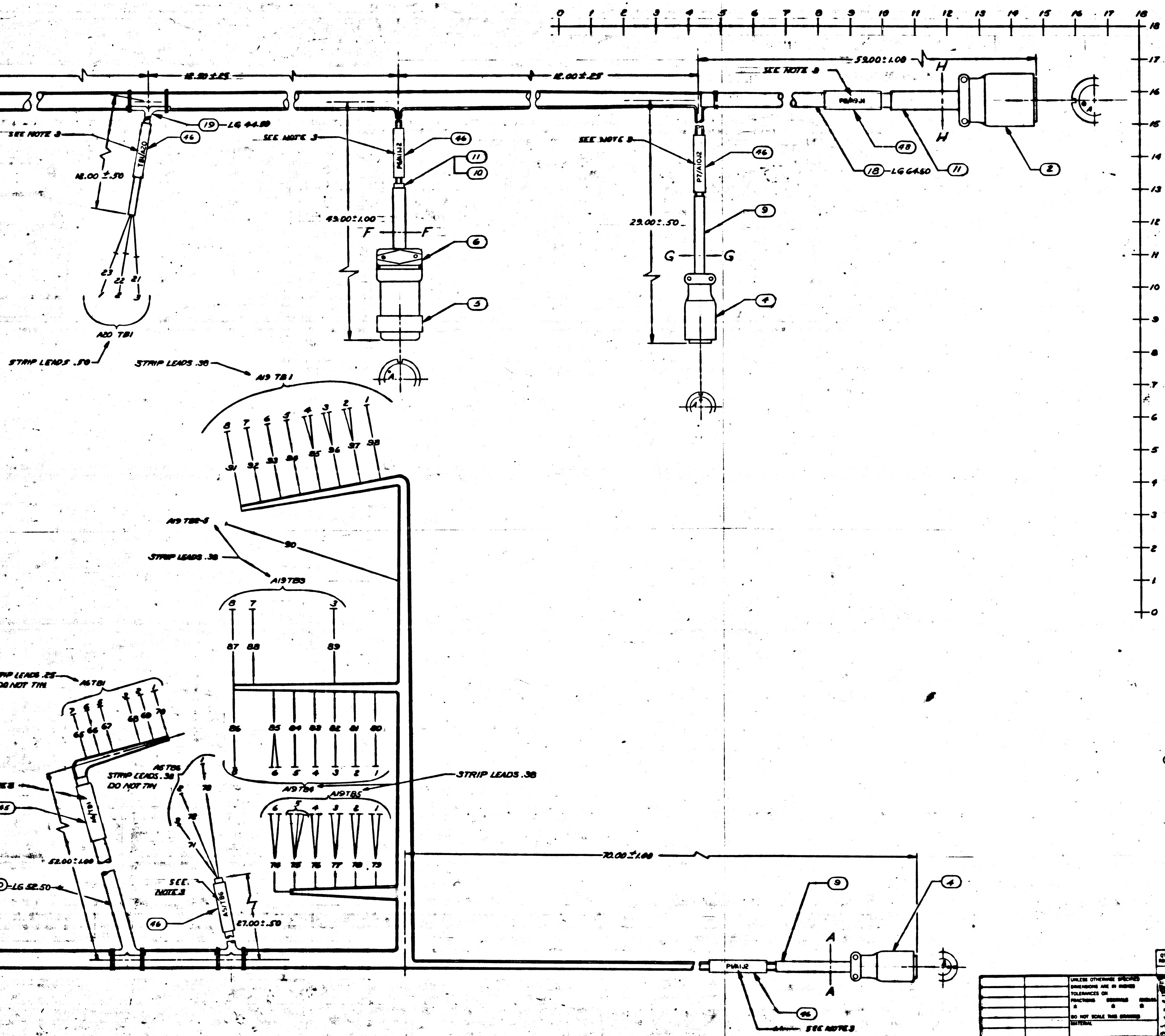
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS,
POWER DISTRIBUTION
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
DWG NO. 1014481
SCALE
WT
SHEET

1014481

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06682 DR. CHK APPD	64	KB
B	CHANGED PER TDRR 07548 DR. CHK. Q.B.C APPD	64	KB
C	CHANGED PER TDRR 08922 CHK APPD	64	KB



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18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
12.50 ± .25
12.00 ± .25
52.00 ± 1.00
SEE NOTE 3
H
H
19 - LG 44.50
46
TB/A20
SEE NOTE 3
46
P8/A1J2
11
10
SEE NOTE 3
P7/A10J2
46
P8/A9J1
48
18 - LG 64.50
11
2
18.00 ± .50
43.00 ± 1.00
F
F
6
5
29.00 ± .50
9
G
G
4
23 22 21
2 3
A20 TB1
STRIP LEADS .50
STRIP LEADS .38
A19 TB1
8 7 6 5 4 3 2 1
91 92 93 94 95 96 97 98
A19 TB2-5
90
STRIP LEADS .38
A19TB3
8 7 3
87 88 89
STRIP LEADS .25
DO NOT TIN
A6TB1
2 3 4 5 6 7
65 66 67 68 69 70
86 85 84 83 82 81 80
8 6 5 4 3 2 1
A6TB5
STRIP LEADS .38
DO NOT TIN
1
78
2
72
3
71
A19TB4
A19TB5
STRIP LEADS .38
6 5 4 3 2 1
74 75 76 77 78 79
SEE NOTE 3
45
P6/A1J
52.00 ± 1.00
SEE NOTE 3
20 - LG 52.50
SEE NOTE 3
A5/J86
46
27.00 ± .50
70.00 ± 1.00
9
4
A
A
P1/A1J2
46
SEE NOTE 3

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 01306 DATE 11/20/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

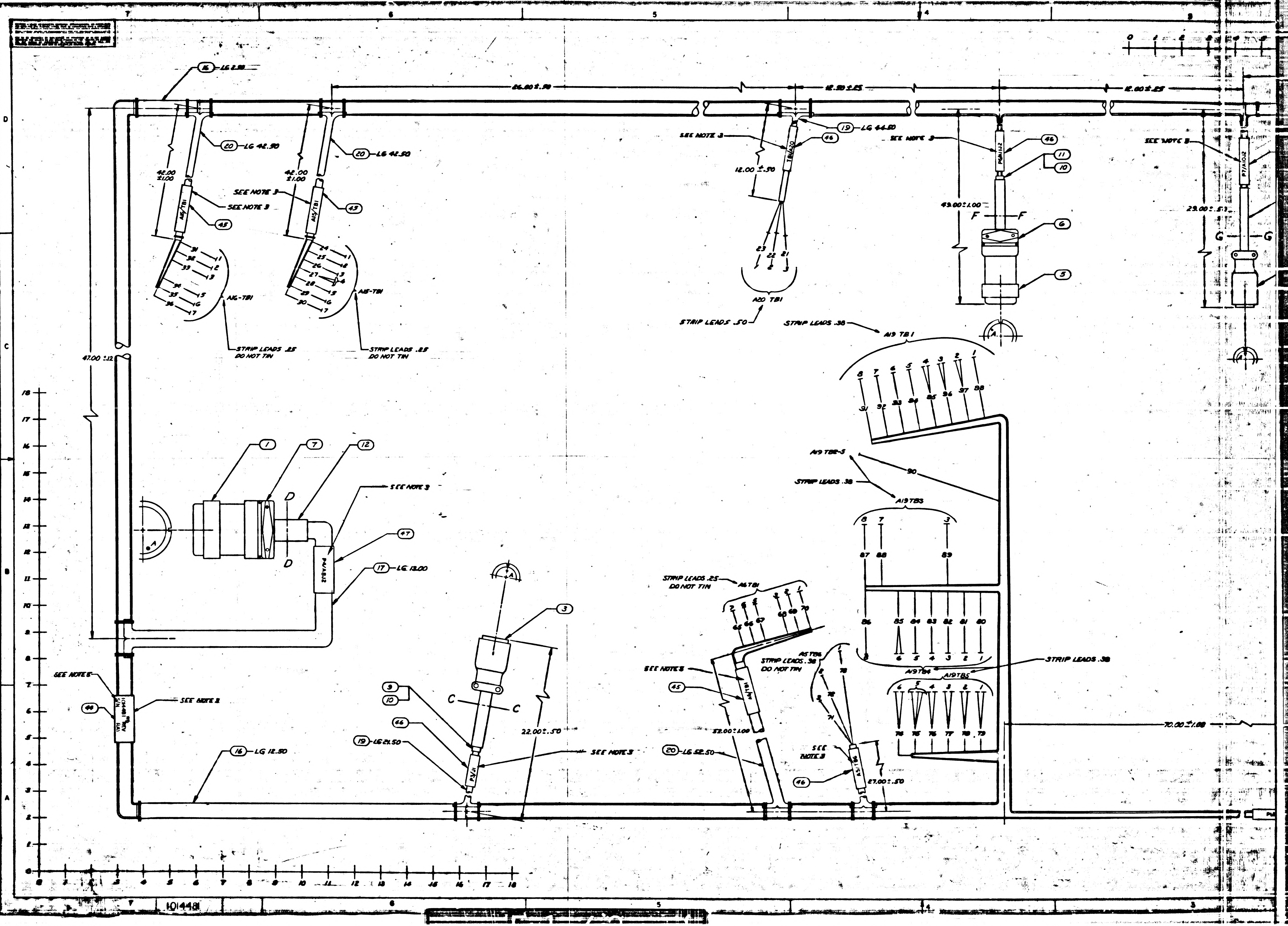
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-497
DRAWN DATE
CHECKED 10-1-63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
APPROVAL 3/20/63
APPROVAL 4/6

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
POWER DISTRIBUTION
COMPUTER TEST SET

CODE IDENT NO —
SIZE J
NASA DRAWING NO. 1014481
SCALE 1/1
WT
SHEET 2 OF 2

1014481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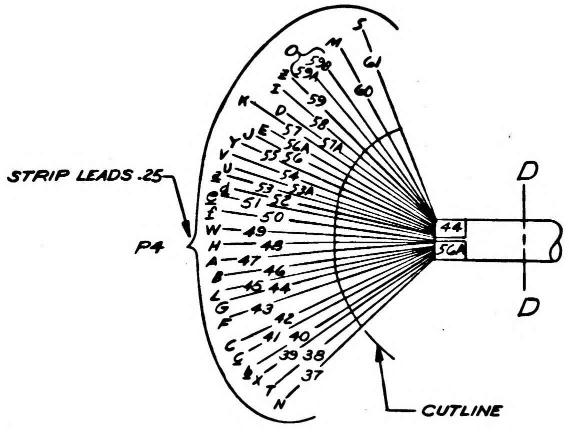
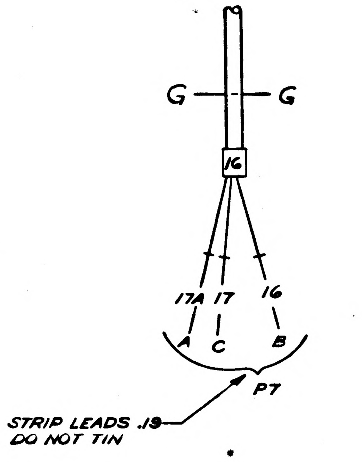
26.00 ± .50
12.50 ± .25
12.00 ± .25
20 LG 42.50
20 LG 42.50
42.00 ±1.00
42.00 ±1.00
SEE NOTE 3
SEE NOTE 3
A16/TB1
A15/TB1
45
45
31 32 33 34 35 36
1 2 3 5 6 7
A16-TB1
24 25 26 27 28 29 30
1 2 3 4 5 6 7
A15-TB1
STRIP LEADS .25 DO NOT TIN
STRIP LEADS .25 DO NOT TIN
47.00 ±.12
19 LG 44.50
SEE NOTE 3
46
TB1/A20
12.00 ±.50
23 22 21
1 2 3
A20 TB1
STRIP LEADS .50
SEE NOTE 3
46
P6/A11J2
11
10
49.00 ±1.00
F F
6
5
A
SEE NOTE 3
P7/A10J2
29.00 ±.50
G G
A
STRIP LEADS .38
A19 TB1
8 7 6 5 4 3 2 1
91 92 93 94 95 96 97 98
A19 TB2-5
90
STRIP LEADS .38
A19TB3
8 7 3
87 88 89
86 85 84 83 82 81 80
8 6 5 4 3 2 1
A19TB4
A19TB5
STRIP LEADS .38
6 5 4 3 2 1
74 75 76 77 78 79
70.00 ±1.00
1
7
A
12
D D
SEE NOTE 3
47
P4/A8J2
17 LG 13.00
A
3
9
10
C C
46
19 LG 21.50
P3/J1
22.00 ±.50
SEE NOTE 3
SEE NOTE 5
44
1014481 REV S/N RAY
SEE NOTE 3
16 LG 12.50
STRIP LEADS .25 DO NOT TIN
A6TB1
2 6 5 4 2 1
65 66 67 68 69 70
SEE NOTE 3
45
A6/TB1
52.00 ±1.00
20 LG 52.50
A5TB6
STRIP LEADS .38 DO NOT TIN
1 2 3
73 72 71
SEE NOTE 3
A5/TB6
46
27.00 ±.50
0 1 2 3 4 5
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
7 6 5 4 3
D C B A
101448I

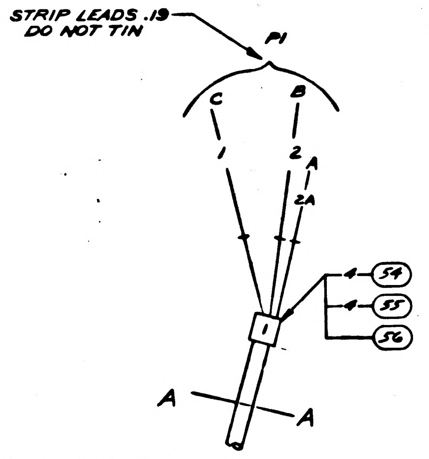
[illegible]

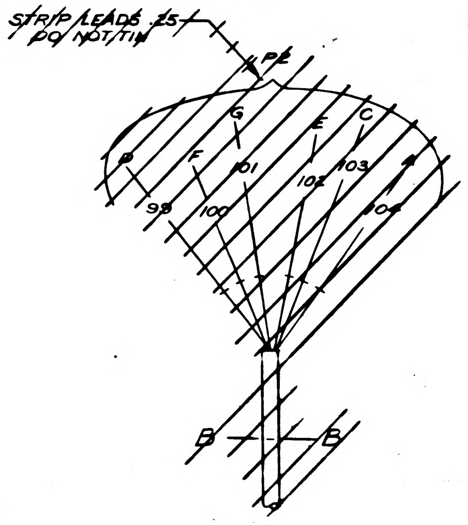
REVISIONS

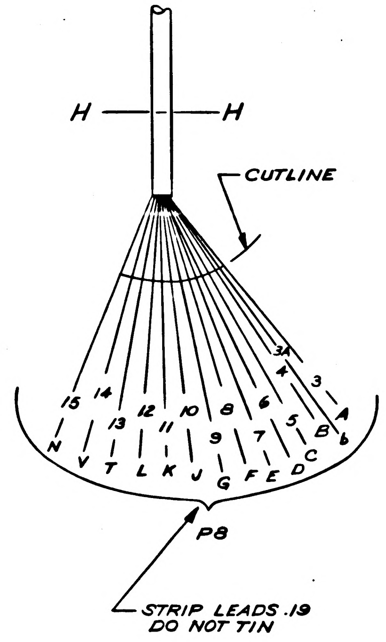
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06682 DR. Ken Buell CHK. J. J. APPD.	3 MAR 64	KB
B	CHANGED PER TDRR 07548 DR. Ken Buell CHK. G. G.C. APPD.	23 APR 64	KEB
C	CHANGED PER TDRR 08922 Joe Ahearn CHK. APPD	20 MAY 64	KLA
D	CHANGED PER TDRR 11300 DR CHaywood CHK G. G.C. APPD	7 AUG 64	KLA

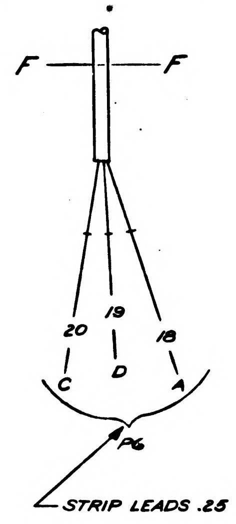


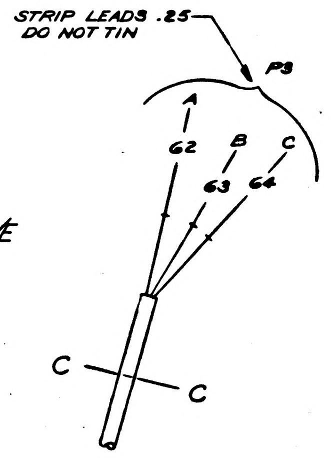


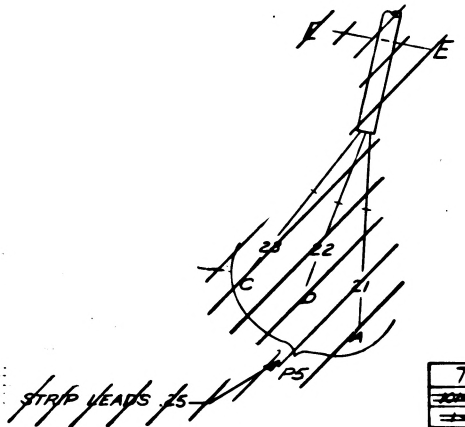












ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	88	ORN	20	22	13	
	9				87	
	94	GRN		23	26	ATTACH FIND NO.13
	37	WHT	12	34	92	
	93	WHT	20	24	27	ATTACH FIND NO.14
	91	WHT/RED		25	14	
	8				86	
	~~2~~				~~103~~	
	~~101~~	~~[illegible]~~			~~16~~	
	~~104~~				~~[illegible]~~	
	41	WHT/BRN/GY		26	3	
	~~1~~				~~[illegible]~~	
	~~100~~				~~17~~	
	~~102~~				~~37~~	
	76	WHT/BLK/GY		27	7	
	98	BLK		28	15	
	47	WHT/BRN/GY		26	5	
	6	WHT/BRN/GY			46	
	43	WHT/BRN/GY			4	
	51	RED	20	50	11	
	57	ORN	12	41	33	ATTACH FIND NO.52
	52	ORN	20	22	10	
	97	VIO	16	33	30	ATTACH FIND NO.14
	95				36	ATTACH FIND NO.14
ATTACH FIND NO.14	29				97	
	95		16		35	ATTACH FIND NO.14
	27	WHT	12	~~34~~	45	
	50	WHT	20	24	12	
	80	BLK	16	35	28	ATTACH FIND NO.14
	71				85	
	85				62	
	83				20	
	23				84	
	81				67	ATTACH FIND NO.14
ATTACH FIND NO.14	34				82	
ATTACH FIND NO.14	31	WHT/BRN/GY	16	36	42	SEE TWIST CHART
ATTACH FIND NO.52	24	WHT/RED/GY	12	51	39	SEE TWIST CHART
SEE TWIST CHART	40	WHT/RED/GY	16	37	21	
	64	WHT/RED/GY			49	
	18	WHT/ORN/GY		38	53	
	63	WHT/BLK/GY		39	79	
	79				22	
	19				77	
* ATTACH FIND NO.14	25				75	
	76				59	
ATTACH FIND NO.14	32		16		78	SEE TWIST CHART
	89	RED	12	40	38	
	58				68	ATTACH FIND NO.52
	90	ORN	12	41	55	
	96	VIO	14	43	65	ATTACH FIND NO.14
	96				66	ATTACH FIND NO.14
	73	WHT/RED/GY		8	61	
SEE TWIST CHART	72	WHT/BLK/GY	14	21	75	
ATTACH FIND NO.15	70	WHT/ORN/GY	12	32	54	SEE TWIST CHART
	75	WHT/BLK/GY		42	56	
* ATTACH FIND NO.15	69				74	SEE TWIST CHART
	74				48	
	78		12		60	
	1	WHT	20	53	44	
	2	BLK			57A	
ATTACH FIND NO.28 LG 2"	2A	SHLD			59A	ATTACH FIND NO.28 LG 2"
	56A	WHT			16	
	53A	BLK			17	
ATTACH FIND NO 28 LG 2"	17A	SHLD			59B	ATTACH FIND NO.28 LG 2"
	3A	WHT/BLK/GY	20	27	77	

* SEE TWIST CHART

D	C
C	C
B	B
A	A
—	—
SH 1	SH 2
REV STATUS OF SHEETS	

NOTES

1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032.
2. MIL-I-631 TYPE F, FORM U2, GRADE A, CLASS I, CATEGORY I, COLOR WHT, FOR FIND NO.16 AWG .750 IN., FOR FIND NO.17 AWG 0.625 IN., FOR FIND NO.18 0.4375 IN., FOR FIND NO.19 AWG NO.2, FOR FIND NO. 20 AWG NO. 0.375 IN.
3. BOND USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
4. SOLDER PER MIL-S-6872.
5. MARK .08 HIGH BLK CHARACTERS PER ND1002023.
6. MIL-I-23053, CLI, COLOR BLK, FOR FIND NO.56 SIZE NO.6

TWIST CHART

~~[illegible]~~	~~WITH~~	~~[illegible]~~
~~1-99~~	~~WITH~~	~~2-103~~
~~102-77~~	~~WITH~~	~~[illegible]~~
24-39	WITH	25-75
70-54	WITH	69-74
31-42	WITH	32-78
18-53	WITH	19-77
40-21	WITH	79-22
73-61	WITH	72-75
63-79	WITH	64-49
3A-77	WITH	3-41

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04906 DATE 10/30/63

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1020019	SCHEMATIC	REF
AR	SEE NOTE 6	SLEEVING	56
4	1000242-15	FERRULE, ELECTRICAL COND.	55
4	1000243-14	FERRULE, ELECTRICAL COND.	54
AR	ND1002101, TYPE II, CLASS 4, 20, [illegible]	WIRE, ELEC	53
3	MS25036-11	LUG, CRIMP	52
AR	MIL-W-16878/4, TYPE E, 12, WHT/RED/GY	WIRE, ELEC	51
AR	MIL-W-16878/4, TYPE E, 20, RED	WIRE, ELEC	50
~~[illegible]~~	~~[illegible]~~	~~WIRE, ELEC~~	~~49~~
1	1014472-3A	MARKER, BAND	48
1	1014472-4A	MARKER, BAND	47
6	1014472-1A	MARKER, BAND	46
3	1014472-2A	MARKER, BAND	45
1	1014472-3	MARKER, BAND	44
AR	MIL-W-16878/4 TYPE E, 14, VIO	WIRE, ELEC	43
	12, WHT/BLK/GY		42
	12, ORN		41
	12, RED		40
	16, WHT/BLK/GY		39
	16, WHT/ORN/GY		38
	16, WHT/RED/GY		37
	16, WHT/BRN/GY		36
	16, BLK		35
	12, WHT		34
	16, VIO		33
AR	MIL-W-16878/4 TYPE E, 12, WHT/ORN/GY	WIRE, ELEC	32
		~~AWG NO 16 ORN~~	~~31~~
		~~AWG NO 16 RED~~	~~30~~
AR	MIL-W-16878/4 TYPE E, 14, WHT/[illegible]/GY	WIRE, ELEC	29
	20, BLK		28
	20, WHT/BLK/GY		27
	20, WHT/BRN/GY		26
	20, WHT/RED		25
	20, WHT		24
	20, GRN		23
	20, ORN		22
	MIL-W-16878/4 TYPE E, 14, WHT/BLK/GY	WIRE, ELEC	21
	SEE NOTE 2	INSULATION, ELEC	20
	SEE NOTE 2	INSULATION, ELEC	19
	SEE NOTE 2	INSULATION, ELEC	18
	SEE NOTE 2	INSULATION, ELEC	17
AR	SEE NOTE 2	INSULATION, ELEC	16
2	MS35436-30	LUG, TERMINAL	15
13	MS25036-6	LUG, CRIMP	14
1	MS25036-1	LUG, CRIMP	13
1	MS39056-6	BUSHING	12
2	MS39056-4	BUSHING	11
2	MS39056-3	BUSHING	10
3	MS39056-2	BUSHING	9
AR	MIL-W-16878/4 TYPE E, 14, WHT/RED/GY	WIRE, ELEC	8
1	MS3057-24A	CLAMP	7
1	MS3057-12A	CLAMP	6
1	MS3106A-20-4S	CONNECTOR, RECEPTACLE	5
2	MS3126F-10-6S	CONNECTOR, RECEPTACLE	4
1	MS3126F-16-8S	CONNECTOR, RECEPTACLE	3
1	MS3126F-22-55S	CONNECTOR, RECEPTACLE	2
1	MS3106A-36-9P	CONNECTOR, PLUG	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.030 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

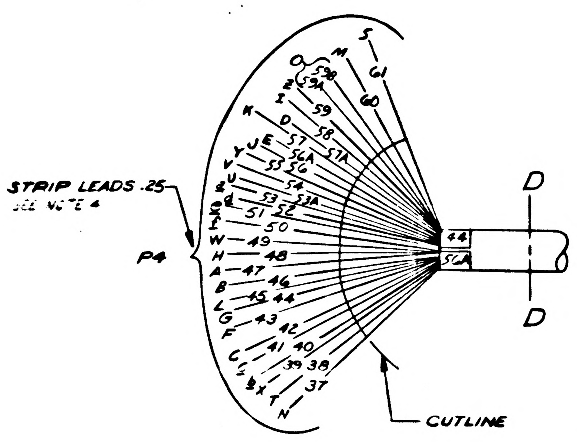
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
APPROVAL
APPROVAL

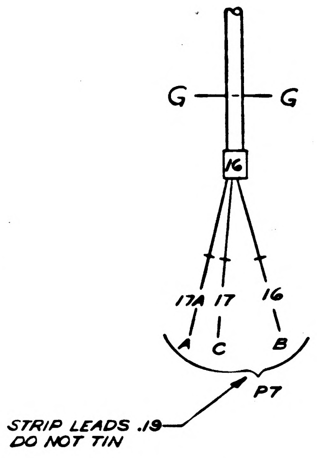
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

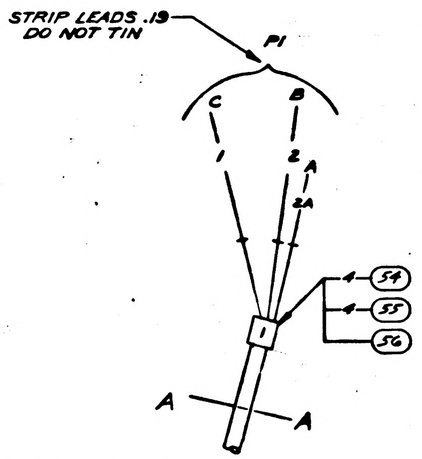
WIRING HARNESS,
POWER DISTRIBUTION
COMPUTER TEST SET

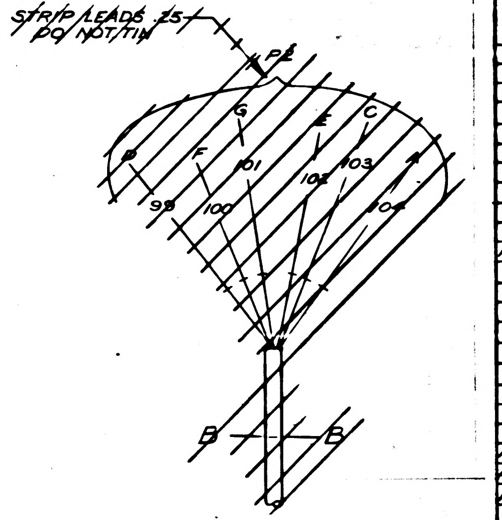
CODE IDENT NO —— SIZE J NASA DRAWING NO 1014481
SCALE 1/1 WT SHEET 1 OF 2

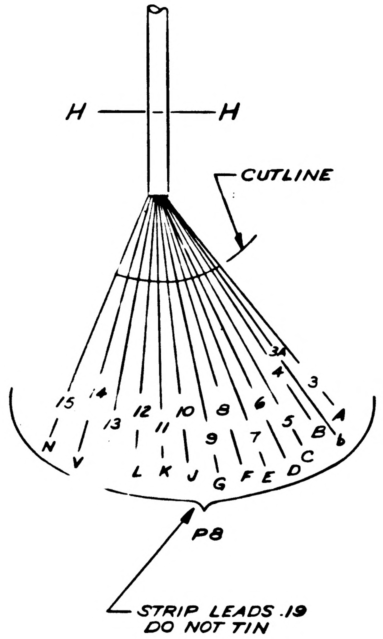
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06682 DR. Ken Budd CHK. APPD.	3 MAR 64	KB
B	CHANGED PER TDRR 07548 DR. Ken Budd CHK. G.S.C. APPD	23 APR 64	
C	CHANGED PER TDRR 08928 CHK. APPD	20 MAY 64	
D	CHANGED PER TDRR 11300 DR C Hayward CHK G.C. APPD	7 AUG 64	
E	CHANGED PER TDRR 14034 DR CHK APPD	18 NOV 64	
F	CHANGED PER TDRR 20616 DR CHK APPD	19 AUG 65	

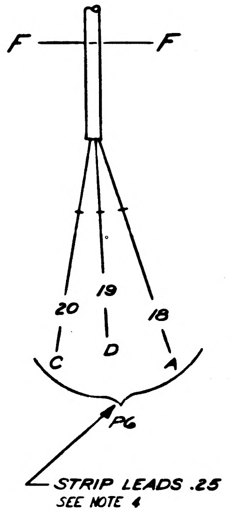


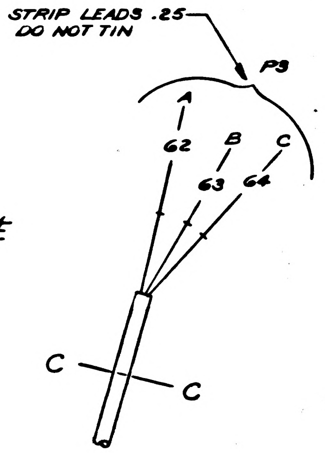


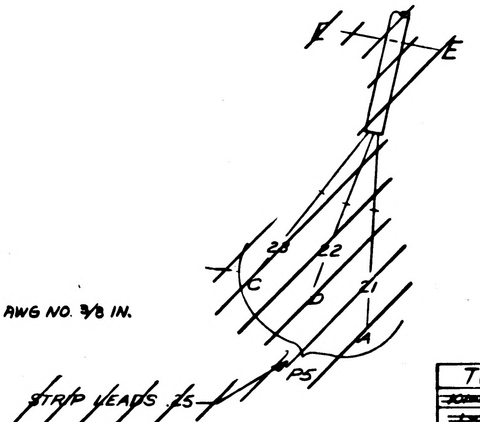












ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	88	ORN	20	22	13	
	9				87	
	94	GRN		23	26	ATTACH FIND NO.13
	37	WHT	12	34	92	
	93	WHT	20	24	27	ATTACH FIND NO 52
	91	WHT/RED		25	14	
	8				86	
	~~2~~	~~[illegible]~~			~~103~~	
	~~101~~				~~16~~	
	~~104~~				[illegible]	
	41	WHT/BRN/GY		26	3	
	~~1~~				[illegible]	
	~~100~~				~~17~~	
	~~102~~				~~77~~	
	76	WHT/BLK/GY		27	7	
	98	BLK		28	15	
	47	WHT/BRN/GY		26	5	
	6	WHT/BRN/GY			46	
	43	WHT/BRN/GY			4	
	51	RED	20	50	11	
	57	ORN	12	41	33	ATTACH FIND NO.52
	52	ORN	20	22	10	
	97	VIO	16	33	30	ATTACH FIND NO.14
	95				36	ATTACH FIND NO.14
ATTACH FIND NO.14	29				97	
	95		16		35	ATTACH FIND NO.14
	27	WHT	12	34	45	
	50	WHT	20	29	12	
	80	BLK	16	35	28	ATTACH FIND NO.14
	71				85	
	85				62	
	83				20	
	23				84	
	81				67	ATTACH FIND NO.14
ATTACH FIND NO.14	34				82	
ATTACH FIND NO.14	31	WHT/BRN/GY	16	36	42	SEE TWIST CHART
ATTACH FIND NO.52	24	WHT/RED/GY	12	51	39	SEE TWIST CHART
SEE TWIST CHART	40	WHT/RED/GY	16	37	21	
	64	WHT/RED/GY			49	
	18	WHT/ORN/GY		38	53	
	63	WHT/BLK/GY		39	79	
	79				22	
	19				77	
* ATTACH FIND NO.14	25				75	
	76				59	
ATTACH FIND NO.14	32		16		78	SEE TWIST CHART
	89	RED	12	40	38	
	58				68	ATTACH FIND NO.52
	90	ORN	12	41	55	
	96	VIO	14	43	65	ATTACH FIND NO.14
	96				66	ATTACH FIND NO.14
	73	WHT/RED/GY		8	61	
SEE TWIST CHART	72	WHT/BLK/GY	14	21	75	
ATTACH FIND NO.15	70	WHT/ORN/GY	12	32	54	SEE TWIST CHART
	75	WHT/BLK/GY		42	56	
* ATTACH FIND NO.15	69				74	SEE TWIST CHART
	74				48	
	78		12		60	
	1	WHT	20	53	44	
	2	BLK			57A	
ATTACH FIND NO.28 LG 2"	2A	SHLD			59A	ATTACH FIND NO 28 LG 2"
	56A	WHT			16	
	53A	BLK			17	
ATTACH FIND NO 28 LG 2"	17A	SHLD			59B	ATTACH FIND NO. 28 LG 2"
	3A	WHT/BLK/GY	20	27	77	

* SEE TWIST CHART

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
☒	1020019	SCHEMATIC	REF
AR	1006253	ADHESIVE	57
0.5	SEE NOTE 6	SLEEVING	56
4	1000242-15	FERRULE, ELECTRICAL COND.	55
4	1000243-14	FERRULE, ELECTRICAL COND.	54
* 28.0	MIL-C-27500, 20, D, 2, S, 6	WIRE, ELEC, WHT & BLK	53
4	MS25036-11	LUG, CRIMP	52
* 12.0	MIL-W-16878, TYPE E, 12, WHT/RED/GY	WIRE, ELEC	51
* 20	MIL-W-16878, TYPE E, 20, RED	WIRE, ELEC	50
~~AR~~	[illegible]	~~WIRE, ELEC~~	~~49~~
2	1014472-3A	MARKER, BAND	48
1	1014472-4A	MARKER, BAND	47
6	1014472-1A	MARKER, BAND	46
3	1014472-2A	MARKER, BAND	45
~~1~~	~~1014472-3~~	~~MARKER, BAND~~	~~44~~
* 20	MIL-W-16878 TYPE E, 14, VIO	WIRE, ELEC	43
* 33.0	12, WHT/BLK/GY		42
* 20.0	12, ORN		41
* 14.0	12, RED		40
* 87.0	16, WHT/BLK/GY		39
* 16.0	16, WHT/ORN/GY		38
* 18.0	16, WHT/RED/GY		37
* 9.5	16, WHT/BRN/GY		36
* 80.0	16, BLK		35
* 34.0	12, WHT		34
* 66.0	16, VIO		33
* 15.0	MIL-W-16878 TYPE E, 12, WHT/ORN/GY	WIRE, ELEC	32
		~~AWG NO 16 ORN~~	~~31~~
		~~AWG NO 16 RED~~	~~30~~
~~AR~~	[illegible]	~~WIRE, ELEC~~	~~29~~
* 25.0	MIL-W-16878 TYPE E, 20, BLK	WIRE, ELEC	28
* 50.0	20, WHT/BLK/GY		27
* 66.0	20, WHT/BRN/GY		26
* 45.0	20, WHT/RED		25
* 35.0	20, WHT		24
* 15.0	20, GRN		23
* 50.0	20, ORN		22
* 5.0	MIL-W-16878 TYPE E, 14, WHT/BLK/GY	WIRE, ELEC	21
* 14.0	SEE NOTE 2	INSULATION, ELEC	20
* 6.0	SEE NOTE 2	INSULATION, ELEC	19
* 6.0	SEE NOTE 2	INSULATION, ELEC	18
* 1.5	SEE NOTE 2	INSULATION, ELEC	17
* 1.5	SEE NOTE 2	INSULATION, ELEC	16
2	MS35436-30	LUG, TERMINAL	15
12	MS25036-6	LUG, CRIMP	14
1	MS25036-1	LUG, CRIMP	13
1	MS39056-6	BUSHING	12
2	MS39056-4	BUSHING	11
2	MS39056-3	BUSHING	10
3	MS39056-2	BUSHING	9
* 10.0	MIL-W-16878 TYPE E, 14, WHT/RED/GY	WIRE, ELEC	8
1	MS3057-24A	CLAMP	7
1	MS3057-12A	CLAMP	6
1	MS3106A-20-4S	CONNECTOR, RECEPTACLE	5
2	MS3126F-10-6S	CONNECTOR, RECEPTACLE	4
1	MS3126F-16-8S	CONNECTOR, RECEPTACLE	3
1	MS3126F-22-55S	CONNECTOR, RECEPTACLE	2
1	MS3106A-36-9P	CONNECTOR, PLUG	1

LIST OF MATERIALS

* DENOTES LENGTH IN FEET

NOTES

1. FOR FABRICATION SEE ND1002032.
2. MIL-I-631 TYPE F, FORM U2, GRADE A, CLASS I, CATEGORY I, FOR FIND NO. 16 AWG 3/4 IN., FOR FIND NO. 17 AWG 5/8 IN., FOR FIND NO. 18 7/16 IN., FOR FIND NO. 19 AWG NO. 2, FOR FIND NO. 20 AWG NO. 3/8 IN.
3. BOND USING FIND NO 57 APPROX AS SHOWN.
4. SOLDER PER ND1002071.
5. MARK GOTHIC CHARACTERS PER ND1002019 USING BLACK INK 1006256-001.
6. MIL-I-23053, CL1, COLOR BLK, FOR FIND NO. 56 SIZE NO. 6
7. CRIMP PER ND1002206
8. SERIALIZE PER ND1002023
9. AR DENOTES AS REQUIRED
10. CUT SLEEVING APPROX AS SHOWN

TWIST CHART		
~~[illegible]~~	~~WITH~~	~~[illegible]~~
~~[illegible]~~	~~WITH~~	~~[illegible]~~
~~[illegible]~~	~~WITH~~	~~[illegible]~~
24-39	WITH	25-75
70-54	WITH	69-74
31-42	WITH	32-78
18-53	WITH	19-77
40-21	WITH	79-22
73-61	WITH	72-75
63-79	WITH	64-49
3A-77	WITH	3-41

1020341	
1014156	~~[illegible]~~
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.030 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

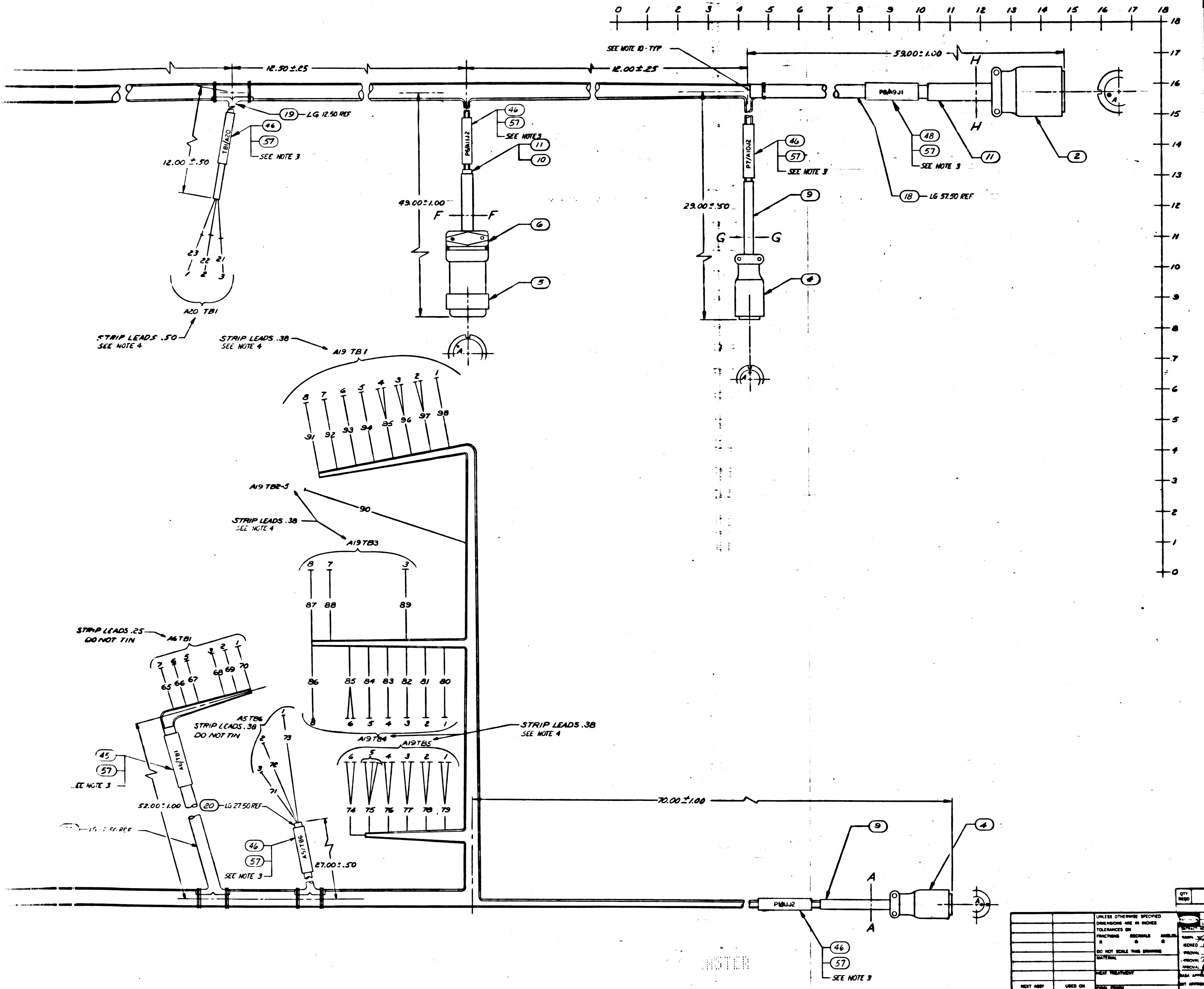
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
NE APPROVAL
NE APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS,
POWER DISTRIBUTION
COMPUTER TEST SET

CODE IDENT NO 49956
SIZE J
NASA DRAWING NO 1014481
SCALE 1/1
WT
SHEET 1 OF 2

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06682 DR. Ken Budd CHK for J.J APPD	3 MAR 64	KB
B	CHANGED PER TDRR 07548 DR Ken Budd CHK G.G.C APPD	23 APR 64	KB
C	CHANGED PER TDRR 08922 CHK APPD	20 MAY 64	KB
E	CHANGED PER TDRR 14034 DR J.P. Leonard CHK APPD	18 NOV 64	KB
F	CHANGED PER TDRR 20616 DR CHK C Corcoran APPD	19 AUG 65	



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
12.50 ±.25
12.00 ±.25
SEE NOTE 10 - TYP
59.00 ±1.00
H
H
P8/A9J1
A
19 — LG 12.50 REF
TB1/A20
46
57
SEE NOTE 3
12.00 ±.50
23 22 21
1 2 3
A20 TB1
STRIP LEADS .50
SEE NOTE 4
P6/A11J2
46
57
SEE NOTE 3
11
10
49.00 ±1.00
F F
6
5
A
P7/A10J2
46
57
SEE NOTE 3
29.00 ±.50
9
G G
4
A
48
57
SEE NOTE 3
11
2
18 — LG 57.50 REF
STRIP LEADS .38
SEE NOTE 4
A19 TB1
8 7 6 5 4 3 2 1
91 92 93 94 95 96 97 98
A19 TB2-5
90
STRIP LEADS .38
SEE NOTE 4
A19TB3
8 7 3
87 88 89
86 85 84 83 82 81 80
8 6 5 4 3 2 1
STRIP LEADS .38
SEE NOTE 4
A19TB4
A19TB5
6 5 4 3 2 1
74 75 76 77 78 79
STRIP LEADS .25
DO NOT TIN
A6TB1
7 6 5 3 2 1
65 66 67 68 69 70
A6TB1
45
57
SEE NOTE 3
52.00 ±1.00
20 — LG 27.50 REF
LG REF
A5TB6
STRIP LEADS .38
DO NOT TIN
1 73
2 72
3 71
A5/TB6
46
57
SEE NOTE 3
27.00 ±.50
70.00 ±1.00
9
4
A A
P11/A1J2
46
57
SEE NOTE 3

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIAL

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
APPROVAL
APPROVAL

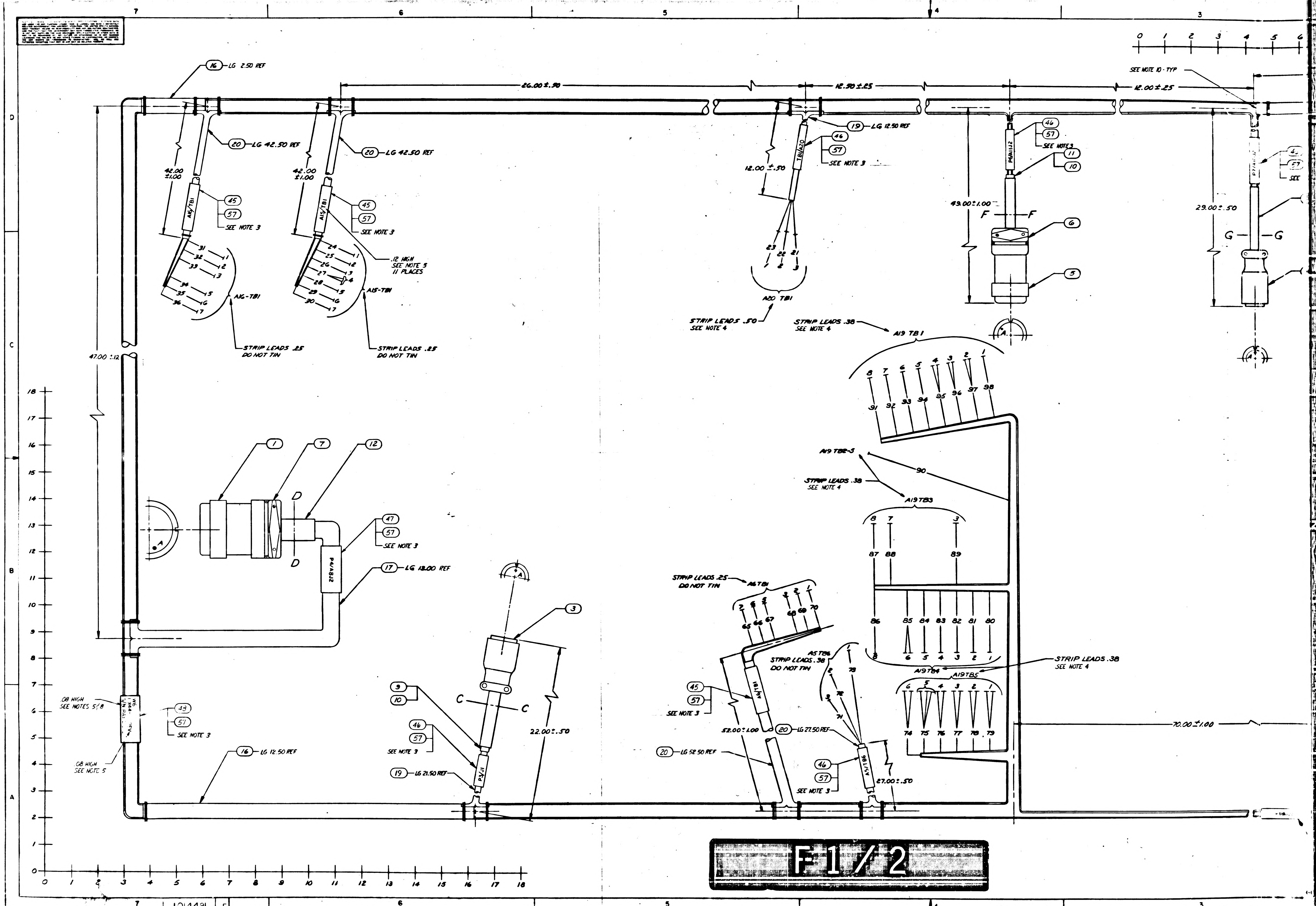
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
POWER DISTRIBUTION
COMPUTER TEST SET

CODE IDENT NO	SIZE	NASA DRAWING NO
49956	J	1014481
SCALE 1/1	WT	SHEET 2 OF 2

1014481

F 2/2

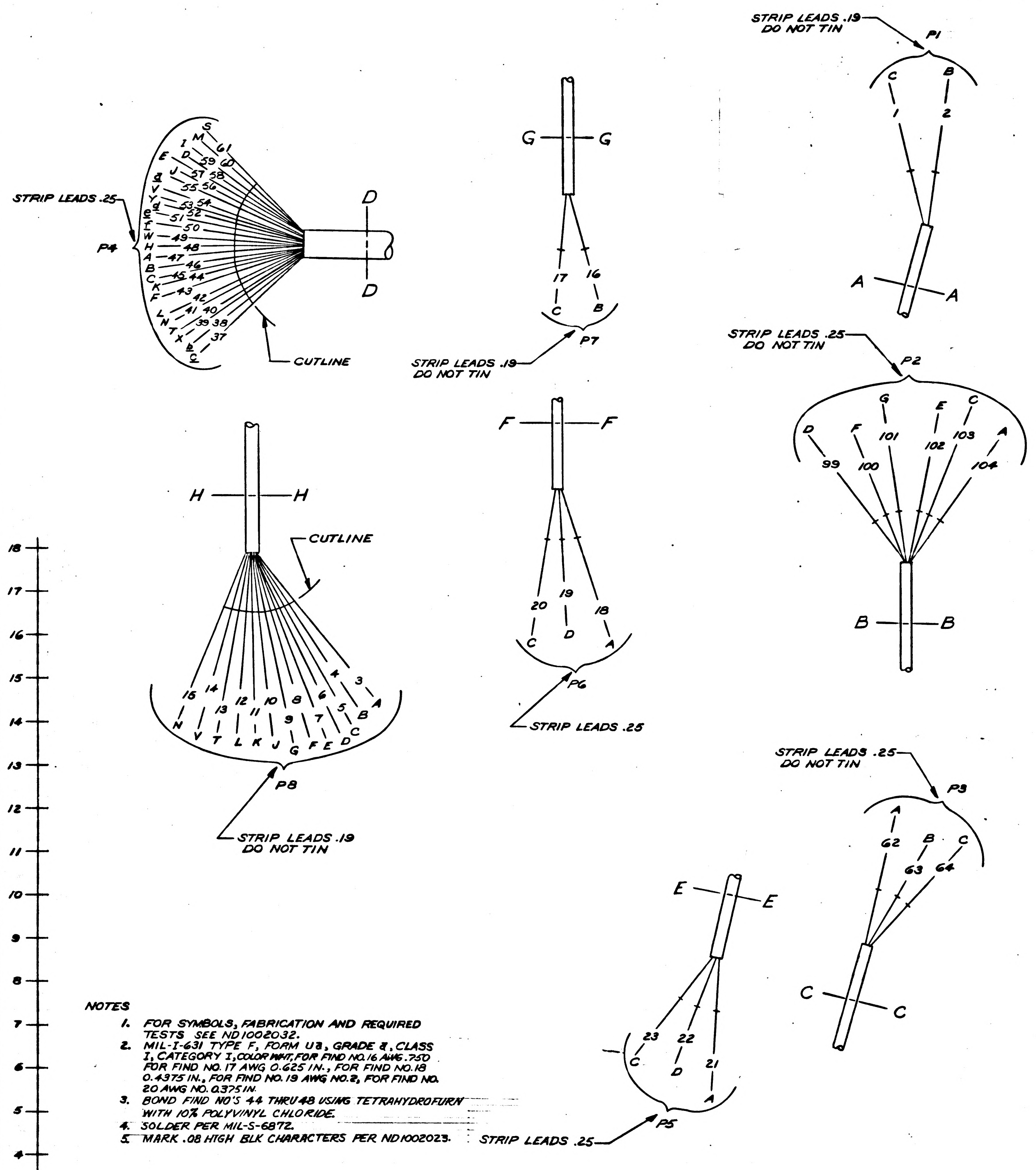


16 LG 2.50 REF
26.00 ± .50
12.50 ± .25
12.00 ± .25
SEE NOTE 10 - TYP
20 LG 42.50 REF
20 LG 42.50 REF
42.00 ±1.00
42.00 ±1.00
A16/TB1
A15/TB1
45
57
SEE NOTE 3
31 32 33 34 35 36
1 2 3 5 6 7
A16-TB1
24 25 26 27 28 29 30
1 2 3 4 5 6 7
A15-TB1
.12 HIGH SEE NOTE 5 11 PLACES
STRIP LEADS .25 DO NOT TIN
19 LG 12.50 REF
46
57
SEE NOTE 3
TB1/A20
12.00 ± .50
23 22 21
1 2 3
A20 TB1
STRIP LEADS .50 SEE NOTE 4
P6/A11J2
SEE NOTE 3
11
10
6
5
43.00 ± 1.00
F F
29.00 ± .50
G G
STRIP LEADS .38 SEE NOTE 4
A19 TB1
8 7 6 5 4 3 2 1
91 92 93 94 95 96 97 98
A19 TB2-5
90
STRIP LEADS .38 SEE NOTE 4
A19TB3
8 7 3
87 88 89
86 85 84 83 82 81 80
8 6 5 4 3 2 1
A19TB4
A19TB5
6 5 4 3 2 1
74 75 76 77 78 79
STRIP LEADS .38 SEE NOTE 4
70.00 ± 1.00
47.00 ± .12
1
7
12
D D
47
57
SEE NOTE 3
P4/A8J2
17 LG 13.00 REF
3
C C
9
10
46
57
SEE NOTE 3
P3/J1
19 LG 21.50 REF
22.00 ± .50
.08 HIGH SEE NOTES 5, 8
.08 HIGH SEE NOTE 5
49
51
SEE NOTE 3
16 LG 12.50 REF
STRIP LEADS .25 DO NOT TIN
A6TB1
7 6 5 3 2 1
65 66 67 68 69 70
A5TB6
STRIP LEADS .38 DO NOT TIN
A6/TB1
45
57
SEE NOTE 3
52.00 ± 1.00
20 LG 27.50 REF
20 LG 52.50 REF
1 73 2 72 3 71
A5/TB6
46
57
SEE NOTE 3
27.00 ± .50
0 1 2 3 4 5 6
7 6 5 4 3
D C B A

F1/2

1014481 F SH 2/2

SYM	REVISIONS DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		


STRIP LEADS .25
P4
S M I 61 E D 60 59 58 Z J 57 56 55 V Y 54 53 52 R 51 50 U 49 48 W H 47 A 46 B 45 44 C 43 K 42 F L 41 40 N 39 38 T X 37 P
D
D
CUTLINE
G
G
17 16 C B
STRIP LEADS .19 DO NOT TIN
P7
STRIP LEADS .19 DO NOT TIN
P1
C B 1 2
A
A
STRIP LEADS .25 DO NOT TIN
P2
D F G 101 E C 102 103 A 99 100 104
B
B
H
H
CUTLINE
15 14 13 12 11 10 9 8 7 6 5 4 3 N V T L K J G F E D C B A
P8
STRIP LEADS .19 DO NOT TIN
F
F
20 19 18 C D A
P6
STRIP LEADS .25
STRIP LEADS .25 DO NOT TIN
P3
A 62 B C 63 64
C
C
E
E
23 22 21 C D A
P5
STRIP LEADS .25

NOTES

1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032.
2. MIL-I-631 TYPE F, FORM U8, GRADE 8, CLASS I, CATEGORY I, COLOR WHT, FOR FIND NO.16 AWG .750 FOR FIND NO. 17 AWG 0.625 IN., FOR FIND NO.18 0.4375 IN., FOR FIND NO. 19 AWG NO.2, FOR FIND NO. 20 AWG NO. 0.375 IN.
3. BOND FIND NO'S 44 THRU 48 USING TETRAHYDROFURN WITH 10% POLYVINYL CHLORIDE.
4. SOLDER PER MIL-S-6872.
5. MARK .08 HIGH BLK CHARACTERS PER ND1002023.

Solder / MIL-S-6872.

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	88	ORN	20	22	13	
	9				87	
	94	GRN		23	26	ATTACH FIND NO.13
	37	WHT		24	92	
	93				27	ATTACH FIND NO.14
	91	WHT/RED		25	14	
	8				86	
SEE TWIST CHART	2	WHT/BRN/GY		26	103	
	101				16	
	104				44	
	41				3	
SEE TWIST CHART	1	WHT/BLK/GY		27	99	
	100				17	
	102				77	
	76		20		7	
	98	BLK	18	28	15	
	47	WHT/BRN/GY		29	5	
	6				46	
	43				4	
	51	RED	16	30	11	
	57	ORN		31	33	ATTACH FIND NO.14
	52				10	
	97	VIO		33	30	ATTACH FIND NO.14
	95				36	ATTACH FIND NO.14
ATTACH FIND NO.14	29				97	
	95				35	ATTACH FIND NO.14
	27	WHT		34	45	
	50				12	
	80	BLK		35	28	ATTACH FIND NO.14
	71				85	
	85				62	
	83				20	
	23				84	
	81				67	ATTACH FIND NO.14
ATTACH FIND NO.14	34				82	
SEE TWIST CHART	31	WHT/BRN/GY		36	42	ATTACH FIND NO.14
ATTACH FIND NO.14	24	WHT/RED/GY		37	39	SEE TWIST CHART
SEE TWIST CHART	40				21	
	64				49	
	18	WHT/ORN/GY		38	53	
	63	WHT/BLK/GY		39	79	
	79				22	
	19				77	
	25				75	ATTACH FIND NO.14
	76				59	
ATTACH FIND NO.14	32		16		78	SEE TWIST CHART
	89	RED	14	40	38	
	58				68	ATTACH FIND NO.14
	90	ORN		41	55	
	96	VIO		43	65	ATTACH FIND NO.14
	96				66	ATTACH FIND NO.14
SEE TWIST CHART	73	WHT/RED/GY		8	61	
	72	WHT/BLK/GY		21	75	
	70	WHT/ORN/GY	12	32	54	ATTACH FIND NO.15
	75	WHT/BLK/GY		42	56	
SEE TWIST CHART	69				74	ATTACH FIND NO.15
	74				48	
	78				60	

TWIST CHART

101-16	WITH	100-17
1-99	WITH	2-103
102-77	WITH	104-44
24-39	WITH	25-75
70-54	WITH	69-74
31-42	WITH	32-78
18-53	WITH	19-77
40-21	WITH	79-22
73-61	WITH	72-75
63-79	WITH	64-49

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04306 DATE 10/3/63

SH 1	SH 2
—	—

REV STATUS OF SHEETS

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1014472-3A	MARKER, BAND	48
1	1014472-4A	MARKER, BAND	47
7	1014472-1A	MARKER, BAND	46
3	1014472-2A	MARKER, BAND	45
1	1014472-3	MARKER, BAND	44
AR	ND1002181 TYPE I, CL I	WIRE, ELEC, AWG NO. 14, VIO	43
		AWG NO.12, WHT/BLK/GY	42
		AWG NO. 14, ORN	41
		AWG NO. 14, RED	40
		AWG NO. 16, WHT/BLK/GY	39
		AWG NO. 16, WHT/ORN/GY	38
		AWG NO. 16, WHT/RED/GY	37
		AWG NO. 16, WHT/BRN/GY	36
		AWG NO. 16, BLK	35
		AWG NO. 16, WHT	34
		AWG NO. 16 VIO	33
		AWG NO.12, WHT/ORN/GY	32
		AWG NO.16 ORN	31
		AWG NO 16 RED	30
		AWG NO. 18 WHT/BRN/GY	29
		AWG NO. 18 BLK	28
		AWG NO. 20 WHT/BLK/GY	27
		AWG NO. 20 WHT/BRN/GY	26
		AWG NO. 20 WHT/RED	25
		AWG NO. 20 WHT	24
		AWG NO. 20, GRN	23
		AWG NO. 20 ORN	22
	ND1002181 TYPE I, CL I	WIRE, ELEC, AWG NO.14 WHT/BLK/GY	21
	SEE NOTE 2	INSULATION, ELEC	20
	SEE NOTE 2	INSULATION, ELEC	19
	SEE NOTE 2	INSULATION, ELEC	18
	SEE NOTE 2	INSULATION, ELEC	17
AR	SEE NOTE 2	INSULATION, ELEC	16
2	MS35436-30	LUG, TERMINAL	15
16	MS25036-6	LUG, CRIMP	14
1	MS25036-1	LUG, CRIMP	13
1	MS39056-6	BUSHING	12
3	MS39056-4	BUSHING	11
4	MS39056-3	BUSHING	10
6	MS39056-2	BUSHING	9
AR	ND1002181 TYPE I, CL I	WIRE, ELEC, AWG NO.14 WHT/RED/GY	8
1	MS3057-24	CLAMP	7
2	MS3057-12	CLAMP	6
2	MS3106A-20-4S	CONNECTOR, RECEPTACLE	5
2	MS3126F-10-6S	CONNECTOR, RECEPTACLE	4
2	MS3126F-16-8S	CONNECTOR, RECEPTACLE	3
1	MS3126F-22-55S	CONNECTOR, RECEPTACLE	2
1	MS3106A-36-9P	CONNECTOR, PLUG	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE
CHECKED 1-63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 30
MIT APPROVAL

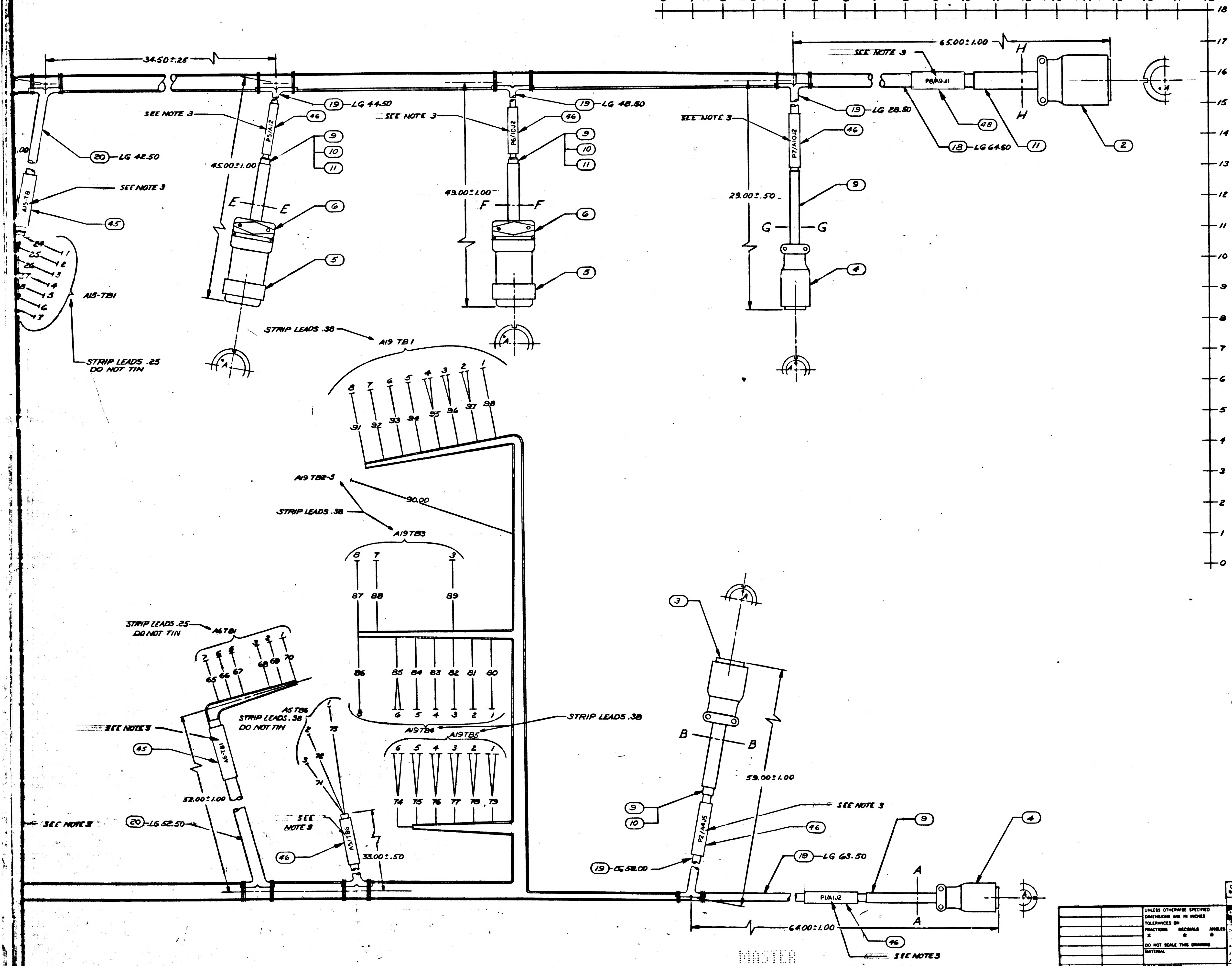
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS,
POWER DISTRIBUTION
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014481
SCALE 1/1
WT
SHEET 1 OF 2

1014481

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		



34.50±.25
19 LG 44.50
SEE NOTE 3
P5/A1J2
46
9
10
11
45.00±1.00
E E
6
5
20 LG 42.50
.00
A15-TB
SEE NOTE 3
45
24 25 26 27 28
1 2 3 4 5 6 7
A15-TB1
STRIP LEADS .25
DO NOT TIN
19 LG 48.80
SEE NOTE 3
P6/A10J2
46
9
10
11
49.00±1.00
F F
6
5
A
65.00±1.00
SEE NOTE 3
P8/A9J1
H H
19 LG 28.50
SEE NOTE 3
P7/A10J2
46
9
29.00±.50
G G
4
48
18 LG 64.50
11
2
STRIP LEADS .38
A19 TB1
8 7 6 5 4 3 2 1
91 92 93 94 95 96 97 98
A19 TB2-5
90.00
STRIP LEADS .38
A19TB3
8 7 3
87 88 89
86 85 84 83 82 81 80
8 6 5 4 3 2 1
A19TB4
A19TB5
6 5 4 3 2 1
74 75 76 77 78 79
STRIP LEADS .38
STRIP LEADS .25
DO NOT TIN
A6TB1
7 6 5 3 2 1
65 66 67 68 69 70
A5TB6
STRIP LEADS .38
DO NOT TIN
1 73
2 72
3 71
SEE NOTE 3
45
A6-TB1
52.00±1.00
SEE NOTE 3
20 LG 52.50
SEE NOTE 3
A5/TB6
46
33.00±.50
3
A
B B
59.00±1.00
9
10
SEE NOTE 3
P2/A4J5
46
19 LG 58.00
19 LG 63.50
9
4
P1/A1J2
A A
64.00±1.00
46
SEE NOTE 3
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0

MASTER

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04306 DATE 10/30/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE
CHECKED 10-8-63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS
POWER DISTRIBUTION
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014481
SCALE 1/1
WT
SHEET 2 OF 2

1014481

INCHES
PHOTOGRAPHIC SCALE ONLY

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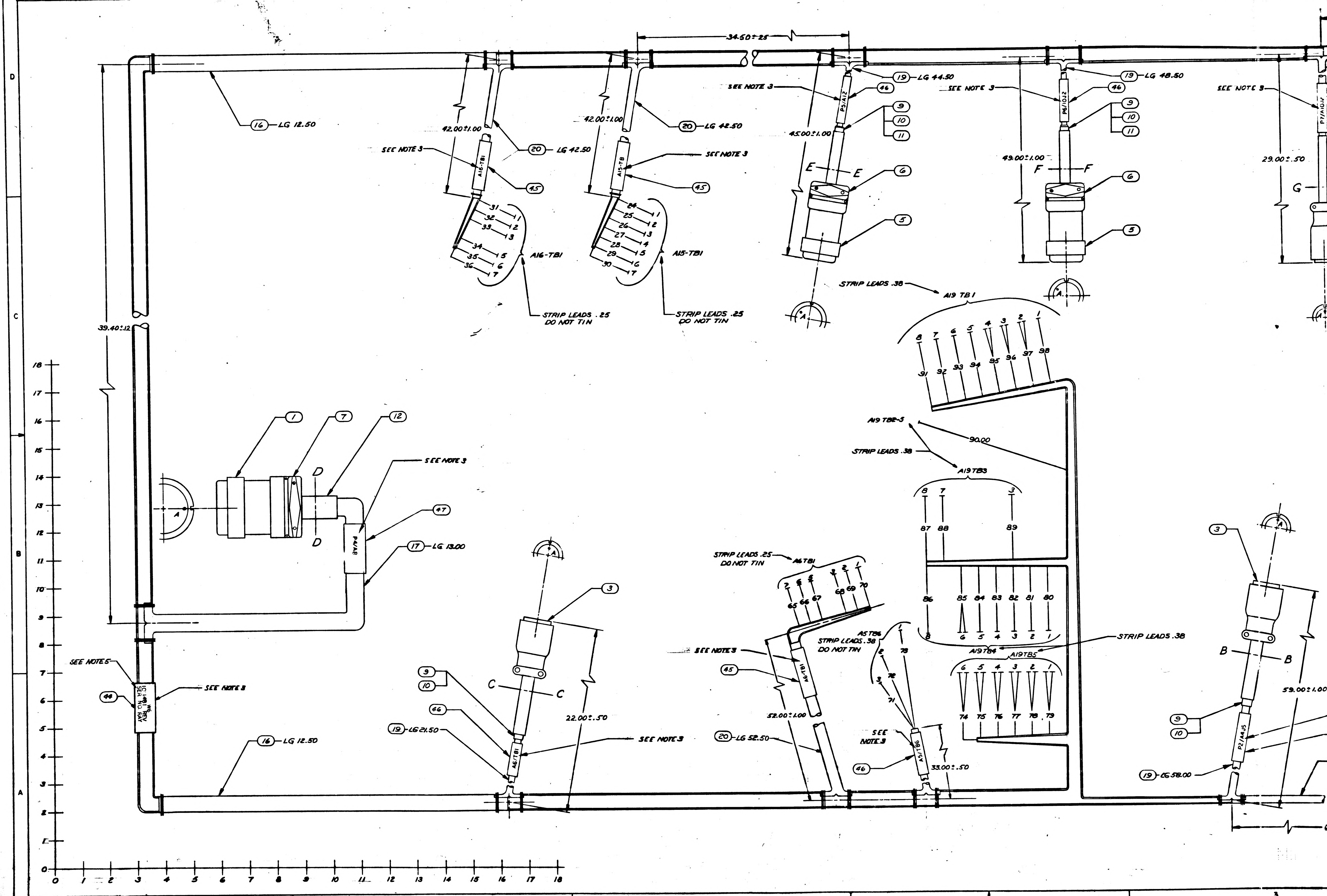
34.50±.25
16 LG 12.50
42.00±1.00
SEE NOTE 3
A16-TB1
20 LG 42.50
45
31 32 33 34 35 36
1 2 3 5 6 7
A16-TB1
STRIP LEADS .25
DO NOT TIN
A15-TB
24 25 26 27 28 29 30
1 2 3 4 5 6 7
A15-TB1
19 LG 44.50
46
P5/A12
9 10 11
45.00±1.00
E — E
6
5
A
19 LG 48.50
P6/A10J2
49.00±1.00
F — F
29.00±.50
P7/A10J
G
STRIP LEADS .38
A19 TB1
8 7 6 5 4 3 2 1
91 92 93 94 95 96 97 98
A19 TB2-5
90.00
STRIP LEADS .38
A19TB3
8 7 3
87 88 89
86 85 84 83 82 81 80
6 5 4 3 2 1
A19TB4
A19TB5
6 5 4 3 2 1
74 75 76 77 78 79
STRIP LEADS .38
39.40±.12
1
7
12
D
D
P4/A8
SEE NOTE 3
47
17 LG 13.00
3
9 10
C — C
46
19 LG 21.50
A6/TB1
22.00±.50
SEE NOTE 3
SEE NOTES
44
IC 1014481 SER NO REV
SEE NOTE 3
16 LG 12.50
STRIP LEADS .25
DO NOT TIN
A6TB1
2 5 6 3 2 1
65 66 67 68 69 70
SEE NOTE 3
45
A6-TB1
52.00±1.00
20 LG 52.50
A5TB6
STRIP LEADS .38
DO NOT TIN
1 2 3 73 72 71
SEE NOTE 3
A5/TB6
33.00±.50
46
3
B — B
59.00±1.00
9 10
P2/A4J5
19 LG 58.00
0 1 2 3 4
D C B A
7 6 5 4 3
18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

INCHES
PHOTOGRAPHIC SCALE ONLY

1014481

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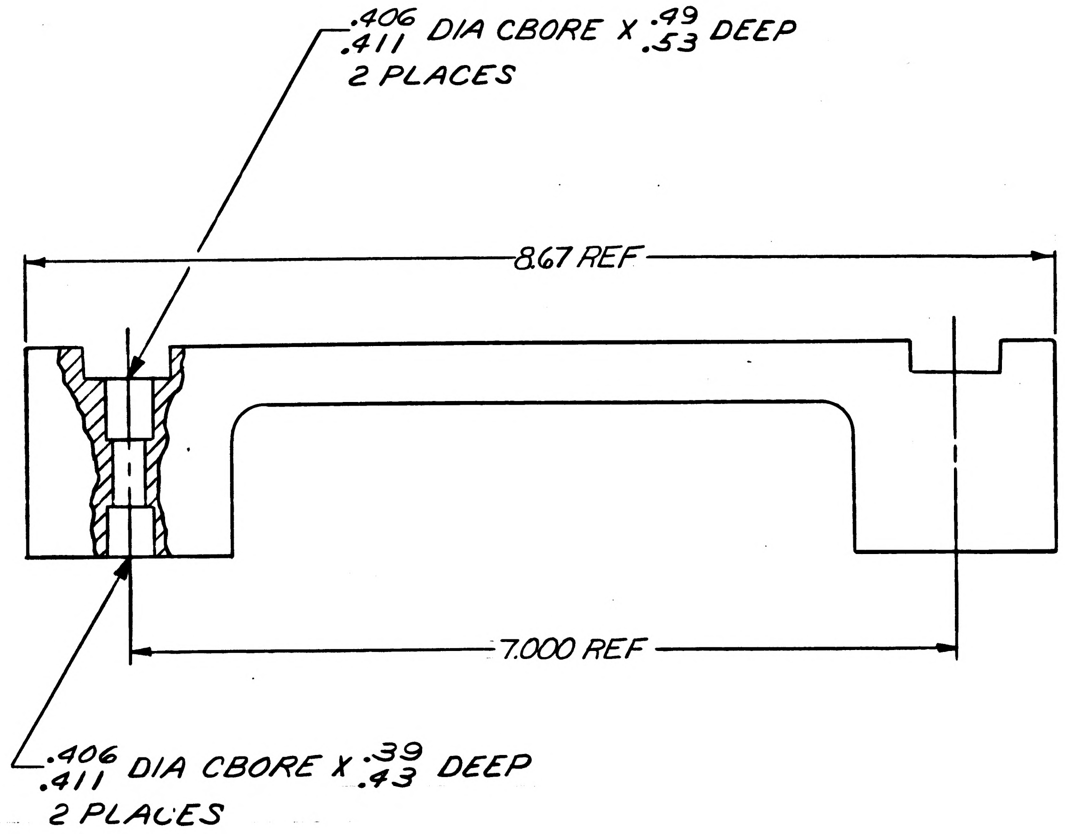
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		



$\frac{.406}{.411}$ DIA CBORE X $\frac{.49}{.53}$ DEEP
2 PLACES
8.67 REF
7.000 REF
$\frac{.406}{.411}$ DIA CBORE X $\frac{.39}{.43}$ DEEP
2 PLACES

FOR INFORMATION ONLY
CLASS B RELEASED TDRR NO. 03431 DATE 26 Sep 63

NOTES
1. REMOVE BURRS AND SHARP EDGES
2. TOUCH-UP REWORKED AREAS USING CHROMATE CONVERSION PER MIL-C-5541

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014292	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL MAKE FROM 1014293-4
HEAT TREATMENT
FINAL FINISH SEE NOTE 2

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN K. MATTY DATE 8/23/63
CHECKED David Conley 8/30/63
APPROVAL Sperling JRK
APPROVAL J. Yakrich JJB 9/12/63
APPROVAL J. A. Lundstrom RB 9/12/63
NASA APPROVAL K. Mirbach 9/16/63
MIT APPROVAL L. Gedman 9/26/63
MIT APPROVAL D. Hazel 9/26/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014482
SCALE 1/1
WT
SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
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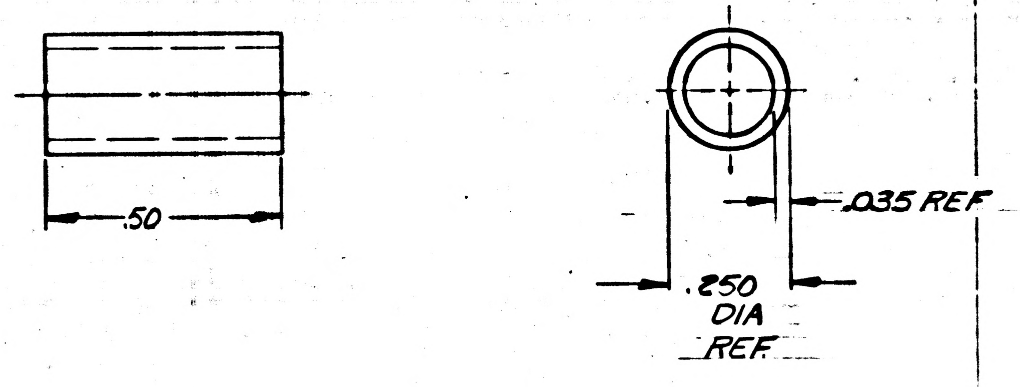
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR NO. 03430	9/26/63	
A	CL II CHANGE PER RD-R 5499 B C. La Corte CHK J Ruggen APPD	11/8/63	JJS
B	CHANGED PER TDRR 10101 DR B Hatanaka CHK J.C. Goulet APPD	23 JUN 64	KEB



FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 03430 DATE 26 Sep 63

NOTES

1. MAT'L .250 OD x .035 WALL 6061-T6 AL TUBING PER WW-T-789 TYPE I
2. REMOVE BURRS & SHARP EDGES
3. CLEAR ANODIZE PER MIL-A-8625A, TYPE II
4. IDENTIFY PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014402	1014411
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE

HEAT TREATMENT

FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 27 AUG 63
CHECKED 3 Sept 63
APPROVAL
APPROVAL
APPROVAL 9/10/63
NASA APPROVAL 9/24/63
MIT APPROVAL 9/24/63
MIT APPROVAL 9/25/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SPACER, SLEEVE

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014485
SCALE 4/1
WT
SHEET 1 OF 1

1014485

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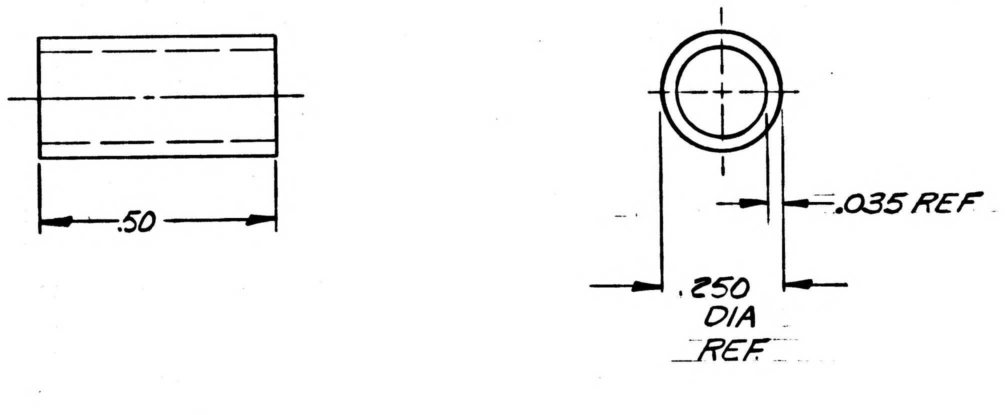
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASE PER TDRR NO. 03430	9/26/63	



FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 03430 DATE 26Sep63

NOTES

1. MATL .250 OD X .035 WALL 6061-T6 AL TUBING PER QQ-A-325
2. REMOVE BURRS & SHARP EDGES
3. CLEAR ANODIZE PER MIL-A-8625A, TYPE II
4. IDENTIFY PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014402	1014411
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.02 ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE

HEAT TREATMENT

FINAL FINISH SEE NOTE

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498

DRAWN DATE 24 AUG 63
CHECKED 3 SEPT 63
APPROVAL
APPROVAL
APPROVAL 9/11/63
NASA APPROVAL 9/24/63
MIT APPROVAL 9/26/63
MIT APPROVAL 9/25/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

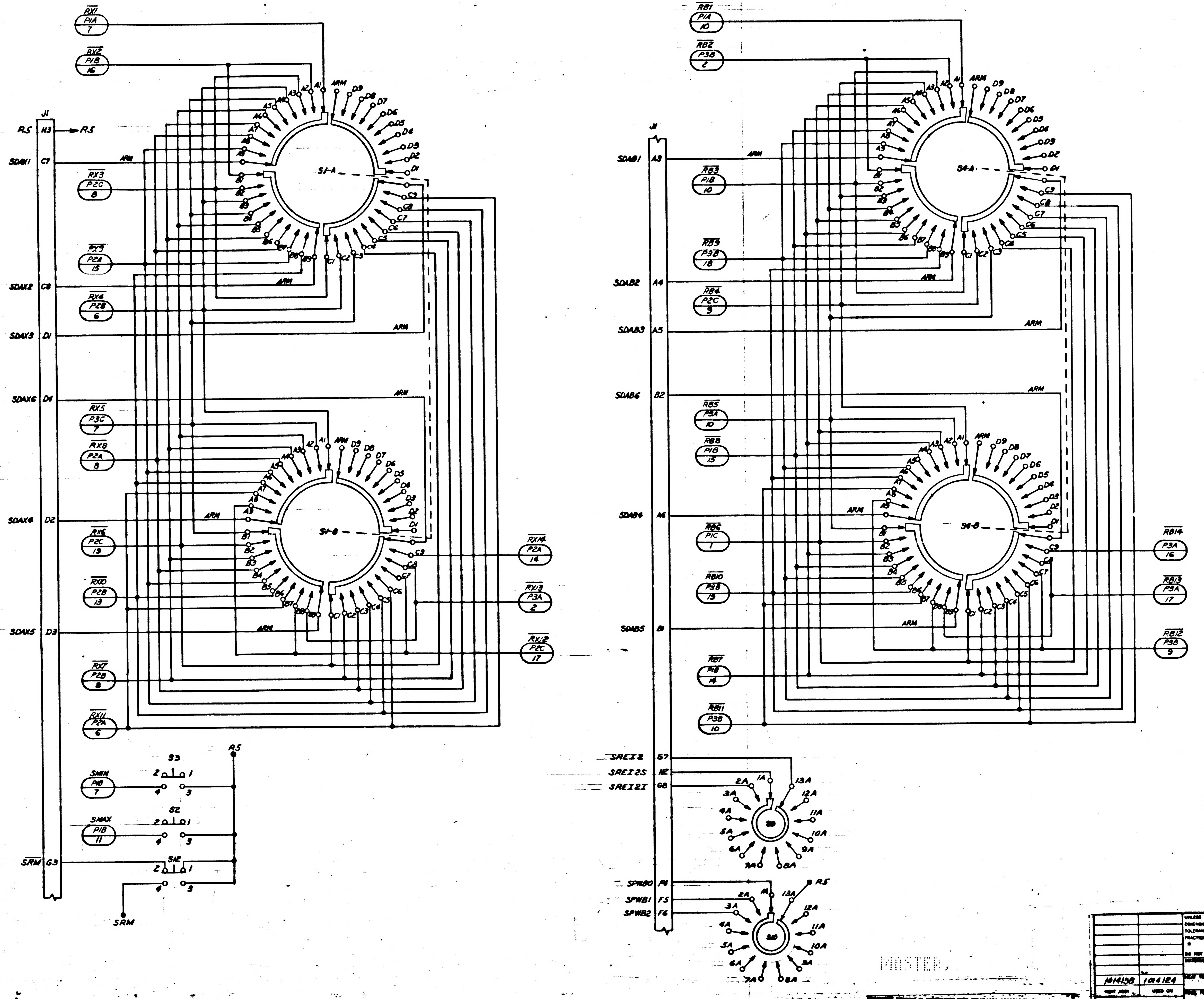
SPACER, SLEEVE

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	C	1014485
SCALE 4/1	WT	SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	~~CL B RELEASED PER TDRR~~		
A	CHANGED PER TDRR 06756 DR [illegible] CHK J.C.J.L. W APPD S.V. [illegible]	3-[illegible]	[illegible]



J1
RS H3 → RS
SDAX1 C7
SDAX2 C8
SDAX3 D1
SDAX6 D4
SDAX4 D2
SDAX5 D3
SRM G3
$\overline{RX1}$ P1A 7
$\overline{RX2}$ P1B 16
$\overline{RX3}$ P2C 8
$\overline{RX9}$ P2A 15
$\overline{RX4}$ P2B 6
$\overline{RX5}$ P3C 7
$\overline{RX8}$ P2A 8
$\overline{RX6}$ P2C 19
$\overline{RX10}$ P2B 13
$\overline{RX7}$ P2B 8
$\overline{RX11}$ P2A 6
$\overline{RX14}$ P2A 14
$\overline{RX13}$ P3A 2
$\overline{RX12}$ P2C 17
S1-A
S1-B
ARM
A1 A2 A3 A4 A5 A6 A7 A8 A9
B1 B2 B3 B4 B5 B6 B7 B8 B9
C1 C2 C3 C4 C5 C6 C7 C8 C9
D1 D2 D3 D4 D5 D6 D7 D8 D9
S3
S2
S12
SMIN P1B 7
SMAX P1B 11
RS
SRM
1 2 3 4
J1
SDAB1 A3
SDAB2 A4
SDAB3 A5
SDAB6 B2
SDAB4 A6
SDAB5 B1
SREI2 G7
SREI2S H2
SREI2I G8
SPWB0 F4
SPWB1 F5
SPWB2 F6
$\overline{RB1}$ P1A 10
$\overline{RB2}$ P3B 2
$\overline{RB3}$ P1B 10
$\overline{RB9}$ P3B 18
$\overline{RB4}$ P2C 9
$\overline{RB5}$ P3A 10
$\overline{RB8}$ P1B 15
$\overline{RB6}$ P1C 1
$\overline{RB10}$ P3B 19
$\overline{RB7}$ P1B 14
$\overline{RB11}$ P3B 10
$\overline{RB14}$ P3A 16
$\overline{RB13}$ P3A 17
$\overline{RB12}$ P3B 9
S4-A
S4-B
S9
S10
1A 2A 3A 4A 5A 6A 7A 8A 9A 10A 11A 12A 13A
RS
MASTER

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04171 DATE 26 Sep 63

A	A	—	A
—	—	—	—
SH 1	SH 2	SH 3	SH 4

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

1014158	1014124
NEXT ASSY	USED ON

APPLICATION

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN J.J. McD[illegible] DATE Aug 23 63
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

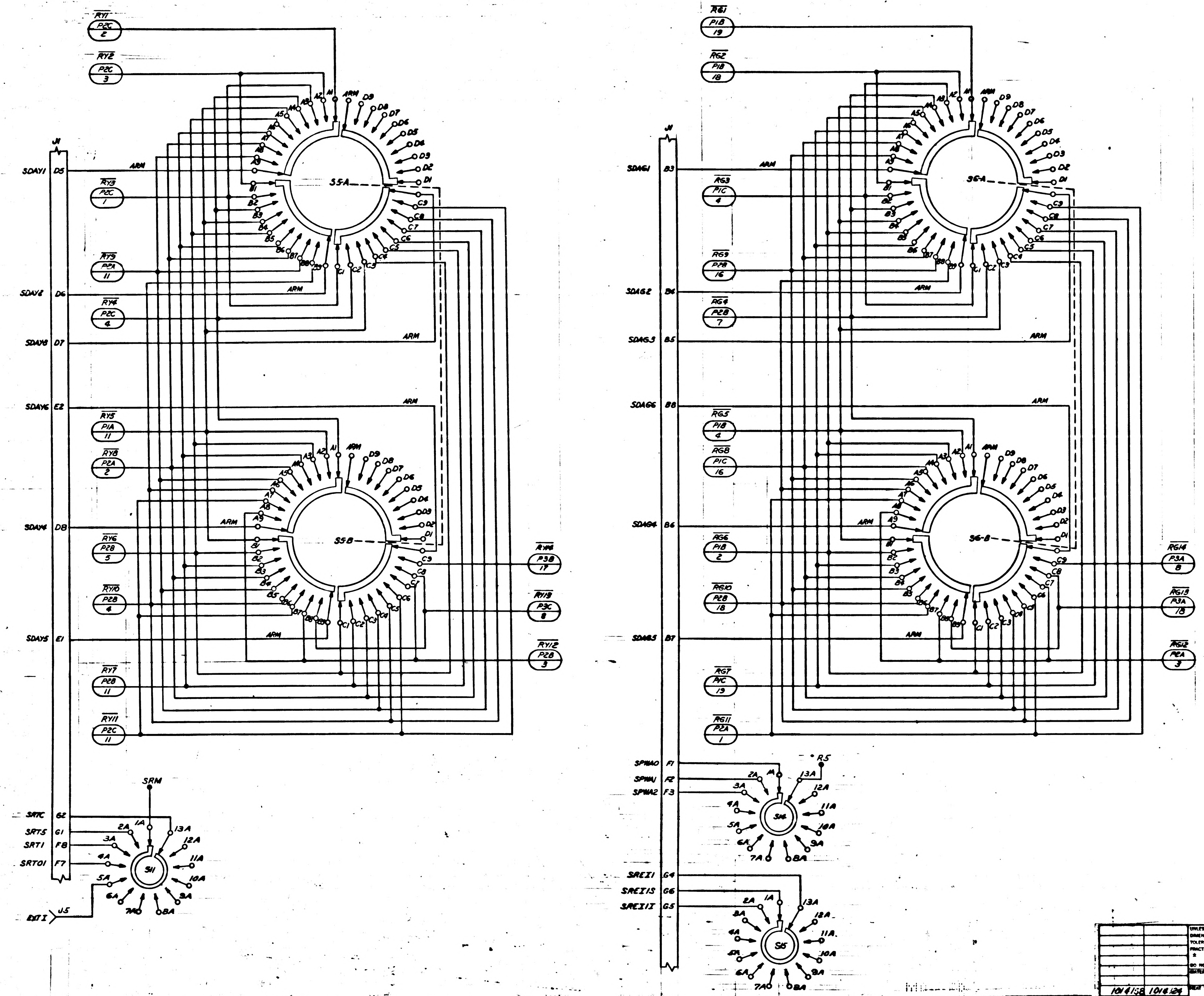
COMPUTER TEST SET
LOGIC DRAWER I FRONT PANEL
ELECTRICAL SCHEMATIC

SIZE J
NASA DRAWING NO. 1014486
SCALE NONE
SHEET OF 4

1014486

1014486

SYM	DESCRIPTION	DATE	APPROVED
—	~~CLB RELEASED PER TDRR~~		
A	CHANGED PER TDRR 06756 DR CHK JC JL JW APPD		



RY1 P2C 2
RY2 P2C 3
RY3 P2C 1
RY9 P2A 11
RY4 P2C 4
RY5 P1A 11
RY8 P2A 2
RY6 P2B 5
RY10 P2B 4
RY7 P2B 11
RY11 P2C 11
RY16 P3B 17
RY13 P3C 8
RY12 P2B 3
J1
SDAY1 D5
SDAY2 D6
SDAY3 D7
SDAY6 E2
SDAY4 D8
SDAY5 E1
ARM
S5-A
S5-B
A1 A2 A3 A4 A5 A6 A7 A8 A9
B1 B2 B3 B4 B5 B6 B7 B8 B9
C1 C2 C3 C4 C5 C6 C7 C8 C9
D1 D2 D3 D4 D5 D6 D7 D8 D9
SRM
SRTC G2
SRTS G1
SRT1 F8
SRT01 F7
EXT I
J5
S11
1A 2A 3A 4A 5A 6A 7A 8A 9A 10A 11A 12A 13A
RG1 P1B 19
RG2 P1B 18
RG3 P1C 4
RG9 P2B 16
RG4 P2B 7
RG5 P1B 4
RG8 P1C 16
RG6 P1B 2
RG10 P2B 18
RG7 P1C 19
RG11 P2A 1
RG14 P3A 8
RG13 P3A 18
RG12 P2A 3
SDAG1 B3
SDAG2 B4
SDAG3 B5
SDAG6 B8
SDAG4 B6
SDAG5 B7
S6-A
S6-B
SPWA0 F1
SPWA1 F2
SPWA2 F3
RS
S14
SREX1 G4
SREX1S G6
SREX1I G5
S15

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03434 DATE 26 Sep 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

NEXT ASSY	USED ON
1014158	1014124

APPLICATION

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

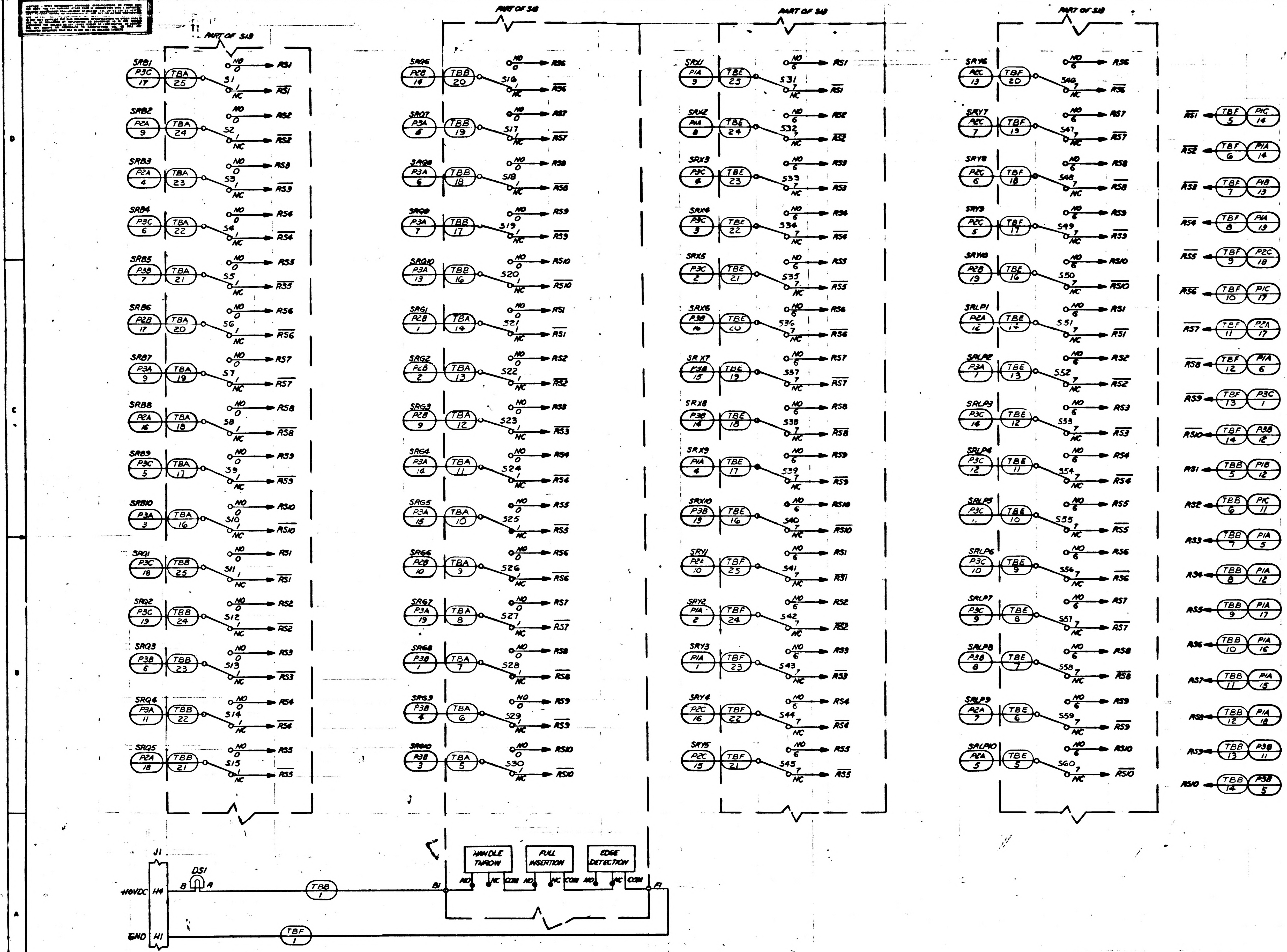
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER TEST SET
LOGIC DRAWER I FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO.
SIZE J
NASA DRAWING NO. 1014486
SCALE NONE
WT
SHEET 2 OF

1014486

SYM	DESCRIPTION	DATE	APPROVED
-	~~CL B RELEASE PER TDRR~~		
A	CHANGED PER TDRR 06756 DR [illegible] CHK JNC J-J APPD	3-10-64	


PART OF S19
SRB1 P3C 17 TBA 25 S1 NO 0 1 NC RS1 $\overline{RS1}$
SRB2 P2A 9 TBA 24 S2 RS2 $\overline{RS2}$
SRB3 P2A 4 TBA 23 S3 RS3 $\overline{RS3}$
SRB4 P3C 6 TBA 22 S4 RS4 $\overline{RS4}$
SRB5 P3B 7 TBA 21 S5 RS5 $\overline{RS5}$
SRB6 P2B 17 TBA 20 S6 RS6 $\overline{RS6}$
SRB7 P3A 9 TBA 19 S7 RS7 $\overline{RS7}$
SRB8 P2A 16 TBA 18 S8 RS8 $\overline{RS8}$
SRB9 P3C 5 TBA 17 S9 RS9 $\overline{RS9}$
SRB10 P3A 3 TBA 16 S10 RS10 $\overline{RS10}$
SRQ1 P3C 18 TBB 25 S11 RS1 $\overline{RS1}$
SRQ2 P3C 19 TBB 24 S12 RS2 $\overline{RS2}$
SRQ3 P3B 6 TBB 23 S13 RS3 $\overline{RS3}$
SRQ4 P3A 11 TBB 22 S14 RS4 $\overline{RS4}$
SRQ5 P2A 18 TBB 21 S15 RS5 $\overline{RS5}$
PART OF S19
SRQ6 P2B 14 TBB 20 S16 RS6 $\overline{RS6}$
SRQ7 P3A 8 TBB 19 S17 RS7 $\overline{RS7}$
SRQ8 P3A 5 TBB 18 S18 RS8 $\overline{RS8}$
SRQ9 P3A 7 TBB 17 S19 RS9 $\overline{RS9}$
SRQ10 P3A 13 TBB 16 S20 RS10 $\overline{RS10}$
SRG1 P2B 1 TBA 14 S21 RS1 $\overline{RS1}$
SRG2 P2B 2 TBA 13 S22 RS2 $\overline{RS2}$
SRG3 P2B 9 TBA 12 S23 RS3 $\overline{RS3}$
SRG4 P3A 14 TBA 11 S24 RS4 $\overline{RS4}$
SRG5 P3A 15 TBA 10 S25 RS5 $\overline{RS5}$
SRG6 P2B 10 TBA 9 S26 RS6 $\overline{RS6}$
SRG7 P3A 19 TBA 8 S27 RS7 $\overline{RS7}$
SRG8 P3B 1 TBA 7 S28 RS8 $\overline{RS8}$
SRG9 P3B 4 TBA 6 S29 RS9 $\overline{RS9}$
SRG10 P3B 3 TBA 5 S30 RS10 $\overline{RS10}$
PART OF S19
SRX1 P1A 9 TBE 25 S31 NO 6 7 NC RS1 $\overline{RS1}$
SRX2 P1A 8 TBE 24 S32 RS2 $\overline{RS2}$
SRX3 P3C 4 TBE 23 S33 RS3 $\overline{RS3}$
SRX4 P3C 3 TBE 22 S34 RS4 $\overline{RS4}$
SRX5 P3C 2 TBE 21 S35 RS5 $\overline{RS5}$
SRX6 P3B 16 TBE 20 S36 RS6 $\overline{RS6}$
SRX7 P2B 15 TBE 19 S37 RS7 $\overline{RS7}$
SRX8 P3B 14 TBE 18 S38 RS8 $\overline{RS8}$
SRX9 P1A 4 TBE 17 S39 RS9 $\overline{RS9}$
SRX10 P3B 19 TBE 16 S40 RS10 $\overline{RS10}$
SRY1 P2A 10 TBF 25 S41 RS1 $\overline{RS1}$
SRY2 P1A 2 TBF 24 S42 RS2 $\overline{RS2}$
SRY3 P1A 1 TBF 23 S43 RS3 $\overline{RS3}$
SRY4 P2C 16 TBF 22 S44 RS4 $\overline{RS4}$
SRY5 P2C 15 TBF 21 S45 RS5 $\overline{RS5}$
PART OF S19
SRY6 P2C 13 TBF 20 S46 RS6 $\overline{RS6}$
SRY7 P2C 7 TBF 19 S47 RS7 $\overline{RS7}$
SRY8 P2C 6 TBF 18 S48 RS8 $\overline{RS8}$
SRY9 P2C 5 TBF 17 S49 RS9 $\overline{RS9}$
SRY10 P2B 19 TBF 16 S50 RS10 $\overline{RS10}$
SRLP1 P2A 16 TBE 14 S51 RS1 $\overline{RS1}$
SRLP2 P3A 1 TBE 13 S52 RS2 $\overline{RS2}$
SRLP3 P3C 14 TBE 12 S53 RS3 $\overline{RS3}$
SRLP4 P3C 12 TBE 11 S54 RS4 $\overline{RS4}$
SRLP5 P3C 11 TBE 10 S55 RS5 $\overline{RS5}$
SRLP6 P3C 10 TBE 9 S56 RS6 $\overline{RS6}$
SRLP7 P3C 9 TBE 8 S57 RS7 $\overline{RS7}$
SRLP8 P3B 8 TBE 7 S58 RS8 $\overline{RS8}$
SRLP9 P2A 7 TBE 6 S59 RS9 $\overline{RS9}$
SRLP10 P2A 5 TBE 5 S60 RS10 $\overline{RS10}$
$\overline{RS1}$ TBF 5 P1C 14
$\overline{RS2}$ TBF 6 P1A 14
$\overline{RS3}$ TBF 7 P1B 13
$\overline{RS4}$ TBF 8 P1A 13
$\overline{RS5}$ TBF 9 P2C 18
$\overline{RS6}$ TBF 10 P1C 17
$\overline{RS7}$ TBF 11 P2A 17
$\overline{RS8}$ TBF 12 P1A 6
$\overline{RS9}$ TBF 13 P3C 1
$\overline{RS10}$ TBF 14 P3B 12
RS1 TBB 5 P1B 12
RS2 TBB 6 P1C 11
RS3 TBB 7 P1A 5
RS4 TBB 8 P1A 12
RS5 TBB 9 P1A 17
RS6 TBB 10 P1A 16
RS7 TBB 11 P1A 15
RS8 TBB 12 P1A 18
RS9 TBB 13 P3B 11
RS10 TBB 14 P3B 5
J1
DS1
+10VDC H4
B A
TBB 1
B1
HANDLE THROW
FULL INSERTION
EDGE DETECTION
NO NC COM NO NC COM NO NC COM
F1
GND H1
TBF 1

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 0343 DATE 26 Sep 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014158	1014124
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

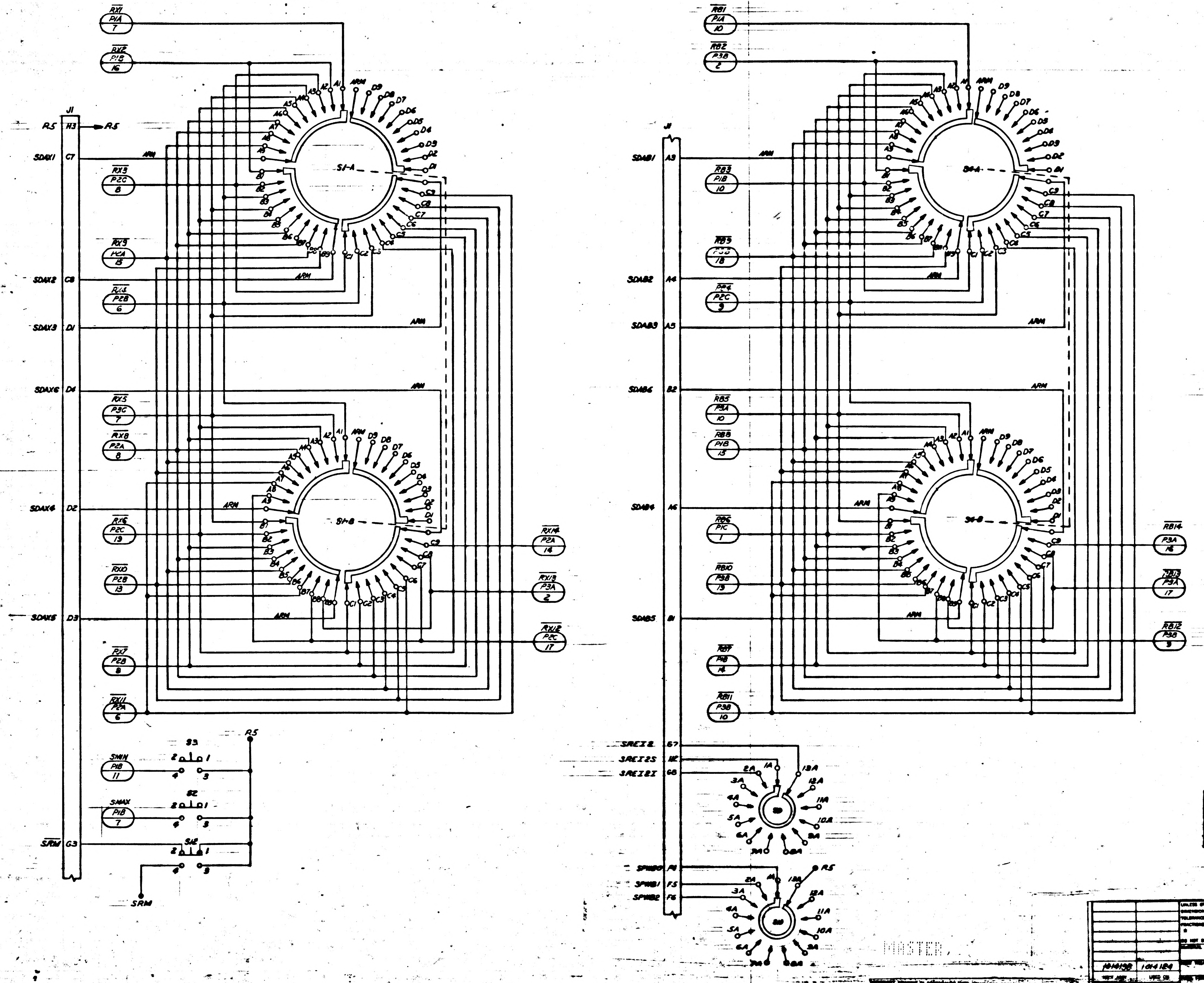
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
APPROVAL
APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER TEST SET
LOGIC DRAWER 1 FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO. SIZE NASA DRAWING NO. 1014486
SCALE NONE WT SHEET 1 OF 1

LTR	DESCRIPTION	DATE	APPROVED
—	[illegible] RELEASED PER TDRR		
A	CHANGED PER TDRR 06756 DR [illegible] CHK [illegible] APPD [illegible]	[illegible]	[illegible]
B	CHANGED PER TDRR NO.09769 DR [illegible] CHK [illegible] APPD [illegible]	[illegible]	[illegible]



J1
R5
SDAX1
SDAX2
SDAX3
SDAX6
SDAX4
SDAX5
RX1 P1A 7
RX2 P1B 16
RX3 P2C 8
RX9 P2A 15
RX4 P2B 6
RX5 P3C 7
RX8 P2A 8
RX6 P2C 13
RX10 P2B 13
RX7 P2B 8
RX11 P2A 6
RX14 P2A 14
RX13 P3A 2
RX12 P2C 17
S1-A
S1-B
ARM
SMIN P1B 11
SMAX P1B 7
S3
S2
S4E
SRM
SDAB1
SDAB2
SDAB3
SDAB6
SDAB4
SDAB5
RB1 P1A 10
RB2 P3B 2
RB3 P1B 10
RB9 P3C 18
RB4 P2C 9
RB5 P3A 10
RB8 P1B 15
RB6 P1C 1
RB10 P3B 19
RB7 P1B 14
RB11 P3B 10
RB14 P3A 16
RB13 P3A 17
RB12 P3B 9
S4-A
S4-B
SREI2
SREI2S
SREI2I
SPWB0
SPWB1
SPWB2
S5
S6

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. [illegible] DATE [illegible]

B	A	—	B
A	A	—	A
SH 1	SH 2	SH 3	SH 4
REVISION STATUS OF SHEETS			

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

1014138	1014124
NEXT ASSY	USED ON
APPLICATION	

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-[illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

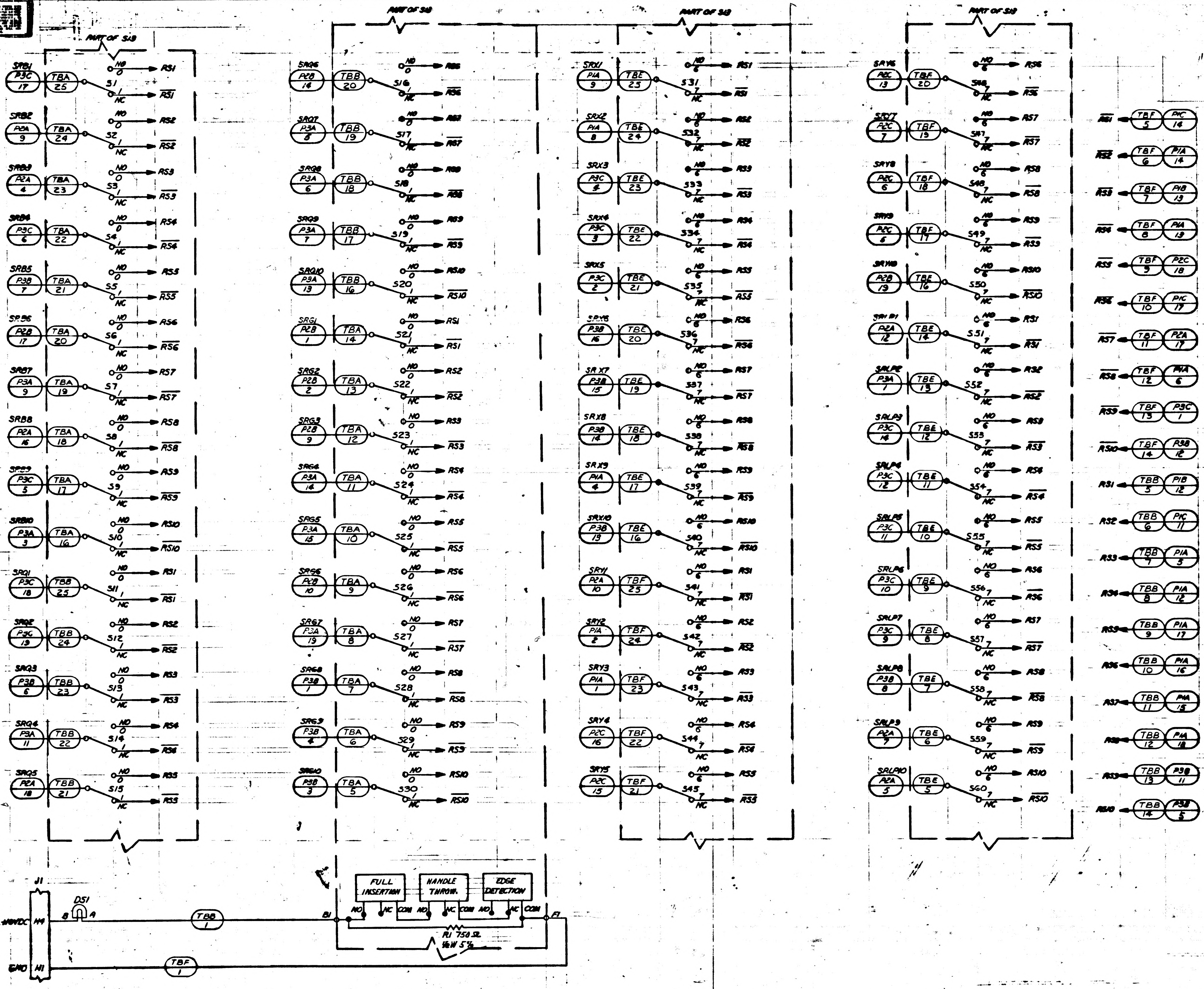
COMPUTER TEST SET
LOGIC DRAWER 1 FRONT PANEL
ELECTRICAL SCHEMATIC

SIZE J
DRAWING NO. 1014486

MASTER

1014486

REV	DESCRIPTION	DATE
—	~~CL B RELEASE PER TDRR~~	
A	CHANGED PER TDRR 06756 DR [illegible] CHK JN [illegible] APPD	3-10-64
B	CHANGED PER TDRR NO. 09769 DR J.P. [illegible] CHK [illegible] APPD	[illegible] 64


PART OF S13
SRB1
P3C 17
TBA 25
S1
NO
NC
RS1
J1
DS1
+28VDC
GND
H1
H4
TBB 1
TBF 1
B1
F1
FULL INSERTION
HANDLE THROW
EDGE DETECTION
NO
NC
COM
R1 750Ω 1/4W 5%

FOR INFORMATION ONLY
CLASS II RELEASE TDRR NO. [illegible] DATE [illegible]

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498

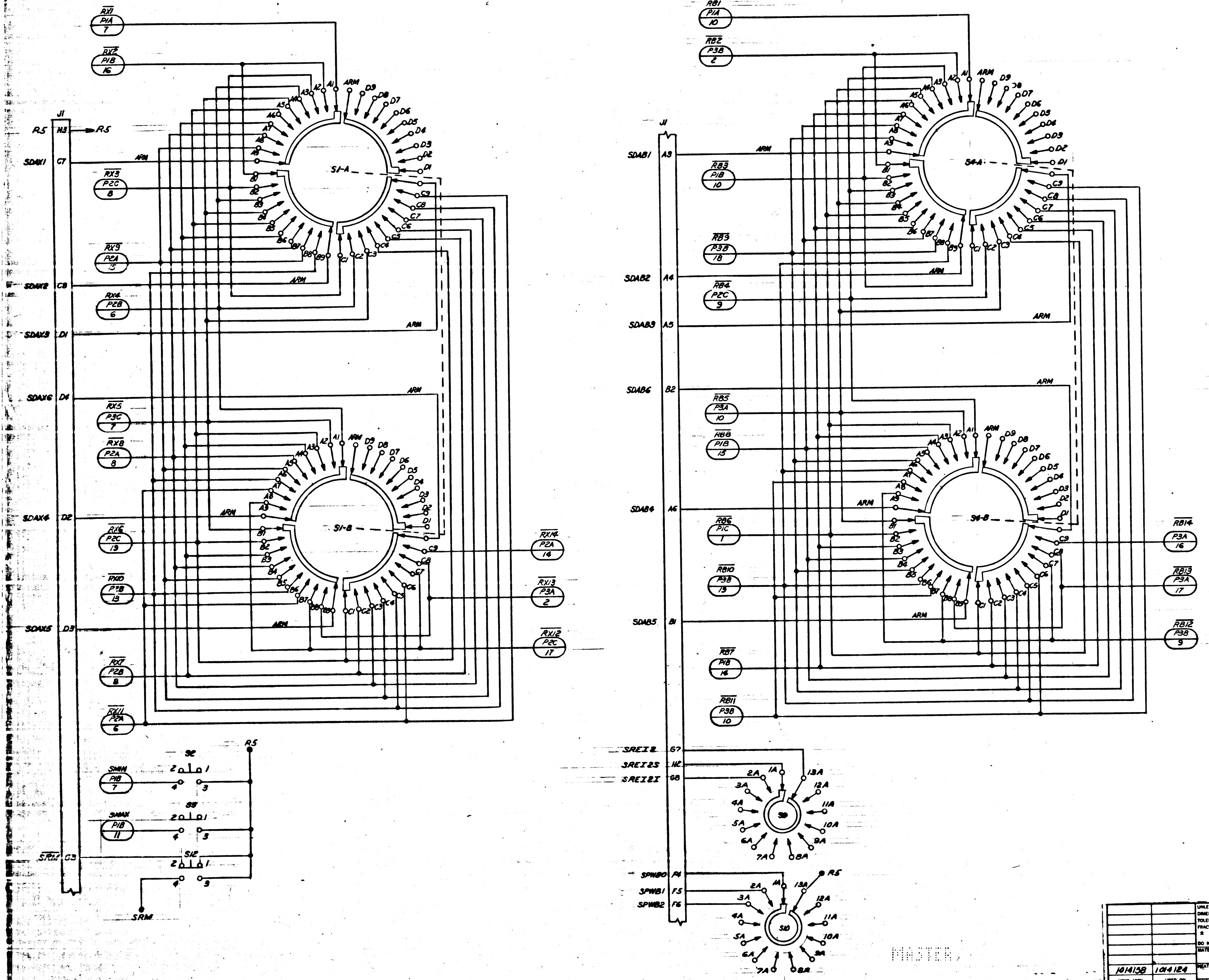
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER TEST SET
LOGIC DRAWER I FRONT PANEL
ELECTRICAL SCHEMATIC

1014486

SCALE NONE

SYM	DESCRIPTION	DATE	APPROVED
REVISIONS			
—	CL B RELEASED PER TDRR.		



$\overline{RX1}$ P1A 7
$\overline{RX2}$ P1B 16
J1
R5 H3 → R5
SDAX1 C7
ARM
$\overline{RX3}$ P2C 8
$\overline{RX9}$ P2A 15
SDAX2 C8
RX4 P2B 6
SDAX3 D1
SDAX6 D4
$\overline{RX5}$ P3C 7
$\overline{RX8}$ P2A 8
SDAX4 D2
$\overline{RX6}$ P2C 19
$\overline{RX10}$ P2B 13
SDAX5 D3
$\overline{RX7}$ P2B 8
$\overline{RX11}$ P2A 6
S1-A
S1-B
A1 A2 A3 A4 A5 A6 A7 A8 A9
B1 B2 B3 B4 B5 B6 B7 B8 B9
C1 C2 C3 C4 C5 C6 C7 C8 C9
D1 D2 D3 D4 D5 D6 D7 D8 D9
$\overline{RX14}$ P2A 14
$\overline{RX13}$ P3A 2
$\overline{RX12}$ P2C 17
R5
S2
SMIN P1B 7
S3
SMAX P1B 11
$\overline{SR12}$ G3
S12
1 2 3 4
SRM
$\overline{RB1}$ P1A 10
$\overline{RB2}$ P3B 2
J1
SDAB1 A3
$\overline{RB3}$ P1B 10
$\overline{RB9}$ P3B 18
SDAB2 A4
$\overline{RB4}$ P2C 9
SDAB3 A5
SDAB6 B2
$\overline{RB5}$ P3A 10
$\overline{RB8}$ P1B 15
SDAB4 A6
$\overline{RB6}$ P1C 1
$\overline{RB10}$ P3B 19
SDAB5 B1
$\overline{RB7}$ P1B 14
$\overline{RB11}$ P3B 10
S4-A
S4-B
$\overline{RB14}$ P3A 16
$\overline{RB13}$ P3A 17
$\overline{RB12}$ P3B 9
SREI2 G7
SREI2S H2
SREI2I G8
S9
SPWB0 F4
SPWB1 F5
SPWB2 F6
S10
R5
1A 2A 3A 4A 5A 6A 7A 8A 9A 10A 11A 12A 13A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03471 DATE 26 Sep 63

—	—	—	—
SH 1	SH 2	SH 3	SH 4

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014158	1014124
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN J. J. McDonald DATE Aug 23 '63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER TEST SET
LOGIC DRAWER 1 FRONT PANEL,
ELECTRICAL SCHEMATIC

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014486
SCALE NONE
WT
SHEET 1 OF 4

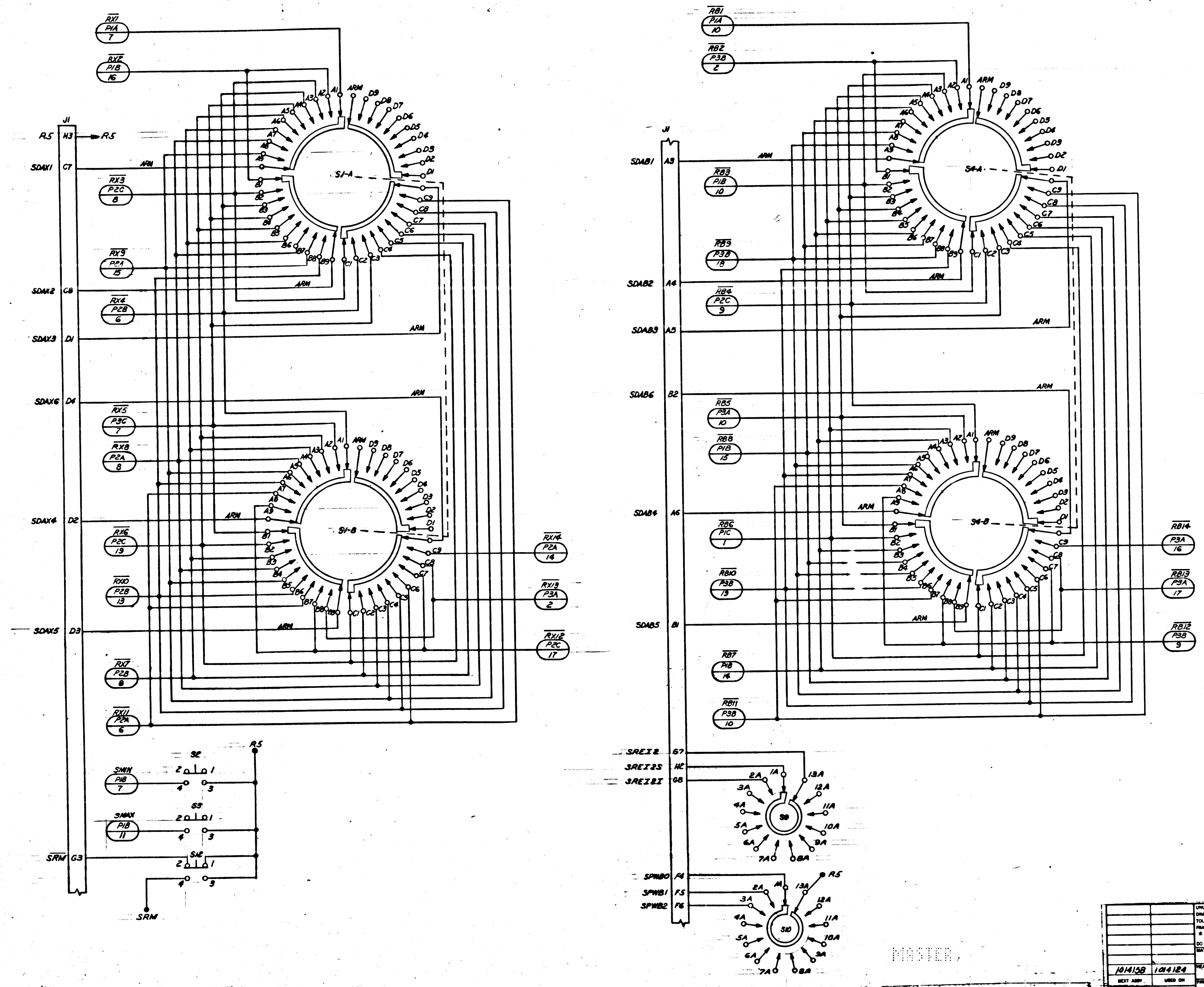
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

1014486

INCHES
PHOTOGRAPHIC SCALE ONLY

F-2


J1
R5
H3
R5
SDAX1
C7
SDAX2
C8
SDAX3
D1
SDAX6
D4
SDAX4
D2
SDAX5
D3
SRM
G3
RX1 P1A 7
RX2 P1B 16
RX3 P2C 8
RX9 P2A 15
RX4 P2B 6
RX5 P3C 7
RX8 P2A 8
RX6 P2C 19
RX10 P2B 13
RX7 P2B 8
RX11 P2A 6
RX14 P2A 14
RX13 P3A 2
RX12 P2C 17
S1-A
S1-B
ARM
A1 A2 A3 A4 A5 A6 A7 A8 A9
B1 B2 B3 B4 B5 B6 B7 B8 B9
C1 C2 C3 C4 C5 C6 C7 C8 C9
D1 D2 D3 D4 D5 D6 D7 D8 D9
SMIN P1B 7
SMAX P1B 11
S2
S3
S12
R5
SRM
J1
SDAB1
A3
SDAB2
A4
SDAB3
A5
SDAB6
B2
SDAB4
A6
SDAB5
B1
RB1 P1A 10
RB2 P3B 2
RB3 P1B 10
RB9 P3B 18
RB4 P2C 9
RB5 P3A 10
RB8 P1B 15
RB6 P1C 1
RB10 P3B 13
RB7 P1B 14
RB11 P3B 10
RB14 P3A 16
RB13 P3A 17
RB12 P3B 9
S4-A
S4-B
SREI2
G7
SREI2S
H2
SREI2I
G8
SPWB0
F4
SPWB1
F5
SPWB2
F6
S9
S10
1A 2A 3A 4A 5A 6A 7A 8A 9A 10A 11A 12A 13A
R5

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 34131 DATE 26

SH 1	SH 2	SH 3	SH 4
REVISION STATUS OF SHEETS			

MASTER

1014138	1014124
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

QTY REQD | PART OR IDENTIFYING NO.
LIST OF MATERIALS

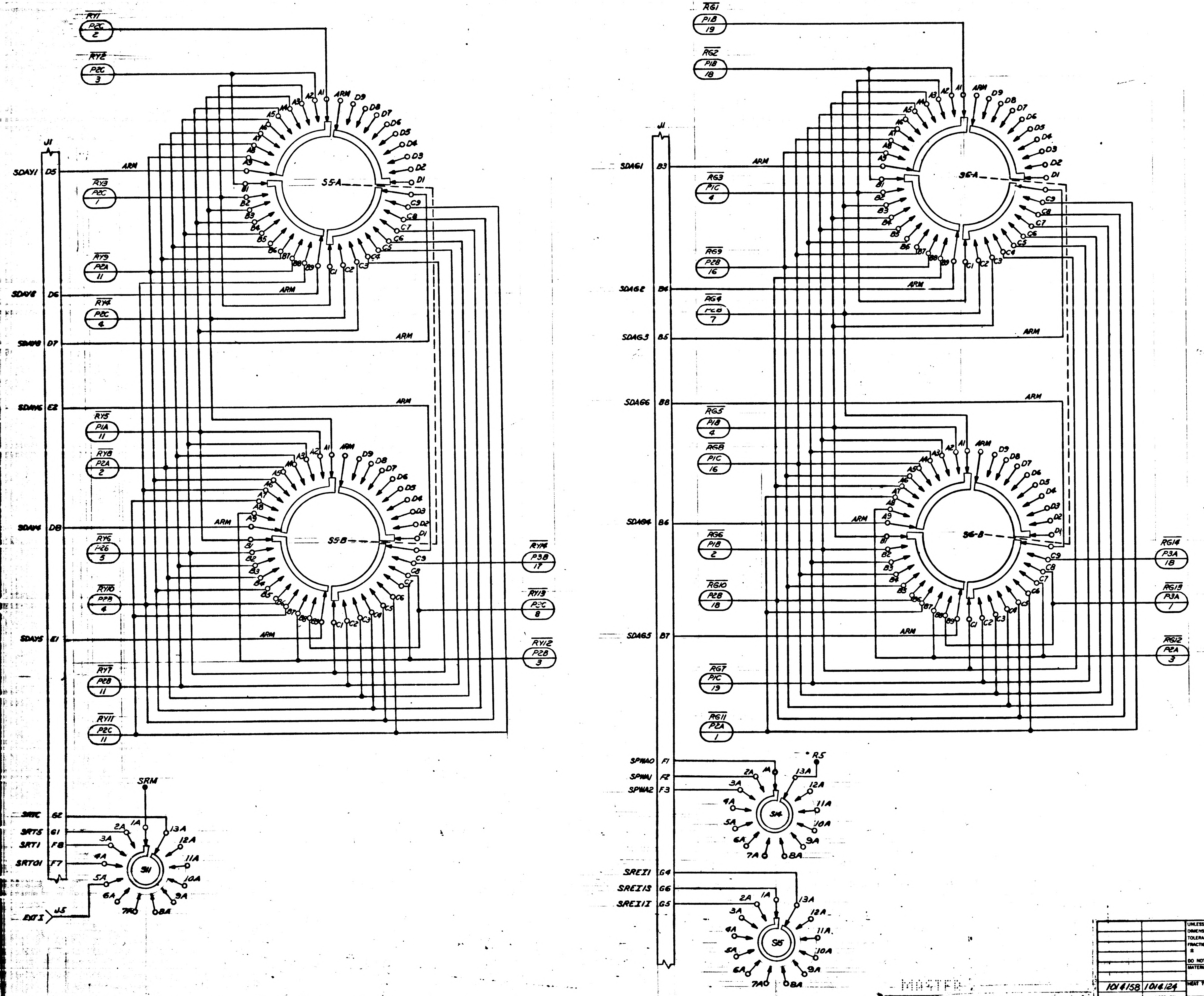
RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SP
COMPUT
LOGIC DRAW
ELECTR
SIZE J
SCALE NONE

1014486

INCHES
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVED
—	CLB RELEASED PER TDRR		


RY1
P2C
2
RY2
P2C
3
J1
SDAY1 D5
ARM
RY3
P2C
1
RY9
P2A
11
SDAY8 D6
ARM
RY4
P2C
4
SDAY18 D7
ARM
SDAY16 E2
ARM
RY5
P1A
11
RY8
P2A
2
SDAY4 D8
ARM
RY6
P26
5
RY10
P2B
4
SDAY5 E1
ARM
RY7
P2B
11
RY11
P2C
11
A1
A2
A3
A4
A5
A6
A7
A8
A9
B1
B2
B3
B4
B5
B6
B7
B8
B9
C1
C2
C3
C4
C5
C6
C7
C8
C9
D1
D2
D3
D4
D5
D6
D7
D8
D9
S5-A
S5-B
RY14
P3B
17
RY13
P2C
8
RY12
P2B
3
SRM
SRRC G2
SRTS G1
SRT1 F8
SRT01 F7
EXT I
J5
1A
2A
3A
4A
5A
6A
7A
8A
9A
10A
11A
12A
13A
S11
RG1
P1B
19
RG2
P1B
18
J1
SDAG1 B3
ARM
RG3
P1C
4
RG9
P2B
16
SDAG2 B4
RG4
P2B
7
SDAG3 B5
ARM
SDAG6 B8
ARM
RG5
P1B
4
RG8
P1C
16
SDAG4 B6
ARM
RG6
P1B
2
RG10
P2B
18
SDAG5 B7
ARM
RG7
P1C
19
RG11
P2A
1
S6-A
S6-B
RG14
P3A
18
RG13
P3A
1
RG12
P2A
3
SPWA0 F1
SPWA1 F2
SPWA2 F3
R5
S14
SREI1 G4
SREI1S G6
SREI1I G5
S15

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CLASS B RELEASE TDRR NO. 03431 DATE 26 Sep 63

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014158	1014124
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN DATE Aug 23 63
CHECKED A. Coggins 30 Aug 63
APPROVAL
APPROVAL 9/12/63
APPROVAL
NASA APPROVAL 9/26/63
NASA APPROVAL 9/26/63
MIT APPROVAL 9/26/63

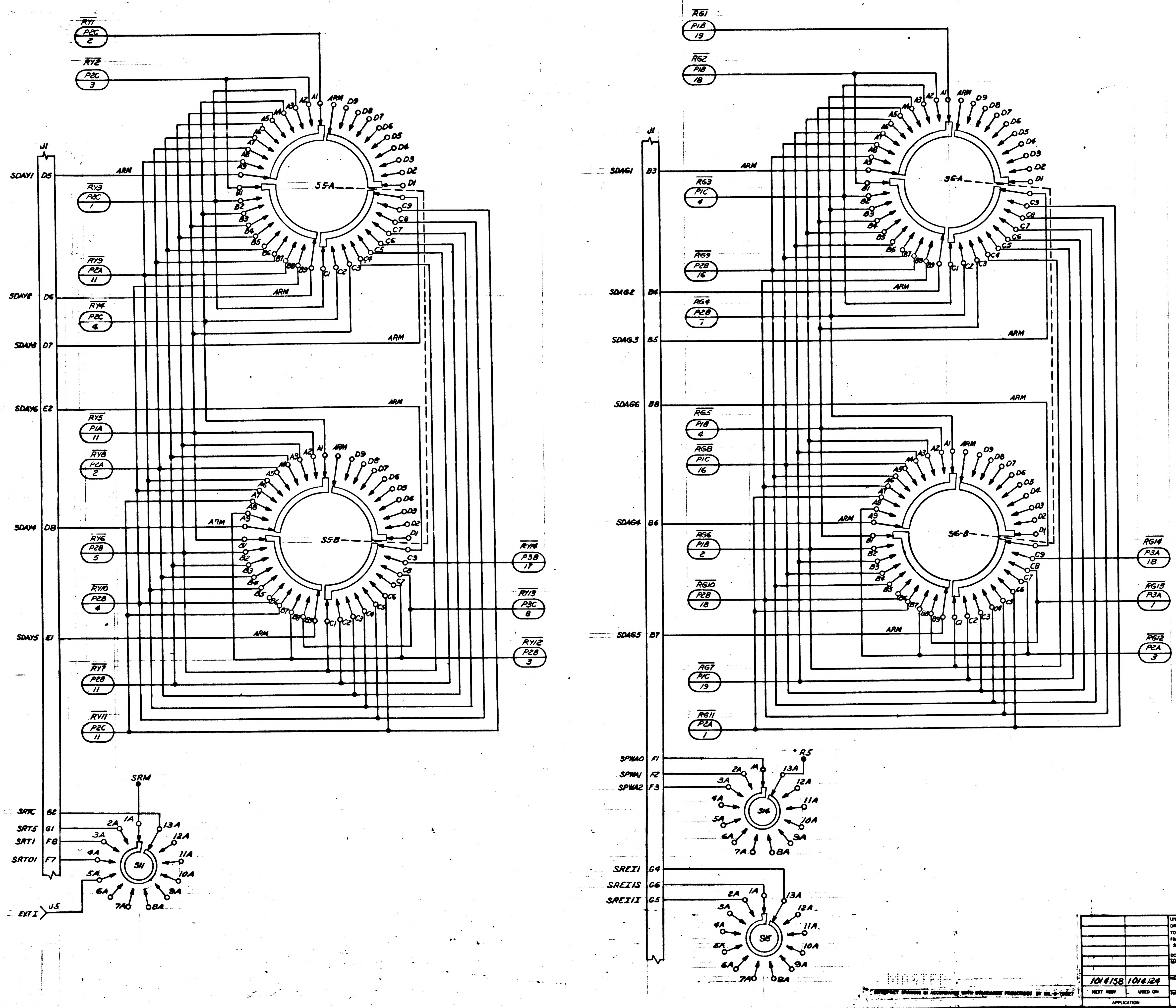
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER TEST SET
LOGIC DRAWER 1 FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO. —— SIZE J NASA DRAWING NO 1014486
SCALE NONE WT SHEET 2 OF 4

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

SYM	DESCRIPTION
—	CLB RELEASE D PER TDRR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RY2 P2C 3
J1
SDAY1 D5
ARM
RY3 P2C 1
RY9 P2A 11
SDAY2 D6
RY4 P2C 4
SDAY3 D7
SDAY6 E2
RY5 P1A 11
RY8 P2A 2
SDAY4 D8
RY6 P2B 5
RY10 P2B 4
SDAY5 E1
RY7 P2B 11
RY11 P2C 11
RY14 P3B 17
RY13 P3C 8
RY12 P2B 3
S5-A
S5-B
A1 A2 A3 A4 A5 A6 A7 A8 A9
B1 B2 B3 B4 B5 B6 B7 B8 B9
C1 C2 C3 C4 C5 C6 C7 C8 C9
D1 D2 D3 D4 D5 D6 D7 D8 D9
SRM
SRTC G2
SRT5 G1
SRT1 F8
SRT01 F7
EXT I
J5
S1
1A 2A 3A 4A 5A 6A 7A 8A 9A 10A 11A 12A 13A
RG1 P1B 19
RG2 P1B 18
SDAG1 B3
RG3 P1C 4
RG9 P2B 16
SDAG2 B4
RG4 P2B 7
SDAG3 B5
SDAG6 B8
RG5 P1B 4
RG8 P1C 16
SDAG4 B6
RG6 P1B 2
RG10 P2B 18
SDAG5 B7
RG7 P1C 19
RG11 P2A 1
RG14 P3A 18
RG13 P3A 7
RG12 P2A 3
S6-A
S6-B
SPWA0 F1
SPWA1 F2
SPWA2 F3
R5
S4
SREI1 G4
SREI15 G6
SREI11 G5
S5

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CLASS B RELEASE TDRR NO. 03431 DATE

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1014158	1014124
NEXT ASSY	USED ON
APPLICATION	

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN J. McLeod DATE 5-63
CHECKED A. Cappaum 30 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

QTY REQD	PART OR IDENTIFYING NO.

LIST OF MATERIALS

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ELECTRI

CODE IDENT NO
SIZE J
SCALE NONE
WT

INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
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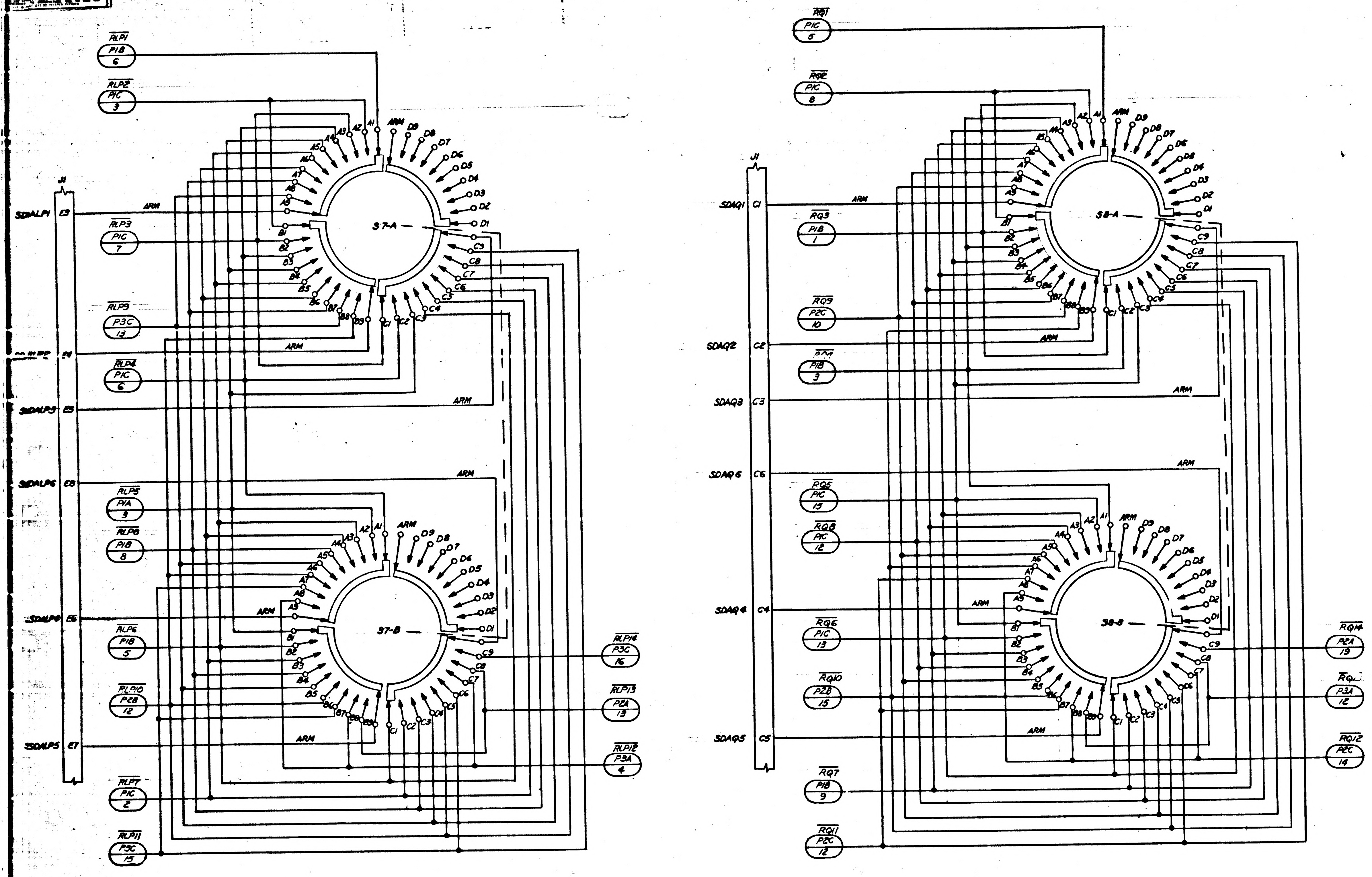

RLP1 P1B 6
RLP2 P1C 3
J1
SDALP1 E3
ARM
RLP3 P1C 7
RLP9 P3C 13
E4
RLP4 P1C 6
SDALP3 E5
SDALP6 E8
RLP5 P1A 3
RLP8 P1B 8
SDALP4 E6
RLP6 P1B 5
RLP10 P2B 12
SDALP5 E7
RLP7 P1C 2
RLP11 P3C 15
S7-A
S7-B
A1 A2 A3 A4 A5 A6 A7 A8 A9
B1 B2 B3 B4 B5 B6 B7 B8 B9
C1 C2 C3 C4 C5 C6 C7 C8 C9
D1 D2 D3 D4 D5 D6 D7 D8 D9
RLP14 P3C 16
RLP13 P2A 13
RLP12 P3A 4
RQ1 P1C 5
RQ2 P1C 8
SDAQ1 C1
RQ3 P1B 1
RQ9 P2C 10
SDAQ2 C2
RQ4 P1B 3
SDAQ3 C3
SDAQ6 C6
RQ5 P1C 15
RQ8 P1C 12
SDAQ4 C4
RQ6 P1C 13
RQ10 P2B 15
SDAQ5 C5
RQ7 P1B 9
RQ11 P2C 12
S8-A
S8-B
RQ14 P2A 19
RQ13 P3A 12
RQ12 P2C 14

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CLASS B RELEASE TDRR NO. 034/31 DATE 26 Sep 63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014158	1014124
NEXT ASSY	USED ON
APPLICATION	

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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN J.J. [illegible] DATE [illegible]
CHECKED A. Caggiano 8 Aug 63
APPROVAL C. [illegible] Jr.
APPROVAL [illegible] 9/12/63
APPROVAL J. J. [illegible]
NASA APPROVAL [illegible] 9/4/63
MIT APPROVAL [illegible] 9/24/63
MIT APPROVAL [illegible] 9/26/63

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HOUSTON, TEXAS

COMPUTER TEST SET
LOGIC DRAWER 1 FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014486
SCALE NONE
WT
SHEET 3 OF 4

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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SYM	DESCRIPTION
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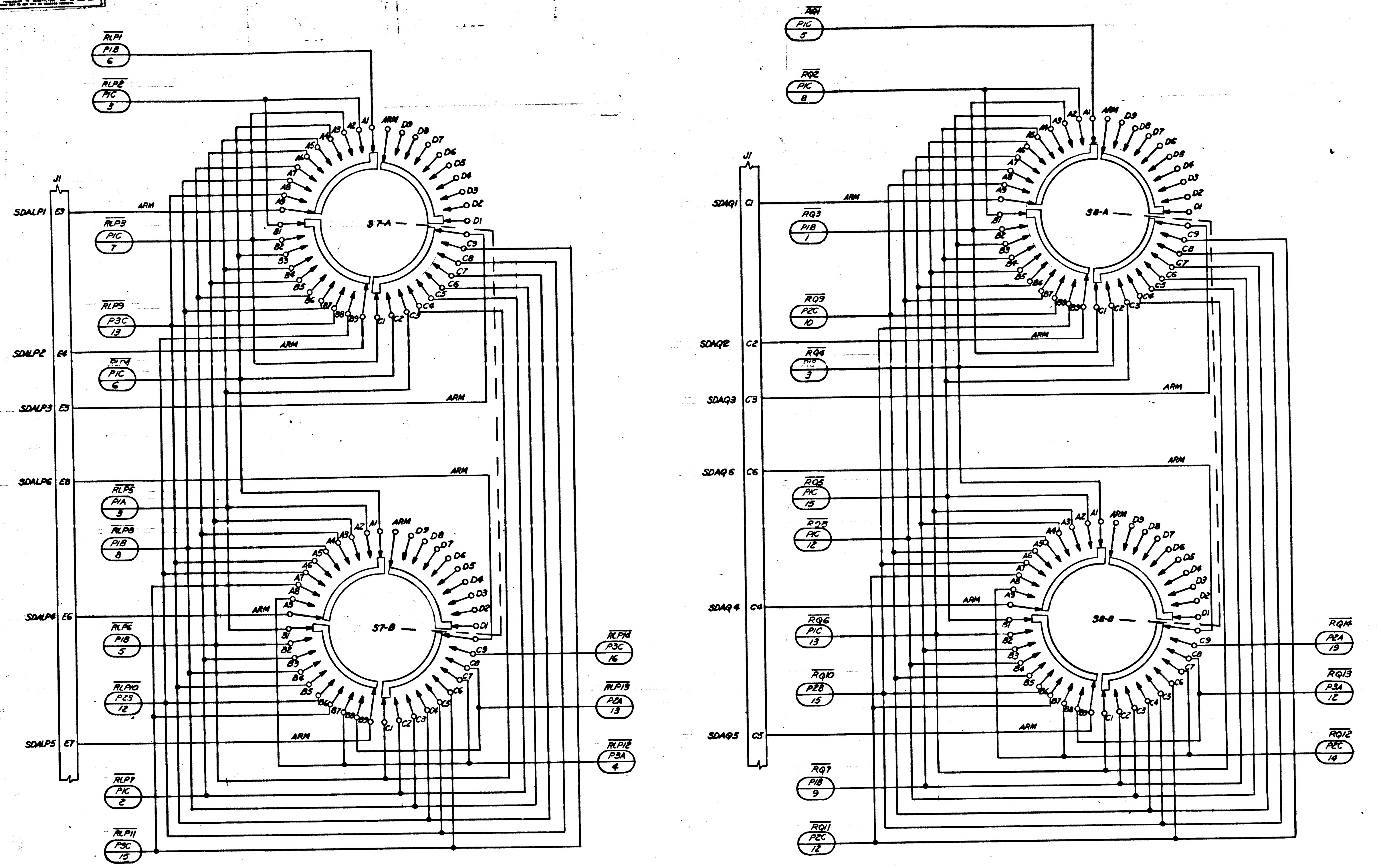
RLP1 P1B 6
RLP2 P1C 3
J1
SDALP1 E3
ARM
RLP3 P1C 7
RLP9 P3C 13
SDALP2 E4
RLP4 P1C 6
SDALP3 E5
SDALP6 E8
RLP5 P1A 3
RLP8 P1B 8
SDALP4 E6
RLP6 P1B 5
RLP10 P2B 12
SDALP5 E7
RLP7 P1C 2
RLP11 P3C 15
RLP14 P3C 16
RLP13 P2A 13
RLP12 P3A 4
S7-A
S7-B
A1 A2 A3 A4 A5 A6 A7 A8 A9
B1 B2 B3 B4 B5 B6 B7 B8 B9
C1 C2 C3 C4 C5 C6 C7 C8 C9
D1 D2 D3 D4 D5 D6 D7 D8 D9
RQ1 P1C 5
RQ2 P1C 8
SDAQ1 C1
RQ3 P1B 1
RQ9 P2C 10
SDAQ2 C2
RQ4 P1B 3
SDAQ3 C3
SDAQ6 C6
RQ5 P1C 13
RQ8 P1C 12
SDAQ4 C4
RQ6 P1C 13
RQ10 P2B 15
SDAQ5 C5
RQ7 P1B 9
RQ11 P2C 12
RQ14 P2A 19
RQ13 P3A 12
RQ12 P2C 14
S8-A
S8-B

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INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014158	1014124
NEXT ASSY	USED ON
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FRACTIONS ± DECIMALS ± ANGLES ±
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HEAT TREATMENT -
FINAL FINISH

QTY REQD | PART OR IDENTIFYING NO.
LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-4??
DRAWN
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL
CODE IDENT NO.
SIZE J
SCALE NONE
WT

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INCHES
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVED
REVISIONS			
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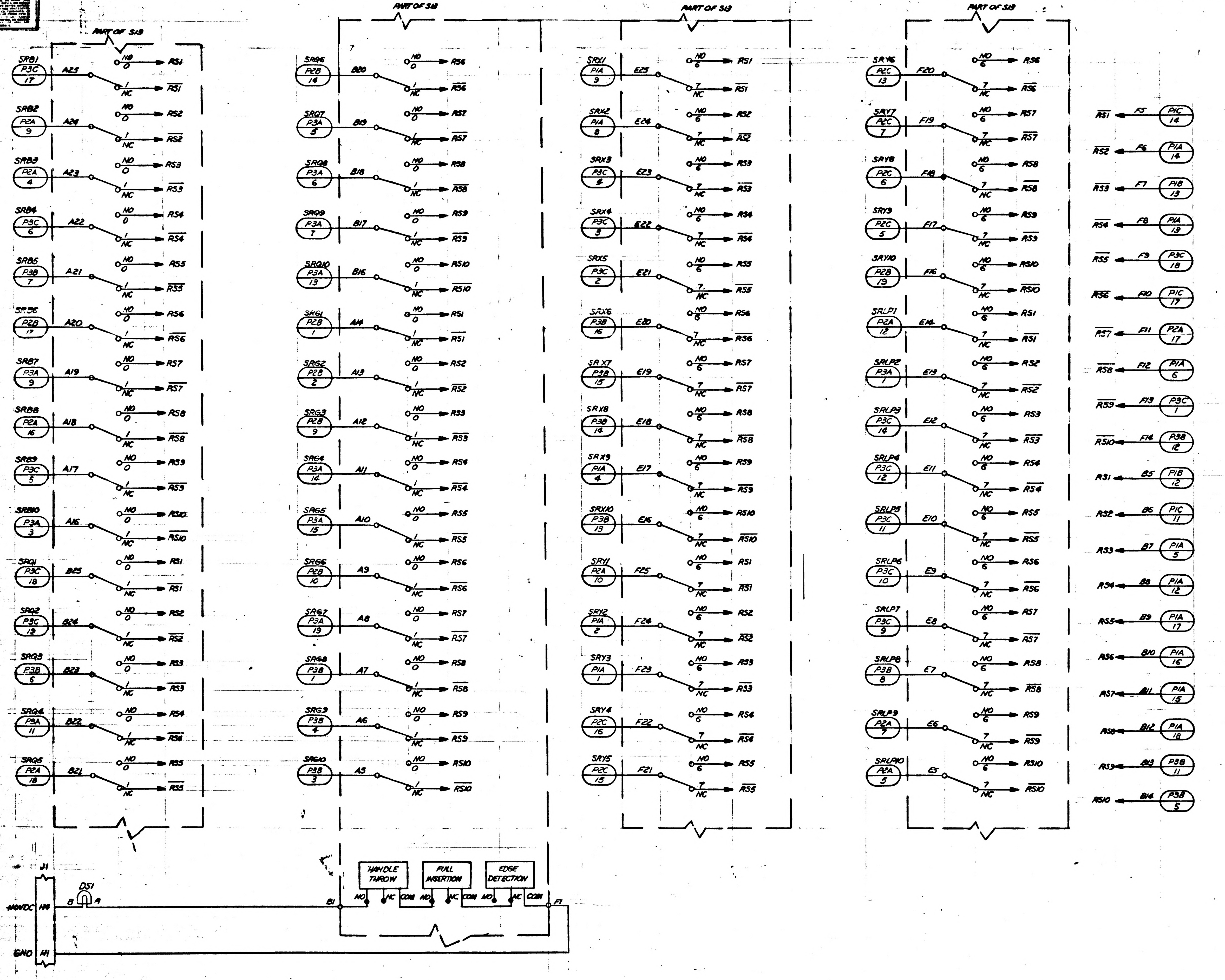
PART OF S19
SRB1 P3C 17 A25 NO 0 RS1 1 NC $\overline{RS1}$
SRB2 P2A 9 A24 NO 0 RS2 1 NC $\overline{RS2}$
SRB3 P2A 4 A23 NO 0 RS3 1 NC $\overline{RS3}$
SRB4 P3C 6 A22 NO 0 RS4 1 NC $\overline{RS4}$
SRB5 P3B 7 A21 NO 0 RS5 1 NC $\overline{RS5}$
SRB6 P2B 17 A20 NO 0 RS6 1 NC $\overline{RS6}$
SRB7 P3A 9 A19 NO 0 RS7 1 NC $\overline{RS7}$
SRB8 P2A 16 A18 NO 0 RS8 1 NC $\overline{RS8}$
SRB9 P3C 5 A17 NO 0 RS9 1 NC $\overline{RS9}$
SRB10 P3A 3 A16 NO 0 RS10 1 NC $\overline{RS10}$
SRQ1 P3C 18 B25 NO 0 RS1 1 NC $\overline{RS1}$
SRQ2 P3C 19 B24 NO 0 RS2 1 NC $\overline{RS2}$
SRQ3 P3B 6 B23 NO 0 RS3 1 NC $\overline{RS3}$
SRQ4 P3A 11 B22 NO 0 RS4 1 NC $\overline{RS4}$
SRQ5 P2A 18 B21 NO 0 RS5 1 NC $\overline{RS5}$
PART OF S18
SRQ6 P2B 14 B20 NO 0 RS6 1 NC $\overline{RS6}$
SRQ7 P3A 8 B19 NO 0 RS7 1 NC $\overline{RS7}$
SRQ8 P3A 6 B18 NO 0 RS8 1 NC $\overline{RS8}$
SRQ9 P3A 7 B17 NO 0 RS9 1 NC $\overline{RS9}$
SRQ10 P3A 13 B16 NO 0 RS10 1 NC $\overline{RS10}$
SRG1 P2B 1 A14 NO 0 RS1 1 NC $\overline{RS1}$
SRG2 P2B 2 A13 NO 0 RS2 1 NC $\overline{RS2}$
SRG3 P2B 9 A12 NO 0 RS3 1 NC $\overline{RS3}$
SRG4 P3A 14 A11 NO 0 RS4 1 NC $\overline{RS4}$
SRG5 P3A 15 A10 NO 0 RS5 1 NC $\overline{RS5}$
SRG6 P2B 10 A9 NO 0 RS6 1 NC $\overline{RS6}$
SRG7 P3A 19 A8 NO 0 RS7 1 NC $\overline{RS7}$
SRG8 P3B 1 A7 NO 0 RS8 1 NC $\overline{RS8}$
SRG9 P3B 4 A6 NO 0 RS9 1 NC $\overline{RS9}$
SRG10 P3B 3 A5 NO 0 RS10 1 NC $\overline{RS10}$
PART OF S13
SRX1 P1A 9 E25 NO 6 RS1 7 NC $\overline{RS1}$
SRX2 P1A 8 E24 NO 6 RS2 7 NC $\overline{RS2}$
SRX3 P3C 4 E23 NO 6 RS3 7 NC $\overline{RS3}$
SRX4 P3C 3 E22 NO 6 RS4 7 NC $\overline{RS4}$
SRX5 P3C 2 E21 NO 6 RS5 7 NC $\overline{RS5}$
SRX6 P3B 16 E20 NO 6 RS6 7 NC $\overline{RS6}$
SR X7 P3B 15 E19 NO 6 RS7 7 NC $\overline{RS7}$
SR X8 P3B 14 E18 NO 6 RS8 7 NC $\overline{RS8}$
SR X9 P1A 4 E17 NO 6 RS9 7 NC $\overline{RS9}$
SRX10 P3B 13 E16 NO 6 RS10 7 NC $\overline{RS10}$
SRY1 P2A 10 F25 NO 6 RS1 7 NC $\overline{RS1}$
SRY2 P1A 2 F24 NO 6 RS2 7 NC $\overline{RS2}$
SRY3 P1A 1 F23 NO 6 RS3 7 NC $\overline{RS3}$
SRY4 P2C 16 F22 NO 6 RS4 7 NC $\overline{RS4}$
SRY5 P2C 15 F21 NO 6 RS5 7 NC $\overline{RS5}$
PART OF S13
SRY6 P2C 13 F20 NO 6 RS6 7 NC $\overline{RS6}$
SRY7 P2C 7 F19 NO 6 RS7 7 NC $\overline{RS7}$
SRY8 P2C 6 F18 NO 6 RS8 7 NC $\overline{RS8}$
SRY9 P2C 5 F17 NO 6 RS9 7 NC $\overline{RS9}$
SRY10 P2B 19 F16 NO 6 RS10 7 NC $\overline{RS10}$
SRLP1 P2A 12 E14 NO 6 RS1 7 NC $\overline{RS1}$
SRLP2 P3A 1 E13 NO 6 RS2 7 NC $\overline{RS2}$
SRLP3 P3C 14 E12 NO 6 RS3 7 NC $\overline{RS3}$
SRLP4 P3C 12 E11 NO 6 RS4 7 NC $\overline{RS4}$
SRLP5 P3C 11 E10 NO 6 RS5 7 NC $\overline{RS5}$
SRLP6 P3C 10 E9 NO 6 RS6 7 NC $\overline{RS6}$
SRLP7 P3C 9 E8 NO 6 RS7 7 NC $\overline{RS7}$
SRLP8 P3B 8 E7 NO 6 RS8 7 NC $\overline{RS8}$
SRLP9 P2A 7 E6 NO 6 RS9 7 NC $\overline{RS9}$
SRLP10 P2A 5 E5 NO 6 RS10 7 NC $\overline{RS10}$
$\overline{RS1}$ F5 P1C 14
$\overline{RS2}$ F6 P1A 14
$\overline{RS3}$ F7 P1B 13
$\overline{RS4}$ F8 P1A 13
$\overline{RS5}$ F9 P3C 18
$\overline{RS6}$ F10 P1C 17
$\overline{RS7}$ F11 P2A 17
$\overline{RS8}$ F12 P1A 6
$\overline{RS9}$ F13 P3C 1
$\overline{RS10}$ F14 P3B 12
RS1 B5 P1B 12
RS2 B6 P1C 11
RS3 B7 P1A 5
RS4 B8 P1A 12
RS5 B9 P1A 17
RS6 B10 P1A 16
RS7 B11 P1A 15
RS8 B12 P1A 18
RS9 B13 P3B 11
RS10 B14 P3B 5
J1
DS1
B
A
+40VDC H4
GND H1
B1
HANDLE THROW
FULL INSERTION
EDGE DETECTION
NO NC COM NO NC COM NO NC COM
F1

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QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
1014158	1014124
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FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN J.C. [illegible] DATE Aug 26 63
CHECKED A. Cappiano 30 Aug 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPUTER TEST SET
LOGIC DRAWER 1 FRONT PANEL
ELECTRICAL SCHEMATIC

CODE IDENT NO. —— SIZE
NASA DRAWING NO. 1014486
SCALE NONE WT SHEET 4 OF 4

1014486

1014486

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PHOTOGRAPHIC SCALE ONLY

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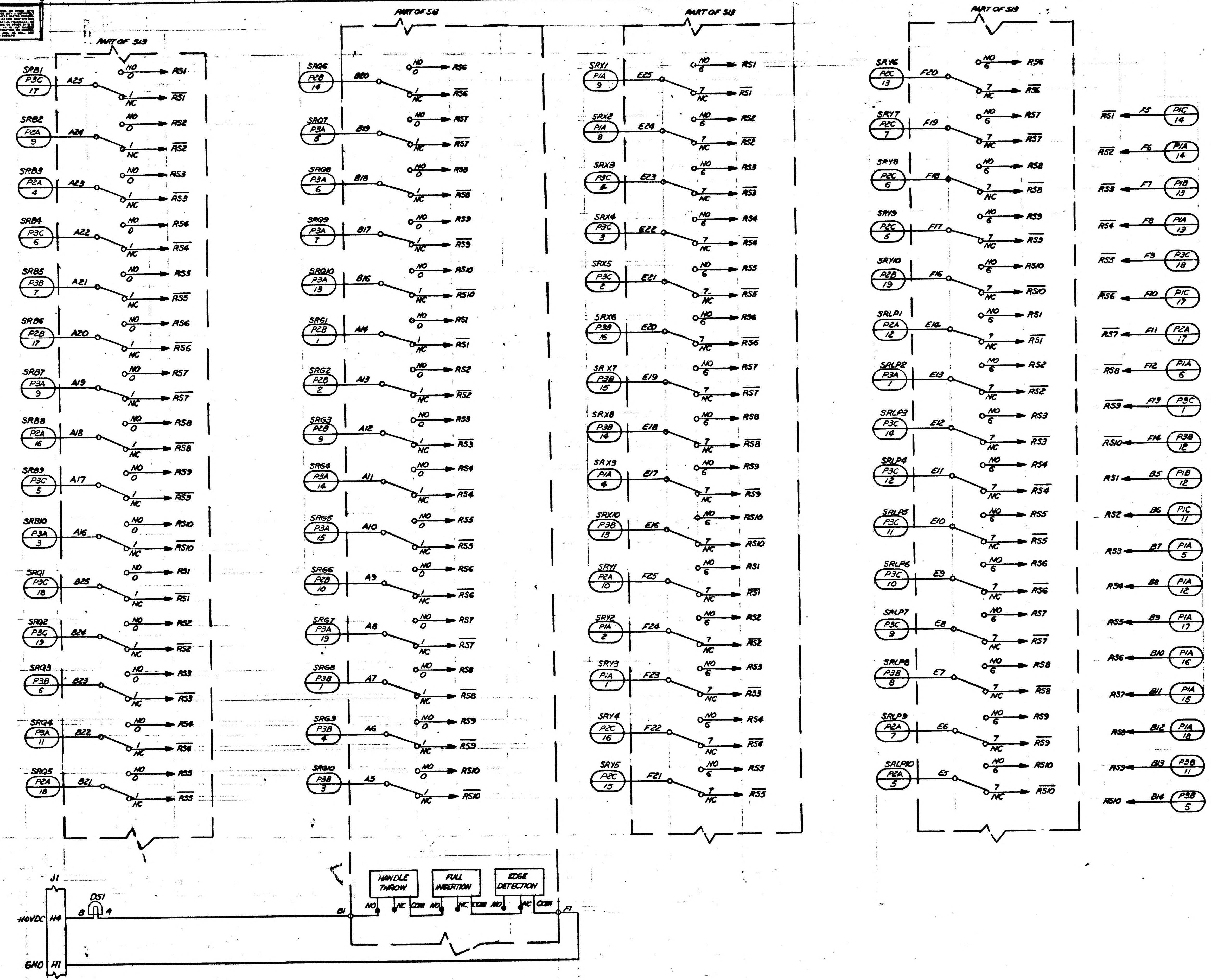
SYM	DESCRIPTION
–	CL B RELEAS PER TDRR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SRB2 P2A 9 A24 RS2
SRB3 P2A 4 A23 RS3
SRB4 P3C 6 A22 RS4
SRB5 P3B 7 A21 RS5
SRB6 P2B 17 A20 RS6
SRB7 P3A 9 A19 RS7
SRB8 P2A 16 A18 RS8
SRB9 P3C 5 A17 RS9
SRB10 P3A 3 A16 RS10
SRQ1 P3C 18 B25 RS1
SRQ2 P3C 19 B24 RS2
SRQ3 P3B 6 B23 RS3
SRQ4 P3A 11 B22 RS4
SRQ5 P2A 18 B21 RS5
PART OF S13
SRQ6 P2B 16 B20 RS6
SRQ7 P3A 8 B19 RS7
SRQ8 P3A 6 B18 RS8
SRQ9 P3A 7 B17 RS9
SRQ10 P3A 13 B16 RS10
SRG1 P2B 1 A14 RS1
SRG2 P2B 2 A13 RS2
SRG3 P2B 9 A12 RS3
SRG4 P3A 14 A11 RS4
SRG5 P3A 15 A10 RS5
SRG6 P2B 10 A9 RS6
SRG7 P3A 19 A8 RS7
SRG8 P3B 1 A7 RS8
SRG9 P3B 4 A6 RS9
SRG10 P3B 3 A5 RS10
PART OF S13
SRX1 P1A 9 E25 NO 6 RS1 7 NC RS1
SRX2 P1A 8 E24 RS2
SRX3 P3C 4 E23 RS3
SRX4 P3C 3 E22 RS4
SRX5 P3C 2 E21 RS5
SRX6 P3B 16 E20 RS6
SRX7 P3B 15 E19 RS7
SRX8 P3B 14 E18 RS8
SRX9 P1A 4 E17 RS9
SRX10 P3B 13 E16 RS10
SRY1 P2A 10 F25 RS1
SRY2 P1A 2 F24 RS2
SRY3 P1A 1 F23 RS3
SRY4 P2C 16 F22 RS4
SRY5 P2C 15 F21 RS5
PART OF S13
SRY6 P2C 13 F20 RS6
SRY7 P2C 7 F19 RS7
SRY8 P2C 6 F18 RS8
SRY9 P2C 5 F17 RS9
SRY10 P2B 19 F16 RS10
SRLP1 P2A 12 E14 RS1
SRLP2 P3A 1 E13 RS2
SRLP3 P3C 14 E12 RS3
SRLP4 P3C 12 E11 RS4
SRLP5 P3C 11 E10 RS5
SRLP6 P3C 10 E9 RS6
SRLP7 P3C 9 E8 RS7
SRLP8 P3B 8 E7 RS8
SRLP9 P2A 7 E6 RS9
SRLP10 P2A 5 E5 RS10
RS1 F5 P1C 14
RS2 F6 P1A 14
RS3 F7 P1B 13
RS4 F8 P1A 13
RS5 F9 P3C 18
RS6 F10 P1C 17
RS7 F11 P2A 17
RS8 F12 P1A 6
RS9 F13 P3C 1
RS10 F14 P3B 12
RS1 B5 P1B 12
RS2 B6 P1C 11
RS3 B7 P1A 5
RS4 B8 P1A 12
RS5 B9 P1A 17
RS6 B10 P1A 16
RS7 B11 P1A 15
RS8 B12 P1A 18
RS9 B13 P3B 11
RS10 B14 P3B 5
J1
DS1
B A
+40VDC H4
GND H1
B1
HANDLE THROW
FULL INSERTION
EDGE DETECTION
NO NC COM
F1

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MASTER

1014158	1014124
NEXT ASSY	USED ON
APPLICATION	

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QTY REQD	PART OR IDENTIFYING NO.

LIST OF MATERIALS

RAYTHEON CO.
LEXINGTON, MASS
CONTRACT NO. NAS-9-4911
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

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COMPU
LOGIC DRAWE
ELECT

CODE IDENT NO. SIZE
SCALE NONE

1014486

INCHES
PHOTOGRAPHIC SCALE ONLY

MACHINE WIRE WRAP TERMINOLOGY

HAND WIRE WRAP TERMINOLOGY

SIGNAL	FROM	TO	FROM	TO	FROM	TO
SDAY5	A2-1-15 A2-5-002	A1-1-15 A1-5-002				
SDAY6	A2-3-14 A2-4-006	A1-1-05 A1-5-001				
SAT5	A2-4-08 A2-8-007	A1-2-12 A1-2-004				
TP6	A2-6-19 A2-9-012	A1-18-17 A1-7-036				
$\overline{\text{AL11}}$	A2-6-15 A2-5-012	A2-42-19 A2-9-084				
$\overline{\text{AL16}}$	A2-5-09 A2-9-009	A2-38-11 A2-1-076				
$\overline{\text{AL14}}$	A2-3-04 A2-4-005	A2-38-01 A2-1-075				
$\overline{\text{AL9}}$	A2-11-11 A2-1-022	A2-41-19 A2-9-082				
$\overline{\text{AL13}}$	A2-10-11 A2-1-020	A2-37-11 A2-1-074				
$\overline{\text{AL12}}$	A2-15-19 A2-9-030	A2-37-01 A2-1-073				
$\overline{\text{AL7}}$	A2-3-15 A2-5-006	A2-40-18 A2-8-080				
TP5	A2-2-04 A2-4-003	A1-18-02 A1-2-035				
$\overline{\text{AL2}}$	A2-12-13 A2-3-024	A2-41-08 A2-8-081				
B2	A2-13-19 A2-9-026	A2-42-17 A2-7-084				
$\overline{\text{AL4}}$	A2-15-18 A2-8-030	A2-42-08 A2-8-083				
$\overline{\text{AL3}}$	A2-14-18 A2-8-028	A2-41-18 A2-8-082				
T25	A2-13-18 A2-8-026	A2-28-17 A2-7-056				
$\overline{\text{AL5}}$	A2-15-17 A2-7-030	A2-42-18 A2-8-084				
$\overline{\text{AL6}}$	A2-14-17 A2-7-028	A2-40-09 A2-9-079				
[$\overline{\text{A3}}$]	A2-6-02 A2-2-011	A1-7-02 A1-2-013				
MB7	A2-4-02 A2-2-007	A2-38-17 A2-7-076				
$\overline{\text{KB6}}$	A2-5-14 A2-4-010	A2-38-07 A2-7-075				
AQ14	A1-15-14 A1-4-030	A2-32-11 A2-1-064				
AG13	A1-13-05 A1-5-025	A2-36-07 A2-7-071				
$\overline{\text{ABK14}}$	A1-33-06 A1-6-065	A1-41-05 A1-5-081				
AB15	A1-15-18 A1-8-030	A2-35-06 A2-5-069				
$\overline{\text{ABK13}}$	A1-32-06 A1-6-063	A1-42-05 A1-5-083				
AZ7	A1-33-17 A1-7-066	A3-15-12 A3-2-030				
AY6	A1-28-09 A1-9-055	A2-32-15 A2-5-064				
AZ5	A1-32-17 A1-7-064	A3-14-12 A3-2-028				
AY5	A1-28-08 A1-8-055	A2-32-05 A2-5-063				
AQ8	A1-11-07 A1-7-021	A2-35-19 A2-9-070				
AQ6	A1-10-17 A1-7-020	A2-34-19 A2-9-068				
AG8	A1-36-11 A1-1-072	A2-36-16 A2-6-072				
ALP8	A1-34-16 A1-6-068	A2-45-03 A2-3-089				
AZ8	A1-31-17 A1-7-062	A3-13-03 A3-3-025				

SIGNAL	FROM	TO	FROM	TO	FROM	TO
SREI1	A1-1-02 A1-2-001	A1-31-07 A1-7-061				
SREI1I	A1-3-11 A1-1-006	A1-32-01 A1-1-068				
SREI1S	A1-6-19 A1-9-012	A1-32-02 A1-2-063				
SREI2	A1-6-09 A1-9-011	A1-36-09 A1-9-071				
SREI2I	A1-5-19 A1-9-010	A1-36-16 A1-6-072				
SREI2S	A1-5-09 A1-9-009	A1-34-17 A1-7-068				
$\overline{\text{WSG}}$	A1-33-12 A1-2-066	A2-41-03 A2-3-081				
$\overline{\text{WLPG}}$	A1-31-18 A1-2-062	A2-42-03 A2-3-083				
$\overline{\text{WXG}}$	A1-31-02 A1-2-061	A2-41-02 A2-2-081				
$\overline{\text{WYG}}$	A1-33-11 A1-1-066	A2-41-12 A2-2-082				
$\overline{\text{WBKG}}$	A1-31-13 A1-3-062	A2-42-13 A2-3-084				
STT08	A3-12-01 A3-1-023	A3-16-17 A3-7-092				
$\overline{\text{CWL13}}$	A1-12-19 A1-9-024	A2-40-06 A2-6-079				
$\overline{\text{CWL16}}$	A1-11-09 A1-9-021	A2-41-16 A2-6-082				
$\overline{\text{CWL14}}$	A1-7-12 A1-2-014	A2-40-16 A2-6-080				
$\overline{\text{CWL15}}$	A1-33-18 A1-8-066	A2-41-06 A2-6-081				
$\overline{\text{SKL}}$	A1-35-13 A1-3-070	A3-8-05 A3-5-015				
$\overline{\text{LCL2}}$	A3-16-06 A3-6-031	A3-10-14 A3-4-020				
ST7B	A3-17-17 A3-7-034	A3-11-01 A3-1-021				
WGG	A1-33-01 A1-1-065	A2-40-13 A2-3-080				
TPA	A2-7-18 A2-8-014	A1-18-06 A1-6-035				
SPWA0	A2-9-17 A2-7-018	A1-3-13 A1-3-006				
$\overline{\text{STD}}$	A2-9-07 A2-7-017	A2-44-05 A2-5-087				
SPWB0	A2-7-07 A2-7-013	A1-2-03 A1-3-003				
CLOAD	A3-3-12 A3-2-006	A3-36-04 A3-4-071				
CREAD	A3-1-03 A3-3-001	A3-35-14 A3-4-070				
CSBSTP	A3-1-13 A3-3-002	A3-35-04 A3-4-069				
CSTRT	A3-2-03 A3-3-003	A3-34-14 A3-4-068				
CWLPG	A3-6-18 A3-8-012	A3-36-18 A3-8-072				
CINKL	A3-4-09 A3-9-007	A3-36-08 A3-8-071				
CSTP	A3-36-03 A3-3-071	A2-45-09 A2-9-089				
CTCSAI	A3-35-13 A3-3-070	A2-45-19 A2-9-090				
CNHRPT	A3-35-03 A3-3-069	A2-40-01 A2-1-079				
CNHNC	A3-34-13 A3-3-068	A2-40-11 A2-1-080				

SIGNAL	FROM	TO	FROM	TO	FROM	TO
CNTRL 1 (13V)	A2-30-07 A2-7-059	A3-44-17 A3-7-088				
CNTRL 2 (3V)	A2-29-08 A2-8-057	A3-45-06 A3-6-089				
ST01	A3-33-19 A3-9-066	A3-22-13 A3-3-044				
ST7A	A3-18-18 A3-8-036	A3-11-04 A3-4-021				
STT01	A3-32-09 A3-9-063	A3-11-05 A3-5-021				
STT03	A3-31-09 A3-9-061	A3-23-14 A3-4-046				
STT04	A3-33-18 A3-8-066	A3-24-15 A3-5-048				
STT05	A3-33-08 A3-8-065	A3-22-17 A3-7-044				
SSTT67B	A3-32-18 A3-8-064	A3-17-02 A3-2-033				
SSTT67A	A3-31-18 A3-8-062	A3-18-03 A3-3-035				
STT09	A3-31-08 A3-8-061	A3-16-05 A3-5-031				
ST1B	A3-17-18 A3-8-034	A3-10-01 A3-1-019				
STRUG	A3-31-06 A3-6-061	A3-17-06 A3-6-033				
STWQG	A3-33-05 A3-5-065	A3-17-03 A3-3-033				
STWG1	A3-31-15 A3-5-062	A3-18-07 A3-7-035				
STWG2	A3-31-05 A3-5-061	A3-16-09 A3-9-031				
STWG3	A3-33-14 A3-4-066	A3-20-01 A3-1-039				
STLINC	A3-31-14 A3-4-062	A3-20-11 A3-1-040				
STOINC	A3-31-04 A3-4-061	A3-21-12 A3-2-042				
$\overline{\text{STTCSA}}$	A3-33-13 A3-3-066	A3-21-13 A3-3-042				
$\overline{\text{STRRPA}}$	A3-33-03 A3-3-065	A3-21-02 A3-2-041				
$\overline{\text{STRCA}}$	A3-32-13 A3-3-064	A3-21-03 A3-3-041				
STSBSTP	A3-31-02 A3-2-061	A3-20-14 A3-4-040				
STSTRT	A3-33-11 A3-1-066	A3-20-15 A3-5-040				
STNHRPT	A3-32-01 A3-1-063	A3-21-16 A3-6-042				
STNHNC	A3-31-11 A3-1-062	A3-19-18 A3-8-038				
1DCT	A3-34-01 A3-1-067	A3-20-19 A3-9-040				
0DCT	A3-31-01 A3-1-061	A3-24-11 A3-1-048				
STRDFB	A3-17-15 A3-5-034	A3-12-15 A3-5-024				
STLDFB	A3-16-14 A3-4-032	A3-10-15 A3-5-020				
$\overline{\text{STTCFB}}$	A3-16-18 A3-8-032	A3-10-06 A3-6-019				
STWP	A3-12-12 A3-2-024	A3-24-06 A3-6-047				
1 POWER (13V)	A3-35-08 A3-8-069	A3-44-16 A3-6-088				
2 POWER (3V)	A3-34-18 A3-8-068	A3-45-16 A3-6-090				
GND	A2-30-19 A2-9-060	A2-30-10 A2-10-059				
ST1A	A3-18-08 A3-8-035	A3-11-14 A3-4-022				

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06680 DR J Manning CHK J J APPD	3/ /64	KB.

A	A	A	A	A	A	A
SH1	SH2	SH3	SH4	SH5	SH6	SH7

REV STATUS OF SHEETS

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014411	1014156
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN W. Kelley DATE
CHECKED W. 9 OCT 63
APPROVAL C. JRK
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014488
SCALE
WT
SHEET 1 OF 7

1014488

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06680 DR J. Manning CHK KJ APPD	3/6/[illegible]	K.B

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{\text{LCL1A}}$	A2-28-14 A2-4-056	A3-20-05 A3-5-039	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
$\overline{\text{DLCTR4B}}$	A2-29-14 A2-4-058	A3-12-07 A3-7-023	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
VPS	A2-29-17 A2-7-058	A3-44-07 A3-7-087	- - -	- - -	- - -	- - -
$\overline{\text{DLCTR2B}}$	A2-30-08 A2-8-059	A3-12-17 A3-7-024	- - -	- - -	- - -	- - -
$\overline{\text{DLCTR3B}}$	A2-28-09 A2-9-055	A3-11-18 A3-8-022	- - -	- - -	- - -	- - -
DLCTRINP2	A2-28-19 A2-9-056	A3-24-01 A3-1-047	- - -	- - -	- - -	- - -
DLCTRIA	A2-30-09 A2-9-059	A3-12-16 A3-6-024	- - -	- - -	- - -	- - -
VC2	A2-28-18 A2-8-056	A3-43-17 A3-7-086	- - -	- - -	- - -	- - -
$\overline{\text{LCL1B}}$	A2-30-16 A2-6-060	A3-21-06 A3-6-041	- - -	- - -	- - -	- - -
DLCTRIB	A2-29-07 A2-7-057	A3-11-16 A3-6-022	- - -	- - -	- - -	- - -
TEST	A2-28-15 A2-5-056	A3-22-03 A3-3-043	- - -	- - -	- - -	- - -
$\boxed{\text{U}}\text{PL}\boxed{\text{0}}$	A2-28-04 A2-4-055	A2-12-16 A2-6-024	- - -	- - -	- - -	- - -
$\boxed{\text{U}}\text{PL}\boxed{\text{1}}$	A2-30-14 A2-4-060	A2-12-15 A2-5-024	- - -	- - -	- - -	- - -
DLCTR3B	A2-30-04 A2-4-059	A3-10-17 A3-7-020	- - -	- - -	- - -	- - -
$\overline{\text{DLCTRINP}}$	A2-29-06 A2-6-057	A3-11-17 A3-7-022	- - -	- - -	- - -	- - -
VC1	A2-28-07 A2-7-055	A3-43-07 A3-7-085	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
DLCTR2B	A2-28-05 A2-5-055	A3-12-06 A3-6-023	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
$\overline{\text{LCL2B}}$	A2-30-17 A2-7-060	A3-20-09 A3-9-039	- - -	- - -	- - -	- - -
$\overline{\text{LCL2A}}$	A2-28-08 A2-8-055	A3-19-08 A3-8-037	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
LTVF	A2-9-09 A2-9-017	A2-44-18 A2-8-088	- - -	- - -	- - -	- - -
SLT	A2-8-19 A2-9-016	A2-29-05 A2-5-057	A2-29-05 A2-5-057	A3-2-04 A3-4-003	A3-2-04 A3-4-003	A3-22-07 A3-7-043
SLT	A3-22-07 A3-7-043	A3-23-04 A3-4-045	A3-23-04 A3-4-045	A3-24-05 A2-5-047	- - -	- - -
TMIA	A2-8-09 A2-9-015	A3-15-01 A3-1-029	- - -	- - -	- - -	- - -
CNTOA	A2-7-19 A2-9-014	A3-13-19 A3-9-026	- - -	- - -	- - -	- - -
$\overline{\text{TRI}}$	A2-7-09 A2-9-013	A1-23-02 A1-2-045	A1-23-02 A1-2-045	A1-11-16 A1-6-022	- - -	- - -
TRA	A2-9-08 A2-8-017	A1-24-06 A1-6-047	- - -	- - -	- - -	- - -
$\overline{\text{TM2A}}$	A2-8-18 A2-8-016	A3-14-11 A3-1-028	- - -	- - -	- - -	- - -
$\overline{\text{TR5}}$	A2-8-07 A2-7-015	A1-23-14 A1-4-046	- - -	- - -	- - -	- - -
$\overline{\text{TR3}}$	A2-7-17 A2-7-014	A1-23-12 A1-2-046	A1-23-12 A1-2-046	A1-10-08 A1-8-019	- - -	- - -
TRI	A2-9-06 A2-6-017	A1-23-13 A1-3-046	A1-23-13 A1-3-046	A1-9-05 A1-3-017	- - -	- - -
RAI	A1-10-12 A1-2-020	A2-4-04 A2-4-007	A2-4-04 A2-4-007	A2-38-09 A2-9-075	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{\text{CNT4A}}$	A3-14-19 A3-9-028	A2-6-13 A2-3-012	A2-6-13 A2-3-012	A1-34-13 A1-3-068	- - -	- - -
$\overline{\text{CT11}}$	A3-8-17 A3-7-016	A3-41-07 A3-7-081	- - -	- - -	- - -	- - -
CT12	A3-9-07 A3-7-017	A3-40-17 A3-7-080	- - -	- - -	- - -	- - -
CWL01	A3-9-17 A3-7-018	A3-40-07 A3-7-079	- - -	- - -	- - -	- - -
CWL02	A3-7-08 A3-8-013	A3-42-16 A3-6-084	- - -	- - -	- - -	- - -
CWL03	A3-7-18 A3-8-014	A3-41-06 A3-6-081	- - -	- - -	- - -	- - -
CWL04	A3-8-08 A3-8-015	A3-40-16 A3-6-080	- - -	- - -	- - -	- - -
CWL05	A3-8-18 A3-8-016	A3-40-06 A3-6-079	- - -	- - -	- - -	- - -
CWL06	A3-9-08 A3-8-017	A3-42-15 A3-5-084	- - -	- - -	- - -	- - -
CWL07	A3-9-18 A3-8-018	A3-42-05 A3-5-083	- - -	- - -	- - -	- - -
CWL08	A3-7-09 A3-9-013	A3-41-15 A3-5-082	- - -	- - -	- - -	- - -
CWL09	A3-7-19 A3-9-014	A3-41-05 A3-5-081	- - -	- - -	- - -	- - -
CWL10	A3-8-09 A3-9-015	A3-42-14 A3-4-084	- - -	- - -	- - -	- - -
CWL11	A3-8-19 A3-9-016	A3-42-04 A3-4-083	- - -	- - -	- - -	- - -
CWL12	A3-9-09 A3-9-017	A3-41-14 A3-4-082	- - -	- - -	- - -	- - -
CWL13	A3-9-19 A3-9-018	A3-41-04 A3-4-081	- - -	- - -	- - -	- - -
CWL14	A3-4-01 A3-1-007	A3-40-14 A3-4-080	- - -	- - -	- - -	- - -
CWL15	A3-4-11 A3-1-008	A3-42-03 A3-3-083	- - -	- - -	- - -	- - -
CWL16	A3-5-01 A3-1-009	A3-41-13 A3-3-082	- - -	- - -	- - -	- - -
CPARBUS	A3-5-11 A3-1-010	A3-41-03 A3-3-081	- - -	- - -	- - -	- - -
CPGT	A3-6-01 A3-1-011	A3-40-13 A3-3-080	- - -	- - -	- - -	- - -
CWAG	A3-6-11 A3-1-012	A3-41-02 A3-2-081	- - -	- - -	- - -	- - -
CWALPG	A3-4-02 A3-2-007	A3-40-12 A3-2-080	- - -	- - -	- - -	- - -
CWZG	A3-4-12 A3-2-008	A3-39-19 A3-9-078	- - -	- - -	- - -	- - -
CWXG	A3-5-02 A3-2-009	A3-39-09 A3-9-077	- - -	- - -	- - -	- - -
CWYG	A3-5-12 A3-2-010	A3-38-19 A3-9-076	- - -	- - -	- - -	- - -
CRUG	A3-6-02 A3-2-011	A3-38-09 A3-9-075	- - -	- - -	- - -	- - -
CWBG	A3-6-12 A3-2-012	A3-37-19 A3-9-074	- - -	- - -	- - -	- - -
CWSG	A3-4-13 A3-3-008	A3-39-08 A3-8-077	- - -	- - -	- - -	- - -
CRGG	A3-5-03 A3-3-009	A3-38-18 A3-8-076	- - -	- - -	- - -	- - -
CWG1	A3-5-13 A3-3-010	A3-38-08 A3-8-075	- - -	- - -	- - -	- - -
CWG2	A3-6-03 A3-3-011	A3-37-18 A3-8-074	- - -	- - -	- - -	- - -
CWG3	A3-6-13 A3-3-012	A3-39-17 A3-7-078	- - -	- - -	- - -	- - -
CWG4	A3-4-04 A3-4-007	A3-39-07 A3-7-077	- - -	- - -	- - -	- - -
CWG5	A3-4-14 A3-4-008	A3-38-17 A3-7-076	- - -	- - -	- - -	- - -
CWG6	A3-5-04 A3-4-009	A3-38-07 A3-7-075	- - -	- - -	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
CWQG	A3-4-03 A3-3-007	A3-39-18 A3-8-078	- - -	- - -	- - -	- - -
CNISQ	A3-5-14 A3-4-010	A3-37-17 A3-7-074	- - -	- - -	- - -	- - -
CLINC	A3-6-04 A3-4-011	A3-37-07 A3-7-073	- - -	- - -	- - -	- - -
CMINC	A3-6-14 A3-4-012	A3-39-16 A3-6-078	- - -	- - -	- - -	- - -
$\overline{\text{CWL10}}$	A1-12-16 A1-6-024	A2-41-15 A2-5-082	- - -	- - -	- - -	- - -
$\overline{\text{CWL9}}$	A1-35-02 A1-2-068	A2-41-05 A2-5-081	- - -	- - -	- - -	- - -
RZ10	A1-36-01 A1-1-071	A3-14-03 A3-3-027	- - -	- - -	- - -	- - -
RZ11	A1-33-07 A1-7-065	A3-14-13 A3-3-028	- - -	- - -	- - -	- - -
RB12	A1-34-03 A1-3-067	A2-36-14 A2-4-072	- - -	- - -	- - -	- - -
RB11	A1-36-12 A1-2-072	A2-36-04 A2-4-071	- - -	- - -	- - -	- - -
RB10	A1-35-01 A1-1-069	A2-35-14 A2-4-070	- - -	- - -	- - -	- - -
RB9	A1-35-11 A1-1-070	A2-35-04 A2-4-069	- - -	- - -	- - -	- - -
RY3	A1-30-09 A1-9-059	A2-31-05 A2-5-061	- - -	- - -	- - -	- - -
RY1	A1-29-19 A1-9-058	A2-33-04 A2-4-065	- - -	- - -	- - -	- - -
RG3	A1-12-13 A1-3-024	A2-34-06 A2-6-067	- - -	- - -	- - -	- - -
RB3	A1-28-18 A1-8-056	A2-35-03 A2-3-069	- - -	- - -	- - -	- - -
RB1	A1-13-13 A1-3-026	A2-34-03 A2-3-067	- - -	- - -	- - -	- - -
RLP2	A1-9-13 A1-3-018	A2-45-02 A2-2-089	- - -	- - -	- - -	- - -
RZ4	A1-14-19 A1-9-028	A3-14-02 A3-2-027	- - -	- - -	- - -	- - -
RZ3	A1-10-04 A1-4-019	A3-13-12 A3-2-026	- - -	- - -	- - -	- - -
RZ1	A1-12-03 A1-3-023	A3-15-11 A3-1-030	- - -	- - -	- - -	- - -
RX2	A1-30-18 A1-8-060	A2-31-12 A2-2-062	- - -	- - -	- - -	- - -
RX1	A1-30-08 A1-8-059	A2-31-02 A2-2-061	- - -	- - -	- - -	- - -
RG4	A1-10-18 A1-8-020	A2-34-16 A2-6-068	- - -	- - -	- - -	- - -
RLP3	A1-12-09 A1-9-023	A2-45-12 A2-2-090	- - -	- - -	- - -	- - -
RY2	A1-29-09 A1-9-057	A2-33-14 A2-4-066	- - -	- - -	- - -	- - -
RB4	A1-30-06 A1-6-059	A2-35-13 A2-3-070	- - -	- - -	- - -	- - -
RLP1	A1-12-06 A1-6-023	A2-44-12 A2-2-088	- - -	- - -	- - -	- - -
RZ2	A1-13-19 A1-9-026	A3-13-02 A3-2-025	- - -	- - -	- - -	- - -
RQ2	A1-11-06 A1-6-021	A2-35-18 A2-8-070	- - -	- - -	- - -	- - -
RQ3	A1-8-12 A1-2-016	A2-36-08 A2-8-071	- - -	- - -	- - -	- - -
RQ4	A1-34-04 A1-4-067	A2-36-18 A2-8-072	- - -	- - -	- - -	- - -
RQ1	A1-9-11 A1-1-018	A2-35-08 A2-8-069	- - -	- - -	- - -	- - -
RLP12	A1-32-07 A1-7-063	A2-44-04 A2-4-087	- - -	- - -	- - -	- - -
RZ9	A1-10-07 A1-7-019	A3-13-13 A3-3-026	- - -	- - -	- - -	- - -
$\overline{\text{CWL11}}$	A1-36-13 A1-3-072	A2-42-05 A2-5-083	- - -	- - -	- - -	- - -

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 01346 DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014411	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN W. Walley DATE 8-26-63
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. ——— SIZE J NASA DRAWING NO. 1014488
SCALE WT SHEET 2 OF 7

1014488

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{CNT8A}$	A2-2-08 A2-8-003	A3-15-09 A3-9-029	A3-15-09 A3-9-029	A1-12-04 A1-4-023	- - -	- - -
STRSS	A2-2-07 A2-7-003	A2-43-19 A2-9-086	- - -	- - -	- - -	- - -
RA14	A2-1-17 A2-7-002	A2-35-12 A2-2-070	A2-35-12 A2-2-070	A1-35-04 A1-4-069	- - -	- - -
TR3	A2-3-16 A2-6-006	A1-22-05 A1-5-043	A1-22-05 A1-5-043	A1-28-02 A1-2-055	- - -	- - -
RA16	A2-2-16 A2-6-004	A2-36-12 A2-2-072	A2-36-12 A2-2-072	A1-7-14 A1-4-014	- - -	- - -
RA11	A2-1-16 A2-6-002	A2-34-02 A2-2-067	A2-34-02 A2-2-067	A1-11-15 A1-5-022	- - -	- - -
TP7	A1-43-14 A1-4-086	A1-17-06 A1-6-033	- - -	- - -	- - -	- - -
KB3	A1-45-13 A1-3-090	A2-37-16 A2-6-074	- - -	- - -	- - -	- - -
TP8	A1-44-03 A1-3-087	A1-16-02 A1-2-031	- - -	- - -	- - -	- - -
SDALP2	A2-13-14 A2-4-026	A1-3-04 A1-4-005	- - -	- - -	- - -	- - -
DAX	A2-15-13 A2-3-030	A3-42-01 A3-1-083	- - -	- - -	- - -	- - -
SDAX6	A2-14-13 A2-3-028	A1-1-06 A1-6-001	- - -	- - -	- - -	- - -
SDAX5	A2-13-13 A2-3-026	A1-1-16 A1-6-002	- - -	- - -	- - -	- - -
SDAQ6	A2-3-19 A2-9-006	A1-1-07 A1-7-001	- - -	- - -	- - -	- - -
SDAQ1	A2-14-11 A2-1-028	A1-3-17 A1-7-006	- - -	- - -	- - -	- - -
SDAX4	A2-15-12 A2-2-030	A1-2-06 A1-6-003	- - -	- - -	- - -	- - -
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ST READ	A3-15-19 A3-9-030	A3-31-12 A3-8-062	- - -	- - -	- - -	- - -
STWY6	A3-18-01 A3-1-035	A3-31-16 A3-6-062	- - -	- - -	- - -	- - -
STINHL	A3-10-11 A3-1-020	A3-33-02 A3-2-065	- - -	- - -	- - -	- - -
STWX6	A3-18-11 A3-1-036	A3-32-06 A3-6-063	- - -	- - -	- - -	- - -
ST LOAD	A3-11-11 A3-1-022	A3-32-02 A3-2-063	- - -	- - -	- - -	- - -
STWZ6	A3-16-02 A3-2-031	A3-32-16 A3-6-064	- - -	- - -	- - -	- - -
STWALPG	A3-33-16 A3-6-066	A3-16-12 A3-2-032	- - -	- - -	- - -	- - -
STT25	A3-10-12 A3-2-020	A3-33-12 A3-2-066	- - -	- - -	- - -	- - -
STSTP	A3-11-02 A3-2-021	A3-33-01 A3-1-065	- - -	- - -	- - -	- - -
STWA6	A3-16-16 A3-6-032	A3-31-07 A3-7-061	- - -	- - -	- - -	- - -
STTCSAI	A3-12-02 A3-2-023	A3-32-11 A3-1-064	- - -	- - -	- - -	- - -
STPGT	A3-33-06 A3-6-065	A3-24-16 A3-6-048	- - -	- - -	- - -	- - -
STB2	A3-10-03 A3-3-019	A3-18-02 A3-2-035	A3-18-02 A3-2-035	A3-32-19 A3-9-064	- - -	- - -
STWLPG	A3-31-13 A3-3-062	A3-16-01 A3-1-031	- - -	- - -	- - -	- - -
STWBKG	A3-31-03 A3-3-061	A3-16-11 A3-1-032	- - -	- - -	- - -	- - -
STT12	A3-11-13 A3-3-022	A3-32-17 A3-7-064	- - -	- - -	- - -	- - -
STRL16	A3-12-03 A3-3-023	A3-32-12 A3-2-064	- - -	- - -	- - -	- - -
STWG4	A3-33-04 A3-4-065	A3-16-07 A3-7-031	- - -	- - -	- - -	- - -
SSTOS2	A3-10-04 A3-4-019	A3-18-16 A3-6-036	- - -	- - -	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
STWSG	A3-32-15 A3-5-064	A3-16-13 A3-3-032	- - -	- - -	- - -	- - -
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STWBG	A3-33-15 A3-5-066	A3-17-13 A3-3-034	- - -	- - -	- - -	- - -
STT11	A3-12-04 A3-4-023	A3-33-07 A3-7-065	- - -	- - -	- - -	- - -
STT10	A3-12-14 A3-4-024	A3-33-17 A3-7-066	- - -	- - -	- - -	- - -
STT07	A3-17-07 A3-7-033	A3-32-08 A3-8-063	- - -	- - -	- - -	- - -
STRG6	A3-32-05 A3-5-063	A3-17-14 A3-4-034	- - -	- - -	- - -	- - -
STT06A	A3-10-05 A3-5-019	A3-17-08 A3-8-033	- - -	- - -	- - -	- - -
STWG6	A3-32-04 A3-4-063	A3-18-04 A3-4-035	- - -	- - -	- - -	- - -
STT02	A3-12-05 A3-5-023	A3-31-19 A3-9-062	- - -	- - -	- - -	- - -
STWG5	A3-32-14 A3-4-064	A3-18-14 A3-4-036	- - -	- - -	- - -	- - -
STPARBS	A3-10-16 A3-6-020	A3-32-07 A3-7-063	- - -	- - -	- - -	- - -
STWL15	A3-11-06 A3-6-021	A3-31-17 A3-7-062	- - -	- - -	- - -	- - -
STPW1	A1-18-16 A1-6-036	A3-8-04 A3-4-015	- - -	- - -	- - -	- - -
DLCTRINP1	A3-10-07 A3-7-019	A3-21-15 A3-5-042	- - -	- - -	- - -	- - -
CTRSTB	A3-11-07 A3-7-021	A2-29-04 A2-4-057	- - -	- - -	- - -	- - -
STPW2	A1-22-12 A1-2-044	A3-8-14 A3-4-016	- - -	- - -	- - -	- - -
$\overline{WBG}$	A1-35-05 A1-5-069	A2-42-02 A2-2-083	- - -	- - -	- - -	- - -
$\overline{SMO}$	A1-34-15 A1-5-068	A2-45-06 A2-6-089	- - -	- - -	- - -	- - -
$\overline{RBK15}$	A1-29-12 A1-2-058	A1-38-05 A1-5-075	- - -	- - -	- - -	- - -
RBK15	A1-29-02 A1-2-057	A1-44-14 A1-4-088	A1-44-14 A1-4-088	A3-2-15 A3-5-084	- - -	- - -
$\overline{Q2}$	A1-36-14 A1-4-072	A2-40-08 A2-8-079	- - -	- - -	- - -	- - -
WALPG	A1-31-11 A1-1-062	A2-40-02 A2-2-079	- - -	- - -	- - -	- - -
WAG	A1-31-01 A1-1-061	A2-42-11 A2-1-084	- - -	- - -	- - -	- - -
WG5	A1-34-08 A1-8-067	A2-40-03 A2-3-079	- - -	- - -	- - -	- - -
WG4	A1-36-17 A1-7-072	A2-42-12 A2-2-084	- - -	- - -	- - -	- - -
$\overline{RDFB}$	A1-36-07 A1-7-071	A2-39-11 A2-1-078	- - -	- - -	- - -	- - -
$\overline{INHL}$	A1-33-04 A1-4-065	A2-37-12 A2-2-074	- - -	- - -	- - -	- - -
$\overline{T10}$	A1-32-14 A1-4-064	A2-40-07 A2-7-079	- - -	- - -	- - -	- - -
$\overline{WQG}$	A1-31-04 A1-4-061	A2-41-13 A2-3-082	- - -	- - -	- - -	- - -
$\overline{TG7}$	A1-33-03 A1-3-065	A2-42-16 A2-6-084	A2-42-16 A2-6-084	A2-4-15 A2-5-008	- - -	- - -
$\overline{WZG}$	A1-32-13 A1-3-064	A2-40-12 A2-2-080	- - -	- - -	- - -	- - -
RY8	A1-14-14 A1-4-028	A2-33-15 A2-5-066	- - -	- - -	- - -	- - -
$\overline{CWL7}$	A1-35-18 A1-8-070	A2-40-05 A2-5-079	- - -	- - -	- - -	- - -
$\overline{RBK11}$	A1-36-06 A1-6-071	A1-41-06 A1-6-081	- - -	- - -	- - -	- - -
RBK11	A1-36-19 A1-9-072	A1-41-16 A1-6-082	A1-41-16 A1-6-082	A3-10-02 A3-2-019	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
RQ9	A1-34-06 A1-6-067	A2-36-09 A2-9-071	- - -	- - -	- - -	- - -
RQ11	A1-36-08 A1-8-071	A2-31-01 A2-1-061	- - -	- - -	- - -	- - -
RQ12	A1-35-08 A1-8-069	A2-31-11 A2-1-062	- - -	- - -	- - -	- - -
RX12	A1-15-16 A1-6-030	A2-33-13 A2-3-066	- - -	- - -	- - -	- - -
RY11	A1-15-07 A1-7-029	A2-32-06 A2-6-063	- - -	- - -	- - -	- - -
RBK12	A1-36-02 A1-2-071	A1-40-16 A1-6-080	A1-40-16 A1-6-080	A3-11-12 A3-2-022	- - -	- - -
$\overline{RBK12}$	A1-35-06 A1-6-069	A1-40-06 A1-6-079	- - -	- - -	- - -	- - -
RZ12	A1-35-19 A1-9-070	A3-15-03 A3-3-029	- - -	- - -	- - -	- - -
RY12	A1-14-04 A1-4-027	A2-32-16 A2-6-064	- - -	- - -	- - -	- - -
RY10	A1-13-14 A1-4-026	A2-31-16 A2-6-062	- - -	- - -	- - -	- - -
RLP10	A1-33-16 A1-6-066	A2-43-04 A2-4-085	- - -	- - -	- - -	- - -
RX10	A1-15-06 A1-6-029	A2-32-13 A2-3-064	- - -	- - -	- - -	- - -
RQ10	A1-32-12 A1-2-064	A2-36-19 A2-9-072	- - -	- - -	- - -	- - -
RG9	A1-34-05 A1-5-067	A2-34-07 A2-7-067	- - -	- - -	- - -	- - -
RLP4	A1-11-13 A1-3-022	A2-43-03 A2-3-085	- - -	- - -	- - -	- - -
RY4	A1-28-19 A1-9-056	A2-31-15 A2-5-062	- - -	- - -	- - -	- - -
RB2	A1-10-09 A1-9-019	A2-34-13 A2-3-068	- - -	- - -	- - -	- - -
RG2	A1-11-19 A1-9-022	A2-36-15 A2-5-072	- - -	- - -	- - -	- - -
RG1	A1-35-14 A1-4-070	A2-36-05 A2-5-071	- - -	- - -	- - -	- - -
$\overline{CWL1}$	A1-13-18 A1-8-026	A2-40-04 A2-4-079	- - -	- - -	- - -	- - -
$\overline{RL7}$	A2-11-04 A2-4-021	A2-40-19 A2-9-080	- - -	- - -	- - -	- - -
$\overline{T25}$	A2-1-19 A2-9-002	A2-41-17 A2-7-082	- - -	- - -	- - -	- - -
SDAG5	A2-5-07 A2-7-009	A1-1-18 A1-8-002	- - -	- - -	- - -	- - -
SDAB6	A2-4-07 A2-7-007	A1-1-09 A1-9-001	- - -	- - -	- - -	- - -
$\overline{STU}$	A2-5-06 A2-6-009	A2-45-05 A2-5-089	- - -	- - -	- - -	- - -
DAY	A2-5-15 A2-5-010	A3-40-01 A3-1-079	- - -	- - -	- - -	- - -
SDAB4	A2-10-04 A2-4-019	A1-2-09 A1-9-003	- - -	- - -	- - -	- - -
SDAG4	A2-12-03 A2-3-023	A1-2-08 A1-8-003	- - -	- - -	- - -	- - -
DAB	A2-3-02 A2-2-005	A3-40-11 A3-1-080	- - -	- - -	- - -	- - -
DALP	A2-3-11 A2-1-006	A3-42-11 A3-1-084	- - -	- - -	- - -	- - -
DAG	A2-5-19 A2-9-010	A3-41-01 A3-1-081	- - -	- - -	- - -	- - -
$\overline{SMU}$	A2-6-18 A2-8-012	A2-44-07 A2-7-087	- - -	- - -	- - -	- - -
SDAG3	A2-5-18 A2-8-010	A1-2-18 A1-8-004	- - -	- - -	- - -	- - -
SDAB5	A2-4-18 A2-8-008	A1-1-19 A1-9-002	- - -	- - -	- - -	- - -
SDAG1	A2-11-07 A2-7-021	A1-3-18 A1-8-006	- - -	- - -	- - -	- - -
SDAY4	A2-1-06 A2-6-001	A1-2-05 A1-5-003	- - -	- - -	- - -	- - -

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TORR		
A	CHANGED PER TORR 06680 DR J. Munn CHK JCJ APPD	3/4/64	K B

FOR INFORMATION ONLY
CLASS B RELEASE TORR NO. 04506 DATE 10/30/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

1014411	1014156
NEXT ASSY	USED ON
APPLICATION	

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Kelley DATE 8-26-63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 9/30/63
APPROVAL 30 Sep 63
APPROVAL 9/30/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE WRAP LIST A18

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014488
SCALE
WT
SHEET 3 OF 7

SIGNAL	FROM	TO	FROM	TO	FROM	TO
RA3	A2-6-03 A2-3-011	A1-12-11 A1-1-024	A1-12-11 A1-1-024	A2-39-09 A2-9-077	- - -	- - -
RA5	A2-5-13 A2-3-010	A1-15-15 A1-5-030	A1-15-15 A1-5-030	A2-34-01 A2-1-067	- - -	- - -
$\overline{STP}$	A2-6-12 A2-2-012	A1-12-08 A1-8-023	A1-12-08 A1-8-023	A2-44-06 A2-6-087	- - -	- - -
STV	A2-5-17 A2-7-010	A2-45-15 A2-5-090	- - -	- - -	- - -	- - -
RA4	A2-4-17 A2-7-008	A2-39-19 A2-9-078	A2-39-19 A2-9-078	A1-10-02 A1-2-019	- - -	- - -
RA6	A2-6-16 A2-6-012	A2-34-11 A2-1-068	A2-34-11 A2-1-068	A1-15-09 A1-9-029	- - -	- - -
RA2	A2-6-06 A2-6-011	A1-15-19 A1-9-030	A1-15-19 A1-9-030	A2-38-19 A2-9-076	- - -	- - -
$\overline{TR2}$	A2-5-16 A2-6-010	A1-23-16 A1-6-096	A1-23-16 A1-6-096	A1-7-13 A1-3-014	- - -	- - -
$\overline{STV}$	A2-6-14 A2-4-012	A3-13-01 A3-1-025	- - -	- - -	- - -	- - -
STD	A2-2-12 A2-2-009	A2-43-15 A2-5-086	- - -	- - -	- - -	- - -
RA7	A2-2-02 A2-2-003	A1-14-09 A1-9-027	A1-14-09 A1-9-027	A2-35-01 A2-1-069	- - -	- - -
$\overline{TN3A}$	A2-1-12 A2-2-002	A3-14-01 A3-1-027	- - -	- - -	- - -	- - -
TR2	A2-1-02 A2-2-001	A1-24-12 A1-2-048	A1-24-12 A1-2-048	A1-8-13 A1-3-016	- - -	- - -
SDAB1	A2-11-05 A2-5-021	A1-3-19 A1-9-006	- - -	- - -	- - -	- - -
SDAB6	A2-10-05 A2-5-019	A1-1-08 A1-8-001	- - -	- - -	- - -	- - -
SDA62	A2-12-17 A2-7-024	A1-3-08 A1-8-005	- - -	- - -	- - -	- - -
SDAY1	A2-2-14 A2-4-004	A1-3-15 A1-5-006	- - -	- - -	- - -	- - -
SDAY2	A2-1-14 A2-4-002	A1-3-05 A1-5-005	- - -	- - -	- - -	- - -
SDAY3	A2-3-13 A2-3-006	A1-2-15 A1-5-004	- - -	- - -	- - -	- - -
SDAB2	A2-9-02 A2-2-017	A1-3-09 A1-9-005	- - -	- - -	- - -	- - -
SDAB3	A2-7-12 A2-2-014	A1-2-19 A1-9-004	- - -	- - -	- - -	- - -
TP4	A2-1-09 A2-9-001	A1-16-13 A1-3-032	- - -	- - -	- - -	- - -
SPLT	A2-1-18 A2-8-002	A1-17-13 A1-3-034	- - -	- - -	- - -	- - -
$\overline{CLB1}$	A2-1-08 A2-8-001	A3-12-09 A3-9-023	- - -	- - -	- - -	- - -
LLT	A2-3-17 A2-7-006	A2-45-08 A2-8-089	- - -	- - -	- - -	- - -
SDALP6	A2-3-07 A2-7-005	A1-1-04 A1-4-001	- - -	- - -	- - -	- - -
TP3	A2-2-17 A2-7-004	A1-17-03 A1-3-033	- - -	- - -	- - -	- - -
SDAQ2	A2-1-07 A2-7-001	A1-3-07 A1-7-005	- - -	- - -	- - -	- - -
DAQ	A1-43-04 A1-4-085	A3-41-11 A3-1-082	- - -	- - -	- - -	- - -
$\overline{SMU1}$	A1-45-03 A1-3-089	A2-44-8 A2-8-087	- - -	- - -	- - -	- - -
SDALP5	A1-44-13 A1-3-088	A1-1-14 A1-4-002	- - -	- - -	- - -	- - -
SDALP4	A1-45-12 A1-2-090	A1-2-04 A1-4-003	- - -	- - -	- - -	- - -
SDALP1	A1-45-02 A1-2-089	A1-3-14 A1-4-006	- - -	- - -	- - -	- - -
$\overline{SMU0}$	A1-43-12 A1-2-086	A2-43-08 A2-8-085	- - -	- - -	- - -	- - -
SMUI	A2-14-06 A2-6-027	A2-43-18 A2-8-086	- - -	- - -	- - -	- - -
SMUQ	A1-43-02 A1-2-085	A2-45-17 A2-7-090	- - -	- - -	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{T1}$	A2-12-04 A2-4-023	A2-42-01 A2-1-083	- - -	- - -	- - -	- - -
SM0	A1-30-12 A1-2-060	A3-11-15 A3-5-022	- - -	- - -	- - -	- - -
$\overline{KBCLR}$	A2-39-18 A2-8-078	- - -	- - -	- - -	- - -	- - -
$\overline{STSTPIT}$	A3-10-08 A3-8-019	A3-32-03 A3-3-063	- - -	- - -	- - -	- - -
$\overline{STQ2}$	A3-10-18 A3-8-020	A3-33-09 A3-9-065	- - -	- - -	- - -	- - -
$\overline{LCL1}$	A3-11-08 A3-8-021	A3-20-04 A3-4-039	- - -	- - -	- - -	- - -
$\overline{Q1}$	A3-2-17 A3-7-004	A3-19-17 A3-7-038	- - -	- - -	- - -	- - -
$\overline{T3}$	A3-3-07 A3-7-005	A3-20-18 A3-8-040	- - -	- - -	- - -	- - -
$\overline{T4}$	A3-2-16 A3-6-004	A3-21-19 A3-9-042	- - -	- - -	- - -	- - -
$\overline{T5}$	A3-3-06 A3-6-005	A3-22-12 A3-2-044	- - -	- - -	- - -	- - -
$\overline{T6}$	A3-3-16 A3-6-006	A3-23-13 A3-3-046	- - -	- - -	- - -	- - -
$\overline{T7}$	A3-1-07 A3-7-001	A3-24-14 A3-4-048	- - -	- - -	- - -	- - -
$\overline{T9}$	A3-1-17 A3-7-002	A3-22-16 A3-6-044	- - -	- - -	- - -	- - -
$\overline{RUG}$	A3-3-17 A3-7-006	A3-17-12 A3-2-034	- - -	- - -	- - -	- - -
$\overline{WG1}$	A3-3-08 A3-8-005	A3-18-13 A3-3-036	- - -	- - -	- - -	- - -
$\overline{W62}$	A3-3-18 A3-8-006	A3-16-15 A3-5-032	- - -	- - -	- - -	- - -
$\overline{W63}$	A3-1-09 A3-9-001	A3-17-16 A3-6-034	- - -	- - -	- - -	- - -
TSTP	A3-12-08 A3-8-023	A3-17-19 A3-9-034	- - -	- - -	- - -	- - -
R1 IN	A3-12-18 A3-8-024	A3-21-11 A3-1-042	- - -	- - -	- - -	- - -
R2 IN	A3-10-09 A3-9-019	A3-19-13 A3-3-038	- - -	- - -	- - -	- - -
R3 IN	A3-10-19 A3-9-020	A3-19-14 A3-4-038	- - -	- - -	- - -	- - -
R4 IN	A3-11-09 A3-9-021	A3-21-14 A3-4-042	- - -	- - -	- - -	- - -
RRPA	A2-37-13 A2-3-074	A3-18-17 A3-7-036	- - -	- - -	- - -	- - -
RCA	A2-38-03 A2-3-075	A3-16-19 A3-9-032	- - -	- - -	- - -	- - -
LCL	A3-11-19 A3-9-022	A2-5-05 A2-5-009	- - -	- - -	- - -	- - -
CQ1	A3-3-09 A3-9-005	A3-42-19 A3-9-084	- - -	- - -	- - -	- - -
$\overline{CQ2}$	A3-3-19 A3-9-006	A3-42-09 A3-9-083	- - -	- - -	- - -	- - -
CB2	A3-8-15 A3-5-016	A3-41-19 A3-9-082	- - -	- - -	- - -	- - -
CT01	A3-9-05 A3-5-017	A3-41-09 A3-9-081	- - -	- - -	- - -	- - -
CT02	A3-9-15 A3-5-018	A3-40-19 A3-9-080	- - -	- - -	- - -	- - -
CT03	A3-7-06 A3-6-013	A3-42-18 A3-8-084	- - -	- - -	- - -	- - -
CT04	A3-7-16 A3-6-014	A3-42-08 A3-8-083	- - -	- - -	- - -	- - -
CT05	A3-8-16 A3-6-016	A3-41-18 A3-8-082	- - -	- - -	- - -	- - -
CT06	A3-9-06 A3-6-017	A3-41-08 A3-8-081	- - -	- - -	- - -	- - -
CT07	A3-9-16 A3-6-018	A3-40-18 A3-8-080	- - -	- - -	- - -	- - -
CT08	A3-7-07 A3-7-013	A3-42-17 A3-7-084	- - -	- - -	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
CT09	A3-7-17 A3-7-014	A3-42-07 A3-7-083	- - -	- - -	- - -	- - -
CT10	A3-8-07 A3-7-015	A3-41-17 A3-7-082	- - -	- - -	- - -	- - -
$\overline{KB3}$	A2-5-02 A2-2-009	A2-38-06 A2-6-075	- - -	- - -	- - -	- - -
SPWB1	A2-9-16 A2-6-018	A1-1-13 A1-3-002	- - -	- - -	- - -	- - -
[$\overline{KBERA}$]	A2-4-16 A2-6-008	A2-38-18 A2-8-076	- - -	- - -	- - -	- - -
[$\overline{KBSPC}$]	A2-6-09 A2-9-011	A2-37-18 A2-8-074	- - -	- - -	- - -	- - -
[$\overline{R1}$]	A2-14-04 A2-4-027	A1-35-03 A1-3-069	- - -	- - -	- - -	- - -
[$\overline{R2}$]	A2-13-04 A2-4-025	A1-13-08 A1-8-025	- - -	- - -	- - -	- - -
[KBSTP]	A2-15-03 A2-3-029	A2-39-17 A2-7-078	- - -	- - -	- - -	- - -
$\overline{KB5}$	A2-14-03 A2-3-027	A2-37-07 A2-7-073	- - -	- - -	- - -	- - -
$\overline{SRM}$	A2-13-03 A2-3-025	A1-1-12 A1-2-002	- - -	- - -	- - -	- - -
[$\overline{KBERR}$]	A2-15-02 A2-2-029	A1-35-09 A1-9-069	A1-35-09 A1-9-069	A2-39-08 A2-8-077	- - -	- - -
$\overline{RB0}$	A2-14-02 A2-2-027	A2-33-19 A2-9-066	- - -	- - -	- - -	- - -
[$\overline{KBSTP}$]	A2-13-02 A2-2-025	A2-37-08 A2-8-073	A2-37-08 A2-8-073	A1-9-02 A1-2-017	- - -	- - -
[$\overline{KBINFO}$]	A2-15-01 A2-1-029	A1-32-03 A1-3-063	- - -	- - -	- - -	- - -
KB1	A2-14-01 A2-1-027	A2-38-15 A2-5-076	- - -	- - -	- - -	- - -
KB0	A2-13-17 A2-7-026	A2-33-09 A2-9-065	- - -	- - -	- - -	- - -
KB6	A2-15-16 A2-6-030	A2-37-17 A2-7-074	- - -	- - -	- - -	- - -
$\overline{RL8}$	A2-13-16 A2-6-026	A2-41-09 A2-9-081	- - -	- - -	- - -	- - -
$\overline{TR6}$	A2-13-06 A2-6-025	A1-24-05 A1-5-047	- - -	- - -	- - -	- - -
$\overline{LDFB}$	A2-15-05 A2-5-029	A2-41-01 A2-1-081	- - -	- - -	- - -	- - -
SRT1	A2-14-05 A2-5-027	A1-3-02 A1-2-005	- - -	- - -	- - -	- - -
$\overline{RL10}$	A2-13-05 A2-5-025	A2-42-09 A2-9-083	- - -	- - -	- - -	- - -
TCFB	A2-15-04 A2-4-029	A2-42-07 A2-7-083	- - -	- - -	- - -	- - -
SRT01	A2-1-05 A2-5-001	A1-3-12 A1-2-006	- - -	- - -	- - -	- - -
LDFB	A2-6-17 A2-7-012	A2-41-11 A2-1-082	- - -	- - -	- - -	- - -
RDFB	A2-3-12 A2-2-006	A2-39-01 A2-1-77	- - -	- - -	- - -	- - -
TR7	A1-43-13 A1-3-086	A1-24-15 A1-5-048	- - -	- - -	- - -	- - -
SPWN	A1-43-03 A1-3-085	A1-3-03 A1-3-005	- - -	- - -	- - -	- - -
SPWB2	A1-44-02 A1-2-087	A1-1-03 A1-3-001	- - -	- - -	- - -	- - -
KB2	A1-45-11 A1-1-090	A2-39-15 A2-5-078	- - -	- - -	- - -	- - -
$\overline{TR8}$	A2-3-09 A2-9-005	A1-22-04 A1-4-043	- - -	- - -	- - -	- - -
SRE	A1-31-03 A1-3-061	A2-2-19 A2-9-004	A2-2-19 A2-9-004	A3-12-11 A3-1-024	- - -	- - -
STP	A2-2-09 A2-9-003	A2-43-16 A2-6-086	- - -	- - -	- - -	- - -
KB4	A2-9-18 A2-8-018	A2-38-16 A2-6-076	- - -	- - -	- - -	- - -
KB5	A2-8-08 A2-8-015	A2-39-16 A2-6-078	- - -	- - -	- - -	- - -

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR ...		
A	CHANGED PER TDRR 06680 DR J. Manning CHK J.J APPD	3-4-4	KB

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 306 DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014411	1019156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014488
SCALE
WT
SHEET 4 OF 7

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06680 DR J. Manning CHK J.J. APPD	3/7/4	K.B

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{RS12}$	A1-42-06 A1-6-083	A1-12-02 A1-2-083	— —	— —	— —	— —
	— —	— —	— —	— —	— —	— —
	— —	— —	— —	— —	— —	— —
	— —	— —	— —	— —	— —	— —
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	— —	— —	— —	— —	— —	— —
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	— —	— —	— —	— —	— —	— —
	— —	— —	— —	— —	— —	— —
RAI5	A1-40-15 A1-5-080	A2-36-02 A2-2-071	A2-36-02 A2-2-071	A1-10-19 A1-9-020	— —	— —
RX6	A1-29-08 A1-8-057	A2-33-12 A2-2-066	— —	— —	— —	— —
RX5	A1-15-03 A1-3-029	A2-33-02 A2-2-065	— —	— —	— —	— —
RG7	A1-10-16 A1-6-020	A2-36-06 A2-6-071	— —	— —	— —	— —
RG8	A1-8-02 A1-2-015	A2-35-16 A2-6-070	— —	— —	— —	— —
RG5	A1-34-12 A1-2-068	A2-35-06 A2-6-069	— —	— —	— —	— —
RQ5	A1-34-02 A1-2-067	A2-34-09 A2-9-067	— —	— —	— —	— —
RX7	A1-14-13 A1-3-028	A2-31-03 A2-3-061	— —	— —	— —	— —
RQ7	A1-12-17 A1-7-024	A2-35-09 A2-9-069	— —	— —	— —	— —
RZ6	A1-33-14 A1-4-066	A3-15-02 A3-2-029	— —	— —	— —	— —
RB7	A1-15-05 A1-5-029	A2-34-04 A2-4-067	— —	— —	— —	— —
RB8	A1-14-15 A1-5-028	A2-34-14 A2-4-068	— —	— —	— —	— —
RY7	A1-15-04 A1-4-029	A2-33-05 A2-5-065	— —	— —	— —	— —
RLP7	A1-35-12 A1-2-070	A2-44-13 A2-3-088	— —	— —	— —	— —
$\overline{CWL8}$	A1-33-02 A1-2-065	A2-40-15 A2-5-080	— —	— —	— —	— —
$\overline{CWL5}$	A1-35-17 A1-7-070	A2-42-04 A2-4-083	— —	— —	— —	— —
RB6	A1-35-07 A1-7-069	A2-36-13 A2-3-072	— —	— —	— —	— —
RLP6	A1-36-03 A1-3-071	A2-44-03 A2-3-087	— —	— —	— —	— —
$\overline{CWL6}$	A1-36-18 A1-8-072	A2-42-14 A2-4-084	— —	— —	— —	— —
RG10	A1-36-04 A1-4-071	A2-34-17 A2-7-068	— —	— —	— —	— —
RG11	A1-32-11 A1-1-064	A2-35-07 A2-7-069	— —	— —	— —	— —
RG12	A1-34-07 A1-7-067	A2-35-17 A2-7-070	— —	— —	— —	— —
RX11	A1-13-07 A1-7-025	A2-33-03 A2-3-065	— —	— —	— —	— —
RY9	A1-15-17 A1-7-030	A2-31-06 A2-6-061	— —	— —	— —	— —
$\overline{CWL12}$	A1-9-12 A1-2-018	A2-42-15 A2-5-084	— —	— —	— —	— —
RX9	A1-11-12 A1-2-022	A2-32-03 A2-3-063	— —	— —	— —	— —
RLP9	A1-31-06 A1-6-061	A2-45-13 A2-3-090	— —	— —	— —	— —

SIGNAL	FROM	TO	FROM	TO	FROM	TO
RLP11	A1-33-05 A1-5-065	A2-43-14 A2-4-086	— —	— —	— —	— —
LLDFB	A1-37-05 A1-5-073	A3-15-17 A3-7-030	— —	— —	— —	— —
LRDFB	A1-39-14 A1-4-078	A3-15-07 A3-7-029	— —	— —	— —	— —
LSHANC	A1-39-04 A1-4-077	A3-13-07 A3-7-025	— —	— —	— —	— —
LSHINC	A1-38-14 A1-4-076	A3-13-17 A3-7-026	— —	— —	— —	— —
LMINC	A1-38-04 A1-4-075	A3-14-07 A3-7-027	— —	— —	— —	— —
LPINC	A1-37-14 A1-4-074	A3-14-17 A3-7-028	— —	— —	— —	— —
NISQ	A1-37-04 A1-4-073	A2-42-06 A2-6-083	— —	— —	— —	— —
IIP	A1-39-13 A1-3-078	A2-38-02 A2-2-075	— —	— —	— —	— —
INKL	A1-39-03 A1-3-077	A3-8-06 A3-6-015	— —	— —	— —	— —
CTROR	A1-38-13 A1 3-076	A2-39-12 A2-2-078	— —	— —	— —	— —
PAL	A1-38-03 A1-3-075	A2-37-03 A2-3-073	— —	— —	— —	— —
T11	A1-37-13 A1-3-074	A2-40-17 A2-7-080	— —	— —	— —	— —
T12	A1-37-03 A1-3-073	A2-41-07 A2-7-081	— —	— —	— —	— —
ACSP1	A1-39-12 A1-2-078	A3-41-12 A3-2-082	— —	— —	— —	— —
ACSP2	A1-39-02 A1-2-077	A3-40-02 A3-2-079	— —	— —	— —	— —
RPTR	A1-38-12 A1-2-076	A2-37-02 A2-2-073	— —	— —	— —	— —
RS1	A1-38-02 A1-2-075	A1-30-17 A1-7-060	A1-30-17 A1-7-060	A2-32-17 A2-7-064	— —	— —
$\overline{RS1}$	A1-37-12 A1-2-074	A1-29-17 A1-7-058	— —	— —	— —	— —
RS2	A1-37-02 A1-2-073	A1-13-03 A1-3-025	A1-13-03 A1-3-025	A2-33-07 A2-7-065	— —	— —
$\overline{RS2}$	A1-39-11 A1-1-078	A1-14-12 A1-2-028	— —	— —	— —	— —
RS3	A1-42-19 A1-9-084	A1-13-04 A1-4-025	A1-13-04 A1-4-025	A2-33-17 A2-7-066	— —	— —
$\overline{RS3}$	A1-42-09 A1-9-083	A1-30-07 A1-7-059	— —	— —	— —	— —
RS4	A1-41-19 A1-9-082	A1-15-12 A1-2-030	A1-15-12 A1-2-030	A2-31-17 A2-7-062	— —	— —
$\overline{RS4}$	A1-41-09 A1-9-081	A1-15-02 A1-2-029	— —	— —	— —	— —
RS5	A1-40-19 A1-9-080	A1-13-02 A1-2-025	A1-13-02 A1-2-025	A2-33-08 A2-8-065	— —	— —
$\overline{RS5}$	A1-40-09 A1-9-079	A1-15-11 A1-1-030	— —	— —	— —	— —
RS6	A1-42-18 A1-8-084	A1-13-12 A1-2-026	A1-13-12 A1-2-026	A2-37-15 A2-5-074	— —	— —
$\overline{RS6}$	A1-42-08 A1-8-083	A1-29-07 A1-7-057	— —	— —	— —	— —
RS7	A1-41-18 A1-8-082	A1-14-02 A1-2-027	A1-14-02 A1-2-027	A2-38-05 A2-5-075	— —	— —
$\overline{RS7}$	A1-41-08 A1-8-081	A1-28-07 A1-7-055	— —	— —	— —	— —
RS8	A1-40-18 A1-8-080	A1-30-19 A1-9-060	A1-30-19 A1-9-060	A2-43-01 A2-1-085	— —	— —
$\overline{RS8}$	A1-40-08 A1-8-079	A1-28-17 A1-7-056	— —	— —	— —	— —
RS9	A1-42-17 A1-7-084	A2-43-11 A2-1-086	A2-43-11 A2-1-086	A1-13-06 A1-6-025	— —	— —
$\overline{RS9}$	A1-42-07 A1-7-083	A1-14-17 A1-7-028	— —	— —	— —	— —
RS10	A1-41-17 A1-7-082	A1-13-16 A1-6-026	A1-13-16 A1-6-026	A2-44-01 A2-1-087	— —	— —

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{RS10}$	A1-41-07 A1-7-081	A1-31-03 A1-3-061	— —	— —	— —	— —
RS11	A1-40-17 A1-7-080	A1-12-12 A1-2-024	A1-12-12 A1-2-024	A2-44-11 A2-1-088	— —	— —
$\overline{RS11}$	A1-40-07 A1-7-079	A1-14-07 A1-7-027	— —	— —	— —	— —
RS12	A1-42-16 A1-6-084	A1-13-17 A1-7-026	A1-13-17 A1-7-026	A2-45-01 A2-1-089	— —	— —
RX3	A1-30-16 A1-6-060	A2-32-02 A2-2-063	— —	— —	— —	— —
$\overline{CWL2}$	A1-11-14 A1-4-022	A2-40-14 A2-4-080	— —	— —	— —	— —
RX4	A1-15-13 A1-3-030	A2-32-12 A2-2-064	— —	— —	— —	— —
$\overline{CWL4}$	A1-11-18 A1-8-022	A2-41-14 A2-4-082	— —	— —	— —	— —
$\overline{CWL3}$	A1-11-08 A1-8-021	A2-41-04 A2-4-081	— —	— —	— —	— —
RZ14	A1-34-19 A1-9-068	A3-13-04 A3-4-025	— —	— —	— —	— —
RZ13	A1-35-16 A1-6-070	A3-15-13 A3-3-030	— —	— —	— —	— —
RZ15	A1-34-09 A1-9-067	A3-13-14 A3-4-026	— —	— —	— —	— —
RB16	A1-15-08 A1-8-029	A2-35-15 A2-5-070	A2-35-15 A2-5-070	A2-11-16 A2-6-022	— —	— —
RLP14	A1-14-18 A1-8-028	A2-45-04 A2-4-089	— —	— —	— —	— —
RY14	A1-14-08 A1-8-027	A2-33-16 A2-6-066	— —	— —	— —	— —
RX14	A1-11-02 A1-2-021	A2-31-14 A2-4-062	— —	— —	— —	— —
RX15	A1-10-06 A1-6-019	A2-32-04 A2-4-063	— —	— —	— —	— —
RQ15	A1-10-15 A1-5-020	A2-33-01 A2-1-065	— —	— —	— —	— —
RQ16	A1-10-05 A1-5-019	A2-33-11 A2-1-066	A2-33-11 A2-1-066	A2-4-03 A2-3-007	— —	— —
RY15	A1-12-14 A1-4-024	A2-31-07 A2-7-061	— —	— —	— —	— —
RX13	A1-12-15 A1-5-024	A2-31-04 A2-4-061	— —	— —	— —	— —
RQ13	A1-10-14 A1-4-020	A2-32-01 A2-1-063	— —	— —	— —	— —
RBK14	A1-11-17 A1-7-022	A1-41-15 A1-5-082	A1-41-15 A1-5-082	A3-11-03 A3-3-021	— —	— —
RY16	A1-11-03 A1-3-021	A2-32-07 A2-7-063	A2-32-07 A2-7-063	A2-1-13 A2-3-002	— —	— —
RY13	A1-10-13 A1-3-020	A2-33-06 A2-6-065	— —	— —	— —	— —
RLP16	A1-10-03 A1-3-019	A2-43-05 A2-5-085	A2-43-05 A2-5-085	A2-12-09 A2-9-023	— —	— —
$\overline{SR}$	A1-12-07 A1-7-023	A2-45-16 A2-6-090	— —	— —	— —	— —
RG16	A1-7-04 A1-4-013	A2-34-18 A2-8-068	A2-34-18 A2-8-068	A2-4-05 A2-5-007	— —	— —
RG15	A1-8-03 A1-3-015	A2-34-08 A2-8-067	— —	— —	— —	— —
RG14	A1-7-03 A1-3-013	A2-36-17 A2-7-072	— —	— —	— —	— —
KBBS1	A1-18-04 A1-4-035	A2-37-09 A2-9-073	— —	— —	— —	— —
KBBS2	A1-16-03 A1-3-031	A2-37-19 A2-9-074	— —	— —	— —	— —
TR4	A1-22-14 A1-4-044	— —	— —	— —	— —	— —
TR5	A1-24-04 A1-4-047	— —	— —	— —	— —	— —
TR7	A1-23-05 A1-5-045	— —	— —	— —	— —	— —
TR8	A1-24-14 A1-4-048	— —	— —	— —	— —	— —

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. [illegible] DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014411	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 1/26/63
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. ——— SIZE J NASA DRAWING NO. 1014488
SCALE WT SHEET 5 OF 7

Sym	Description	Date	Approved
–	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06680 DR J. Manning CHK J.J APPD	3-4-64	K B

SIGNAL	FROM	TO	FROM	TO	FROM	TO
RX16	A1-14-16 A1-6-028	A1-44-12 A1-2-088	A1-44-12 A1-2-088	A2-32-14 A2-4-064	— —	— —
RB14	A1-14-05 A1-5-027	A2-34-15 A2-5-068	— —	— —	— —	— —
RB13	A1-13-15 A1-5-026	A2-34-05 A2-5-067	— —	— —	— —	— —
RZ16	A1-29-15 A1-5-058	A3-14-04 A3-4-027	— —	— —	— —	— —
RBK13	A1-28-05 A1-5-055	A1-42-15 A1-5-084	A1-42-15 A1-5-084	A3-10-13 A3-3-020	— —	— —
RLP13	A1-13-09 A1-9-025	A2-44-14 A2-4-088	— —	— —	— —	— —
RLP15	A1-30-02 A1-2-059	A2-45-14 A2-4-090	— —	— —	— —	— —
SDAX2	A2-14-12 A2-2-028	A1-3-06 A1-6-005	— —	— —	— —	— —
SDAX3	A2-13-12 A2-2-026	A1-2-16 A1-6-004	— —	— —	— —	— —
SDAQ5	A2-3-06 A2-6-005	A1-1-17 A1-7-002	— —	— —	— —	— —
SDAX1	A2-15-11 A2-1-030	A1-3-16 A1-6-006	— —	— —	— —	— —
SDAQ4	A2-2-06 A2-6-003	A1-2-07 A1-7-003	— —	— —	— —	— —
SDAQ3	A2-10-09 A2-9-019	A1-2-17 A1-7-004	— —	— —	— —	— —
SDALP3	A2-8-17 A2-7-016	A1-2-14 A1-4-004	— —	— —	— —	— —
TP1	A2-7-16 A2-6-014	A1-16-15 A1-5-032	— —	— —	— —	— —
TP2	A2-7-05 A2-5-013	A1-18-13 A1-3-036	— —	— —	— —	— —
STMNC1	A2-9-13 A2-3-018	A2-44-19 A2-9-088	— —	— —	— —	— —
STMPT1	A2-9-03 A2-3-017	A2-44-09 A2-9-087	— —	— —	— —	— —
$\overline{\mathrm{STI}}$	A1-39-19 A1-9-078	A3-2-06 A3-6-005	— —	— —	— —	— —
SRAST	A1-39-09 A1-9-077	A3-15-15 A3-5-030	— —	— —	— —	— —
ST12ST	A1-38-19 A1-9-076	A3-14-14 A3-4-028	— —	— —	— —	— —
ST12L	A1-38-09 A1-9-075	A3-15-04 A3-4-029	— —	— —	— —	— —
SNISQ	A1-37-19 A1-9-074	A3-15-14 A3-4-030	— —	— —	— —	— —
SRPTR	A1-37-09 A1-9-073	A3-13-05 A3-5-025	— —	— —	— —	— —
SIIP	A1-39-18 A1-8-078	A3-13-15 A3-5-026	— —	— —	— —	— —
SCTROR	A1-39-08 A1-8-077	A3-14-05 A3-5-027	— —	— —	— —	— —
SINKL	A1-38-18 A1-8-076	A3-14-15 A3-5-028	— —	— —	— —	— —
SPF	A1-38-08 A1-8-075	A3-15-05 A3-5-029	— —	— —	— —	— —
S2SA	A1-37-18 A1-8-074	A1-31-14 A1-4-062	— —	— —	— —	— —
S2ST	A1-37-08 A1-8-073	A3-13-16 A3-6-026	— —	— —	— —	— —
$\overline{\mathrm{S2NO}}$	A1-39-17 A1-7-078	A1-33-13 A1-3-066	— —	— —	— —	— —
S1SA	A1-39-07 A1-7-077	A1-32-04 A1-4-063	— —	— —	— —	— —
S1ST	A1-38-17 A1-7-076	A3-13-06 A3-6-025	— —	— —	— —	— —
$\overline{\mathrm{S1MO}}$	A1-38-07 A1-7-075	A1-36-15 A1-5-072	— —	— —	— —	— —
LINHL	A1-37-17 A1-7-074	A2-39-02 A2-2-077	— —	— —	— —	— —
LPFG	A1-37-07 A1-7-073	A3-15-06 A3-6-029	— —	— —	— —	— —

SIGNAL	FROM	TO	FROM	TO	FROM	TO
LPT6	A1-39-16 A1-6-078	A3-15-16 A3-6-030	— —	— —	— —	— —
LPAL	A1-39-06 A1-6-077	A3-13-18 A3-8-026	— —	— —	— —	— —
LINHL	A1-38-16 A1-6-076	A3-14-08 A3-8-027	— —	— —	— —	— —
LCTROR	A1-38-06 A1-6-075	A3-14-18 A3-8-028	— —	— —	— —	— —
LIIP	A1-37-16 A1-6-074	A3-13-08 A3-9-025	— —	— —	— —	— —
LRPTR	A1-37-06 A1-6-073	A3-15-18 A3-8-030	— —	— —	— —	— —
LNISQ	A1-39-15 A1-5-078	A3-15-08 A3-8-029	— —	— —	— —	— —
LT12	A1-39-05 A1-5-077	A3-13-08 A3-8-025	— —	— —	— —	— —
LSTPIT	A1-38-15 A1-5-076	A3-2-13 A3-3-004	— —	— —	— —	— —
LGOJAM	A1-37-15 A1-5-074	A2-38-12 A2-2-076	— —	— —	— —	— —
COINC	A3-4-05 A3-5-007	A3-38-06 A3-6-075	— —	— —	— —	— —
CPINC	A3-4-15 A3-5-008	A3-37-16 A3-6-074	— —	— —	— —	— —
CSHANC	A3-5-05 A3-5-009	A3-37-06 A3-6-073	— —	— —	— —	— —
CSHINC	A3-5-15 A3-5-010	A3-39-15 A3-5-078	— —	— —	— —	— —
CSQ13	A3-6-05 A3-5-011	A3-39-05 A3-5-077	— —	— —	— —	— —
CSQ14	A3-6-15 A3-5-012	A3-38-15 A3-5-076	— —	— —	— —	— —
CSQ15	A3-4-06 A3-6-007	A3-38-05 A3-5-075	— —	— —	— —	— —
CSQ16	A3-4-16 A3-6-008	A3-39-14 A3-4-078	— —	— —	— —	— —
CST1M	A3-5-06 A3-6-009	A3-39-04 A3-4-077	— —	— —	— —	— —
CST2M	A3-5-16 A3-6-010	A3-38-14 A3-4-076	— —	— —	— —	— —
CIIPM	A3-6-06 A3-6-011	A3-38-04 A3-4-075	— —	— —	— —	— —
CBR2	A3-6-16 A3-6-012	A3-39-03 A3-3-077	— —	— —	— —	— —
CBR1	A3-4-07 A3-7-007	A3-37-14 A3-4-074	— —	— —	— —	— —
$\overline{\mathrm{CTCSA}}$	A3-4-17 A3-7-008	A3-38-13 A3-3-076	— —	— —	— —	— —
CRPTR	A3-5-07 A3-7-009	A3-38-03 A3-3-075	— —	— —	— —	— —
$\overline{\mathrm{CRRPA}}$	A3-5-17 A3-7-010	A3-37-13 A3-3-074	— —	— —	— —	— —
CWBKG	A3-6-07 A3-7-011	A3-38-02 A3-2-075	— —	— —	— —	— —
CCTROR	A3-6-17 A3-7-012	A3-37-12 A3-2-074	— —	— —	— —	— —
$\overline{\mathrm{CRCA}}$	A3-4-08 A3-8-007	A3-36-19 A3-9-072	— —	— —	— —	— —
$\overline{\mathrm{CPAL}}$	A3-4-18 A3-8-008	A3-36-09 A3-9-071	— —	— —	— —	— —
$\overline{\mathrm{CSTPIT}}$	A3-5-08 A3-8-009	A3-35-19 A3-9-070	— —	— —	— —	— —
CGOJAM	A3-5-18 A3-8-010	A3-35-09 A3-9-069	— —	— —	— —	— —
CINHL	A3-6-08 A3-8-011	A3-34-19 A3-9-068	— —	— —	— —	— —
CT2S	A3-4-19 A3-9-008	A3-35-18 A3-8-070	— —	— —	— —	— —
CRL01	A3-5-09 A3-9-009	A3-36-17 A3-7-072	— —	— —	— —	— —
CRL02	A3-5-19 A3-9-010	A3-36-07 A3-7-071	— —	— —	— —	— —

SIGNAL	FROM	TO	FROM	TO	FROM	TO
CRL03	A3-6-09 A3-8-011	A3-35-17 A3-7-070	— —	— —	— —	— —
CRL04	A3-6-19 A3-9-012	A3-35-07 A3-7-069	— —	— —	— —	— —
CRL05	A3-1-01 A3-1-001	A3-34-17 A3-7-068	— —	— —	— —	— —
CRL06	A3-1-11 A3-1-002	A3-34-07 A3-7-067	— —	— —	— —	— —
CRL07	A3-2-01 A3-1-003	A3-36-16 A3-6-072	— —	— —	— —	— —
CRL08	A3-2-11 A3-1-004	A3-35-06 A3-6-069	— —	— —	— —	— —
CRL09	A3-3-01 A3-1-005	A3-34-16 A3-6-068	— —	— —	— —	— —
CRL10	A3-3-11 A3-1-006	A3-34-06 A3-6-067	— —	— —	— —	— —
CRL11	A3-1-02 A3-2-001	A3-36-15 A3-5-072	— —	— —	— —	— —
CRL12	A3-1-12 A3-2-002	A3-36-05 A3-5-071	— —	— —	— —	— —
CRL13	A3-2-02 A3-2-003	A3-35-15 A3-5-070	— —	— —	— —	— —
CRL14	A3-2-12 A3-2-004	A3-35-05 A3-5-069	— —	— —	— —	— —
CRL16	A3-3-02 A3-2-005	A3-36-14 A3-4-072	— —	— —	— —	— —
$\overline{\mathrm{SRE}}$	A2-5-12 A2-2-010	A2-44-16 A2-6-088	A2-44-16 A2-6-088	A1-34-18 A1-8-068	— —	— —
$\overline{\mathrm{KB4}}$	A2-5-04 A2-4-009	A2-39-06 A2-6-077	— —	— —	— —	— —
$\overline{\mathrm{KB2}}$	A2-4-14 A2-4-008	A2-37-06 A2-6-073	— —	— —	— —	— —
[$\overline{\mathrm{KBSPC}}$]	A2-6-04 A2-4-011	A2-38-08 A2-8-075	— —	— —	— —	— —
$\overline{\mathrm{KB1}}$	A2-4-12 A2-2-008	A2-39-05 A2-5-077	— —	— —	— —	— —
SRTC	A2-5-03 A2-3-009	A1-2-02 A1-2-003	— —	— —	— —	— —
SPWA2	A2-6-11 A2-1-012	A1-2-13 A1-3-004	— —	— —	— —	— —
$\overline{\mathrm{KB7}}$	A2-9-19 A2-9-018	A2-39-07 A2-7-077	— —	— —	— —	— —
TR4	A2-4-19 A2-9-008	A1-22-06 A1-6-043	— —	— —	— —	— —
STL	A2-4-09 A2-9-007	A2-43-06 A2-6-085	— —	— —	— —	— —
STU	A2-6-08 A2-8-011	A2-44-15 A2-5-088	— —	— —	— —	— —
RA9	A2-5-08 A2-8-009	A2-36-01 A2-1-071	A2-36-01 A2-1-071	A1-11-04 A1-4-021	— —	— —
TR6	A2-3-05 A2-5-005	A1-24-16 A1-6-048	— —	— —	— —	— —
RA10	A2-2-15 A2-5-004	A2-36-11 A2-1-072	A2-36-11 A2-1-072	A1-12-05 A1-5-023	— —	— —
SVR	A2-2-05 A2-5-003	A2-45-18 A2-8-090	— —	— —	— —	— —
$\overline{\mathrm{STL}}$	A2-1-04 A2-4-001	A3-13-11 A3-1-086	— —	— —	— —	— —
STRFR	A2-3-03 A2-3-005	A2-43-08 A2-9-085	— —	— —	— —	— —
[$\overline{\mathrm{SEX\ I}}$]	A2-2-13 A2-3-004	A3-14-06 A3-6-027	— —	— —	— —	— —
RA12	A2-2-03 A2-3-003	A2-34-12 A2-2-068	A2-34-12 A2-2-068	A1-11-05 A1-5-021	— —	— —
RA8	A2-1-03 A2-3-001	A2-35-11 A2-1-070	A2-35-11 A2-1-070	A1-14-03 A1-3-027	— —	— —
KBCLR	A2-3-18 A2-8-006	A3-7-15 A3-5-014	A3-7-15 A3-5-014	A1-12-18 A1-8-026	— —	— —
RA13	A2-3-08 A2-8-005	A2-35-02 A2-2-068	A2-35-02 A2-2-068	A1-34-14 A1-4-068	— —	— —
[SEX I]	A2-2-18 A2-8-004	A3-14-16 A3-6-028	— —	— —	— —	— —

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. [illegible] DATE 4/20/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1019411	1019156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Kelley DATE 2-26-63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A1B

CODE IDENT NO. ——— SIZE J NASA DRAWING NO. 1014488
SCALE WT SHEET 6 OF 7

1014488

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06680 DR J. Manning CHK J.J APPD	3/4/4	K.B.

SIGNAL	FROM	TO	FROM	TO	FROM	TO
SKL	A2-43-07 A2-7-085					
SMU	A2-43-17 A2-7-086					
STC	A2-44-17 A2-7-088					
SRD	A2-45-07 A2-7-089					
RB5	A1-14-06 A1-6-027	A2-36-03 A2-3-071				
RLPS	A1-35-15 A1-5-070	A2-43-13 A2-3-086				
RX8	A1-29-18 A1-8-058	A2-31-13 A2-3-062				
+3V	A3-45-03 A3-3-089	R8-B				
+3V	A3-45-11 A3-1-090	R5-B				
+3V	A3-45-12 A3-2-090	R6-B				
GND	A3-45-07 A3-7-089	A3-45-17 A3-7-090	A3-45-17 A3-7-090	A3-45-20 A3-10-090	A3-45-020 A3-10-090	A3-45-18 A3-8-090
GND	A3-45-18 A3-8-090	A3-45-08 A3-8-089				
GND	A3-43-08 A3-8-085	A3-44-18 A3-8-086	A3-43-18 A3-8-088	A3-43-20 A3-10-086	A3-43-20 A3-10-086	A3-43-19 A3-9-086
GND	A3-43-19 A3-9-086	A3-43-09 A3-9-085				
GND	A3-44-08 A3-8-087	A3-44-18 A3-8-088	A3-44-18 A3-8-88	A3-44-20 A3-10-088	A3-44-20 A3-10-088	A3-44-19 A3-9-088
GND	A3-44-19 A3-9-088	A3-44-09 A3-9-087				
GND	A1-18-04 A1-4-035	A1-23-04 A1-4-045	A1-23-04 A1-4-046	A1-23-20 A1-10-046		
+3V	A1-28-03 A1-3-055	A3-43-01 A3-1-085				
+3V	A1-33-15 A1-5-066	A3-44-11 A3-1-088				
+3V	A1-32-16 A1-6-064	A3-43-11 A3-1-086				
+3V	A1-32-15 A1-5-064	A3-45-01 A3-1-089				
R5-A	A1-4-19 A1-9-008	R5-A				
R6-A	A1-40-05 A1-5-079	R6-A				
+3V	A3-20-08 A3-8-039	A3-43-14 A3-4-086				
+3V	A1-31-16 A1-6-062	A3-44-01 A3-1-087				
+3V	A2-30-05 A2-5-059	A3-43-09 A3-4-085				
+3V	A2-28-06 A2-6-055	A3-45-13 A3-3-090				
R8-A	A1-22-13 A1-3-044	A1-22-15 A1-5-094	A1-22-15 A1-5-044	A1-23-06 A1-6-095	A1-23-06 A1-6-095	A1-24-13 A1-3-048
R8-A	A1-24-13 A1-3-048	A1-24-02 A1-2-047	A1-24-02 A1-2-047	A1-22-02 A1-2-043	A1-22-02 A1-2-043	A1-23-05 A1-3-045
R8-A	A1-23-03 A1-3-045	A1-24-17 A1-7-048	A1-24-17 A1-7-048	A1-16-16 A1-6-082	A1-16-16 A1-16-32	R8-A
+3V	A3-7-01 A3-1-013	A3-43-03 A3-3-085				
+3V	A3-7-11 A3-1-014	A3-43-13 A3-3-086				
+3V	A3-1-04 A3-4-001	A3 43-03 A3-3-087				

SIGNAL	FROM	TO	FROM	TO	FROM	TO
+3V	A2-7-08 A2-8-013	A3-43-02 A3-2-085				
+3V	A2-4-13 A2-3-008	A3-43-12 A3-2-086				
+3V	A2-14-16 A2-6-028	A3-44-02 A3-2-087				
+3V	A2-4-06 A2-6-007	A3-44-12 A3-2-088				
+3V	A2-14-07 A2-7-027	A3-45-02 A3-2-089				
+10V	A1-17-05 A1-5-033	A1-31-15 A1-5-062	A1-31-15 A1-5-062	A3-44-14 A3-4-088		
+10V	A1-42-04 A1-4-085	A3-44-05 A3-5-087				
+10V	A1-4-09 A1-9-007	A3-45-19 A3-9-090				
+10V	A1-42-14 A1-4-084	A3-43-15 A3-5-086				
+10V	A1-32-05 A1-5-063	A3-45-04 A3-4-089				
+10V	A3-8-01 A3-1-015	A3-9-04 A3-4-017	A3-9-04 A3-4-017	A3-43-16 A3-6-086		
+10V	A2-6-05 A2-5-011	A3-45-14 A3-4-090				
+10V	A2-6-07 A2-7-011	A3-43-05 A3-5-085				
+10V	A3-44-15 A3-5-088	A3-12-19 A3-9-024				
+10V	A2-29-16 A2-6-058	A3-44-06 A3-6-087				
+10V	A3-43-06 A3-6-085	A3-8-11 A3-1-016				
+10	A3-45-05 A3-5-089	A3-3-03 A3-3-005				
+10V (WL)	A3-1-14 A3-4-002	A3-19-07 A3-7-037				
SPARE	A2-30-07 A2-7-059					
SPARE	A2-29-08 A2-8-057					
SPARE	A2-29-18 A2-8-058					
SPARE	A2-30-18 A2-8-060					
SPARE	A2-29-09 A2-9-057					
SPARE	A2-29-19 A2-9-058					
R7-A	A3-3-15 A3-5-006	A3-3-05 A3-5-005	A3-3-05 A3-5-005	A3-3-13 A3-3-006	A3-3-13 A3-3-006	A3-7-12 A3-2-014
R7-A	A3-7-12 A3-2-014	R7-A				
+10V	A2-28-16 A2-6-056	A3-44-04 A3-4-087				
+10V	A3-21-05 A3-5-041	A3-45-09 A3-9-089				
+10V	A3-7-02 A3-2-013	A3-45-15 A3-5-090				
+3V	A3-44-13 A3-3-088	R7-B				

SIGNAL	FROM	TO	FROM	TO	FROM	TO

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

1014488

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014911	1019156
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-4518
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 30 Oct 63
MIT APPROVAL 10/30/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. ——
SIZE J
NASA DRAWING NO. 1014488
SCALE
WT
SHEET 7 OF 7

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR .		
A	CHANGED PER TDRR 06680 DR J Manning CHK J J APPD	3/	KB.
B	CHANGED PER TDRR 08878 DR CHK APPD		

—MACHINE WIRE WRAP TERMINOLOGY

—HAND WIRE WRAP TERMINOLOGY

SIGNAL	FROM	TO	FROM	TO	FROM	TO
SDAY5	A2-1-15 A2-5-002	A1-1-15 A1-5-002				
SDAY6	A2-3-14 A2-4-006	A1-1-05 A1-5-001				
SRT5	A2-4-08 A2-8-007	A1-2-12 A1-2-004				
TP6	A2-6-19 A2-9-012	A1-18-17 A1-7-036				
$\overline{RL11}$	A2-6-15 A2-5-012	A2-42-19 A2-9-084				
$\overline{RL16}$	A2-5-09 A2-9-009	A2-38-11 A2-1-076				
$\overline{RL14}$	A2-3-04 A2-4-005	A2-38-01 A2-1-075				
$\overline{RL9}$	A2-11-11 A2-1-022	A2-41-19 A2-9-082				
$\overline{RL13}$	A2-10-11 A2-1-020	A2-37-11 A2-1-074				
$\overline{RL12}$	A2-15-19 A2-9-030	A2-37-01 A2-1-073				
$\overline{RL7}$	A2-3-15 A2-5-006	A2-40-18 A2-8-080				
TP5	A2-2-04 A2-4-003	A1-18-02 A1-2-035				
$\overline{RL2}$	A2-12-13 A2-3-024	A2-41-08 A2-8-081				
B2	A2-13-19 A2-9-026	A2-42-17 A2-7-084				
$\overline{RL4}$	A2-15-18 A2-8-030	A2-42-08 A2-8-083				
$\overline{RL3}$	A2-14-18 A2-8-028	A2-41-18 A2-8-082				
T25	A2-13-18 A2-8-026	A2-28-17 A2-7-056				
$\overline{RL5}$	A2-15-17 A2-7-030	A2-42-18 A2-8-084				
$\overline{RL6}$	A2-14-17 A2-7-028	A2-40-09 A2-9-079				
[$\overline{R3}$]	A2-6-02 A2-2-011	A1-7-02 A1-2-013				
KB7	A2-4-02 A2-2-007	A2-38-17 A2-7-076				
$\overline{KB6}$	A2-5-14 A2-4-010	A2-38-07 A2-7-075				
RQ14	A1-15-14 A1-4-030	A2-32-11 A2-1-064				
RG13	A1-13-05 A1-5-025	A2-36-07 A2-7-071				
$\overline{RBK14}$	A1-33-06 A1-6-065	A1-41-05 A1-5-081				
RB15	A1-15-18 A1-8-030	A2-35-05 A2-5-069				
$\overline{RBK13}$	A1-32-06 A1-6-063	A1-42-05 A1-5-083				
RZ7	A1-33-17 A1-7-066	A3-15-12 A3-2-030				
RY6	A1-28-09 A1-9-055	A2-32-15 A2-5-064				
RZ5	A1-32-17 A1-7-064	A3-14-12 A3-2-028				
RY5	A1-28-08 A1-8-055	A2-32-05 A2-5-063				
RQ8	A1-11-07 A1-7-021	A2-35-19 A2-9-070				
RQ6	A1-10-17 A1-7-020	A2-34-19 A2-9-068				
RG8	A1-36-11 A1-1-072	A2-36-16 A2-6-072				
RLP8	A1-34-16 A1-6-068	A2-45-03 A2-3-089				
RZ8	A1-31-17 A1-7-062	A3-13-03 A3-3-025				

SIGNAL	FROM	TO	FROM	TO	FROM	TO
SREI1I	A1-3-11 A1-1-006	A1-32-01 A1-1-063				
SREI1S	A1-6-19 A1-9-012	A1-32-02 A1-2-063				
SREI2I	A1-5-19 A1-9-010	A1-36-16 A1-6-072				
SREI2S	A1-5-09 A1-9-009	A1-34-17 A1-7-068				
$\overline{WSG}$	A1-33-12 A1-2-066	A2-41-03 A2-3-081				
$\overline{WLPG}$	A1-31-18 A1-2-062	A2-42-03 A2-3-083				
$\overline{WXG}$	A1-31-02 A1-2-061	A2-41-02 A2-2-081				
$\overline{WYG}$	A1-33-11 A1-1-066	A2-41-12 A2-2-082				
$\overline{WBKG}$	A1-31-13 A1-3-062	A2-42-13 A2-3-084				
STT08	A3-12-01 A3-1-023	A3-16-17 A3-7-032				
$\overline{CWL13}$	A1-12-19 A1-9-024	A2-40-06 A2-6-079				
$\overline{CWL16}$	A1-11-09 A1-9-021	A2-41-16 A2-6-082				
$\overline{CWL14}$	A1-7-12 A1-2-014	A2-40-16 A2-6-080				
$\overline{CWL15}$	A1-33-18 A1-8-066	A2-41-06 A2-6-081				
$\overline{SKL}$	A1-35-13 A1-3-070	A3-8-05 A3-5-015				
$\overline{LCL2}$	A3-16-06 A3-6-031	A3-10-18 A3-4-020				
ST7B	A3-17-17 A3-7-034	A3-11-01 A3-1-021				
TPA	A2-7-18 A2-8-014	A1-18-06 A1-6-035				
SPWA0	A2-9-17 A2-7-018	A1-3-13 A1-3-006				
$\overline{STD}$	A2-9-07 A2-7-017	A2-44-05 A2-5-087				
SPWB0	A2-7-07 A2-7-013	A1-2-03 A1-3-003				
CLOAD	A3-3-12 A3-2-006	A3-36-04 A3-4-071				
CREAD	A3-1-03 A3-3-001	A3-35-14 A3-4-070				
CSBSTP	A3-1-13 A3-3-002	A3-35-04 A3-4-069				
CSTRT	A3-2-03 A3-3-003	A3-34-14 A3-4-068				
CWLPG	A3-6-18 A3-8-012	A3-36-18 A3-8-072				
CINKL	A3-4-09 A3-9-007	A3-36-08 A3-8-071				
CSTP	A3-36-03 A3-3-071	A2-45-09 A2-9-089				
CTCSAI	A3-35-13 A3-3-070	A2-45-19 A2-9-090				
CNHRPT	A3-35-03 A3-3-069	A2-40-01 A2-1-079				
CNHNC	A3-34-13 A3-3-068	A2-40-11 A2-1-080				

SIGNAL	FROM	TO	FROM	TO	FROM	TO
CNTRL 1 (+3 V)	A2-30-07 A2-7-059	A3-44-17 A3-7-088				
CNTRL 2 (+13V)	A2-29-08 A2-8-057	A3-45-06 A3-6-089				
ST01	A3-33-19 A3-9-066	A3-22-13 A3-3-044				
ST7A	A3-18-18 A3-8-036	A3-11-04 A3-4-021				
STT01	A3-32-09 A3-9-063	A3-11-05 A3-5-021				
STT03	A3-31-09 A3-9-061	A3-23-14 A3-4-046				
STT04	A3-33-18 A3-8-066	A3-24-15 A3-5-048				
STT05	A3-33-08 A3-8-065	A3-22-17 A3-7-044				
SSTT67B	A3-32-18 A3-8-064	A3-17-02 A3-2-033				
SSTT67A	A3-31-18 A3-8-062	A3-18-03 A3-3-035				
STT09	A3-31-08 A3-8-061	A3-16-05 A3-5-031				
ST18	A3-17-18 A3-8-034	A3-10-01 A3-1-019				
STRUG	A3-31-06 A3-6-061	A3-17-06 A3-6-033				
STWQ6	A3-33-05 A3-5-065	A3-17-03 A3-3-033				
STWG1	A3-31-15 A3-5-062	A3-18-07 A3-7-035				
STWG2	A3-31-05 A3-5-061	A3-16-09 A3-9-031				
STWG3	A3-33-14 A3-4-066	A3-20-01 A3-1-039				
STLINC	A3-31-14 A3-4-062	A3-20-11 A3-1-040				
STOINC	A3-31-04 A3-4-061	A3-21-12 A3-2-042				
$\overline{STTCSA}$	A3-33-13 A3-3-066	A3-21-13 A3-3-042				
$\overline{STRRPA}$	A3-33-03 A3-3-065	A3-21-02 A3-2-041				
$\overline{STRCA}$	A3-32-13 A3-3-064	A3-21-03 A3-3-041				
STSBSTP	A3-31-02 A3-2-061	A3-20-14 A3-4-040				
STSTRT	A3-33-11 A3-1-066	A3-20-15 A3-5-040				
STNHRPT	A3-32-01 A3-1-063	A3-21-16 A3-6-042				
STNHNC	A3-31-11 A3-1-062	A3-19-18 A3-8-038				
1DCT	A3-34-01 A3-1-067	A3-20-19 A3-9-040				
0DCT	A3-31-01 A3-1-061	A3-24-11 A3-1-048				
STRDFB	A3-17-15 A3-5-034	A3-12-15 A3-5-024				
STLDFB	A3-16-14 A3-4-032	A3-10-15 A3-5-020				
$\overline{STTCFB}$	A3-16-18 A3-8-032	A3-10-06 A3-6-019				
STWP	A3-12-12 A3-2-024	A3-24-06 A3-6-047				
1 POWER (13V)	A3-35-08 A3-8-069	A3-44-16 A3-6-088				
2 POWER (3 V)	A3-34-18 A3-8-068	A3-45-16 A3-6-090				
GND	A2-30-19 A2-9-060	A2-30-10 A2-10-059				
ST1A	A3-18-08 A3-8-035	A3-11-14 A3-4-022				

B	B	B	B	B	A	B
A	A	A	A	A	A	A
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SH1	SH2	SH3	SH4	SH5	SH6	SH7
REV STATUS OF SHEETS						

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014411	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN W. Walley DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
NASA APPROVAL
NASA APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014488
SCALE
WT
SHEET 1 OF 7

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06680 DR CHK APPD	3/6/	KB
B	CHANGED PER TDRR 08878 DR. W. CHK. APPD		KCS

SIGNAL	FROM	TO	FROM	TO	FROM	TO
LCL1A	A2-28-14 A2-4-056	A3-20-05 A3-5-039	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
DLCTR4B	A2-29-14 A2-4-058	A3-12-07 A3-7-023	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
VPS	A2-29-17 A2-7-058	A3-44-07 A3-7-087	- - -	- - -	- - -	- - -
DLCTR2B	A2-30-08 A2-8-059	A3-12-17 A3-7-024	- - -	- - -	- - -	- - -
DLCTR3B	A2-28-09 A2-9-055	A3-11-18 A3-8-022	- - -	- - -	- - -	- - -
DLCTRINP2	A2-28-19 A2-9-056	A3-24-01 A3-1-047	- - -	- - -	- - -	- - -
DLCTR1A	A2-30-09 A2-9-059	A3-12-16 A3-6-024	- - -	- - -	- - -	- - -
VC2	A2-28-18 A2-8-056	A3-43-17 A3-7-086	- - -	- - -	- - -	- - -
LCL2A	A2-30-16 A2-6-060	A3-19-08 A3-8-037	- - -	- - -	- - -	- - -
DLCTR1B	A2-29-07 A2-7-057	A3-11-16 A3-6-022	- - -	- - -	- - -	- - -
TEST	A2-28-15 A2-5-056	A3-22-03 A3-3-043	- - -	- - -	- - -	- - -
UPLQ	A2-28-04 A2-4-055	A2-12-16 A2-6-024	- - -	- - -	- - -	- - -
UPL7	A2-30-14 A2-4-060	A2-12-15 A2-5-024	- - -	- - -	- - -	- - -
DLCTR3B	A2-30-04 A2-4-059	A3-10-17 A3-7-020	- - -	- - -	- - -	- - -
DLCTRINP	A2-29-06 A2-6-057	A3-11-17 A3-7-022	- - -	- - -	- - -	- - -
VC1	A2-28-07 A2-7-055	A3-43-07 A3-7-085	- - -	- - -	- - -	- - -
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DLCTR2B	A2-28-05 A2-5-055	A3-12-06 A3-6-023	- - -	- - -	- - -	- - -
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LTVF	A2-9-09 A2-9-017	A2-44-18 A2-8-088	- - -	- - -	- - -	- - -
SLT	A2-8-19 A2-9-016	A2-29-05 A2-5-057	A2-29-05 A2-5-057	A3-2-04 A3-4-003	A3-2-04 A3-4-003	A3-22-07 A3-7-043
SLT	A3-22-07 A3-7-043	A3-23-04 A3-4-045	A3-23-04 A3-4-045	A3-24-05 A3-5-047	- - -	- - -
TM1A	A2-8-09 A2-9-015	A3-15-01 A3-1-029	- - -	- - -	- - -	- - -
CNT0A	A2-7-19 A2-9-014	A3-13-19 A3-9-026	- - -	- - -	- - -	- - -
TR1	A2-7-09 A2-9-013	A1-23-02 A1-2-045	A1-23-02 A1-2-045	A1-11-16 A1-6-022	- - -	- - -
TRA	A2-9-08 A2-8-017	A1-24-06 A1-6-047	- - -	- - -	- - -	- - -
TM2A	A2-8-18 A2-8-016	A3-14-11 A3-1-028	- - -	- - -	- - -	- - -
TR3	A2-8-07 A2-7-015	A1-23-14 A1-4-046	- - -	- - -	- - -	- - -
TR3	A2-7-17 A2-7-014	A1-23-12 A1-2-046	A1-23-12 A1-2-046	A1-10-08 A1-8-019	- - -	- - -
TR1	A2-9-06 A2-6-017	A1-23-13 A1-3-046	A1-23-13 A1-3-046	A1-9-05 A1-3-017	- - -	- - -
RA1	A1-10-12 A1-2-020	A2-4-04 A2-4-007	A2-4-04 A2-4-007	A2-38-09 A2-9-075	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
CNT4A	A3-14-19 A3-9-028	A2-6-13 A2-3-012	A2-6-13 A2-3-012	A1-34-13 A1-3-068	- - -	- - -
CT11	A3-8-17 A3-7-016	A3-41-07 A3-7-081	- - -	- - -	- - -	- - -
CT12	A3-9-07 A3-7-017	A3-40-17 A3-7-080	- - -	- - -	- - -	- - -
CWL01	A3-9-17 A3-7-018	A3-40-07 A3-7-079	- - -	- - -	- - -	- - -
CWL02	A3-7-08 A3-8-013	A3-42-16 A3-6-084	- - -	- - -	- - -	- - -
CWL03	A3-7-18 A3-8-014	A3-41-06 A3-6-081	- - -	- - -	- - -	- - -
CWL04	A3-8-08 A3-8-015	A3-40-16 A3-6-080	- - -	- - -	- - -	- - -
CWL05	A3-8-18 A3-8-016	A3-40-06 A3-6-079	- - -	- - -	- - -	- - -
CWL06	A3-9-08 A3-8-017	A3-42-15 A3-5-084	- - -	- - -	- - -	- - -
CWL07	A3-9-18 A3-8-018	A3-42-05 A3-5-083	- - -	- - -	- - -	- - -
CWL08	A3-7-09 A3-9-013	A3-41-15 A3-5-082	- - -	- - -	- - -	- - -
CWL09	A3-7-19 A3-9-014	A3-41-05 A3-5-081	- - -	- - -	- - -	- - -
CWL10	A3-8-09 A3-9-015	A3-42-14 A3-4-084	- - -	- - -	- - -	- - -
CWL11	A3-8-19 A3-9-016	A3-42-04 A3-4-083	- - -	- - -	- - -	- - -
CWL12	A3-9-09 A3-9-017	A3-41-14 A3-4-082	- - -	- - -	- - -	- - -
CWL13	A3-9-19 A3-9-018	A3-41-04 A3-4-081	- - -	- - -	- - -	- - -
CWL14	A3-4-01 A3-1-007	A3-40-14 A3-4-080	- - -	- - -	- - -	- - -
CWL15	A3-4-11 A3-1-008	A3-42-03 A3-3-083	- - -	- - -	- - -	- - -
CWL16	A3-5-01 A3-1-009	A3-41-13 A3-3-082	- - -	- - -	- - -	- - -
CPARBUS	A3-5-11 A3-1-010	A3-41-03 A3-3-081	- - -	- - -	- - -	- - -
CPGT	A3-6-01 A3-1-011	A3-40-13 A3-3-080	- - -	- - -	- - -	- - -
CWAG	A3-6-11 A3-1-012	A3-41-02 A3-2-081	- - -	- - -	- - -	- - -
CWALPG	A3-4-02 A3-2-007	A3-40-12 A3-2-080	- - -	- - -	- - -	- - -
CWZG	A3-4-12 A3-2-008	A3-39-19 A3-9-078	- - -	- - -	- - -	- - -
CWXG	A3-5-02 A3-2-009	A3-39-09 A3-9-077	- - -	- - -	- - -	- - -
CWYG	A3-5-12 A3-2-010	A3-38-19 A3-9-076	- - -	- - -	- - -	- - -
CRUG	A3-6-02 A3-2-011	A3-38-09 A3-9-075	- - -	- - -	- - -	- - -
CWBG	A3-6-12 A3-2-012	A3-37-19 A3-9-074	- - -	- - -	- - -	- - -
CWSG	A3-4-13 A3-3-008	A3-39-08 A3-8-077	- - -	- - -	- - -	- - -
CRGG	A3-5-03 A3-3-009	A3-38-18 A3-8-076	- - -	- - -	- - -	- - -
CWG1	A3-5-13 A3-3-010	A3-38-08 A3-8-075	- - -	- - -	- - -	- - -
CWG2	A3-6-03 A3-3-011	A3-37-18 A3-8-074	- - -	- - -	- - -	- - -
CWG3	A3-6-13 A3-3-012	A3-39-17 A3-7-078	- - -	- - -	- - -	- - -
CWG4	A3-4-04 A3-4-007	A3-39-07 A3-7-077	- - -	- - -	- - -	- - -
CWG5	A3-4-14 A3-4-008	A3-38-17 A3-7-076	- - -	- - -	- - -	- - -
CWG6	A3-5-04 A3-4-009	A3-38-07 A3-7-075	- - -	- - -	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
CWQG	A3-4-03 A3-3-007	A3-39-18 A3-8-078	- - -	- - -	- - -	- - -
CNISQ	A3-5-14 A3-4-010	A3-37-17 A3-7-074	- - -	- - -	- - -	- - -
CLINC	A3-6-04 A3-4-011	A3-37-07 A3-7-073	- - -	- - -	- - -	- - -
CMINC	A3-6-14 A3-4-012	A3-39-16 A3-6-078	- - -	- - -	- - -	- - -
CWL10	A1-12-16 A1-6-024	A2-41-15 A2-5-082	- - -	- - -	- - -	- - -
CWL9	A1-35-02 A1-2-069	A2-41-05 A2-5-081	- - -	- - -	- - -	- - -
RZ10	A1-36-01 A1-1-071	A3-14-03 A3-3-027	- - -	- - -	- - -	- - -
RZ11	A1-33-07 A1-7-065	A3-14-13 A3-3-028	- - -	- - -	- - -	- - -
RB12	A1-34-03 A1-3-067	A2-36-14 A2-4-072	- - -	- - -	- - -	- - -
RB11	A1-36-12 A1-2-072	A2-36-04 A2-4-071	- - -	- - -	- - -	- - -
RB10	A1-35-01 A1-1-069	A2-35-14 A2-4-070	- - -	- - -	- - -	- - -
RB9	A1-35-11 A1-1-070	A2-35-04 A2-4-069	- - -	- - -	- - -	- - -
RY3	A1-30-09 A1-9-059	A2-31-05 A2-5-061	- - -	- - -	- - -	- - -
RY1	A1-29-19 A1-9-058	A2-33-04 A2-4-065	- - -	- - -	- - -	- - -
RG3	A1-12-13 A1-3-024	A2-34-06 A2-6-067	- - -	- - -	- - -	- - -
RB3	A1-28-18 A1-8-056	A2-35-03 A2-3-069	- - -	- - -	- - -	- - -
RB1	A1-13-13 A1-3-026	A2-34-03 A2-3-067	- - -	- - -	- - -	- - -
RLP2	A1-9-13 A1-3-018	A2-45-02 A2-2-089	- - -	- - -	- - -	- - -
RZ4	A1-14-19 A1-9-028	A3-14-02 A3-2-027	- - -	- - -	- - -	- - -
RZ3	A1-10-04 A1-4-019	A3-13-12 A3-2-026	- - -	- - -	- - -	- - -
RZ1	A1-12-03 A1-3-023	A3-15-11 A3-1-030	- - -	- - -	- - -	- - -
RX2	A1-30-18 A1-8-060	A2-31-12 A2-2-062	- - -	- - -	- - -	- - -
RX1	A1-30-08 A1-8-059	A2-31-02 A2-2-061	- - -	- - -	- - -	- - -
RG4	A1-10-18 A1-8-020	A2-34-16 A2-6-068	- - -	- - -	- - -	- - -
RLP3	A1-12-09 A1-9-023	A2-45-12 A2-2-090	- - -	- - -	- - -	- - -
RY2	A1-29-09 A1-9-057	A2-33-14 A2-4-066	- - -	- - -	- - -	- - -
RB4	A1-30-06 A1-6-059	A2-35-13 A2-3-070	- - -	- - -	- - -	- - -
RLP1	A1-12-06 A1-6-023	A2-44-12 A2-2-088	- - -	- - -	- - -	- - -
RZ2	A1-13-19 A1-9-026	A3-13-02 A3-2-025	- - -	- - -	- - -	- - -
RQ2	A1-11-06 A1-6-021	A2-35-18 A2-8-070	- - -	- - -	- - -	- - -
RQ3	A1-8-12 A1-2-016	A2-36-08 A2-8-071	- - -	- - -	- - -	- - -
RQ4	A1-34-04 A1-4-067	A2-36-18 A2-8-072	- - -	- - -	- - -	- - -
RQ1	A1-9-11 A1-1-018	A2-35-08 A2-8-069	- - -	- - -	- - -	- - -
RLP12	A1-32-07 A1-7-063	A2-44-04 A2-4-087	- - -	- - -	- - -	- - -
RZ9	A1-10-07 A1-7-019	A3-13-13 A3-3-026	- - -	- - -	- - -	- - -
CWL11	A1-36-13 A1-3-072	A2-42-05 A2-5-083	- - -	- - -	- - -	- - -

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014411	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN
DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. ———
SIZE J
NASA DRAWING NO. 1014488
SCALE
WT
SHEET 2 OF 7

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06680 DR J. Murray CHK J&J APPD	3-4-64	K B
B	CHANGED PER TDRR 08878 DR. W. Barnes CHK APPD		KEB

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{CNT8A}$	A2-2-08 A2-8-003	A3-15-09 A3-9-029	A3-15-09 A3-9-029	A1-12-04 A1-4-023	— —	— —
STRSS	A2-2-07 A2-7-003	A2-43-19 A2-9-086	— —	— —	— —	— —
RAI4	A2-1-17 A2-7-002	A2-35-12 A2-2-070	A2-35-12 A2-2-070	A1-35-04 A1-4-069	— —	— —
TR3	A2-3-16 A2-6-006	A1-22-05 A1-5-043	A1-22-06 A1-5-043	A1-28-02 A1-2-055	— —	— —
RAI6	A2-2-16 A2-6-004	A2-36-12 A2-2-072	A2-36-12 A2-2-072	A1-7-14 A1-4-014	— —	— —
RAI1	A2-1-16 A2-6-002	A2-34-02 A2-2-067	A2-34-02 A2-2-067	A1-11-15 A1-5-022	— —	— —
TP7	A1-43-14 A1-4-086	A1-17-06 A1-6-033	— —	— —	— —	— —
KB3	A1-45-13 A1-3-090	A2-37-16 A2-6-074	— —	— —	— —	— —
TP8	A1-44-03 A1-3-087	A1-16-02 A1-2-031	— —	— —	— —	— —
SDALP2	A2-13-14 A2-4-026	A1-3-04 A1-4-005	— —	— —	— —	— —
DAX	A2-15-13 A2-3-030	A3-42-01 A3-1-083	— —	— —	— —	— —
SDAY6	A2-14-13 A2-3-028	A1-1-06 A1-6-001	— —	— —	— —	— —
SDAX5	A2-13-13 A2-3-026	A1-1-16 A1-6-002	— —	— —	— —	— —
SDAQ6	A2-3-19 A2-9-006	A1-1-07 A1-7-001	— —	— —	— —	— —
SDAQ1	A2-14-11 A2-1-028	A1-3-17 A1-7-006	— —	— —	— —	— —
SDAX4	A2-15-12 A2-2-030	A1-2-06 A1-6-003	— —	— —	— —	— —
	— —	— —	— —	— —	— —	— —
ST READ	A3-15-19 A3-9-030	A3-31-12 A3-2-062	— —	— —	— —	— —
STWYG	A3-18-01 A3-1-035	A3-31-16 A3-6-062	— —	— —	— —	— —
STINKL	A3-10-11 A3-1-020	A3-33-02 A3-2-065	— —	— —	— —	— —
STWXG	A3-18-11 A3-1-036	A3-32-06 A3-6-063	— —	— —	— —	— —
ST LOAD	A3-11-11 A3-1-022	A3-32-02 A3-2-063	— —	— —	— —	— —
STWZG	A3-16-02 A3-2-031	A3-32-16 A3-6-064	— —	— —	— —	— —
STWALPG	A3-33-16 A3-6-066	A3-16-12 A3-2-032	— —	— —	— —	— —
STT25	A3-10-12 A3-2-020	A3-33-12 A3-2-066	— —	— —	— —	— —
STSTP	A3-11-02 A3-2-021	A3-33-01 A3-1-065	— —	— —	— —	— —
STWAG	A3-16-16 A3-6-032	A3-31-07 A3-7-061	— —	— —	— —	— —
STTCSAI	A3-12-02 A3-2-023	A3-32-11 A3-1-064	— —	— —	— —	— —
STPGT	A3-33-06 A3-6-065	A3-24-16 A3-6-048	— —	— —	— —	— —
STB2	A3-10-03 A3-3-019	A3-18-02 A3-2-035	A3-18-02 A3-2-035	A3-32-19 A3-9-064	— —	— —
STWLPG	A3-31-13 A3-3-062	A3-16-01 A3-1-031	— —	— —	— —	— —
STWBKG	A3-31-03 A3-3-061	A3-16-11 A3-1-032	— —	— —	— —	— —
STT12	A3-11-13 A3-3-022	A3-32-17 A3-7-064	— —	— —	— —	— —
STRL16	A3-12-03 A3-3-023	A3-32-12 A3-2-064	— —	— —	— —	— —
STWG4	A3-33-04 A3-4-065	A3-16-07 A3-7-031	— —	— —	— —	— —
SSTOS2	A3-10-04 A3-4-019	A3-18-16 A3-6-036	— —	— —	— —	— —

SIGNAL	FROM	TO	FROM	TO	FROM	TO
STWSG	A3-32-15 A3-5-064	A3-16-13 A3-3-032	— —	— —	— —	— —
	— —	— —	— —	— —	— —	— —
STWBG	A3-33-15 A3-5-066	A3-17-13 A3-3-034	— —	— —	— —	— —
STT11	A3-12-04 A3-4-023	A3-33-07 A3-7-065	— —	— —	— —	— —
STT10	A3-12-14 A3-4-024	A3-33-17 A3-7-066	— —	— —	— —	— —
STT07	A3-17-07 A3-7-033	A3-32-08 A3-8-063	— —	— —	— —	— —
STRG6	A3-32-05 A3-5-063	A3-17-14 A3-4-034	— —	— —	— —	— —
STT06A	A3-10-05 A3-5-019	A3-17-08 A3-8-033	— —	— —	— —	— —
STWG6	A3-32-04 A3-4-063	A3-18-09 A3-4-035	— —	— —	— —	— —
STT02	A3-12-05 A3-5-023	A3-31-19 A3-9-062	— —	— —	— —	— —
STWG5	A3-32-14 A3-4-064	A3-18-14 A3-4-036	— —	— —	— —	— —
STPARBS	A3-10-16 A3-6-020	A3-32-07 A3-7-063	— —	— —	— —	— —
STWL15	A3-11-06 A3-6-021	A3-31-17 A3-7-062	— —	— —	— —	— —
STPW1	A1-18-16 A1-6-036	A3-8-04 A3-4-015	— —	— —	— —	— —
DLCTRINP1	A3-10-07 A3-7-019	A3-21-15 A3-5-042	— —	— —	— —	— —
CTRSTB	A3-11-07 A3-7-021	A2-29-04 A2-4-057	— —	— —	— —	— —
STPW2	A1-22-12 A1-2-044	A3-8-14 A3-4-016	— —	— —	— —	— —
$\overline{WBG}$	A1-35-05 A1-5-069	A2-42-02 A2-2-083	— —	— —	— —	— —
$\overline{SMO}$	A1-34-15 A1-5-068	A2-45-06 A2-6-089	— —	— —	— —	— —
$\overline{RBK15}$	A1-29-12 A1-2-058	A1-38-05 A1-5-075	— —	— —	— —	— —
RBK15	A1-29-02 A1-2-057	A1-44-14 A1-4-088	A1-44-14 A1-4-088	A3-2-15 A3-5-004	— —	— —
$\overline{Q2}$	A1-36-14 A1-4-072	A2-40-08 A2-8-079	— —	— —	— —	— —
	— —	— —	— —	— —	— —	— —
$\overline{WA}$	A1-31-01 A1-1-061	A2-42-11 A2-1-084	— —	— —	— —	— —
	— —	— —	— —	— —	— —	— —
$\overline{WG}$	A1-36-17 A1-7-072	A2-42-12 A2-2-084	— —	— —	— —	— —
$\overline{RDFB}$	A1-36-07 A1-7-071	A2-38-11 A2-1-078	— —	— —	— —	— —
$\overline{INKL}$	A1-33-04 A1-4-065	A2-37-12 A2-2-074	— —	— —	— —	— —
$\overline{T10}$	A1-32-14 A1-4-064	A2-40-07 A2-7-079	— —	— —	— —	— —
$\overline{WQG}$	A1-31-04 A1-4-061	A2-41-13 A2-3-082	— —	— —	— —	— —
$\overline{T67}$	A2-42-16 A2-6-084	A2-4-15 A2-5-008	— —	— —	— —	— —
$\overline{WZG}$	A1-32-13 A1-3-064	A2-40-12 A2-2-080	— —	— —	— —	— —
RY8	A1-14-14 A1-4-028	A2-33-15 A2-5-066	— —	— —	— —	— —
$\overline{CWL7}$	A1-35-18 A1-8-070	A2-40-05 A2-5-079	— —	— —	— —	— —
$\overline{RBK11}$	A1-36-06 A1-6-071	A1-41-06 A1-6-081	— —	— —	— —	— —
RBK11	A1-36-19 A1-9-072	A1-41-16 A1-6-082	A1-41-16 A1-6-082	A3-10-02 A3-2-019	— —	— —

SIGNAL	FROM	TO	FROM	TO	FROM	TO
RQ9	A1-34-06 A1-6-067	A2-36-09 A2-9-071	— —	— —	— —	— —
RQ11	A1-36-08 A1-8-071	A2-31-01 A2-1-061	— —	— —	— —	— —
RQ12	A1-35-08 A1-8-069	A2-31-11 A2-1-062	— —	— —	— —	— —
RX12	A1-15-16 A1-6-030	A2-33-13 A2-3-066	— —	— —	— —	— —
RY11	A1-15-07 A1-7-029	A2-32-06 A2-6-063	— —	— —	— —	— —
RBK12	A1-36-02 A1-2-071	A1-40-16 A1-6-080	A1-40-16 A1-6-080	A3-11-12 A3-2-022	— —	— —
$\overline{RBK12}$	A1-35-06 A1-6-069	A1-40-06 A1-6-079	— —	— —	— —	— —
RZ12	A1-35-19 A1-9-070	A3-15-03 A3-3-029	— —	— —	— —	— —
RY12	A1-14-04 A1-4-027	A2-32-16 A2-6-064	— —	— —	— —	— —
RY10	A1-13-14 A1-4-026	A2-31-16 A2-6-062	— —	— —	— —	— —
RLP10	A1-33-16 A1-6-066	A2-43-04 A2-4-085	— —	— —	— —	— —
RX10	A1-15-06 A1-6-029	A2-32-13 A2-3-064	— —	— —	— —	— —
RQ10	A1-32-12 A1-2-064	A2-36-19 A2-9-072	— —	— —	— —	— —
RG9	A1-34-05 A1-5-067	A2-34-07 A2-7-067	— —	— —	— —	— —
RLP4	A1-11-13 A1-3-022	A2-43-03 A2-3-085	— —	— —	— —	— —
RY4	A1-28-19 A1-9-056	A2-31-15 A2-5-062	— —	— —	— —	— —
RB2	A1-10-09 A1-9-019	A2-34-13 A2-3-068	— —	— —	— —	— —
RG2	A1-11-19 A1-9-022	A2-36-15 A2-5-072	— —	— —	— —	— —
RG1	A1-35-14 A1-4-070	A2-36-05 A2-5-071	— —	— —	— —	— —
$\overline{CWL1}$	A1-13-18 A1-8-086	A2-40-04 A2-4-079	— —	— —	— —	— —
$\overline{RL7}$	A2-11-04 A2-4-021	A2-40-19 A2-9-080	— —	— —	— —	— —
$\overline{T23}$	A2-1-19 A2-9-002	A2-41-17 A2-7-082	— —	— —	— —	— —
SDAG5	A2-5-07 A2-7-009	A1-1-18 A1-8-002	— —	— —	— —	— —
SDAB6	A2-4-07 A2-7-007	A1-1-09 A1-9-001	— —	— —	— —	— —
$\overline{STU}$	A2-5-06 A2-6-009	A2-45-05 A2-5-089	— —	— —	— —	— —
DAY	A2-5-15 A2-5-010	A3-40-01 A3-1-079	— —	— —	— —	— —
SDAB4	A2-10-04 A2-4-019	A1-2-09 A1-9-003	— —	— —	— —	— —
SDAG4	A2-12-03 A2-3-023	A1-2-08 A1-8-003	— —	— —	— —	— —
DAB	A2-3-02 A2-2-005	A3-40-11 A3-1-080	— —	— —	— —	— —
DALP	A2-3-11 A2-1-006	A3-42-11 A3-1-084	— —	— —	— —	— —
DAG	A2-5-19 A2-9-010	A3-41-01 A3-1-081	— —	— —	— —	— —
$\overline{SMU}$	A2-6-18 A2-8-012	A2-44-07 A2-7-087	— —	— —	— —	— —
SDAG3	A2-5-18 A2-8-010	A1-2-18 A1-8-004	— —	— —	— —	— —
SDAB5	A2-4-18 A2-8-008	A1-1-19 A1-9-002	— —	— —	— —	— —
SDAG1	A2-11-07 A2-7-021	A1-3-18 A1-8-006	— —	— —	— —	— —
SDAY4	A2-1-06 A2-6-001	A1-2-05 A1-5-003	— —	— —	— —	— —

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04306 DATE 10/30/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014411	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN W. Kelley DATE 2-26-63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
M I T APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014488
SCALE
WT
SHEET 3 OF 7

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR ...		
A	CHANGED PER TDRR 06680 DR J. Manning CHK J.J APPD	3/4/4	KB
B	CHANGED PER TDRR 08878 DR W. Dunn CHK APPD		

SIGNAL	FROM	TO	FROM	TO	FROM	TO
RA3	A2-6-03 A2-3-011	A1-12-11 A1-1-024	A1-12-11 A1-1-024	A2-39-09 A2-9-077		
RA5	A2-5-13 A2-3-010	A1-15-15 A1-5-030	A1-15-15 A1-5-030	A2-34-01 A2-1-067		
$\overline{\mathrm{STP}}$	A2-6-12 A2-2-012	A1-12-08 A1-8-023	A1-12-08 A1-8-023	A2-44-06 A2-6-087		
STV	A2-5-17 A2-7-010	A2-45-15 A2-5-090				
RA4	A2-4-17 A2-7-008	A2-39-19 A2-9-078	A2-39-19 A2-9-078	A1-10-02 A1-2-019		
RA6	A2-6-16 A2-6-012	A2-34-11 A2-1-068	A2-34-11 A2-1-068	A1-15-09 A1-9-029		
RA2	A2-6-06 A2-6-011	A1-15-19 A1-9-030	A1-15-19 A1-9-030	A2-38-19 A2-9-076		
TR2	A2-5-16 A2-6-010	A1-23-16 A1-6-096	A1-23-16 A1-6-096	A1-7-13 A1-3-014		
$\overline{\mathrm{STV}}$	A2-6-14 A2-4-012	A3-13-01 A3-1-025				
STD	A2-2-12 A2-2-009	A2-43-15 A2-5-086				
RA7	A2-2-02 A2-2-003	A1-14-09 A1-9-027	A1-14-09 A1-9-027	A2-35-01 A2-1-069		
$\overline{\mathrm{TM3A}}$	A2-1-12 A2-2-002	A3-14-01 A3-1-027				
TR2	A2-1-02 A2-2-001	A1-24-12 A1-2-048	A1-24-12 A1-2-048	A1-8-13 A1-3-016		
SDAB1	A2-11-05 A2-5-021	A1-3-19 A1-9-006				
SDA66	A2-10-05 A2-5-019	A1-1-08 A1-8-001				
SDA62	A2-12-17 A2-7-024	A1-3-08 A1-8-005				
SDAY1	A2-2-14 A2-4-004	A1-3-15 A1-5-006				
SDAY2	A2-1-14 A2-4-002	A1-3-05 A1-5-005				
SDAY3	A2-3-13 A2-3-006	A1-2-15 A1-5-004				
SDAB2	A2-9-02 A2-2-017	A1-3-09 A1-9-005				
SDAB3	A2-7-12 A2-2-014	A1-2-19 A1-9-004				
TP4	A2-1-09 A2-9-001	A1-16-13 A1-3-032				
SPLT	A2-1-18 A2-8-002	A1-17-13 A1-3-034				
$\overline{\mathrm{CLB1}}$	A2-1-08 A2-8-001	A3-12-09 A3-9-023				
LLT	A2-3-17 A2-7-006	A2-45-08 A2-8-089				
SDALP6	A2-3-07 A2-7-005	A1-1-04 A1-4-001				
TP3	A2-2-17 A2-7-004	A1-17-03 A1-3-033				
SDAQ2	A2-1-07 A2-7-001	A1-3-07 A1-7-005				
DAQ	A1-43-04 A1-4-085	A3-41-11 A3-1-082				
$\overline{\mathrm{SMU1}}$	A1-45-03 A1-3-089	A2-44-8 A2-8-087				
SDALP5	A1-44-13 A1-3-088	A1-1-14 A1-4-002				
SDALP4	A1-45-12 A1-2-090	A1-2-04 A1-4-003				
SDALP1	A1-45-02 A1-2-089	A1-3-14 A1-4-006				
$\overline{\mathrm{SMUO}}$	A1-43-12 A1-2-086	A2-43-08 A2-8-085				
SMU1	A2-14-06 A2-6-027	A2-43-18 A2-8-086				
SMUO	A1-43-02 A1-2-085	A2-45-17 A2-7-090				

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{\mathrm{T1}}$	A2-12-04 A2-4-023	A2-42-01 A2-1-083				
SMO	A1-30-12 A1-2-060	A3-11-15 A3-5-022				
$\overline{\mathrm{KBCLR}}$	A2-39-18 A2-8-078					
$\overline{\mathrm{STSTPIT}}$	A3-10-08 A3-8-019	A3-32-03 A3-3-063				
$\overline{\mathrm{STQ2}}$	A3-10-18 A3-8-020	A3-33-09 A3-9-065				
$\overline{\mathrm{LCL1}}$	A3-11-08 A3-8-021	A3-20-04 A3-4-039				
$\overline{\mathrm{Q1}}$	A3-2-17 A3-7-004	A3-19-17 A3-7-038				
$\overline{\mathrm{T3}}$	A3-3-07 A3-7-005	A3-20-18 A3-8-040				
$\overline{\mathrm{T4}}$	A3-2-16 A3-6-004	A3-21-19 A3-9-042				
$\overline{\mathrm{T5}}$	A3-3-06 A3-6-005	A3-22-12 A3-2-044				
$\overline{\mathrm{T6}}$	A3-3-16 A3-6-006	A3-23-13 A3-3-046				
$\overline{\mathrm{T7}}$	A3-1-07 A3-7-001	A3-24-14 A3-4-048	A3-24-14 A3-4-048	A1-33-03 A1-3-065		
$\overline{\mathrm{T9}}$	A3-1-17 A3-7-002	A3-22-16 A3-6-044				
$\overline{\mathrm{RUG}}$	A3-3-17 A3-7-006	A3-17-12 A3-2-034				
$\overline{\mathrm{WG1}}$	A3-3-08 A3-8-005	A3-18-13 A3-3-036				
$\overline{\mathrm{WG2}}$	A3-3-18 A3-8-006	A3-16-15 A3-5-032				
$\overline{\mathrm{WG3}}$	A3-1-09 A3-9-001	A3-17-16 A3-6-034				
TSTP	A3-12-08 A3-8-023	A3-17-19 A3-[illegible]-034				
R1 IN	A3-12-18 A3-8-024	A3-21-11 A3-1-042				
R2 IN	A3-10-09 A3-9-019	A3-19-13 A3-3-038				
R3 IN	A3-10-19 A3-9-020	A3-19-14 A3-4-038				
R4 IN	A3-11-09 A3-9-021	A3-21-14 A3-4-042				
RRPA	A2-37-13 A2-3-074	A3-18-17 A3-7-036				
RCA	A2-38-03 A2-3-075	A3-16-19 A3-9-032				
LCL	A3-11-19 A3-9-022	A2-5-05 A2-5-009				
CQ1	A3-3-09 A3-9-005	A3-42-19 A3-9-084				
$\overline{\mathrm{CQ2}}$	A3-3-19 A3-9-006	A3-42-09 A3-9-083				
CB2	A3-8-15 A3-5-016	A3-41-19 A3-9-082				
CT01	A3-9-05 A3-5-017	A3-41-09 A3-9-081				
CT02	A3-9-15 A3-5-018	A3-40-19 A3-9-080				
CT03	A3-7-06 A3-6-013	A3-42-18 A3-8-084				
CT04	A3-7-16 A3-6-014	A3-42-08 A3-8-083				
CT05	A3-8-16 A3-6-016	A3-41-18 A3-8-082				
CT06	A3-9-06 A3-6-017	A3-41-08 A3-8-081				
CT07	A3-9-16 A3-6-018	A3-40-18 A3-8-080				
CT08	A3-7-07 A3-7-013	A3-42-17 A3-7-084				

SIGNAL	FROM	TO	FROM	TO	FROM	TO
CT09	A3-7-17 A3-7-014	A3-42-07 A3-7-083				
CT10	A3-8-07 A3-7-015	A3-41-17 A3-7-062				
$\overline{\mathrm{KB3}}$	A2-5-02 A2-2-009	A2-38-06 A2-6-075				
SPWB1	A2-9-16 A2-6-018	A1-1-13 A1-3-002				
[KBERR]	A2-4-16 A2-6-008	A2-38-18 A2-8-076				
[KBSPC]	A2-6-09 A2-9-011	A2-37-18 A2-8-074				
[K1]	A2-14-04 A2-4-027	A1-35-03 A1-3-069				
[K2]	A2-13-04 A2-4-025	A1-13-08 A1-8-025				
[KBSTP]	A2-15-03 A2 3-029	A2-39-17 A2-7-078				
$\overline{\mathrm{KB5}}$	A2-14-03 A2-3-027	A2-37-07 A2-7-073				
$\overline{\mathrm{SRM}}$	A2-13-03 A2-3-025	A1-1-12 A1-2-002				
[KBERR]	A2-15-02 A2-2-029	A1-35-09 A1-9-069	A1-35-09 A1-9-069	A2-39-08 A2-8-077		
$\overline{\mathrm{KB0}}$	A2-14-02 A2-2-027	A2-33-19 A2-9-066				
[KBSTP]	A2-13-02 A2-2-025	A2-37-08 A2-8-073	A2-37-08 A2-8-073	A1-9-02 A1-2-017		
[KBINFO]	A2-15-01 A2-1-029	A1-32-03 A1-3-063				
KB1	A2-14-01 A2-1-027	A2-38-15 A2-5-076				
KBO	A2-13-17 A2-7-026	A2-33-09 A2-9-065				
KB6	A2-15-16 A2-6-030	A2-37-17 A2-7-074				
RL8	A2-13-16 A2-6-026	A2-41-09 A2-9-081				
$\overline{\mathrm{TR6}}$	A2-13-06 A2-6-025	A1-24-05 A1-5-047				
$\overline{\mathrm{LDFB}}$	A2-15-05 A2-5-029	A2-41-01 A2-1-081				
$\overline{\mathrm{SRT1}}$	A2-14-05 A2-5-027	A1-3-02 A1-2-005				
$\overline{\mathrm{RL10}}$	A2-13-05 A2-5-025	A2-42-09 A2-9-083				
TCFB	A2-15-04 A2-4-029	A2-42-07 A2-7-083				
SRT01	A2-1-05 A2-5-001	A1-3-12 A1-2-006				
LDFB	A2-6-17 A2-7-012	A2-41-11 A2-1-082				
RDFB	A2-3-12 A2-2-006	A2-39-01 A2-1-77				
TR7	A1-43-13 A1-3-086	A1-24-15 A1-5-048				
SPWA1	A1-43-03 A1-3-085	A1-3-03 A1-3-005				
SPWB2	A1-44-02 A1-2-087	A1-1-03 A1-3-001				
KB2	A1-45-11 A1-1-090	A2-39-15 A2-5-078				
$\overline{\mathrm{TR8}}$	A2-3-09 A2-9-005	A1-22-04 A1-4-043				
SRE	A1-36-05 A1-5-071	A2-2-19 A2-9-004	A2-2-19 A2-9-004	A3-12-11 A3-1-024		
STP	A2-2-09 A2-9-003	A2-43-16 A2-6-086				
KB4	A2-9-18 A2-8-018	A2-38-16 A2-6-076				
KB5	A2-8-08 A2-8-015	A2-39-16 A2-6-078				

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 01306 DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014417	1019156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 2-26-63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. ——— SIZE J NASA DRAWING NO. 1014488
SCALE WT SHEET 4 OF 7

1014488

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06680 DR J. Manning CHK J.J. APPD	3/4/64	K.B.
B	CHANGED PER TDRR 08878 DR. W. Brown CHK APPD.	68	KEB

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{\text{RS12}}$	A1-42-06 A1-6-083	A1-12-02 A1-2-023	- -	- -	- -	- -
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RA15	A1-40-15 A1-5-080	A2-36-02 A2-2-071	A2-36-02 A2-2-071	A1-10-19 A1-9-020	- -	- -
RX6	A1-29-08 A1-8-057	A2-33-12 A2-2-066	- -	- -	- -	- -
RX5	A1-15-03 A1-3-029	A2-33-02 A2-2-065	- -	- -	- -	- -
RG7	A1-10-16 A1-6-020	A2-36-06 A2-6-071	- -	- -	- -	- -
RG6	A1-8-02 A1-2-015	A2-35-16 A2-6-070	- -	- -	- -	- -
RG5	A1-34-12 A1-2-068	A2-35-06 A2-6-069	- -	- -	- -	- -
RQ5	A1-34-02 A1-2-067	A2-34-09 A2-9-067	- -	- -	- -	- -
RX7	A1-14-13 A1-3-028	A2-31-03 A2-3-061	- -	- -	- -	- -
RQ7	A1-12-17 A1-7-024	A2-35-09 A2-9-069	- -	- -	- -	- -
RZ6	A1-33-14 A1-4-066	A3-15-02 A3-2-029	- -	- -	- -	- -
RB7	A1-15-05 A1-5-029	A2-34-04 A2-4-067	- -	- -	- -	- -
RB8	A1-14-15 A1-5-028	A2-34-14 A2-4-068	- -	- -	- -	- -
RY7	A1-15-04 A1-4-029	A2-33-05 A2-5-065	- -	- -	- -	- -
RLP7	A1-35-12 A1-2-070	A2-44-13 A2-3-088	- -	- -	- -	- -
$\overline{\text{CWL8}}$	A1-33-02 A1-2-065	A2-40-15 A2-5-080	- -	- -	- -	- -
$\overline{\text{CWL5}}$	A1-35-17 A1-7-070	A2-42-04 A2-4-083	- -	- -	- -	- -
RB6	A1-35-07 A1-7-069	A2-36-13 A2-3-072	- -	- -	- -	- -
RLP6	A1-36-03 A1-3-071	A2-44-03 A2-3-087	- -	- -	- -	- -
$\overline{\text{CWL6}}$	A1-36-18 A1-8-072	A2-42-14 A2-4-084	- -	- -	- -	- -
RG10	A1-36-04 A1-4-071	A2-34-17 A2-7-068	- -	- -	- -	- -
RG11	A1-32-11 A1-1-064	A2-35-07 A2-7-069	- -	- -	- -	- -
RG12	A1-34-07 A1-7-067	A2-35-17 A2-7-070	- -	- -	- -	- -
RX11	A1-13-07 A1-7-025	A2-33-03 A2-3-065	- -	- -	- -	- -
RY9	A1-15-17 A1-7-030	A2-31-06 A2-6-061	- -	- -	- -	- -
$\overline{\text{CWL12}}$	A1-9-12 A1-2-018	A2-42-15 A2-5-084	- -	- -	- -	- -
RX9	A1-11-12 A1-2-022	A2-32-03 A2-3-063	- -	- -	- -	- -
RLP9	A1-31-06 A1-6-061	A2-45-13 A2-3-090	- -	- -	- -	- -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
RLP11	A1-33-05 A1-5-065	A2-43-14 A2-4-086	- -	- -	- -	- -
LLDFB	A1-37-05 A1-5-073	A3-15-17 A3-7-030	- -	- -	- -	- -
LRDFB	A1-39-14 A1-4-078	A3-15-07 A3-7-029	- -	- -	- -	- -
LSHANC	A1-39-04 A1-4-077	A3-13-07 A3-7-025	- -	- -	- -	- -
LSHINC	A1-38-14 A1-4-076	A3-13-17 A3-7-026	- -	- -	- -	- -
LMINC	A1-38-04 A1-4-075	A3-14-07 A3-7-027	- -	- -	- -	- -
LPINC	A1-37-14 A1-4-074	A3-14-17 A3-7-028	- -	- -	- -	- -
NISQ	A1-37-04 A1-4-073	A2-42-06 A2-6-083	- -	- -	- -	- -
IIP	A1-39-13 A1-3-078	A2-38-02 A2-2-075	- -	- -	- -	- -
INKL	A1-39-03 A1-3-077	A3-8-06 A3-6-015	- -	- -	- -	- -
CTROR	A1-38-13 A1-3-076	A2-39-12 A2-2-078	- -	- -	- -	- -
PAL	A1-38-03 A1-3-075	A2-37-03 A2-3-073	- -	- -	- -	- -
T11	A1-37-13 A1-3-074	A2-40-17 A2-7-080	- -	- -	- -	- -
T12	A1-37-03 A1-3-073	A2-41-07 A2-7-081	- -	- -	- -	- -
ACSP1	A1-39-12 A1-2-078	A3-41-12 A3-2-082	- -	- -	- -	- -
ACSP2	A1-39-02 A1-2-077	A3-40-02 A3-2-079	- -	- -	- -	- -
RPTR	A1-38-12 A1-2-076	A2-37-02 A2-2-073	- -	- -	- -	- -
RS1	A1-38-02 A1-2-075	A1-30-17 A1-7-060	A1-30-17 A1-7-060	A2-32-17 A2-7-064	- -	- -
$\overline{\text{RS1}}$	A1-37-12 A1-2-074	A1-29-17 A1-7-058	- -	- -	- -	- -
RS2	A1-37-02 A1-2-073	A1-13-03 A1-3-025	A1-13-03 A1-3-025	A2-33-07 A2-7-065	- -	- -
$\overline{\text{RS2}}$	A1-39-11 A1-1-078	A1-14-12 A1-2-028	- -	- -	- -	- -
RS3	A1-42-19 A1-9-084	A1-13-04 A1-4-025	A1-13-04 A1-4-025	A2-33-17 A2-7-066	- -	- -
$\overline{\text{RS3}}$	A1-42-09 A1-9-083	A1-30-07 A1-7-059	- -	- -	- -	- -
RS4	A1-41-19 A1-9-082	A1-15-12 A1-2-030	A1-15-12 A1-2-030	A2-31-17 A2-7-062	- -	- -
$\overline{\text{RS4}}$	A1-41-09 A1-9-081	A1-15-02 A1-2-029	- -	- -	- -	- -
RS5	A1-40-19 A1-9-080	A1-13-02 A1-2-025	A1-13-02 A1-2-025	A2-33-08 A2-8-065	- -	- -
$\overline{\text{RS5}}$	A1-40-09 A1-9-079	A1-15-11 A1-1-030	- -	- -	- -	- -
RS6	A1-42-18 A1-8-084	A1-13-12 A1-2-026	A1-13-12 A1-2-026	A2-37-15 A2-5-074	- -	- -
$\overline{\text{RS6}}$	A1-42-08 A1-8-083	A1-29-07 A1-7-057	- -	- -	- -	- -
RS7	A1-41-18 A1-8-082	A1-14-02 A1-2-027	A1-14-02 A1-2-027	A2-38-05 A2-5-075	- -	- -
$\overline{\text{RS7}}$	A1-41-08 A1-8-081	A1-28-07 A1-7-055	- -	- -	- -	- -
RS8	A1-40-18 A1-8-080	A1-30-19 A1-9-060	A1-30-19 A1-9-060	A2-43-01 A2-1-085	- -	- -
$\overline{\text{RS8}}$	A1-40-08 A1-8-079	A1-28-17 A1-7-056	- -	- -	- -	- -
RS9	A1-42-17 A1-7-084	A2-43-11 A2-1-086	A2-43-11 A2-1-086	A1-13-06 A1-6-025	- -	- -
$\overline{\text{RS9}}$	A1-42-07 A1-7-083	A1-14-17 A1-7-028	- -	- -	- -	- -
RS10	A1-41-17 A1-7-082	A1-13-16 A1-6-026	A1-13-16 A1-6-026	A2-44-01 A2-1-087	- -	- -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{\text{RS10}}$	A1-41-07 A1-7-081	A1-31-03 A1-3-061	- -	- -	- -	- -
RS11	A1-40-17 A1-7-080	A1-12-12 A1-2-024	A1-12-12 A1-2-024	A2-44-11 A2-1-088	- -	- -
$\overline{\text{RS11}}$	A1-40-07 A1-7-079	A1-14-07 A1-7-027	- -	- -	- -	- -
RS12	A1-42-16 A1-6-084	A1-13-17 A1-7-026	A1-13-17 A1-7-026	A2-45-01 A2-1-089	- -	- -
RX3	A1-30-16 A1-6-060	A2-32-02 A2-2-063	- -	- -	- -	- -
$\overline{\text{CWL2}}$	A1-11-14 A1-4-022	A2-40-14 A2-4-080	- -	- -	- -	- -
RX4	A1-15-13 A1-3-030	A2-32-12 A2-2-064	- -	- -	- -	- -
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$\overline{\text{CWL3}}$	A1-11-08 A1-8-021	A2-41-04 A2-4-081	- -	- -	- -	- -
RZ14	A1-34-19 A1-9-068	A3-13-04 A3-4-025	- -	- -	- -	- -
RZ13	A1-35-16 A1-6-070	A3-15-13 A3-3-030	- -	- -	- -	- -
RZ15	A1-34-09 A1-9-067	A3-13-14 A3-4-026	- -	- -	- -	- -
RB16	A1-15-08 A1-8-029	A2-35-15 A2-5-070	A2-35-15 A2-5-070	A2-11-16 A2-6-022	- -	- -
RLP14	A1-14-18 A1-8-028	A2-45-04 A2-4-089	- -	- -	- -	- -
RY14	A1-14-08 A1-8-027	A2-33-16 A2-6-066	- -	- -	- -	- -
RX14	A1-11-02 A1-2-021	A2-31-14 A2-4-062	- -	- -	- -	- -
RX15	A1-10-06 A1-6-019	A2-32-04 A2-4-063	- -	- -	- -	- -
RQ15	A1-10-15 A1-5-020	A2-33-01 A2-1-065	- -	- -	- -	- -
RQ16	A1-10-05 A1-5-019	A2-33-11 A2-1-066	A2-33-11 A2-1-066	A2-4-03 A2-3-007	- -	- -
RY15	A1-12-14 A1-4-024	A2-31-07 A2-7-061	- -	- -	- -	- -
RX13	A1-12-15 A1-5-024	A2-31-04 A2-4-061	- -	- -	- -	- -
RQ13	A1-10-14 A1-4-020	A2-32-01 A2-1-063	- -	- -	- -	- -
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RY16	A1-11-03 A1-3-021	A2-32-07 A2-7-063	A2-32-07 A2-7-063	A2-1-13 A2-3-002	- -	- -
RY13	A1-10-13 A1-3-020	A2-33-06 A2-6-065	- -	- -	- -	- -
RLP18	A1-10-03 A1-3-019	A2-43-05 A2-5-085	A2-43-05 A2-5-085	A2-12-09 A2-9-023	- -	- -
$\overline{\text{SK}}$	A1-12-07 A1-7-023	A2-45-16 A2-6-090	- -	- -	- -	- -
RG16	A1-7-04 A1-4-013	A2-34-18 A2-8-068	A2-34-18 A2-8-068	A2-4-05 A2-5-007	- -	- -
RG15	A1-8-03 A1-3-015	A2-34-08 A2-8-067	- -	- -	- -	- -
RG14	A1-7-03 A1-3-013	A2-36-17 A2-7-072	- -	- -	- -	- -
KBB31	A1-18-14 A1-4-036	A2-37-09 A2-9-073	- -	- -	- -	- -
KBB32	A1-16-03 A1-3-031	A2-37-19 A2-9-074	- -	- -	- -	- -
TR4	A1-22-14 A1-4-044	- -	- -	- -	- -	- -
TR5	A1-24-04 A1-4-047	- -	- -	- -	- -	- -
TR7	A1-23-05 A1-5-045	- -	- -	- -	- -	- -
TR8	A1-24-14 A1-4-048	- -	- -	- -	- -	- -

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014411	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE WRAP LIST A18

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014488
SCALE
WT
SHEET 5 OF 7

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06680 DR Manning CHK J.J. APPD	3-4-[illegible]	K B

SIGNAL	FROM	TO	FROM	TO	FROM	TO
RX16	A1-14-16 A1-6-028	A1-44-12 A1-2-088	A1-44-12 A1-2-088	A2-32-14 A2-4-064	- - -	- - -
RB14	A1-14-05 A1-5-027	A2-34-15 A2-5-068	- - -	- - -	- - -	- - -
RB13	A1-13-15 A1-5-026	A2-34-05 A2-5-067	- - -	- - -	- - -	- - -
RZ16	A1-29-15 A1-5-058	A3-14-04 A3-4-027	- - -	- - -	- - -	- - -
RBK13	A1-28-05 A1-5-055	A1-42-15 A1-5-084	A1-42-15 A1-5-084	A3-10-13 A3-3-020	- - -	- - -
RLP13	A1-13-09 A1-9-025	A2-44-14 A2-4-088	- - -	- - -	- - -	- - -
RLP15	A1-30-02 A1-2-059	A2-45-14 A2-4-090	- - -	- - -	- - -	- - -
SDAX2	A2-14-12 A2-2-028	A1-3-06 A1-6-005	- - -	- - -	- - -	- - -
SDAX3	A2-13-12 A2-2-026	A1-2-16 A1-6-004	- - -	- - -	- - -	- - -
SDAQ5	A2-3-06 A2-6-005	A1-1-17 A1-7-002	- - -	- - -	- - -	- - -
SDAX1	A2-15-11 A2-1-030	A1-3-16 A1-6-006	- - -	- - -	- - -	- - -
SDAQ4	A2-2-06 A2-6-003	A1-2-07 A1-7-003	- - -	- - -	- - -	- - -
SDAQ3	A2-10-09 A2-9-019	A1-2-17 A1-7-004	- - -	- - -	- - -	- - -
SDALP3	A2-8-17 A2-7-016	A1-2-14 A1-4-004	- - -	- - -	- - -	- - -
TP1	A2-7-16 A2-6-014	A1-16-15 A1-5-032	- - -	- - -	- - -	- - -
TP2	A2-7-05 A2-5-013	A1-18-13 A1-3-036	- - -	- - -	- - -	- - -
STNNC1	A2-9-13 A2-3-018	A2-44-19 A2-9-088	- - -	- - -	- - -	- - -
STMPT1	A2-9-03 A2-3-017	A2-44-09 A2-9-087	- - -	- - -	- - -	- - -
$\overline{STI}$	A1-39-19 A1-9-078	A3-2-06 A3-6-003	- - -	- - -	- - -	- - -
SRAST	A1-39-09 A1-9-077	A3-15-15 A3-5-030	- - -	- - -	- - -	- - -
ST12ST	A1-38-19 A1-9-076	A3-14-14 A3-4-028	- - -	- - -	- - -	- - -
ST12L	A1-38-09 A1-9-075	A3-15-04 A3-4-029	- - -	- - -	- - -	- - -
SNISQ	A1-37-19 A1-9-074	A3-15-14 A3-4-030	- - -	- - -	- - -	- - -
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SIIP	A1-39-18 A1-8-078	A3-13-15 A3-5-026	- - -	- - -	- - -	- - -
SCTROR	A1-39-08 A1-8-077	A3-14-05 A3-5-027	- - -	- - -	- - -	- - -
SINKL	A1-38-18 A1-8-076	A3-14-15 A3-5-028	- - -	- - -	- - -	- - -
SPF	A1-38-08 A1-8-075	A3-15-05 A3-5-029	- - -	- - -	- - -	- - -
S2SA	A1-37-18 A1-8-074	A1-31-14 A1-4-062	- - -	- - -	- - -	- - -
S2ST	A1-37-08 A1-8-073	A3-13-16 A3-6-026	- - -	- - -	- - -	- - -
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LPFG	A1-37-07 A1-7-073	A3-15-06 A3-6-029	- - -	- - -	- - -	- - -

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LPTG	A1-39-16 A1-6-078	A3-15-16 A3-6-030	- - -	- - -	- - -	- - -
LPAL	A1-39-06 A1-6-077	A3-13-18 A3-8-026	- - -	- - -	- - -	- - -
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LCTROR	A1-38-06 A1-6-075	A3-14-18 A3-8-028	- - -	- - -	- - -	- - -
LIIP	A1-37-16 A1-6-074	A3-13-08 A3-9-025	- - -	- - -	- - -	- - -
LRPTR	A1-37-06 A1-6-073	A3-15-18 A3-8-030	- - -	- - -	- - -	- - -
LNISQ	A1-39-15 A1-5-078	A3-15-08 A3-8-029	- - -	- - -	- - -	- - -
LT12	A1-39-05 A1-5-077	A3-13-08 A3-8-025	- - -	- - -	- - -	- - -
LSTPIT	A1-38-15 A1-5-076	A3-2-13 A3-3-004	- - -	- - -	- - -	- - -
LGOJAM	A1-37-15 A1-5-074	A2-38-12 A2-2-076	- - -	- - -	- - -	- - -
COINC	A3-4-05 A3-5-007	A3-38-06 A3-6-075	- - -	- - -	- - -	- - -
CPINC	A3-4-15 A3-5-008	A3-37-16 A3-6-074	- - -	- - -	- - -	- - -
CSHANC	A3-5-05 A3-5-009	A3-37-06 A3-6-073	- - -	- - -	- - -	- - -
CSHINC	A3-5-15 A3-5-010	A3-39-15 A3-5-078	- - -	- - -	- - -	- - -
CSQ13	A3-6-05 A3-5-011	A3-39-05 A3-5-077	- - -	- - -	- - -	- - -
CSQ14	A3-6-15 A3-5-012	A3-38-15 A3-5-076	- - -	- - -	- - -	- - -
CSQ15	A3-4-06 A3-6-007	A3-38-05 A3-5-075	- - -	- - -	- - -	- - -
CSQ16	A3-4-16 A3-6-008	A3-39-14 A3-4-078	- - -	- - -	- - -	- - -
CST1M	A3-5-06 A3-6-009	A3-39-04 A3-4-077	- - -	- - -	- - -	- - -
CST2M	A3-5-16 A3-6-010	A3-38-14 A3-4-076	- - -	- - -	- - -	- - -
CIIPM	A3-6-06 A3-6-011	A3-38-04 A3-4-075	- - -	- - -	- - -	- - -
CBR2	A3-6-16 A3-6-012	A3-39-03 A3-3-077	- - -	- - -	- - -	- - -
CBR1	A3-4-07 A3-7-007	A3-37-14 A3-4-074	- - -	- - -	- - -	- - -
$\overline{CTCSA}$	A3-4-17 A3-7-008	A3-38-13 A3-3-076	- - -	- - -	- - -	- - -
CRPTR	A3-5-07 A3-7-009	A3-38-03 A3-3-075	- - -	- - -	- - -	- - -
$\overline{CRRPA}$	A3-5-17 A3-7-010	A3-37-13 A3-3-074	- - -	- - -	- - -	- - -
CWBKG	A3-6-07 A3-7-011	A3-38-02 A3-2-075	- - -	- - -	- - -	- - -
CCTROR	A3-6-17 A3-7-012	A3-37-12 A3-2-074	- - -	- - -	- - -	- - -
$\overline{CRCA}$	A3-4-08 A3-8-007	A3-36-19 A3-9-072	- - -	- - -	- - -	- - -
$\overline{CPAL}$	A3-4-18 A3-8-008	A3-36-09 A3-9-071	- - -	- - -	- - -	- - -
$\overline{CSTPIT}$	A3-5-08 A3-8-009	A3-35-19 A3-9-070	- - -	- - -	- - -	- - -
CGOJAM	A3-5-18 A3-8-010	A3-35-09 A3-9-069	- - -	- - -	- - -	- - -
CINHL	A3-6-08 A3-8-011	A3-34-19 A3-9-068	- - -	- - -	- - -	- - -
CT25	A3-4-19 A3-9-008	A3-35-18 A3-8-070	- - -	- - -	- - -	- - -
CRL01	A3-5-09 A3-9-009	A3-36-17 A3-7-072	- - -	- - -	- - -	- - -
CRL02	A3-5-19 A3-9-010	A3-36-07 A3-7-071	- - -	- - -	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
CRL03	A3-6-09 A3-9-011	A3-35-17 A3-7-070	- - -	- - -	- - -	- - -
CRL04	A3-6-19 A3-9-012	A3-35-07 A3-7-069	- - -	- - -	- - -	- - -
CRL05	A3-1-01 A3-1-001	A3-34-17 A3-7-068	- - -	- - -	- - -	- - -
CRL06	A3-1-11 A3-1-002	A3-34-07 A3-7-067	- - -	- - -	- - -	- - -
CRL07	A3-2-01 A3-1-003	A3-36-16 A3-6-072	- - -	- - -	- - -	- - -
CRL08	A3-2-11 A3-1-004	A3-35-06 A3-6-069	- - -	- - -	- - -	- - -
CRL09	A3-3-01 A3-1-005	A3-34-16 A3-6-068	- - -	- - -	- - -	- - -
CRL10	A3-3-11 A3-1-006	A3-34-06 A3-6-067	- - -	- - -	- - -	- - -
CRL11	A3-1-02 A3-2-001	A3-36-15 A3-5-072	- - -	- - -	- - -	- - -
CRL12	A3-1-12 A3-2-002	A3-36-05 A3-5-071	- - -	- - -	- - -	- - -
CRL13	A3-2-02 A3-2-003	A3-35-16 A3-5-070	- - -	- - -	- - -	- - -
CRL14	A3-2-12 A3-2-004	A3-35-05 A3-5-069	- - -	- - -	- - -	- - -
CRL16	A3-3-02 A3-2-005	A3-36-14 A3-4-072	- - -	- - -	- - -	- - -
$\overline{SRE}$	A2-5-12 A2-2-010	A2-44-16 A2-6-088	A2-44-16 A2-6-088	A1-34-18 A1-8-068	- - -	- - -
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SPWA2	A2-6-11 A2-1-012	A1-2-13 A1-3-004	- - -	- - -	- - -	- - -
$\overline{KB7}$	A2-9-19 A2-9-018	A2-39-07 A2-7-077	- - -	- - -	- - -	- - -
$\overline{TR4}$	A2-4-19 A2-9-008	A1-22-06 A1-6-043	- - -	- - -	- - -	- - -
STL	A2-4-09 A2-9-007	A2-43-06 A2-6-085	- - -	- - -	- - -	- - -
STU	A2-6-08 A2-8-011	A2-44-15 A2-5-088	- - -	- - -	- - -	- - -
RA9	A2-5-08 A2-8-009	A2-36-01 A2-1-071	A2-36-01 A2-1-071	A1-11-04 A1-4-021	- - -	- - -
TRG	A2-3-05 A2-5-005	A1-24-16 A1-6-048	- - -	- - -	- - -	- - -
RA10	A2-2-15 A2-5-004	A2-36-11 A2-1-072	A2-36-11 A2-1-072	A1-12-05 A1-5-023	- - -	- - -
SVR	A2-8-05 A2-5-003	A2-45-18 A2-8-090	- - -	- - -	- - -	- - -
$\overline{STL}$	A2-1-04 A2-4-001	A3-13-11 A3-1-026	- - -	- - -	- - -	- - -
STRFR	A2-3-08 A2-3-005	A2-43-08 A2-9-085	- - -	- - -	- - -	- - -
[$\overline{SEX}$ I]	A2-2-13 A2-3-004	A3-14-06 A3-6-027	- - -	- - -	- - -	- - -
RA12	A2-2-03 A2-3-003	A2-34-12 A2-2-068	A2-34-12 A2-2-068	A1-11-05 A1-5-021	- - -	- - -
RA8	A2-1-03 A2-3-001	A2-35-11 A2-1-070	A2-35-11 A2-1-070	A1-14-03 A1-3-027	- - -	- - -
KBCLR	A2-3-18 A2-8-006	A3-7-15 A3-5-014	A3-7-15 A3-5-014	A1-12-18 A1-8-026	- - -	- - -
RA13	A2-3-08 A2-8-005	A2-35-02 A2-2-069	A2-35-02 A2-2-069	A1-39-14 A1-4-068	- - -	- - -
[SEX I]	A2-2-18 A2-8-004	A3-14-16 A3-6-028	- - -	- - -	- - -	- - -

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. [illegible] DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1019411	1019156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Kelley DATE [illegible]
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014488
SCALE
WT
SHEET 6 OF 7

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		
A	CHANGED PER TDRR 06680 DR J. Manning CHK J.J. APPD	3/4/69	K.O.
B	CHANGED PER TDRR 08878 DR CHK APPD		KO

SIGNAL	FROM	TO	FROM	TO	FROM	TO
SKL	A2-43-07 A2-7-085	- - -	- - -	- - -	- - -	- - -
SMU	A2-43-17 A2-7-086	- - -	- - -	- - -	- - -	- - -
STC	A2-44-17 A2-7-088	- - -	- - -	- - -	- - -	- - -
SRD	A2-45-07 A2-7-089	- - -	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
RB5	A1-14-06 A1-6-027	A2-36-03 A2-3-071	- - -	- - -	- - -	- - -
RLP5	A1-35-15 A1-5-070	A2-43-13 A2-3-086	- - -	- - -	- - -	- - -
RX8	A1-29-18 A1-8-058	A2-31-13 A2-3-062	- - -	- - -	- - -	- - -
+3V	A3-45-03 A3-3-089	R8-B	- - -	- - -	- - -	- - -
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+3V	A3-45-11 A3-1-090	R5-B	- - -	- - -	- - -	- - -
+3V	A3-45-12 A3-2-090	R6-B	- - -	- - -	- - -	- - -
GRD.	A3-45-07 A3-7-089	A3-45-17 A3-7-090	A3-45-17 A3-7-090	A3-45-20 A3-10-090	A3-45-20 A3-10-090	A3-45-18 A3-8-090
GRD.	A3-45-18 A3-8-090	A3-45-08 A3-8-089	- - -	- - -	- - -	- - -
GRD.	A3-43-08 A3-8-085	A3-43-18 A3-8-086	A3-43-18 A3-8-086	A3-43-20 A3-10-086	A3-43-20 A3-10-086	A3-43-19 A3-9-086
GRD.	A3-43-19 A3-9-086	A3-43-09 A3-9-085	- - -	- - -	- - -	- - -
GRD.	A3-44-08 A3-8-087	A3-44-18 A3-8-088	A3-44-18 A3-8-088	A3-44-20 A3-10-088	A3-44-20 A3-10-088	A3-44-19 A3-9-088
GRD.	A3-44-19 A3-9-088	A3-44-09 A3-9-087	- - -	- - -	- - -	- - -
GRD	A1-18-04 A1-4-035	A1-23-04 A1-4-045	A1-23-04 A1-4-045	A1-23-20 A1-10-046	- - -	- - -
+3V	A1-28-03 A1-3-055	A3-43-01 A3-1-085	- - -	- - -	- - -	- - -
+3V	A1-33-15 A1-5-066	A3-44-11 A3-1-088	- - -	- - -	- - -	- - -
+3V	A1-32-16 A1-6-064	A3-43-11 A3-1-086	- - -	- - -	- - -	- - -
+3V	A1-32-15 A1-5-064	A3-45-01 A3-1-089	- - -	- - -	- - -	- - -
R5-A	A1-4-19 A1-9-008	A1-6-09 A1-9-011	A1-6-09 A1-9-011	A1-1-02 A1-2-001	A1-1-02 A1-2-001	R5-A
R6-A	A1-40-05 A1-5-079	R6-A	- - -	- - -	- - -	- - -
+3V	A3-20-08 A3-8-039	A3-43-14 A3-4-086	- - -	- - -	- - -	- - -
+3V	A1-31-16 A1-6-062	A3-44-01 A3-1-087	- - -	- - -	- - -	- - -
+3V	A2-30-05 A2-5-059	A3-43-04 A3-4-085	- - -	- - -	- - -	- - -
+3V	A2-28-06 A2-6-055	A3-45-13 A3-3-090	- - -	- - -	- - -	- - -
R8-A	A1-22-13 A1-3-044	A1-22-15 A1-5-094	A1-22-15 A1-5-044	A1-23-06 A1-6-095	A1-23-06 A1-6-095	A1-24-13 A1-3-048
R8-A	A1-24-13 A1-3-048	A1-24-02 A1-2-047	A1-24-02 A1-2-047	A1-22-02 A1-2-043	A1-22-02 A1-2-043	A1-23-03 A1-3-045
R8-A	A1-23-03 A1-3-045	A1-24-17 A1-7-048	A1-24-17 A1-7-048	A1-16-16 A1-6-032	A1-16-16 A1-6-032	R8-A
+3V	A3-7-01 A3-1-013	A3-43-03 A3-3-085	- - -	- - -	- - -	- - -
+3V	A3-7-11 A3-1-014	A3-43-13 A3-3-086	- - -	- - -	- - -	- - -
+3V	A3-1-04 A3-4-001	A3-44-03 A3-3-087	- - -	- - -	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
+3V	A2-7-08 A2-8-013	A3-43-02 A3-2-085	- - -	- - -	- - -	- - -
+3V	A2-4-13 A2-3-008	A3-43-12 A3-2-086	- - -	- - -	- - -	- - -
+3V	A2-14-16 A2-6-028	A3-44-02 A3-2-087	- - -	- - -	- - -	- - -
+3V	A2-4-06 A2-6-007	A3-44-12 A3-2-088	- - -	- - -	- - -	- - -
+3V	A2-14-07 A2-7-027	A3-45-02 A3-2-089	- - -	- - -	- - -	- - -
+10V	A1-17-05 A1-5-033	A1-31-15 A1-5-062	A1-31-15 A1-5-062	A3-44-14 A3-4-088	- - -	- - -
+10V	A1-42-04 A1-4-083	A3-44-05 A3-5-087	- - -	- - -	- - -	- - -
+10V	A1-4-09 A1-9-007	A3-45-19 A3-9-090	- - -	- - -	- - -	- - -
+10V	A1-42-14 A1-4-084	A3-43-15 A3-5-086	- - -	- - -	- - -	- - -
+10V	A1-32-05 A1-5-063	A3-45-04 A3-4-089	- - -	- - -	- - -	- - -
+10V	A3-8-01 A3-1-015	A3-9-04 A3-4-017	A3-9-04 A3-4-017	A3-43-16 A3-6-086	- - -	- - -
+10V	A2-6-05 A2-5-011	A3-45-14 A3-4-090	- - -	- - -	- - -	- - -
+10V	A2-6-07 A2-7-011	A3-43-05 A3-5-085	- - -	- - -	- - -	- - -
+10V	A3-44-15 A3-5-088	A3-12-19 A3-9-024	- - -	- - -	- - -	- - -
+10V	A2-29-16 A2-6-058	A3-44-06 A3-6-087	- - -	- - -	- - -	- - -
+10V	A3-43-06 A3-6-085	A3-8-11 A3-1-016	- - -	- - -	- - -	- - -
+10	A3-45-05 A3-5-089	A3-3-03 A3-3-005	- - -	- - -	- - -	- - -
+10V (WL)	A3-1-14 A3-4-002	A3-19-07 A3-7-037	- - -	- - -	- - -	- - -
SPARE	A2-30-07 A2-7-059	- - -	- - -	- - -	- - -	- - -
SPARE	A2-29-08 A2-8-057	- - -	- - -	- - -	- - -	- - -
SPARE	A2-29-18 A2-8-058	- - -	- - -	- - -	- - -	- - -
SPARE	A2-30-18 A2-8-060	- - -	- - -	- - -	- - -	- - -
SPARE	A2-29-09 A2-9-057	- - -	- - -	- - -	- - -	- - -
SPARE	A2-29-19 A2-9-058	- - -	- - -	- - -	- - -	- - -
R7-A	A3-3-15 A3-5-006	A3-3-05 A3-5-005	A3-3-05 A3-5-005	A3-3-13 A3-3-006	A3-3-13 A3-3-006	A3-7-12 A3-2-014
R7-A	A3-7-12 A3-2-014	R7-A	- - -	- - -	- - -	- - -
+10V	A2-28-16 A2-6-056	A3-44-04 A3-4-087	- - -	- - -	- - -	- - -
+10V	A3-21-05 A3-5-041	A3-45-09 A3-9-089	- - -	- - -	- - -	- - -
+10V	A3-7-02 A3-2-013	A3-45-15 A3-5-090	- - -	- - -	- - -	- - -
+3V	A3-44-13 A3-3-088	R7-B	- - -	- - -	- - -	- - -
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FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

1014411	1019156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 30 Oct 63
MIT APPROVAL 10/10/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. ——
SIZE J
NASA DRAWING NO. 1014488
SCALE
WT
SHEET 7 OF 7

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR.		

MACHINE WIRE WRAP TERMINOLOGY
HAND WIRE WRAP TERMINOLOGY

SIGNAL	FROM	TO	FROM	TO	FROM	TO
SDAY5	A2-1-15 A2-5-002	A1-1-15 A1-5-002	—	—	—	—
SDAY6	A2-3-14 A2-4-006	A1-1-05 A1-5-001	—	—	—	—
SRT5	A2-4-08 A2-8-007	A1-2-12 A1-2-004	—	—	—	—
TP6	A2-6-19 A2-9-012	A1-18-17 A1-7-036	—	—	—	—
$\overline{\text{RL11}}$	A2-6-15 A2-5-012	A2-42-19 A2-9-084	—	—	—	—
$\overline{\text{RL16}}$	A2-5-09 A2-9-009	A2-38-11 A2-1-076	—	—	—	—
$\overline{\text{RL14}}$	A2-3-04 A2-4-005	A2-38-01 A2-1-075	—	—	—	—
$\overline{\text{RL9}}$	A2-12-04 A2-4-023	A2-41-19 A2-9-082	—	—	—	—
$\overline{\text{RL13}}$	A2-10-01 A2-1-019	A2-37-11 A2-1-074	—	—	—	—
$\overline{\text{RL12}}$	A2-15-09 A2-9-029	A2-37-01 A2-1-073	—	—	—	—
$\overline{\text{RL1}}$	A2-3-15 A2-5-006	A2-40-18 A2-8-080	—	—	—	—
TP5	A2-2-04 A2-4-003	A1-18-02 A1-2-035	—	—	—	—
$\overline{\text{RL2}}$	A2-12-13 A2-3-024	A2-41-08 A2-8-081	—	—	—	—
B2	A2-13-19 A2-9-026	A2-42-17 A2-7-084	—	—	—	—
$\overline{\text{RL4}}$	A2-15-18 A2-8-030	A2-42-08 A2-8-083	—	—	—	—
$\overline{\text{RL3}}$	A2-14-18 A2-8-028	A2-41-18 A2-8-082	—	—	—	—
T25	A2-13-18 A2-8-026	A2-28-17 A2-7-056	—	—	—	—
$\overline{\text{RL5}}$	A2-15-17 A2-7-030	A2-42-18 A2-8-084	—	—	—	—
$\overline{\text{RL6}}$	A2-14-17 A2-7-028	A2-40-09 A2-9-079	—	—	—	—
[$\overline{\text{K3}}$]	A2-6-02 A2-2-011	A1-7-02 A1-2-013	—	—	—	—
KB7	A2-4-02 A2-2-007	A2-38-17 A2-7-076	—	—	—	—
$\overline{\text{KB6}}$	A2-5-14 A2-4-010	A2-38-07 A2-7-075	—	—	—	—
RQ14	A1-15-14 A1-4-030	A2-32-11 A2-1-064	—	—	—	—
RG13	A1-13-05 A1-5-025	A2-36-07 A2-7-071	—	—	—	—
$\overline{\text{RBK14}}$	A1-33-06 A1-6-065	A1-41-05 A1-5-081	—	—	—	—
RB15	A1-15-18 A1-8-030	A2-35-05 A2-5-069	—	—	—	—
$\overline{\text{RBK13}}$	A1-32-06 A1-6-063	A1-42-05 A1-5-083	—	—	—	—
RZ7	A1-33-17 A1-7-066	A3-15-12 A3-2-030	—	—	—	—
RY6	A1-28-09 A1-9-055	A2-32-15 A2-5-064	—	—	—	—
RZ5	A1-32-17 A1-7-064	A3-14-12 A3-2-028	—	—	—	—
RY5	A1-28-08 A1-8-055	A2-32-05 A2-5-063	—	—	—	—
RQ8	A1-11-07 A1-7-021	A2-35-19 A2-9-070	—	—	—	—
RQ6	A1-11-17 A1-7-022	A2-34-19 A2-9-068	—	—	—	—
RG8	A1-36-11 A1-1-072	A2-36-16 A2-6-072	—	—	—	—
RLP8	A1-34-16 A1-6-068	A2-45-03 A2-3-089	—	—	—	—
RZ8	A1-31-17 A1-7-062	A3-13-03 A3-3-025	—	—	—	—

SIGNAL	FROM	TO	FROM	TO	FROM	TO
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SREI1	A1-1-02 A1-2-001	A1-31-07 A1-7-061	—	—	—	—
SREI1I	A1-3-11 A1-1-006	A1-32-01 A1-1-063	—	—	—	—
SREI1S	A1-6-19 A1-9-012	A1-32-02 A1-2-063	—	—	—	—
SREI2	A1-6-09 A1-9-011	A1-36-09 A1-9-071	—	—	—	—
SREI2I	A1-5-19 A1-9-010	A1-36-16 A1-6-072	—	—	—	—
SREI2S	A1-5-09 A1-9-009	A1-34-17 A1-7-068	—	—	—	—
$\overline{\text{WSG}}$	A1-33-12 A1-2-066	A2-41-03 A2-3-081	—	—	—	—
$\overline{\text{WLPG}}$	A1-31-12 A1-2-062	A2-42-03 A2-3-083	—	—	—	—
$\overline{\text{WXG}}$	A1-31-02 A1-2-061	A2-41-02 A2-2-081	—	—	—	—
$\overline{\text{WYG}}$	A1-33-11 A1-1-066	A2-41-12 A2-2-082	—	—	—	—
$\overline{\text{WBKG}}$	A1-31-13 A1-3-062	A2-42-13 A2-3-084	—	—	—	—
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$\overline{\text{CWL13}}$	A1-12-19 A1-9-024	A2-40-06 A2-6-079	—	—	—	—
$\overline{\text{CWL16}}$	A1-11-09 A1-9-021	A2-41-16 A2-6-082	—	—	—	—
$\overline{\text{CWL14}}$	A1-7-12 A1-2-014	A2-40-16 A2-6-080	—	—	—	—
$\overline{\text{CWL15}}$	A1-33-18 A1-8-066	A2-41-06 A2-6-081	—	—	—	—
$\overline{\text{SKL}}$	A1-35-13 A1-3-070	A3-8-05 A3-5-015	—	—	—	—
LCL2	A3-16-06 A3-6-031	A3-10-14 A3-4-020	—	—	—	—
ST7B	A3-17-17 A3-7-034	A3-11-01 A3-1-021	—	—	—	—
WGG	A1-33-01 A1-1-065	A2-40-13 A2-3-080	—	—	—	—
TPA	A2-7-18 A2-8-014	A1-18-06 A1-6-035	—	—	—	—
SPWA0	A2-9-17 A2-7-018	A1-3-13 A1-3-006	—	—	—	—
$\overline{\text{STD}}$	A2-9-07 A2-7-017	A2-44-05 A2-5-087	—	—	—	—
SPWB0	A2-7-07 A2-7-013	A1-2-03 A1-3-003	—	—	—	—
CLOAD	A3-3-12 A3-2-006	A3-36-04 A3-4-071	—	—	—	—
CREAD	A3-1-03 A3-3-001	A3-35-14 A3-4-070	—	—	—	—
CSBSTP	A3-1-13 A3-3-002	A3-35-04 A3-4-069	—	—	—	—
CSTRT	A3-2-03 A3-3-003	A3-34-14 A3-4-068	—	—	—	—
CWLPG	A3-6-18 A3-8-012	A3-36-18 A3-8-072	—	—	—	—
CINKL	A3-4-09 A3-9-007	A3-36-08 A3-8-071	—	—	—	—
CSTP	A3-36-03 A3-3-071	A2-45-09 A2-9-089	—	—	—	—
CTCSAI	A3-35-13 A3-3-070	A2-45-19 A2-9-090	—	—	—	—
CNHRPT	A3-35-03 A3-3-069	A2-40-01 A2-1-079	—	—	—	—
CNHNC	A3-34-13 A3-3-068	A2-40-11 A2-1-080	—	—	—	—

SIGNAL	FROM	TO	FROM	TO	FROM	TO
CNTRL 1 (13V)	A3-35-02 A3-2-069	A3-44-17 A3-7-088	—	—	—	—
CNTRL 2 (3V)	A3-34-12 A3-2-068	A3-45-06 A3-6-089	—	—	—	—
STQ1	A3-33-19 A3-9-066	A3-22-13 A3-3-044	—	—	—	—
ST7A	A3-18-18 A3-8-036	A3-11-04 A3-4-021	—	—	—	—
STT01	A3-32-09 A3-9-063	A3-11-05 A3-5-021	A3-11-05 A3-5-021	A3-16-17 A3-7-032	—	—
STT03	A3-31-09 A3-9-061	A3-23-14 A3-4-046	—	—	—	—
STT04	A3-33-18 A3-8-066	A3-24-15 A3-5-048	—	—	—	—
STT05	A3-33-08 A3-8-065	A3-22-17 A3-7-044	—	—	—	—
STT06	A3-32-18 A3-8-064	A3-17-02 A3-2-033	—	—	—	—
STT08	A3-31-18 A3-8-062	A3-18-03 A3-3-035	—	—	—	—
STT09	A3-31-08 A3-8-061	A3-16-05 A3-5-031	—	—	—	—
ST1B	A3-17-18 A3-8-034	A3-10-01 A3-1-019	—	—	—	—
STRUG	A3-31-06 A3-6-061	A3-17-06 A3-6-033	—	—	—	—
STWQG	A3-33-05 A3-5-065	A3-17-03 A3-3-033	—	—	—	—
STWG1	A3-31-15 A3-5-062	A3-18-07 A3-7-035	—	—	—	—
STWG2	A3-31-05 A3-5-061	A3-16-09 A3-9-031	—	—	—	—
STWG3	A3-33-14 A3-4-066	A3-20-01 A3-1-039	—	—	—	—
$\overline{\text{STLINC}}$	A3-31-14 A3-4-062	A3-20-11 A3-1-040	—	—	—	—
$\overline{\text{STOINC}}$	A3-31-04 A3-4-061	A3-21-12 A3-2-042	—	—	—	—
$\overline{\text{STTCSA}}$	A3-33-13 A3-3-066	A3-21-13 A3-3-042	—	—	—	—
$\overline{\text{STRRPA}}$	A3-33-03 A3-3-065	A3-21-02 A3-2-041	—	—	—	—
$\overline{\text{STRCA}}$	A3-32-13 A3-3-064	A3-21-03 A3-3-041	—	—	—	—
STSBSTP	A3-31-02 A3-2-061	A3-20-14 A3-4-040	—	—	—	—
STSTRT	A3-33-11 A3-1-066	A3-20-15 A3-5-040	—	—	—	—
STNHRPT	A3-32-01 A3-1-063	A3-21-16 A3-6-042	—	—	—	—
STNHNC	A3-31-11 A3-1-062	A3-19-18 A3-8-038	—	—	—	—
1DCT	A3-31-01 A3-1-061	A3-20-19 A3-9-040	—	—	—	—
0DCT	A3-34-01 A3-1-067	A3-24-11 A3-1-048	—	—	—	—
STRDFB	A3-17-15 A3-5-034	A3-12-15 A3-5-024	—	—	—	—
STLDFB	A3-16-14 A3-4-032	A3-10-15 A3-5-020	—	—	—	—
$\overline{\text{STTCFB}}$	A3-16-18 A3-8-032	A3-10-06 A3-6-019	—	—	—	—
STWP	A3-12-12 A3-2-024	A3-24-06 A3-6-047	—	—	—	—
1 POWER (13V)	A3-35-08 A3-8-069	A3-44-16 A3-6-088	—	—	—	—
2 POWER (3V)	A3-34-18 A3-8-068	A3-45-16 A3-6-090	—	—	—	—
GND	A2-30-19 A2-9-060	A2-30-10 A2-10-059	—	—	—	—
ST1A	A3-18-08 A3-8-035	A3-11-14 A3-4-022	—	—	—	—

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. — DATE —

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014411	1014156

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN W. Halley DATE 8/26/63
CHECKED W. Swain 20 OCT 63
APPROVAL C. Sperling JRK
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014488
SCALE
WT
SHEET 1 OF 7

MASTER

INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		

SIGNAL	FROM	TO	FROM	TO	FROM	TO
LCL1A	A2-28-14 A2-4-056	A3-21-06 A3-6-041	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
$\overline{\text{DLCTR4B}}$	A2-29-14 A2-4-058	A3-12-07 A3-7-023	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
VPS	A2-29-17 A2-7-058	A3-44-07 A3-7-087	- - -	- - -	- - -	- - -
$\overline{\text{DLCTR2B}}$	A2-30-08 A2-8-059	A3-12-17 A3-7-024	- - -	- - -	- - -	- - -
$\overline{\text{DLCTR3B}}$	A2-28-09 A2-9-055	A3-11-18 A3-8-022	- - -	- - -	- - -	- - -
DLCTRINP2	A2-28-19 A2-9-056	A3-24-01 A3-1-047	- - -	- - -	- - -	- - -
DLCTR1A	A2-30-09 A2-9-059	A3-12-16 A3-6-024	- - -	- - -	- - -	- - -
VC2	A2-28-18 A2-8-056	A3-43-17 A3-7-086	- - -	- - -	- - -	- - -
$\overline{\text{LCL2}}$	A2-30-16 A2-6-060	A3-21-06 A3-6-041	- - -	- - -	- - -	- - -
DLCTR1B	A2-29-07 A2-7-057	A3-11-16 A3-6-022	- - -	- - -	- - -	- - -
TEST	A2-28-15 A2-5-056	A3-22-03 A3-3-043	- - -	- - -	- - -	- - -
$\boxed{\text{U}}$PL$\boxed{\text{0}}$	A2-28-04 A2-4-055	A2-12-16 A2-6-024	- - -	- - -	- - -	- - -
$\boxed{\text{U}}$PL$\boxed{\text{1}}$	A2-30-14 A2-4-060	A2-12-15 A2-5-024	- - -	- - -	- - -	- - -
DLCTR3B	A2-30-04 A2-4-059	A3-10-17 A3-7-020	- - -	- - -	- - -	- - -
$\overline{\text{DLCTRINP}}$	A2-29-06 A2-6-057	A3-11-17 A3-7-022	- - -	- - -	- - -	- - -
VC1	A2-28-07 A2-7-055	A3-43-07 A3-7-085	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
DLCTR2B	A2-28-05 A2-5-055	A3-12-06 A3-6-023	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
LCL2B	A2-30-17 A2-7-060	A3-20-09 A3-9-039	- - -	- - -	- - -	- - -
LCL2A	A2-28-08 A2-8-055	A3-14-08 A3-8-037	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
LTVF	A2-9-09 A2-9-017	A2-44-18 A2-8-088	- - -	- - -	- - -	- - -
SLT	A2-8-19 A2-9-016	A2-2-07 A2-7-003	A3-22-07 A3-7-043	A3-24-05 A3-5-047	A3-24-05 A3-5-047	A3-23-04 A3-4-045
SLT	A2-2-07 A2-7-003	A3-22-07 A3-7-043	A2-8-19 A2-9-016	A2-29-05 A2-5-057	- - -	- - -
TM1A	A2-8-09 A2-9-015	A3-15-01 A3-1-029	- - -	- - -	- - -	- - -
CNT0A	A2-7-19 A2-9-014	A3-13-19 A3-9-026	- - -	- - -	- - -	- - -
$\overline{\text{TR1}}$	A2-7-09 A2-9-013	A1-23-02 A1-2-045	A1-23-02 A1-2-045	A1-11-16 A1-6-022	- - -	- - -
TRA	A2-9-08 A2-8-017	A1-24-06 A1-6-047	- - -	- - -	- - -	- - -
$\overline{\text{TM2A}}$	A2-8-18 A2-8-016	A3-14-11 A3-1-028	- - -	- - -	- - -	- - -
$\overline{\text{TR5}}$	A2-8-07 A2-7-015	A1-23-14 A1-4-046	- - -	- - -	- - -	- - -
$\overline{\text{TR3}}$	A2-7-17 A2-7-014	A1-23-12 A1-2-046	A1-23-12 A1-2-046	A1-10-08 A1-8-019	- - -	- - -
TR1	A2-9-06 A2-6-017	A1-23-13 A1-3-046	A1-23-13 A1-3-046	A1-9-05 A1-3-017	- - -	- - -
RA1	A1-10-12 A1-2-020	A2-4-04 A2-4-007	A2-4-04 A2-4-007	A2-38-09 A2-9-075	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{\text{CNT4A}}$	A3-14-19 A3-9-028	A2-6-13 A2-3-012	A2-6-13 A2-3-012	A1-34-13 A1-3-068	- - -	- - -
CT11	A3-8-17 A3-7-016	A3-41-07 A3-7-081	- - -	- - -	- - -	- - -
CT12	A3-9-07 A3-7-017	A3-40-17 A3-7-080	- - -	- - -	- - -	- - -
CWL01	A3-9-17 A3-7-018	A3-40-07 A3-7-079	- - -	- - -	- - -	- - -
CWL02	A3-7-08 A3-8-013	A3-42-16 A3-6-084	- - -	- - -	- - -	- - -
CWL03	A3-7-18 A3-8-014	A3-41-96 A3-6-081	- - -	- - -	- - -	- - -
CWL04	A3-8-08 A3-8-015	A3-40-16 A3-6-080	- - -	- - -	- - -	- - -
CWL05	A3-8-18 A3-8-016	A3-40-06 A3-6-079	- - -	- - -	- - -	- - -
CWL06	A3-9-08 A3-8-017	A3-42-15 A3-5-084	- - -	- - -	- - -	- - -
CWL07	A3-9-18 A3-8-018	A3-42-05 A3-5-083	- - -	- - -	- - -	- - -
CWL08	A3-7-09 A3-9-013	A3-41-15 A3-5-082	- - -	- - -	- - -	- - -
CWL09	A3-7-19 A3-9-014	A3-41-05 A3-5-081	- - -	- - -	- - -	- - -
CWL10	A3-8-09 A3-9-015	A3-42-14 A3-4-084	- - -	- - -	- - -	- - -
CWL11	A3-8-19 A3-9-016	A3-42-04 A3-4-083	- - -	- - -	- - -	- - -
CWL12	A3-9-09 A3-9-017	A3-41-14 A3-4-082	- - -	- - -	- - -	- - -
CWL13	A3-9-19 A3-9-018	A3-41-04 A3-4-081	- - -	- - -	- - -	- - -
CWL14	A3-4-01 A3-1-007	A3-40-14 A3-4-080	- - -	- - -	- - -	- - -
CWL15	A3-4-11 A3-1-008	A3-42-03 A3-3-083	- - -	- - -	- - -	- - -
CWL16	A3-5-01 A3-1-009	A3-41-13 A3-3-082	- - -	- - -	- - -	- - -
CPARBUS	A3-5-11 A3-1-010	A3-41-03 A3-3-081	- - -	- - -	- - -	- - -
CPGT	A3-6-01 A3-1-011	A3-40-13 A3-3-080	- - -	- - -	- - -	- - -
CWAG	A3-6-11 A3-1-012	A3-41-02 A3-2-081	- - -	- - -	- - -	- - -
$\overline{\text{CWALPG}}$	A3-4-02 A3-2-007	A3-40-12 A3-2-080	- - -	- - -	- - -	- - -
CWZG	A3-4-012 A3-2-008	A3-39-19 A3-9-078	- - -	- - -	- - -	- - -
$\overline{\text{CWXG}}$	A3-5-02 A3-2-009	A3-39-09 A3-9-077	- - -	- - -	- - -	- - -
CWYG	A3-5-12 A3-2-010	A3-38-19 A3-9-076	- - -	- - -	- - -	- - -
$\overline{\text{CRUG}}$	A3-6-02 A3-2-011	A3-38-09 A3-9-075	- - -	- - -	- - -	- - -
$\overline{\text{CWBG}}$	A3-6-12 A3-2-012	A3-37-19 A3-9-074	- - -	- - -	- - -	- - -
$\overline{\text{CWSG}}$	A3-4-13 A3-3-008	A3-39-08 A3-8-077	- - -	- - -	- - -	- - -
CRGG	A3-5-03 A3-3-009	A3-38-18 A3-8-076	- - -	- - -	- - -	- - -
$\overline{\text{CWG1}}$	A3-5-13 A3-3-010	A3-38-08 A3-8-075	- - -	- - -	- - -	- - -
$\overline{\text{CWG2}}$	A3-6-03 A3-3-011	A3-37-18 A3-8-074	- - -	- - -	- - -	- - -
$\overline{\text{CWG3}}$	A3-6-13 A3-3-012	A3-39-17 A3-7-078	- - -	- - -	- - -	- - -
$\overline{\text{CWG4}}$	A3-4-04 A3-4-007	A3-39-07 A3-7-077	- - -	- - -	- - -	- - -
CWG5	A3-4-14 A3-4-008	A3-38-17 A3-7-076	- - -	- - -	- - -	- - -
$\overline{\text{CWG6}}$	A3-5-04 A3-4-009	A3-38-07 A3-7-075	- - -	- - -	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
CWQG	A3-4-03 A3-3-007	A3-39-18 A3-8-078	- - -	- - -	- - -	- - -
CN1SQ	A3-5-14 A3-4-010	A3-37-17 A3-7-074	- - -	- - -	- - -	- - -
CLINC	A3-6-04 A3-4-011	A3-37-07 A3-7-073	- - -	- - -	- - -	- - -
CMINC	A3-6-14 A3-4-012	A3-39-16 A3-6-078	- - -	- - -	- - -	- - -
$\overline{\text{CWL10}}$	A1-12-16 A1-6-024	A2-41-15 A2-5-082	- - -	- - -	- - -	- - -
$\overline{\text{CWL9}}$	A1-35-02 A1-2-068	A2-41-05 A2-5-081	- - -	- - -	- - -	- - -
RZ10	A1-36-01 A1-1-071	A3-14-03 A3-3-027	- - -	- - -	- - -	- - -
RZ11	A1-33-07 A1-7-065	A3-14-13 A3-3-028	- - -	- - -	- - -	- - -
RB12	A1-34-03 A1-3-067	A2-36-14 A2-4-072	- - -	- - -	- - -	- - -
RB11	A1-36-12 A1-2-072	A2-36-04 A2-4-071	- - -	- - -	- - -	- - -
RB10	A1-35-01 A1-1-069	A2-35-14 A2-4-070	- - -	- - -	- - -	- - -
RB9	A1-35-11 A1-1-070	A2-35-04 A2-4-069	- - -	- - -	- - -	- - -
RY3	A1-30-09 A1-9-059	A2-31-05 A2-5-061	- - -	- - -	- - -	- - -
RY1	A1-29-19 A1-9-058	A2-33-04 A2-4-065	- - -	- - -	- - -	- - -
RG3	A1-12-13 A1-3-024	A2-34-06 A2-6-067	- - -	- - -	- - -	- - -
RB3	A1-28-18 A1-8-056	A2-35-03 A2-3-069	- - -	- - -	- - -	- - -
RB1	A1-28-13 A1-3-056	A2-34-03 A2-3-067	- - -	- - -	- - -	- - -
RLP2	A1-9-13 A1-3-018	A2-45-02 A2-2-089	- - -	- - -	- - -	- - -
RZ4	A1-14-19 A1-9-028	A3-14-02 A3-2-027	- - -	- - -	- - -	- - -
RZ3	A1-13-04 A1-4-025	A3-13-12 A3-2-026	- - -	- - -	- - -	- - -
RZ1	A1-12-03 A1-3-023	A3-15-11 A3-1-030	- - -	- - -	- - -	- - -
RX2	A1-30-18 A1-8-060	A2-31-12 A2-2-062	- - -	- - -	- - -	- - -
RX1	A1-30-08 A1-8-059	A2-31-02 A2-2-061	- - -	- - -	- - -	- - -
RG4	A1-10-18 A1-8-020	A2-34-16 A2-6-068	- - -	- - -	- - -	- - -
RLP3	A1-12-09 A1-9-023	A2-45-12 A2-2-090	- - -	- - -	- - -	- - -
RY2	A1-29-09 A1-9-057	A2-33-14 A2-4-066	- - -	- - -	- - -	- - -
RB4	A1-30-06 A1-6-059	A2-35-13 A2-3-070	- - -	- - -	- - -	- - -
RLP1	A1-12-06 A1-6-023	A2-44-12 A2-2-088	- - -	- - -	- - -	- - -
RZ2	A1-13-19 A1-9-026	A3-13-02 A3-2-025	- - -	- - -	- - -	- - -
RQ2	A1-11-06 A1-6-021	A2-35-18 A2-8-070	- - -	- - -	- - -	- - -
RQ3	A1-8-12 A1-2-016	A2-36-08 A2-8-071	- - -	- - -	- - -	- - -
RQ4	A1-34-04 A1-4-067	A2-36-18 A2-8-072	- - -	- - -	- - -	- - -
RQ1	A1-9-11 A1-1-018	A2-35-08 A2-8-069	- - -	- - -	- - -	- - -
RLP12	A1-32-07 A1-7-063	A2-44-04 A2-4-087	- - -	- - -	- - -	- - -
RZ9	A1-10-07 A1-7-019	A3-13-13 A3-3-026	- - -	- - -	- - -	- - -
$\overline{\text{CWL11}}$	A1-36-13 A1-3-072	A2-42-05 A2-5-083	- - -	- - -	- - -	- - -

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CLASS B RELEASE TDRR NO. [illegible] DATE [illegible]

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LIST OF MATERIALS			

1014411	1014156
NEXT ASSY	USED ON
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN W. Kelley DATE 8-26-63
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APPROVAL
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. —
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SCALE
WT
SHEET 2 OF 7

MASTER

INCHES
PHOTOGRAPHIC SCALE ONLY

884101

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{CNT8A}$	A2-2-08 A2-8-003	A3-15-09 A3-9-029	A3-15-09 A3-9-029	A1-12-04 A1-4-023	- - -	- - -
STRSS	A2-2-07 A2-7-003	A2-43-19 A2-9-086	- - -	- - -	- - -	- - -
RA14	A2-1-17 A2-7-002	A2-35-12 A2-2-070	A2-35-12 A2-2-070	A1-35-04 A1-4-069	- - -	- - -
TR3	A2-3-16 A2-6-006	A1-22-05 A1-5-043	A1-22-05 A1-5-043	A1-28-02 A1-2-055	- - -	- - -
RA16	A2-2-16 A2-6-004	A2-36-12 A2-2-072	A2-36-12 A2-2-072	A1-7-14 A1-4-014	- - -	- - -
RA11	A2-1-16 A2-6-002	A2-34-02 A2-2-067	A2-34-02 A2-2-067	A1-11-15 A1-5-022	- - -	- - -
TP7	A1-43-14 A1-4-086	A1-17-06 A1-6-033	- - -	- - -	- - -	- - -
KB3	A1-45-13 A1-3-090	A2-37-16 A2-6-074	- - -	- - -	- - -	- - -
TP8	A1-44-03 A1-3-087	A1-16-02 A1-2-031	- - -	- - -	- - -	- - -
SDALP2	A2-13-14 A2-4-026	A1-3-04 A1-4-005	- - -	- - -	- - -	- - -
DAX	A2-15-13 A2-3-030	A3-42-01 A3-1-083	- - -	- - -	- - -	- - -
SDAY6	A2-14-13 A2-3-028	A1-1-06 A1-6-001	- - -	- - -	- - -	- - -
SDAX5	A2-13-13 A2-3-026	A1-1-16 A1-6-002	- - -	- - -	- - -	- - -
SDAQ6	A2-15-19 A2-9-030	A1-1-07 A1-7-001	- - -	- - -	- - -	- - -
SDAQ1	A2-14-11 A2-1-028	A1-3-17 A1-7-006	- - -	- - -	- - -	- - -
SDAX4	A2-15-12 A2-2-030	A1-2-06 A1-6-003	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
STOINC	A3-15-19 A3-9-030	A3-31-12 A3-2-062	- - -	- - -	- - -	- - -
STWYG	A3-18-01 A3-1-035	A3-31-16 A3-6-062	- - -	- - -	- - -	- - -
STINKL	A3-10-11 A3-1-020	A3-33-02 A3-2-065	- - -	- - -	- - -	- - -
STWXG	A3-18-11 A3-1-036	A3-32-06 A3-6-063	- - -	- - -	- - -	- - -
STLINC	A3-11-11 A3-1-022	A3-32-02 A3-2-063	- - -	- - -	- - -	- - -
STWZG	A3-16-02 A3-2-031	A3-32-16 A3-6-064	- - -	- - -	- - -	- - -
STWALPG	A3-33-16 A3-6-066	A3-16-12 A3-2-032	- - -	- - -	- - -	- - -
STT25	A3-10-12 A3-2-020	A3-33-12 A3-2-066	- - -	- - -	- - -	- - -
STSTP	A3-11-02 A3-2-021	A3-33-01 A3-1-065	- - -	- - -	- - -	- - -
STWAG	A3-16-16 A3-6-032	A3-31-07 A3-7-061	- - -	- - -	- - -	- - -
STTCSAI	A3-12-02 A3-2-023	A3-32-11 A3-1-064	- - -	- - -	- - -	- - -
STPGT	A3-33-06 A3-6-065	A3-24-16 A3-6-048	- - -	- - -	- - -	- - -
STB2	A3-10-03 A3-3-019	A3-32-19 A3-9-064	- - -	- - -	- - -	- - -
STWLPG	A3-31-13 A3-3-062	A3-16-01 A3-1-031	- - -	- - -	- - -	- - -
STWBKG	A3-31-03 A3-3-061	A3-16-11 A3-1-032	- - -	- - -	- - -	- - -
STT12	A3-11-13 A3-3-022	A3-32-17 A3-7-064	- - -	- - -	- - -	- - -
STRL16	A3-12-03 A3-3-023	A3-32-12 A3-2-064	- - -	- - -	- - -	- - -
STWG4	A3-33-04 A3-4-065	A3-16-07 A3-7-031	- - -	- - -	- - -	- - -
SSTOS2	A3-10-04 A3-4-019	A3-18-16 A3-6-036	- - -	- - -	- - -	- - -

SIGNAL	FROM	TO	FROM	TC	FROM	TO
STWSG	A3-32-15 A3-5-064	A3-16-13 A3-3-032	- - -	- - -	- - -	- - -
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STWBG	A3-33-15 A3-5-066	A3-17-13 A3-3-034	- - -	- - -	- - -	- - -
STT11	A3-12-04 A3-4-023	A3-33-07 A3-7-065	- - -	- - -	- - -	- - -
STT10	A3-12-14 A3-4-024	A3-33-17 A3-7-066	- - -	- - -	- - -	- - -
STT07	A3-17-07 A3-7-033	A3-32-08 A3-8-063	- - -	- - -	- - -	- - -
STRG6	A3-32-05 A3-5-063	A3-17-14 A3-4-034	- - -	- - -	- - -	- - -
STT07A	A3-10-05 A3-5-019	A3-17-08 A3-8-033	- - -	- - -	- - -	- - -
STWG6	A3-32-04 A3-4-063	A3-18-04 A3-4-035	- - -	- - -	- - -	- - -
STT02	A3-12-05 A3-5-023	A3-31-19 A3-9-062	- - -	- - -	- - -	- - -
STWG5	A3-32-14 A3-4-064	A3-18-14 A3-4-036	- - -	- - -	- - -	- - -
STPARBS	A3-10-16 A3-6-020	A3-32-07 A3-7-063	- - -	- - -	- - -	- - -
STWL15	A3-11-06 A3-6-021	A3-31-17 A3-7-062	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
DLCTRINPI	A3-10-07 A3-7-019	A3-21-15 A3-5-042	- - -	- - -	- - -	- - -
CTRSTB	A3-11-07 A3-7-021	A2-29-04 A2-4-057	- - -	- - -	- - -	- - -
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$\overline{WBG}$	A1-35-05 A1-5-069	A2-42-02 A2-2-083	- - -	- - -	- - -	- - -
$\overline{SMO}$	A1-34-15 A1-5-068	A2-45-06 A2-6-089	- - -	- - -	- - -	- - -
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$\overline{Q2}$	A1-36-14 A1-4-072	A2-40-08 A2-8-079	- - -	- - -	- - -	- - -
WALPG	A1-31-11 A1-1-062	A2-40-02 A2-2-079	- - -	- - -	- - -	- - -
WAG	A1-31-01 A1-1-061	A2-42-11 A2-1-084	- - -	- - -	- - -	- - -
WG5	A1-34-08 A1-8-067	A2-40-03 A2-3-079	- - -	- - -	- - -	- - -
WG4	A1-36-17 A1-7-072	A2-42-12 A2-2-084	- - -	- - -	- - -	- - -
$\overline{RDFB}$	A1-36-07 A1-7-071	A2-39-11 A2-1-078	- - -	- - -	- - -	- - -
$\overline{INKL}$	A1-33-04 A1-4-065	A2-37-12 A2-2-074	- - -	- - -	- - -	- - -
$\overline{T10}$	A1-32-14 A1-4-064	A2-40-07 A2-7-079	- - -	- - -	- - -	- - -
$\overline{WQG}$	A1-31-04 A1-4-061	A2-41-13 A2-3-082	- - -	- - -	- - -	- - -
$\overline{T7}$	A1-33-03 A1-3-065	A2-42-16 A2-6-084	A2-42-16 A2-6-084	A2-4-15 A2-5-008	- - -	- - -
$\overline{WZG}$	A1-32-13 A1-3-064	A2-40-12 A2-2-080	- - -	- - -	- - -	- - -
RY8	A1-14-14 A1-4-028	A2-33-15 A2-5-066	- - -	- - -	- - -	- - -
$\overline{CWL7}$	A1-35-18 A1-8-070	A2-40-05 A2-5-079	- - -	- - -	- - -	- - -
$\overline{RBK11}$	A1-36-06 A1-6-071	A1-41-06 A1-6-081	- - -	- - -	- - -	- - -
RBK11	A1-33-19 A1-9-066	A1-41-16 A1-6-082	A1-41-16 A1-6-082	A2-45-11 A2-1-090	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
RQ9	A1-34-06 A1-6-067	A2-36-09 A2-9-071	- - -	- - -	- - -	- - -
RQ11	A1-36-08 A1-8-071	A2-31-01 A2-1-061	- - -	- - -	- - -	- - -
RQ12	A1-35-08 A1-8-069	A2-31-11 A2-1-062	- - -	- - -	- - -	- - -
RX12	A1-15-16 A1-6-030	A2-33-13 A2-3-066	- - -	- - -	- - -	- - -
RY11	A1-15-07 A1-7-029	A2-32-06 A2-6-063	- - -	- - -	- - -	- - -
RBK12	A1-36-02 A1-2-071	A1-40-16 A1-6-080	A1-40-16 A1-6-080	A2-43-02 A2-2-085	- - -	- - -
$\overline{RBK12}$	A1-35-06 A1-6-069	A1-40-06 A1-6-079	- - -	- - -	- - -	- - -
RZ12	A1-35-19 A1-9-070	A3-15-03 A3-3-029	- - -	- - -	- - -	- - -
RY12	A1-14-04 A1-4-027	A2-32-16 A2-6-064	- - -	- - -	- - -	- - -
RY10	A1-13-14 A1-4-026	A2-31-16 A2-6-062	- - -	- - -	- - -	- - -
RLP10	A1-33-16 A1-6-066	A2-43-04 A2-4-085	- - -	- - -	- - -	- - -
RX10	A1-15-06 A1-6-029	A2-32-13 A2-3-064	- - -	- - -	- - -	- - -
RQ10	A1-32-12 A1-2-064	A2-36-19 A2-9-072	- - -	- - -	- - -	- - -
RG9	A1-34-05 A1-5-067	A2-34-07 A2-7-067	- - -	- - -	- - -	- - -
RLP4	A1-11-13 A1-3-022	A2-43-03 A2-3-085	- - -	- - -	- - -	- - -
RY4	A1-13-19 A1-9-026	A2-31-15 A2-5-062	- - -	- - -	- - -	- - -
RB2	A1-10-09 A1-9-019	A2-34-13 A2-3-068	- - -	- - -	- - -	- - -
RG2	A1-11-19 A1-9-022	A2-36-15 A2-5-072	- - -	- - -	- - -	- - -
RG1	A1-35-14 A1-4-070	A2-36-05 A2-5-071	- - -	- - -	- - -	- - -
$\overline{CWL1}$	A1-13-18 A1-8-026	A2-40-04 A2-4-079	- - -	- - -	- - -	- - -
$\overline{RL7}$	A2-11-04 A2-4-021	A2-40-19 A2-9-080	- - -	- - -	- - -	- - -
$\overline{T25}$	A2-1-19 A2-9-002	A2-41-17 A2-7-082	- - -	- - -	- - -	- - -
SDAG5	A2-5-07 A2-7-009	A1-1-18 A1-8-002	- - -	- - -	- - -	- - -
SDAB6	A2-4-07 A2-7-007	A1-1-09 A1-9-001	- - -	- - -	- - -	- - -
$\overline{STU}$	A2-5-06 A2-6-009	A2-45-05 A2-5-089	- - -	- - -	- - -	- - -
DAY	A2-5-15 A2-5-010	A3-40-01 A3-1-079	- - -	- - -	- - -	- - -
SDAB4	A2-10-04 A2-4-019	A1-2-09 A1-9-003	- - -	- - -	- - -	- - -
SDAG4	A2-12-03 A2-3-023	A1-2-08 A1-8-003	- - -	- - -	- - -	- - -
DAB	A2-3-02 A2-2-005	A3-40-11 A3-1-080	- - -	- - -	- - -	- - -
DALP	A2-3-11 A2-1-006	A3-42-11 A3-1-084	- - -	- - -	- - -	- - -
DAG	A2-5-19 A2-9-010	A3-41-01 A3-1-081	- - -	- - -	- - -	- - -
$\overline{SMU}$	A2-6-18 A2-8-012	A2-44-07 A2-7-087	- - -	- - -	- - -	- - -
SDAG3	A2-5-18 A2-8-010	A1-2-18 A1-8-004	- - -	- - -	- - -	- - -
SDAB5	A2-4-18 A2-8-008	A1-1-19 A1-9-002	- - -	- - -	- - -	- - -
SDAG1	A2-11-07 A2-7-021	A1-3-18 A1-8-006	- - -	- - -	- - -	- - -
SDAY4	A2-1-06 A2-6-001	A1-2-05 A1-5-003	- - -	- - -	- - -	- - -

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04306 DATE 10/30/63

1014488

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014411	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Kelley DATE 8-26-63
CHECKED W. Manning 20Oct63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL W Kupfer 30Oct63
MIT APPROVAL 10/29/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A13

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014488
SCALE
WT
SHEET 3 OF 7

5 1014488

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR ...		

SIGNAL	FROM	TO	FROM	TO	FROM	TO
RA3	A2-6-03 A2-3-011	A1-12-11 A1-1-023	A1-12-11 A1-1-023	A2-39-09 A2-9-077	- - -	- - -
RA5	A2-5-13 A2-3-010	A1-15-15 A1-5-030	A1-15-15 A1-5-030	A2-34-1 A2-1-067	- - -	- - -
$\overline{\text{STP}}$	A2-6-12 A2-2-011	A1-12-08 A1-8-023	A1-12-08 A1-8-023	A2-44-06 A2-6-087	- - -	- - -
STV	A2-5-17 A2-7-010	A2-45-15 A2-5-090	- - -	- - -	- - -	- - -
RA4	A2-4-17 A2-7-008	A2-39-19 A2-9-078	A2-39-19 A2-9-078	A1-10-02 A1-2-019	- - -	- - -
RA6	A2-6-16 A2-6-012	A2-34-11 A2-1-068	A2-34-11 A2-1-068	A1-15-09 A1-9-029	- - -	- - -
RA2	A2-6-06 A2-6-011	A1-12-19 A1-9-029	A1-12-19 A1-9-024	A2-38-19 A2-9-076	- - -	- - -
$\overline{\text{TR2}}$	A2-5-16 A2-6-010	A1-23-16 A1-6-096	A1-23-16 A1-6-096	A1-7-13 A1-3-014	- - -	- - -
$\overline{\text{STV}}$	A2-6-14 A2-4-012	A3-13-11 A3-1-026	- - -	- - -	- - -	- - -
STD	A2-2-12 A2-2-004	A2-43-15 A2-5-086	- - -	- - -	- - -	- - -
RA7	A2-2-02 A2-2-003	A1-14-09 A1-9-027	A1-14-09 A1-9-027	A2-35-01 A2-1-069	- - -	- - -
$\overline{\text{TM3A}}$	A2-1-12 A2-2-002	A3-14-01 A3-1-027	- - -	- - -	- - -	- - -
TR2	A2-1-02 A2-2-001	A1-24-12 A1-2-048	A1-24-12 A1-2-048	A1-8-13 A1-3-016	- - -	- - -
SDAB1	A2-11-05 A2-5-021	A1-3-19 A1-9-006	- - -	- - -	- - -	- - -
SDAG6	A2-10-05 A2-5-019	A1-1-08 A1-8-001	- - -	- - -	- - -	- - -
SDAG2	A2-12-17 A2-7-024	A1-3-08 A1-8-005	- - -	- - -	- - -	- - -
SDAY1	A2-2-14 A2-4-004	A1-3-15 A1-5-006	- - -	- - -	- - -	- - -
SDAY2	A2-1-14 A2-4-002	A1-3-05 A1-5-005	- - -	- - -	- - -	- - -
SDAY3	A2-3-13 A2-3-006	A1-2-15 A1-5-004	- - -	- - -	- - -	- - -
SDAB2	A2-9-02 A2-2-017	A1-3-09 A1-9-005	- - -	- - -	- - -	- - -
SDAB3	A2-7-12 A2-2-014	A1-2-19 A1-9-004	- - -	- - -	- - -	- - -
TP4	A2-1-09 A2-9-001	A1-16-13 A1-3-032	- - -	- - -	- - -	- - -
SPLT	A2-1-18 A2-8-002	A1-17-13 A1-3-033	- - -	- - -	- - -	- - -
$\overline{\text{CLB1}}$	A2-1-08 A2-8-001	A3-12-9 A3-9-023	- - -	- - -	- - -	- - -
LLT	A2-3-17 A2-7-006	A2-45-08 A2-8-089	- - -	- - -	- - -	- - -
SDALP6	A2-3-07 A2-7-005	A1-1-04 A1-4-001	- - -	- - -	- - -	- - -
TP3	A2-2-17 A2-7-004	A1-17-03 A1-3-033	- - -	- - -	- - -	- - -
SDAQ2	A2-1-07 A2-7-001	A1-3-07 A1-7-005	- - -	- - -	- - -	- - -
DAQ	A1-43-04 A1-4-085	A3-41-11 A3-1-082	- - -	- - -	- - -	- - -
$\overline{\text{SMU1}}$	A1-45-03 A1-3-089	A2-44-8 A2-8-087	- - -	- - -	- - -	- - -
SDALP5	A1-44-13 A1-3-088	A1-1-14 A1-4-002	- - -	- - -	- - -	- - -
SDALP4	A1-45-12 A1-2-090	A1-2-04 A1-4-003	- - -	- - -	- - -	- - -
SDALP1	A1-45-02 A1-2-089	A1-3-14 A1-4-006	- - -	- - -	- - -	- - -
$\overline{\text{SMUO}}$	A1-43-12 A1-2-086	A2-43-08 A2-8-085	- - -	- - -	- - -	- - -
SMU1	A2-14-06 A2-6-027	A2-43-18 A2-8-086	- - -	- - -	- - -	- - -
SMUO	A1-43-02 A1-2-085	A2-45-17 A2-7-090	- - -	- - -	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{\text{T1}}$	A2-14-07 A2-7-027	A2-42-01 A2-1-083	- - -	- - -	- - -	- - -
	- - -	- - -	- - -	- - -	- - -	- - -
$\overline{\text{KBCLR}}$	A2-39-18 A2-8-078	- - -	- - -	- - -	- - -	- - -
$\overline{\text{STSTPIT}}$	A3-10-08 A3-8-019	A3-32-03 A3-3-063	- - -	- - -	- - -	- - -
$\overline{\text{STQ2}}$	A3-10-18 A3-8-020	A3-33-09 A3-9-065	- - -	- - -	- - -	- - -
LCL1	A3-11-08 A3-8-021	A3-19-14 A3-4-038	- - -	- - -	- - -	- - -
$\overline{\text{Q1}}$	A3-2-17 A3-7-004	A3-19-17 A3-7-038	- - -	- - -	- - -	- - -
$\overline{\text{T3}}$	A3-3-07 A3-7-005	A3-20-18 A3-8-040	- - -	- - -	- - -	- - -
$\overline{\text{T4}}$	A3-2-16 A3-6-004	A3-21-19 A3-9-042	- - -	- - -	- - -	- - -
$\overline{\text{T5}}$	A3-3-06 A3-6-005	A3-22-12 A3-2-044	- - -	- - -	- - -	- - -
$\overline{\text{T6}}$	A3-3-16 A3-6-006	A3-23-13 A3-3-046	- - -	- - -	- - -	- - -
$\overline{\text{T8}}$	A3-1-07 A3-7-001	A3-24-14 A3-4-048	- - -	- - -	- - -	- - -
$\overline{\text{T9}}$	A3-1-17 A3-7-002	A3-22-16 A3-6-044	- - -	- - -	- - -	- - -
$\overline{\text{RUG}}$	A3-3-17 A3-7-006	A3-17-12 A3-2-034	- - -	- - -	- - -	- - -
$\overline{\text{WG1}}$	A3-3-08 A3-8-005	A3-18-13 A3-3-036	- - -	- - -	- - -	- - -
$\overline{\text{WG2}}$	A3-3-18 A3-8-006	A3-16-15 A3-5-032	- - -	- - -	- - -	- - -
$\overline{\text{WG3}}$	A3-1-09 A3-9-001	A3-17-16 A3-6-034	- - -	- - -	- - -	- - -
TSTP	A3-12-08 A3-8-023	A3-17-19 A3-9-034	- - -	- - -	- - -	- - -
R1 IN	A3-12-18 A3-8-024	A3-21-11 A3-1-042	- - -	- - -	- - -	- - -
R2 IN	A3-10-09 A3-9-019	A3-19-13 A3-3-038	- - -	- - -	- - -	- - -
R3 IN	A3-10-19 A3-9-020	A3-19-14 A3-4-038	- - -	- - -	- - -	- - -
R4 IN	A3-11-09 A3-9-021	A3-21-14 A3-4-042	- - -	- - -	- - -	- - -
RRPA	A2-37-13 A2-3-074	A3-18-17 A3-7-036	- - -	- - -	- - -	- - -
RCA	A2-38-03 A2-3-075	A3-16-19 A3-9-032	- - -	- - -	- - -	- - -
LCL	A3-11-19 A3-9-022	A2-5-05 A2-5-009	- - -	- - -	- - -	- - -
CQ1	A3-3-09 A3-9-005	A3-42-19 A3-9-084	- - -	- - -	- - -	- - -
$\overline{\text{CQ2}}$	A3-3-19 A3-9-006	A3-42-09 A3-9-083	- - -	- - -	- - -	- - -
CB2	A3-8-15 A3-5-016	A3-41-19 A3-9-082	- - -	- - -	- - -	- - -
CT01	A3-9-05 A3-5-017	A3-41-09 A3-9-081	- - -	- - -	- - -	- - -
CT02	A3-9-15 A3-5-018	A3-40-19 A3-9-080	- - -	- - -	- - -	- - -
CT03	A3-7-06 A3-6-013	A3-42-18 A3-8-084	- - -	- - -	- - -	- - -
CT04	A3-7-16 A3-6-014	A3-42-08 A3-8-083	- - -	- - -	- - -	- - -
CT05	A3-8-16 A3-6-016	A3-41-18 A3-8-082	- - -	- - -	- - -	- - -
CT06	A3-9-06 A3-6-017	A3-41-08 A3-8-081	- - -	- - -	- - -	- - -
CT07	A3-9-16 A3-6-018	A3-40-18 A3-8-080	- - -	- - -	- - -	- - -
CT08	A3-7-07 A3-7-013	A3-42-17 A3-7-084	- - -	- - -	- - -	- - -

SIGNAL	FROM	TO	FROM	TO	FROM	TO
CT09	A3-7-17 A3-7-014	A3-42-07 A3-7-083	- - -	- - -	- - -	- - -
CT10	A3-8-07 A3-7-015	A3-41-17 A3-7-082	- - -	- - -	- - -	- - -
$\overline{\text{KB3}}$	A2-5-02 A2-2-009	A2-38-06 A2-6-075	- - -	- - -	- - -	- - -
SPWB1	A2-9-16 A2-6-018	A1-1-13 A1-3-002	- - -	- - -	- - -	- - -
[KBERR]	A2-4-16 A2-6-008	A2-38-18 A2-8-076	- - -	- - -	- - -	- - -
[KBSPC]	A2-6-09 A2-9-011	A2-37-18 A2-8-074	- - -	- - -	- - -	- - -
[$\overline{\text{R1}}$]	A2-14-04 A2-4-027	A1-35-03 A1-3-069	- - -	- - -	- - -	- - -
[$\overline{\text{R2}}$]	A2-13-04 A2-4-025	A1-13-08 A1-8-025	- - -	- - -	- - -	- - -
[KBSTP]	A2-15-03 A2-3-029	A2-39-17 A2-7-078	- - -	- - -	- - -	- - -
$\overline{\text{KB5}}$	A2-14-03 A2-3-027	A2-37-07 A2-7-073	- - -	- - -	- - -	- - -
$\overline{\text{SRM}}$	A2-13-03 A2-3-025	A1-1-12 A1-2-002	- - -	- - -	- - -	- - -
[$\overline{\text{KBERR}}$]	A2-15-02 A2-2-029	A1-35-09 A1-9-069	A1-35-09 A1-9-069	A2-39-08 A2-8-077	- - -	- - -
$\overline{\text{KB0}}$	A2-14-02 A2-2-027	A2-33-19 A2-9-066	- - -	- - -	- - -	- - -
[$\overline{\text{KBSTP}}$]	A2-13-02 A2-2-025	A2-37-08 A2-8-073	A2-37-08 A2-8-073	A1-9-02 A1-2-017	- - -	- - -
[$\overline{\text{KBINFO}}$]	A2-15-01 A2-1-029	A1-32-03 A1-3-063	- - -	- - -	- - -	- - -
KB1	A2-14-01 A2-1-027	A2-38-15 A2-5-076	- - -	- - -	- - -	- - -
KB0	A2-13-17 A2-7-026	A2-33-09 A2-9-065	- - -	- - -	- - -	- - -
KB6	A2-15-16 A2-6-030	A2-37-17 A2-7-074	- - -	- - -	- - -	- - -
$\overline{\text{RL8}}$	A2-13-16 A2-6-026	A2-41-09 A2-9-081	- - -	- - -	- - -	- - -
$\overline{\text{TR6}}$	A2-13-06 A2-6-025	A1-24-05 A1-5-047	- - -	- - -	- - -	- - -
$\overline{\text{LDFB}}$	A2-15-05 A2-5-029	A2-41-01 A2-1-081	- - -	- - -	- - -	- - -
SRT1	A2-14-05 A2-5-027	A1-3-02 A1-2-005	- - -	- - -	- - -	- - -
$\overline{\text{RL10}}$	A2-13-05 A2-5-025	A2-42-09 A2-9-083	- - -	- - -	- - -	- - -
TCFB	A2-15-04 A2-4-029	A2-42-07 A2-7-083	- - -	- - -	- - -	- - -
SRT01	A2-1-05 A2-5-001	A1-3-12 A1-2-006	- - -	- - -	- - -	- - -
LDFB	A2-6-17 A2-7-012	A2-41-11 A2-1-082	- - -	- - -	- - -	- - -
RDFB	A2-3-12 A2-2-006	A2-39-01 A2-1-77	- - -	- - -	- - -	- - -
$\overline{\text{TR7}}$	A1-43-13 A1-3-086	A1-24-15 A1-5-048	- - -	- - -	- - -	- - -
SPWA1	A1-43-03 A1-3-085	A1-3-03 A1-3-005	- - -	- - -	- - -	- - -
SPWB2	A1-44-02 A1-2-087	A1-1-03 A1-3-001	- - -	- - -	- - -	- - -
KB2	A1-45-11 A1-1-090	A2-39-15 A2-5-078	- - -	- - -	- - -	- - -
$\overline{\text{TR8}}$	A2-3-09 A2-9-005	A1-22-04 A1-4-043	- - -	- - -	- - -	- - -
SRE	A2-2-19 A2-9-004	A3-12-11 A3-1-029	- - -	- - -	- - -	- - -
STP	A2-2-09 A2-9-003	A2-43-16 A2-6-086	- - -	- - -	- - -	- - -
KB9	A2-9-18 A2-8-018	A2-38-16 A2-6-076	- - -	- - -	- - -	- - -
KB5	A2-8-08 A2-8-015	A2-39-16 A2-6-078	- - -	- - -	- - -	- - -

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 2430 DATE 2-3-63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014411	1019156

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Kelley DATE 8-26-63
CHECKED W. Ahern 20 OCT 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. ——— SIZE J NASA DRAWING NO 1014488
SCALE WT SHEET 4 OF 7

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

MASTER

1014488

INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR		

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{RS12}$	A1-42-06 A1-6-083	A1-12-02 A1-2-023	---	---	---	---
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	---	---	---	---	---	---
RA15	A1-40-15 A1-5-080	A2-36-02 A2-2-071	A2-36-02 A2-2-071	A1-10-19 A1-9-020	---	---
RX6	A1-28-08 A1-8-055	A2-33-12 A2-2-066	---	---	---	---
RX5	A1-15-03 A1-3-029	A2-33-02 A2-2-065	---	---	---	---
RG7	A1-10-16 A1-6-020	A2-36-06 A2-6-071	---	---	---	---
RG6	A1-8-02 A1-2-015	A2-35-16 A2-6-070	---	---	---	---
RG5	A1-34-12 A1-2-068	A2-35-06 A2-6-069	---	---	---	---
RQ5	A1-34-02 A1-2-067	A2-34-09 A2-9-067	---	---	---	---
RX7	A1-14-13 A1-3-028	A2-31-03 A2-3-061	---	---	---	---
RQ7	A1-12-17 A1-7-024	A2-35-09 A2-9-069	---	---	---	---
RZ6	A1-33-14 A1-4-066	A3-15-02 A3-2-029	---	---	---	---
RB7	A1-15-05 A1-5-029	A2-34-04 A2-4-067	---	---	---	---
RB8	A1-14-15 A1-5-028	A2-34-14 A2-4-068	---	---	---	---
RY7	A1-15-04 A1-4-029	A2-33-05 A2-5-065	---	---	---	---
RLP7	A1-35-12 A1-2-070	A2-44-13 A2-3-088	---	---	---	---
$\overline{CWL8}$	A1-33-02 A1-2-065	A2-40-15 A2-5-080	---	---	---	---
$\overline{CWL5}$	A1-35-17 A1-7-070	A2-42-04 A2-4-083	---	---	---	---
RB6	A1-35-07 A1-7-069	A2-36-13 A2-3-072	---	---	---	---
RLP6	A1-36-03 A1-3-071	A2-44-03 A2-3-087	---	---	---	---
$\overline{CWL6}$	A1-31-05 A1-5-061	A2-42-14 A2-4-084	---	---	---	---
RG10	A1-36-04 A1-4-071	A2-34-17 A2-7-068	---	---	---	---
RG11	A1-32-11 A1-1-064	A2-35-07 A2-7-069	---	---	---	---
RG12	A1-34-07 A1-7-067	A2-35-17 A2-7-070	---	---	---	---
RX11	A1-13-07 A1-7-025	A2-33-03 A2-3-065	---	---	---	---
RY9	A1-15-17 A1-7-030	A2-31-06 A2-6-061	---	---	---	---
$\overline{CWL12}$	A1-9-12 A1-2-018	A2-42-15 A2-5-084	---	---	---	---
RX9	A1-11-12 A1-2-022	A2-32-03 A2-3-063	---	---	---	---
RLP9	A1-31-06 A1-6-061	A2-45-13 A2-3-090	---	---	---	---

SIGNAL	FROM	TO	FROM	TO	FROM	TO
RLP11	A1-33-05 A1-5-065	A2-43-14 A2-4-086	---	---	---	---
LLDFB	A1-37-05 A1-5-073	A3-15-17 A3-7-030	---	---	---	---
LRDFB	A1-39-14 A1-4-078	A3-15-07 A3-7-029	---	---	---	---
LSHANC	A1-39-04 A1-4-077	A3-13-07 A3-7-025	---	---	---	---
LSHINC	A1-38-14 A1-4-076	A3-13-17 A3-7-026	---	---	---	---
LMINC	A1-38-04 A1-4-075	A3-14-07 A3-7-027	---	---	---	---
LPINC	A1-37-14 A1-4-074	A3-14-17 A3-7-028	---	---	---	---
NISQ	A1-37-04 A1-4-073	A2-42-06 A2-6-083	---	---	---	---
IIP	A1-39-13 A1-3-078	A2-38-02 A2-2-075	---	---	---	---
INKL	A1-39-03 A1-3-077	A3-8-06 A3-6-015	---	---	---	---
CTROR	A1-38-13 A1-3-076	A2-39-12 A2-2-078	---	---	---	---
PAL	A1-38-03 A1-3-075	A2-37-03 A2-3-073	---	---	---	---
TI1	A1-37-13 A1-3-074	A2-40-17 A2-7-080	---	---	---	---
TI2	A1-37-03 A1-3-073	A2-41-07 A2-7-081	---	---	---	---
ACSP1	A1-39-12 A1-2-078	A3-41-12 A3-2-082	---	---	---	---
ACSP2	A1-39-02 A1-2-077	A3-40-02 A3-2-079	---	---	---	---
RPTR	A1-38-12 A1-2-076	A2-37-02 A2-2-073	---	---	---	---
RS1	A1-38-02 A1-2-075	A1-30-17 A1-7-060	A1-30-17 A1-7-060	A2-32-17 A2-7-064	---	---
$\overline{RS1}$	A1-37-12 A1-2-074	A1-29-17 A1-7-058	---	---	---	---
RS2	A1-37-02 A1-2-073	A1-13-03 A1-3-025	A1-13-03 A1-3-025	A2-33-07 A2-7-065	---	---
$\overline{RS2}$	A1-39-11 A1-1-078	A1-14-12 A1-2-028	---	---	---	---
RS3	A1-42-19 A1-9-084	A1-13-04 A1-4-025	A1-13-04 A1-4-025	A2-33-17 A2-7-066	---	---
$\overline{RS3}$	A1-42-09 A1-9-083	A1-30-07 A1-7-059	---	---	---	---
RS4	A1-41-19 A1-9-082	A1-15-12 A1-2-030	A1-15-12 A1-2-030	A2-31-17 A2-7-062	---	---
$\overline{RS4}$	A1-41-09 A1-9-081	A1-15-02 A1-2-029	---	---	---	---
RS5	A1-40-19 A1-9-080	A1-13-02 A1-2-025	A1-13-02 A1-2-025	A2-33-08 A2-8-065	---	---
$\overline{RS5}$	A1-40-09 A1-9-079	A1-15-11 A1-1-030	---	---	---	---
RS6	A1-42-18 A1-8-084	A1-13-12 A1-2-026	A1-13-12 A1-2-026	A2-37-15 A2-5-074	---	---
$\overline{RS6}$	A1-42-08 A1-8-083	A1-28-07 A1-7-055	---	---	---	---
RS7	A1-41-18 A1-8-082	A1-14-02 A1-2-027	A1-14-02 A1-2-027	A2-38-05 A2-5-075	---	---
$\overline{RS7}$	A1-41-08 A1-8-081	A1-28-07 A1-7-055	---	---	---	---
RS8	A1-40-18 A1-8-080	A1-30-19 A1-9-060	A1-30-19 A1-9-060	A2-43-01 A2-1-085	---	---
$\overline{RS8}$	A1-40-08 A1-8-079	A1-28-17 A1-7-056	---	---	---	---
RS9	A1-42-17 A1-7-084	A2-43-11 A2-1-086	A2-43-11 A2-1-086	A1-13-06 A1-6-025	---	---
$\overline{RS9}$	A1-42-07 A1-7-083	A1-14-17 A1-7-028	---	---	---	---
RS10	A1-41-17 A1-7-082	A1-13-16 A1-6-026	A1-13-16 A1-6-026	A2-44-01 A2-1-087	---	---

SIGNAL	FROM	TO	FROM	TO	FROM	TO
$\overline{RS10}$	A1-41-07 A1-7-081	A1-31-03 A1-3-061	---	---	---	---
RS11	A1-40-17 A1-7-080	A1-12-12 A1-2-024	A1-12-12 A1-2-024	A2-44-11 A2-1-088	---	---
$\overline{RS11}$	A1-40-07 A1-7-079	A1-14-07 A1-7-027	---	---	---	---
RS12	A1-42-16 A1-6-084	A1-13-17 A1-7-026	A1-13-17 A1-7-026	A2-45-01 A2-1-089	---	---
RX3	A1-30-16 A1-6-060	A2-32-02 A2-2-063	---	---	---	---
$\overline{CWL2}$	A1-11-14 A1-4-022	A2-40-14 A2-4-080	---	---	---	---
RX4	A1-15-13 A1-3-030	A2-32-12 A2-2-064	---	---	---	---
$\overline{CWL4}$	A1-11-18 A1-8-022	A2-41-14 A2-4-082	---	---	---	---
$\overline{CWL3}$	A1-11-08 A1-8-021	A2-41-04 A2-4-081	---	---	---	---
RZ14	A1-34-19 A1-9-068	A3-13-04 A3-4-025	---	---	---	---
RZ13	A1-35-16 A1-6-070	A3-15-13 A3-3-030	---	---	---	---
RZ15	A1-34-09 A1-9-067	A3-13-14 A3-4-026	---	---	---	---
RB16	A1-15-08 A1-8-029	A2-35-15 A2-5-070	A2-35-15 A2-5-070	A2-11-16 A2-6-022	---	---
RLP14	A1-14-18 A1-8-028	A2-45-04 A2-4-089	---	---	---	---
RY14	A1-14-08 A1-8-027	A2-33-16 A2-6-066	---	---	---	---
RX14	A1-11-02 A1-2-021	A2-31-14 A2-4-062	---	---	---	---
RX15	A1-10-06 A1-6-019	A2-32-04 A2-4-063	---	---	---	---
RQ15	A1-10-15 A1-5-020	A2-33-01 A2-1-065	---	---	---	---
RQ16	A1-10-05 A1-5-019	A2-33-11 A2-1-066	A2-33-11 A2-1-066	A2-4-03 A2-3-007	---	---
RY15	A1-12-14 A1-4-024	A2-31-07 A2-7-061	---	---	---	---
RX13	A1-12-15 A1-5-024	A2-31-04 A2-4-061	---	---	---	---
RQ13	A1-10-14 A1-4-020	A2-32-01 A2-1-063	---	---	---	---
RBK14	A1-12-17 A1-7-024	A1-41-15 A1-5-082	A1-41-15 A1-5-082	A2-44-02 A2-2-087	---	---
RY16	A1-11-03 A1-3-021	A2-32-07 A2-7-063	A2-32-07 A2-7-063	A2-1-13 A2-3-002	---	---
RY13	A1-10-13 A1-3-020	A2-33-06 A2-6-065	---	---	---	---
RLP16	A1-10-03 A1-3-019	A2-43-05 A2-5-085	A2-43-05 A2-5-085	A2-12-09 A2-9-023	---	---
$\overline{SK}$	A1-12-07 A1-7-023	A2-45-16 A2-6-090	---	---	---	---
RG16	A1-7-04 A1-4-013	A2-34-18 A2-8-068	A2-34-18 A2-8-068	A2-4-05 A2-5-007	---	---
RG15	A1-8-03 A1-3-015	A2-34-08 A2-8-067	---	---	---	---
RG14	A1-7-03 A1-3-013	A2-36-17 A2-7-072	---	---	---	---
KBBS1	A1-18-04 A1-4-035	A2-37-09 A2-9-073	---	---	---	---
KBBS2	A1-16-03 A1-3-031	A2-37-19 A2-9-074	---	---	---	---
TR4	A1-22-14 A1-4-049	---	---	---	---	---
TR5	A1-24-04 A1-4-047	---	---	---	---	---
TR7	A1-23-05 A1-5-045	---	---	---	---	---
TR8	A1-24-14 A1-4-048	---	---	---	---	---

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 5-36 DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014411	1014156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 9/26/63
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 30 Oct 63
MIT APPROVAL [illegible] 10/29/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A 8

CODE IDENT NO. ——— SIZE J NASA DRAWING NO 1014488
SCALE WT SHEET 5 OF 7

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		

SIGNAL	FROM	TO	FROM	TO	FROM	TO
RX16	A1-14-16 A1-6-028	A1-44-12 A1-2-088	A1-44-12 A1-2-088	A2-32-14 A2-4-064	— — —	— — —
RB14	A1-14-05 A1-5-027	A2-34-15 A2-5-068	— — —	— — —	— — —	— — —
RB13	A1-13-15 A1-5-026	A2-34-05 A2-5-067	— — —	— — —	— — —	— — —
RZ16	A1-29-15 A1-5-058	A3-14-04 A3-4-027	— — —	— — —	— — —	— — —
RBK13	A1-28-05 A1-5-055	A1-42-15 A1-5-084	A1-42-15 A1-5-084	A2-43-12 A2-2-086	— — —	— — —
RLP13	A1-13-09 A1-9-025	A2-44-14 A2-4-088	— — —	— — —	— — —	— — —
RLP15	A1-30-02 A1-2-059	A2-45-14 A2-4-090	— — —	— — —	— — —	— — —
SDAX2	A2-14-12 A2-2-028	A1-3-06 A1-6-005	— — —	— — —	— — —	— — —
SDAX3	A2-13-12 A2-2-026	A1-2-16 A1-6-004	— — —	— — —	— — —	— — —
SDAQ5	A2-3-06 A2-6-005	A1-1-17 A1-7-002	— — —	— — —	— — —	— — —
SDAX1	A2-15-11 A2-1-030	A1-3-16 A1-6-006	— — —	— — —	— — —	— — —
SDAQ4	A2-2-06 A2-6-003	A1-2-07 A1-7-003	— — —	— — —	— — —	— — —
SDAQ3	A2-10-09 A2-9-019	A1-2-17 A1-7-004	— — —	— — —	— — —	— — —
SDALP3	A2-8-17 A2-7-016	A1-2-14 A1-4-004	— — —	— — —	— — —	— — —
TP1	A2-7-16 A2-6-014	A1-16-15 A1-5-032	— — —	— — —	— — —	— — —
TP2	A2-7-05 A2-5-013	A1-18-13 A1-3-036	— — —	— — —	— — —	— — —
STMNC1	A2-9-13 A2-3-018	A2-44-19 A2-9-088	— — —	— — —	— — —	— — —
STMPT1	A2-9-03 A2-3-017	A2-44-09 A2-9-087	— — —	— — —	— — —	— — —
$\overline{\text{STI}}$	A1-39-19 A1-9-078	A3-2-06 A3-6-003	— — —	— — —	— — —	— — —
SRAST	A1-39-09 A1-9-077	A3-15-15 A3-5-030	— — —	— — —	— — —	— — —
ST12ST	A1-38-19 A1-9-076	A3-14-14 A3-4-028	— — —	— — —	— — —	— — —
ST12L	A1-38-09 A1-9-075	A3-15-04 A3-4-029	— — —	— — —	— — —	— — —
SNISQ	A1-37-19 A1-9-074	A3-15-14 A3-4-030	— — —	— — —	— — —	— — —
SRPTR	A1-37-09 A1-9-073	A3-13-05 A3-5-025	— — —	— — —	— — —	— — —
SIIP	A1-39-18 A1-8-078	A3-13-15 A3-5-026	— — —	— — —	— — —	— — —
SCTROR	A1-39-08 A1-8-077	A3-14-05 A3-5-027	— — —	— — —	— — —	— — —
SINKL	A1-38-18 A1-8-076	A3-14-15 A3-5-028	— — —	— — —	— — —	— — —
SPF	A1-38-08 A1-8-075	A3-15-05 A3-5-029	— — —	— — —	— — —	— — —
S2SA	A1-37-18 A1-8-074	A1-31-14 A1-4-062	— — —	— — —	— — —	— — —
S2ST	A1-37-08 A1-8-073	A3-13-16 A3-6-026	— — —	— — —	— — —	— — —
$\overline{\text{S2NO}}$	A1-39-17 A1-7-078	A1-33-13 A1-3-066	— — —	— — —	— — —	— — —
S1SA	A1-39-07 A1-7-077	A1-32-04 A1-4-063	— — —	— — —	— — —	— — —
S1ST	A1-38-17 A1-7-076	A3-13-06 A3-6-025	— — —	— — —	— — —	— — —
$\overline{\text{S1NO}}$	A1-38-07 A1-7-075	A1-36-15 A1-5-072	— — —	— — —	— — —	— — —
LINHL	A1-37-17 A1-7-074	A2-39-02 A2-2-077	— — —	— — —	— — —	— — —
LPFG	A1-37-07 A1-7-073	A3-15-06 A3-6-029	— — —	— — —	— — —	— — —

SIGNAL	FROM	TO	FROM	TO	FROM	TO
LPTG	A1-39-16 A1-6-078	A3-15-16 A3-6-030	— — —	— — —	— — —	— — —
LPAL	A1-39-06 A1-6-077	A3-13-18 A3-8-026	— — —	— — —	— — —	— — —
$\overline{\text{LINHL}}$	A1-38-16 A1-6-076	A3-14-08 A3-8-027	— — —	— — —	— — —	— — —
LCTROR	A1-38-06 A1-6-075	A3-14-18 A3-8-028	— — —	— — —	— — —	— — —
LIIP	A1-37-16 A1-6-074	A3-13-09 A3-9-025	— — —	— — —	— — —	— — —
LRPTR	A1-37-06 A1-6-073	A3-15-18 A3-8-030	— — —	— — —	— — —	— — —
LNISQ	A1-39-15 A1-5-078	A3-15-08 A3-8-029	— — —	— — —	— — —	— — —
LT12	A1-39-05 A1-5-077	A3-13-08 A3-8-025	— — —	— — —	— — —	— — —
LSTPIT	A1-38-15 A1-5-076	A3-2-13 A3-3-004	— — —	— — —	— — —	— — —
LGOJAM	A1-37-15 A1-5-074	A2-38-12 A2-2-076	— — —	— — —	— — —	— — —
COINC	A3-4-05 A3-5-007	A3-38-06 A3-6-075	— — —	— — —	— — —	— — —
CPINC	A3-4-15 A3-5-008	A3-37-16 A3-6-074	— — —	— — —	— — —	— — —
CSHANC	A3-5-05 A3-5-009	A3-37-06 A3-6-073	— — —	— — —	— — —	— — —
CSHINC	A3-5-15 A3-5-010	A3-39-15 A3-5-078	— — —	— — —	— — —	— — —
CSQ13	A3-6-05 A3-5-011	A3-39-05 A3-5-077	— — —	— — —	— — —	— — —
CSQ14	A3-6-15 A3-5-012	A3-38-15 A3-5-076	— — —	— — —	— — —	— — —
CSQ15	A3-4-06 A3-6-007	A3-38-05 A3-5-075	— — —	— — —	— — —	— — —
CSQ16	A3-4-16 A3-6-008	A3-39-14 A3-4-078	— — —	— — —	— — —	— — —
CST1M	A3-5-06 A3-6-009	A3-39-04 A3-4-077	— — —	— — —	— — —	— — —
CST2M	A3-5-16 A3-6-010	A3-38-14 A3-4-076	— — —	— — —	— — —	— — —
CIIPM	A3-6-06 A3-6-011	A3-38-04 A3-4-075	— — —	— — —	— — —	— — —
CBR2	A3-6-16 A3-6-012	A3-39-03 A3-3-077	— — —	— — —	— — —	— — —
CBR1	A3-4-07 A3-7-007	A3-37-14 A3-4-074	— — —	— — —	— — —	— — —
$\overline{\text{CTCSA}}$	A3-4-17 A3-7-008	A3-38-13 A3-3-076	— — —	— — —	— — —	— — —
CRPTR	A3-5-07 A3-7-009	A3-38-03 A3-3-075	— — —	— — —	— — —	— — —
$\overline{\text{CRRPA}}$	A3-5-17 A3-7-010	A3-37-13 A3-3-074	— — —	— — —	— — —	— — —
$\overline{\text{CWBKG}}$	A3-6-07 A3-7-011	A3-38-02 A3-2-075	— — —	— — —	— — —	— — —
CCTROR	A3-6-17 A3-7-012	A3-37-12 A3-2-074	— — —	— — —	— — —	— — —
$\overline{\text{CRCA}}$	A3-4-08 A3-8-007	A3-36-19 A3-9-072	— — —	— — —	— — —	— — —
$\overline{\text{CPAL}}$	A3-4-18 A3-8-008	A3-36-09 A3-9-071	— — —	— — —	— — —	— — —
$\overline{\text{CSTPIT}}$	A3-5-08 A3-8-009	A3-35-19 A3-9-070	— — —	— — —	— — —	— — —
CGOJAM	A3-5-18 A3-8-010	A3-35-09 A3-9-069	— — —	— — —	— — —	— — —
CINHL	A3-6-08 A3-8-011	A3-34-19 A3-9-068	— — —	— — —	— — —	— — —
CT25	A3-4-19 A3-9-008	A3-35-18 A3-8-070	— — —	— — —	— — —	— — —
CRL01	A3-5-09 A3-9-009	A3-36-17 A3-7-072	— — —	— — —	— — —	— — —
CRL02	A3-5-19 A3-9-010	A3-36-07 A3-7-071	— — —	— — —	— — —	— — —

SIGNAL	FROM	TO	FROM	TO	FROM	TO
CRL03	A3-6-09 A3-9-011	A3-35-17 A3-7-070	— — —	— — —	— — —	— — —
CRL04	A3-6-19 A3-9-012	A3-35-07 A3-7-069	— — —	— — —	— — —	— — —
CRL05	A3-1-01 A3-1-001	A3-34-17 A3-7-068	— — —	— — —	— — —	— — —
CRL06	A3-1-11 A3-1-002	A3-34-07 A3-7-067	— — —	— — —	— — —	— — —
CRL07	A3-2-01 A3-1-003	A3-36-16 A3-6-072	— — —	— — —	— — —	— — —
CRL08	A3-2-11 A3-1-004	A3-35-06 A3-6-069	— — —	— — —	— — —	— — —
CRL09	A3-3-01 A3-1-005	A3-34-16 A3-6-068	— — —	— — —	— — —	— — —
CRL10	A3-3-11 A3-1-006	A3-34-06 A3-6-067	— — —	— — —	— — —	— — —
CRL11	A3-1-02 A3-2-001	A3-36-15 A3-5-072	— — —	— — —	— — —	— — —
CRL12	A3-1-12 A3-2-002	A3-36-05 A3-5-071	— — —	— — —	— — —	— — —
CRL13	A3-2-02 A3-2-003	A3-35-15 A3-5-070	— — —	— — —	— — —	— — —
CRL14	A3-2-12 A3-2-004	A3-35-05 A3-5-069	— — —	— — —	— — —	— — —
CRL16	A3-3-02 A3-2-005	A3-36-14 A3-4-072	— — —	— — —	— — —	— — —
$\overline{\text{SRE}}$	A2-5-12 A2-2-010	A2-44-16 A2-6-088	A2-44-16 A2-6-088	A1-34-18 A1-8-068	— — —	— — —
$\overline{\text{KB4}}$	A2-5-04 A2-4-009	A2-39-06 A2-6-077	— — —	— — —	— — —	— — —
$\overline{\text{KB2}}$	A2-4-14 A2-4-008	A2-37-06 A2-6-073	— — —	— — —	— — —	— — —
[$\overline{\text{KBSPC}}$]	A2-6-04 A2-4-011	A2-38-08 A2-8-075	— — —	— — —	— — —	— — —
$\overline{\text{KB1}}$	A2-4-12 A2-2-008	A2-39-05 A2-5-077	— — —	— — —	— — —	— — —
SRTC	A2-5-03 A2-3-009	A1-2-02 A1-2-003	— — —	— — —	— — —	— — —
SPWA2	A2-6-11 A2-1-012	A1-2-13 A1-3-004	— — —	— — —	— — —	— — —
$\overline{\text{KB7}}$	A2-9-19 A2-9-018	A2-39-07 A2-7-077	— — —	— — —	— — —	— — —
$\overline{\text{TR4}}$	A2-4-19 A2-9-008	A1-22-06 A1-6-043	— — —	— — —	— — —	— — —
$\overline{\text{STL}}$	A2-4-09 A2-9-007	A2-43-06 A2-6-085	— — —	— — —	— — —	— — —
STU	A2-6-08 A2-8-011	A2-44-15 A2-5-088	— — —	— — —	— — —	— — —
RA9	A2-5-08 A2-8-009	A2-36-01 A2-1-071	A2-36-01 A2-1-071	A1-11-04 A1-4-021	— — —	— — —
TR6	A2-3-05 A2-5-005	A1-24-16 A1-6-048	— — —	— — —	— — —	— — —
RA10	A2-2-15 A2-5-004	A2-36-11 A2-1-072	A2-36-11 A2-1-072	A1-12-05 A1-5-023	— — —	— — —
SVR	A2-2-05 A2-5-003	A2-45-18 A2-8-090	— — —	— — —	— — —	— — —
STL	A2-1-04 A2-4-001	A3-13-01 A3-1-025	— — —	— — —	— — —	— — —
STRFR	A2-3-03 A2-3-005	A2-43-09 A2-9-085	— — —	— — —	— — —	— — —
$\overline{\text{SEX I}}$	A2-2-13 A2-3-004	A3-14-06 A3-6-027	— — —	— — —	— — —	— — —
RA12	A2-2-03 A2-3-003	A2-34-12 A2-2-068	A2-34-12 A2-2-068	A1-11-05 A1-5-021	— — —	— — —
RA8	A2-1-03 A2-3-001	A2-35-11 A2-1-070	A2-35-11 A2-1-070	A1-14-03 A1-3-027	— — —	— — —
KBCLR	A2-3-18 A2-8-006	A3-7-15 A3-5-014	A3-7-15 A3-5-014	A1-12-18 A1-8-024	— — —	— — —
RA13	A2-3-08 A2-8-005	A2-35-02 A2-2-069	A2-35-02 A2-2-069	A1-34-14 A1-4-068	— — —	— — —
[SEX I]	A2-2-18 A2-8-004	A3-14-16 A3-6-028	— — —	— — —	— — —	— — —

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 6360 DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1019911	1019156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Kelley DATE 8-26-63
CHECKED 7 OCT 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 30 Oct 63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014488
SCALE
WT
SHEET 6 OF 7

MASTER

INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		

SIGNAL	FROM	TO	FROM	TO	FROM	TO
SKL	A2-43-07 A2-7-085					
SMU	A2-43-17 A2-7-086					
STC	A2-44-17 A2-7-088					
SRD	A2-45-07 A2-7-089					
RB5	A1-32-06 A1-6-063	A2-36-03 A2-3-061				
RLP5	A1-35-15 A1-5-070	A2-43-13 A2-3-086				
RX8	A1-29-18 A1-8-058	A2-31-13 A2-3-062				
GRD.	A3-45-07 A3-7-089	A3-45-17 A3-7-090	A3-45-17 A3-7-090	A3-45-20 A3-10-090		
GRD	A3-43-08 A3-8-085	A3-43-18 A3-8-086	A3-43-18 A3-8-086	A3-43-20 A3-10-086		
GRD	A3-44-08 A3-8-087	A3-44-18 A3-8-088	A3-44-18 A3-8-088	A3-44-20 A3-10-088		
GRD	A3-45-08 A3-8-089	A3-45-18 A3-8-090	A3-45-18 A3-8-090	A3-45-20 A3-10-090		
GRD	A3-43-09 A3-9-085	A3-43-19 A3-9-086	A3-43-19 A3-9-086	A3-43-20 A3-10-086		
GRD.	A3-44-09 A3-9-087	A3-44-19 A3-9-088	A3-44-19 A3-9-088	A3-44-20 A3-10-088		
+3V	A1-28-03 A1-3-055	A3-43-01 A3-1-085				
+3V	A1-33-15 A1-5-066	A3-44-11 A3-1-088				
+3V	A1-32-16 A1-6-064	A3-43-11 A3-1-086				
+3V	A1-32-15 A1-5-064	A3-45-01 A3-1-089				
+3V	A1-4-19 A1-9-008	R5-A	R5-B	A3-45-11 A3-1-090		
+3V	A1-40-05 A1-5-079	R6-A	R6-B	A3-45-12 A3-2-090		
+3V	A3-20-08 A3-8-039	A3-43-14 A3-4-086				
+3V	A1-31-16 A1-6-062	A3-44-01 A3-1-087				
+3V	A2-30-05 A2-5-059	A3-43-09 A3-4-085				
+3V	A2-28-06 A2-6-055	A3-45-13 A3-3-090				
+3V	A1-22-13 A1-3-044	A1-22-15 A1-5-094	A1-23-06 A1-6-045	A1-23-06 A1-6-045	A1-24-13 A1-3-048	
+3V	A1-24-13 A1-3-048	A1-24-02 A1-2-043	A1-22-02 A1-2-043	A1-22-02 A1-2-043	A1-23-03 A1-3-045	
+3V	A1-23-03 A1-3-045	A1-24-17 A1-1-048	R8-A	R8-B	A3-45-03 A3-3-089	
+3V	A3-7-01 A3-1-013	A3-43-03 A3-3-085				
+3V	A3-7-11 A3-1-014	A3-43-13 A3-3-086				
+3V	A3-1-04 A3-4-001	A3-44-03 A3-3-087				

SIGNAL	FROM	TO	FROM	TO	FROM	TO
+3V	A2-7-08 A2-8-013	A3-43-02 A3-2-085				
+3V	A2-4-13 A2-3-008	A3-43-12 A3-2-086				
+3V	A2-14-16 A2-6-028	A3-44-02 A3-2-087				
+3V	A2-4-06 A2-6-007	A3-44-12 A3-2-088				
+3V	A2-14-07 A2-7-027	A3-45-02 A3-2-089				
+10V	A1-31-15 A1-5-062	A3-44-14 A3-4-088				
+10V	A1-42-04 A1-4-083	A3-44-05 A3-5-087				
+10V	A1-4-09 A1-9-007	A3-45-19 A3-9-090				
+10V	A1-42-14 A1-4-084	A3-43-15 A3-5-086				
+10V	A1-32-05 A1-5-063	A3-45-04 A3-4-089				
+10V	A3-8-01 A3-1-015	A3-43-16 A3-6-086				
+10V	A2-6-05 A2-5-011	A3-45-14 A3-4-090				
+10V	A2-6-07 A2-7-011	A3-43-05 A3-5-085				
+10V	A3-44-15 A3-5-088	A3-12-19 A3-9-024				
+10V	A2-29-16 A2-6-058	A3-44-06 A3-6-087				
+10V	A3-43-06 A3-6-085	A3-8-11 A3-1-016				
+10	A3-45-05 A3-5-089	A3-3-03 A3-3-005				
+10V (WL)	A3-1-14 A3-4-002	A3-19-07 A3-7-037				
SPARE	A2-30-07 A2-7-059					
SPARE	A2-29-08 A2-8-057					
SPARE	A2-29-18 A2-8-058					
SPARE	A2-30-18 A2-8-060					
SPARE	A2-29-09 A2-9-057					
SPARE	A2-9-19 A2-9-058					
+3V	A3-3-15 A3-5-006	A3-3-05 A3-5-005	A3-3-05 A3-5-005	A3-3-13 A3-3-006	A3-3-13 A3-3-006	A3-7-12 A3-2-014
+3V	A3-7-12 A3-2-014	R7-A	R7-B	A3-44-13 A3-3-088		
+10V	A2-28-16 A2-6-056	A3-44-04 A3-4-087				
+10V	A3-21-05 A3-5-041	A3-45-09 A3-9-089				
+10V	A3-7-02 A3-2-013	A3-45-15 A3-5-090				

SIGNAL	FROM	TO	FROM	TO	FROM	TO

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014911	1019156
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN
DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION WIRE
WRAP LIST A18

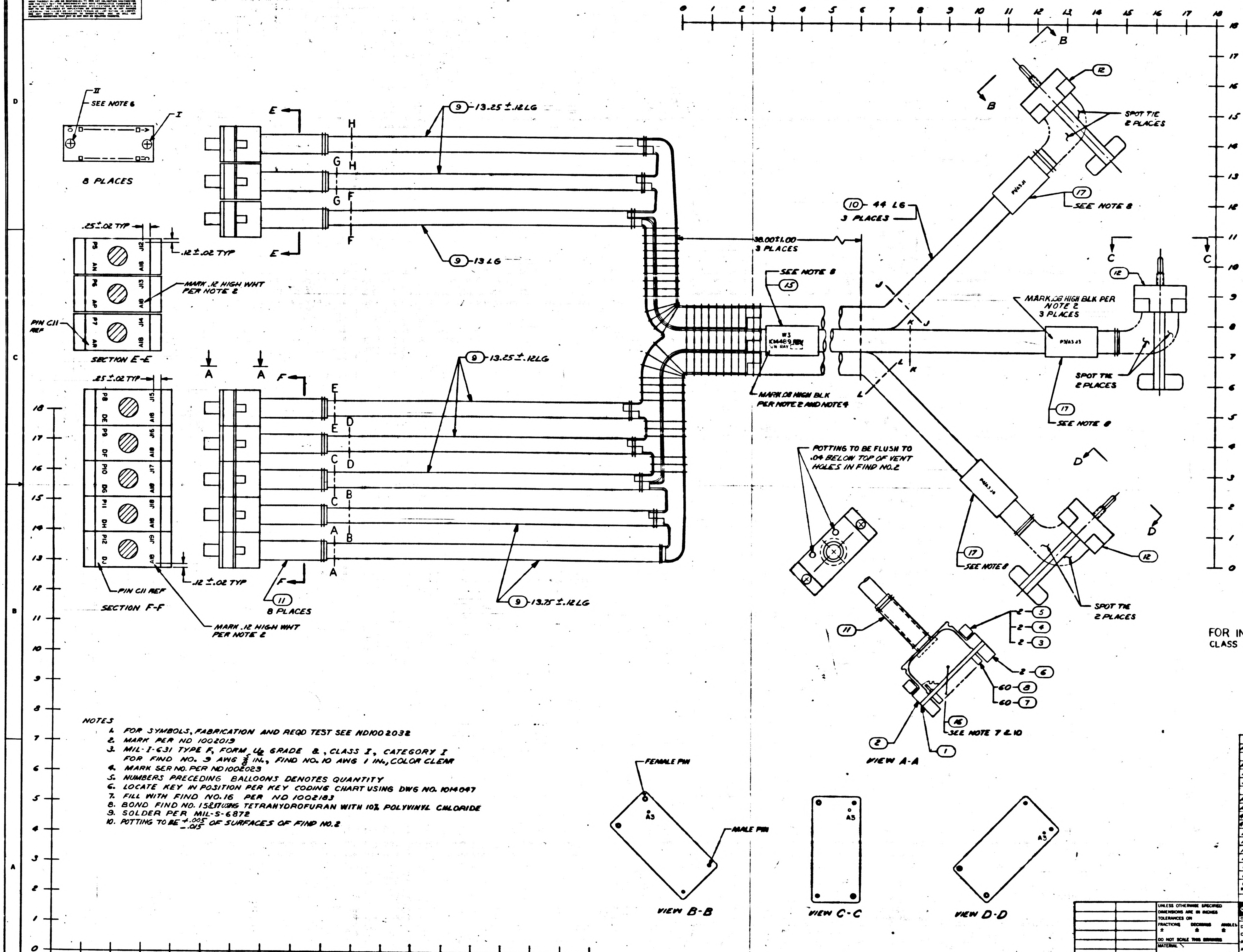
CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014488
SCALE
WT
SHEET 7 OF 7

INCHES
PHOTOGRAPHIC SCALE ONLY

1014489

ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 02835		
A	CHANGED PER TDRR 06451 DR. Kew Bull CHK. JJW APPD		



SEE NOTE 6
I
II
8 PLACES
SECTION E-E
.25±.02 TYP
.12±.02 TYP
MARK .12 HIGH WHT PER NOTE 2
PIN C11 REF
SECTION F-F
9 - 13.25±.12 LG
9 - 13 LG
9 - 13.75±.12 LG
11 8 PLACES
10 - 44 LG 3 PLACES
38.00±1.00 3 PLACES
SEE NOTE 8
15
W3 1014489 REV
MARK .08 HIGH BLK PER NOTE 2 AND NOTE 4
MARK .08 HIGH BLK PER NOTE 2 3 PLACES
12
17 SEE NOTE 8
SPOT TIE 2 PLACES
POTTING TO BE FLUSH TO .04 BELOW TOP OF VENT HOLES IN FIND NO.2
VIEW A-A
SEE NOTE 7 & 10
2-5
2-4
2-3
2-6
60-8
60-7
16
1
2
FEMALE PIN
MALE PIN
A3
VIEW B-B
VIEW C-C
VIEW D-D

A	A	—	—	—	—
SH 1	SH 2	SH 3	SH 4	SH 5	SH 6

REVISION STATUS OF SHEETS

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02835 DATE 10/10/63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TEST SEE ND1002032
2. MARK PER ND 1002019
3. MIL-I-631 TYPE F, FORM U, GRADE A, CLASS I, CATEGORY I FOR FIND NO. 9 AWG 5/8 IN., FIND NO. 10 AWG 1 IN., COLOR CLEAR
4. MARK SER NO. PER ND1002023
5. NUMBERS PRECEDING BALLOONS DENOTES QUANTITY
6. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1014047
7. FILL WITH FIND NO. 16 PER ND 1002183
8. BOND FIND NO. 15&17 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
9. SOLDER PER MIL-S-6872
10. POTTING TO BE $^{+.005}_{-.015}$ OF SURFACES OF FIND NO. 2

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
3	1014472-7A	BAND, MARKER CABLE	17
AR	1006904	EPOXY RESIN	16
1	1014472-7	BAND, MARKER CABLE	15
AR	MIL-W-16878/4 TYPE E 22 WHT	WIRE, ELEC	14
AR	MIL-W-16878/4 TYPE E 22 BLK	WIRE, ELEC	13
3	1006672	CONNECTOR, PLUG	12
8	MS39056-6	BUSHING	11
AR	SEE NOTE 3	SLEEVING	10
AR	SEE NOTE 3	SLEEVING	9
480	1010380	INSULATOR BUSHING, FEMALE	8
480	1010379-1	CONTACT, ELECTRICAL FEMALE	7
16	1014032	RECEPTACLE, INDEXING	6
16	1006997	WASHER, PLAIN FLAT	5
16	MS35337-79	WASHER, LOCK	4
16	1006998-1	SCREW, CAPTIVE	3
8	1014000-4	FRAME, MODULE	2
8	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 12 Aug 63
CHECKED 13 Sept 63
APPROVAL 18 Sept 63
APPROVAL 9/30/63
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W3
COMPUTER TEST SET

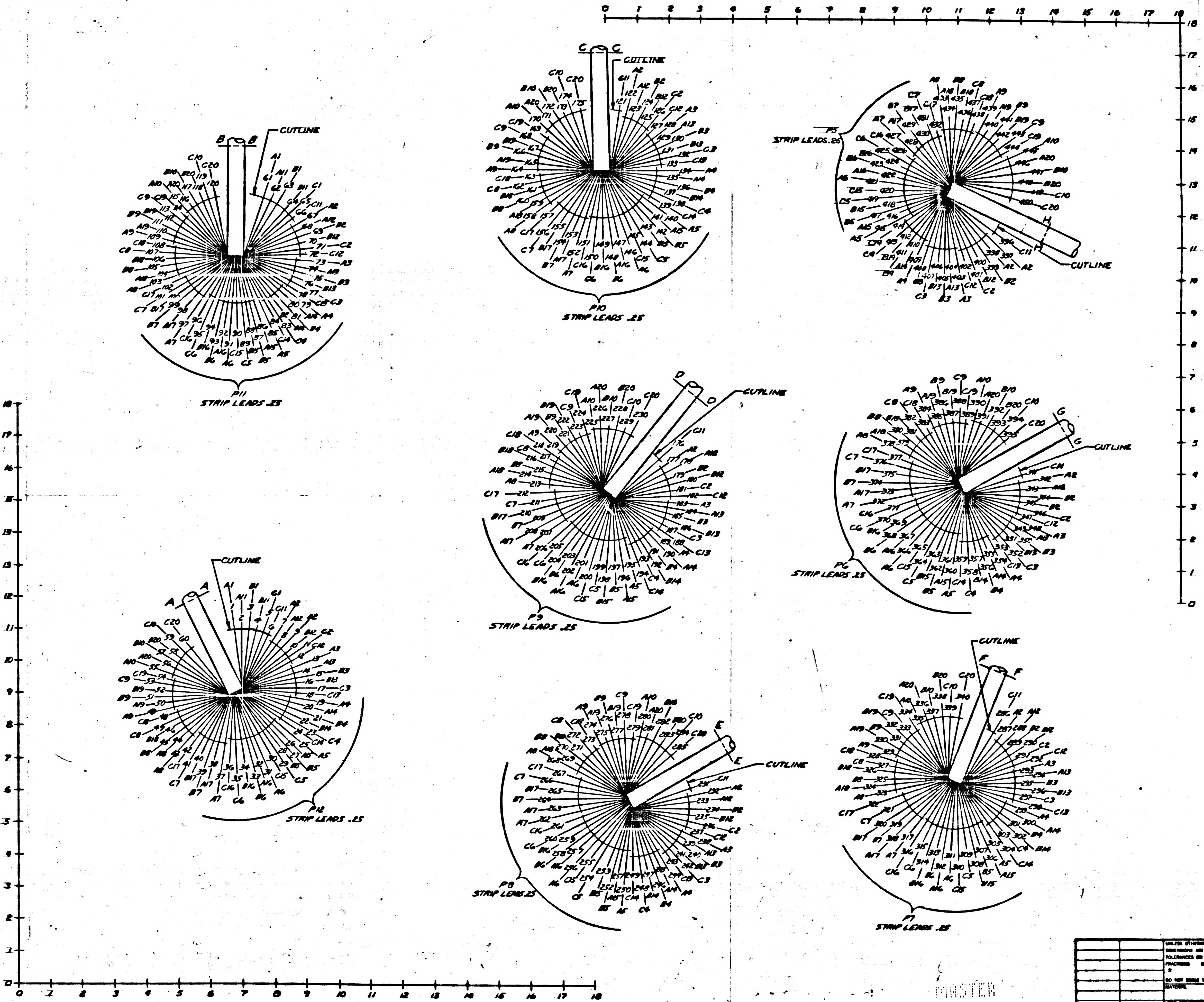
CODE IDENT NO. —
SIZE J
NASA DRAWING NO. 1014489
SCALE 1/1
WT
SHEET 1 OF 6

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014489

1014489

SYM	ZONE	DESCRIPTION	DATE	APPROVAL
–		CLASS B RELEASED PER TDRR		
A		CHANGED PER TDRR 06451 DR. [illegible] CHK. [illegible] APPD [illegible]	[illegible]	



CUTLINE
B
P11
STRIP LEADS .25
C
P10
STRIP LEADS .25
H
P5
STRIP LEADS .25
D
P9
STRIP LEADS .25
G
P6
STRIP LEADS .25
A
P12
STRIP LEADS .25
E
P8
STRIP LEADS .25
F
P7
STRIP LEADS .25
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18

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 02P25 DATE 10/10/62

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
DRAWN [illegible] DATE [illegible]
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
NET APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

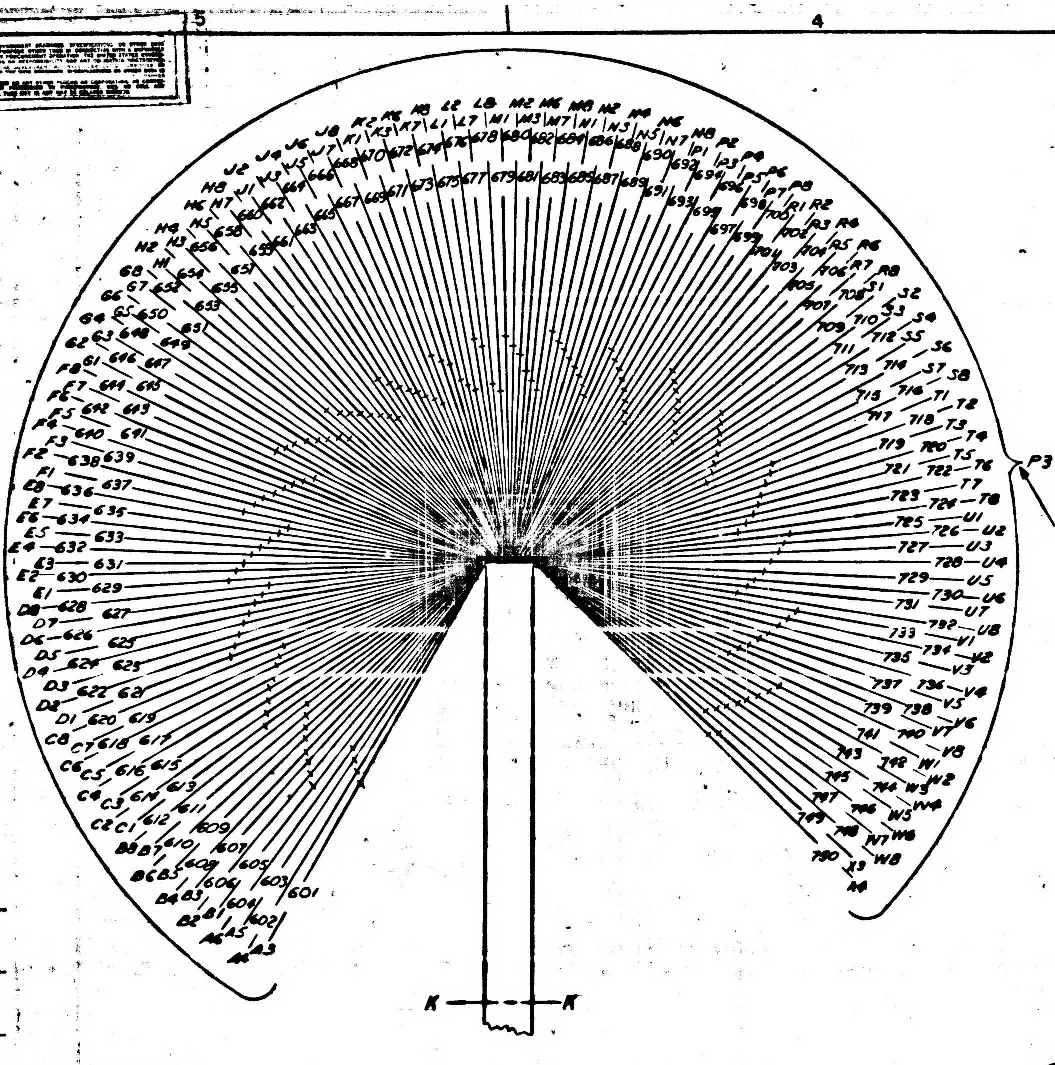
CABLE ASSEMBLY
W3
COMPUTER TEST SET

CODE IDENT NO.
SIZE J
DRAWING NO. 1014489
SCALE 1/1
SHEET

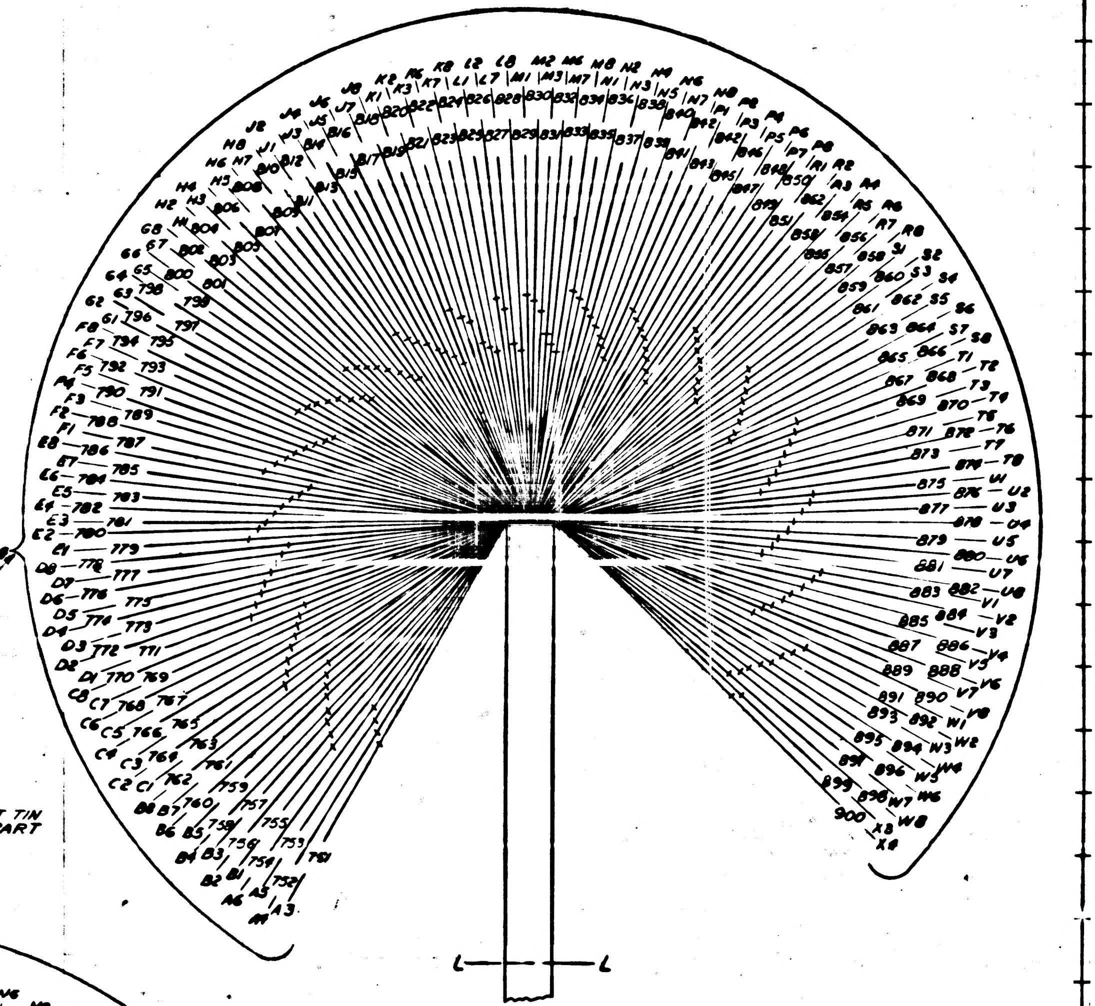
1014489
1014489

1014489

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
[illegible]	[illegible]	[illegible]	

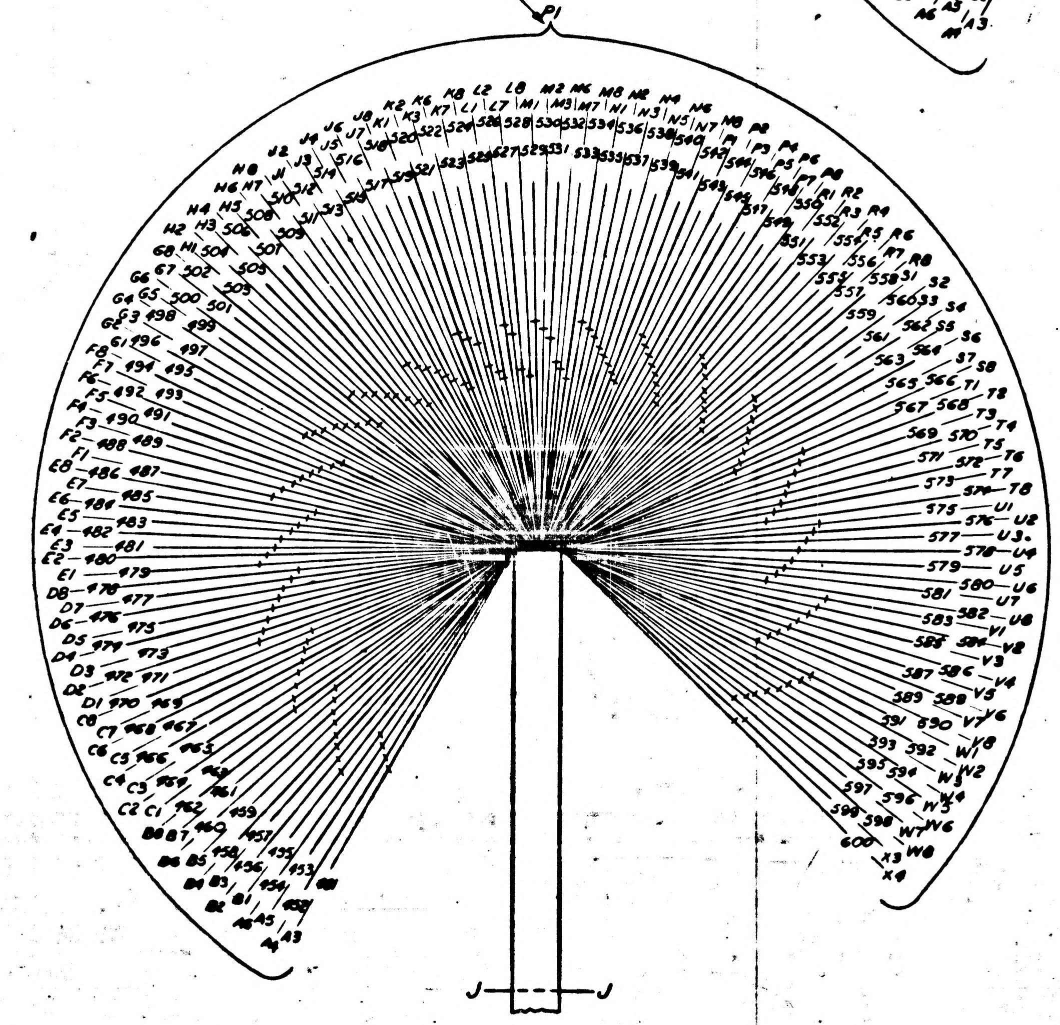


STRIP LEADS .19 DO NOT TIN ATTACH CRIMP PINS, PART OF FIND NO. 12



STRIP LEADS .19 DO NOT TIN, ATTACH CRIMP PINS, PART OF FIND NO. 12

STRIP LEADS .19 DO NOT TIN ATTACH CRIMP PINS PART OF FIND NO.12



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03P35 DATE 11/10/63

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL C. [illegible] 16 Sept 63
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
UNIT APPROVAL [illegible]
UNIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W3
COMPUTER TEST SET

CODE IDENT NO. —— SIZE J DWG NO. 1014489
SCALE 1/1 WT SHEET 2 OF 6

1014489

1014489

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	55	BLACK	22	13	898	
	897				56	
	57				896	
	895				58	
	59				894	
	893				60	
	115				892	
	891				116	
	117				890	
	870				118	
	119				830	
	850				120	
	170				810	
	779				171	
	172				790	
	748				173	
	174				747	
	746				175	
	225				745	
	744				226	
	227				743	
	742				228	
	229				741	
	740				230	
	280				720	
	700				281	
	282				680	
	660				283	
	284				640	
	620				285	
	335				591	
	547				336	
	337				546	
	545				338	
	339				544	
	543				340	
	390				542	
	541				391	
	392				540	
	539				393	
	394				538	
	537				395	
	445				536	
	535				446	
	447				534	
	533				448	
	449				532	
	531	BLACK	22	13	450	
	1	WHITE	22	14	900	
	899				2	
	3				889	
	888				4	
	5				887	
	886				6	
	7				885	
	884				8	
	9				883	
	882				10	
	11				881	
	880				12	
	13				879	
	878				14	
	15				877	
	876				16	
	17				875	
	874				18	
	19				873	
	872				20	
	21				871	
	869				22	
	23				868	
	867				24	
	25				866	
	865				26	
	27				864	
	863				28	
	29				862	
	861				30	
	31				860	
	858	WHITE	22	14	32	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	33	WHITE	22	14	857	
	856				34	
	35				855	
	854				36	
	37				853	
	852				38	
	39				851	
	849				40	
	41				848	
	847				42	
	43				846	
	845				44	
	45				844	
	843				46	
	47				842	
	841				48	
	49				840	
	839				50	
	51				838	
	837				52	
	53				836	
	835				54	
	61				834	
	833				62	
	63				832	
	831				64	
	65				859	
	829				66	
	67				828	
	827				68	
	69				826	
	825				70	
	71				824	
	823				72	
	73				822	
	821				74	
	75				820	
	819				76	
	77				818	
	817				78	
	79				816	
	815				80	
	81				814	
	813				82	
	83				812	
	811				84	
	85				809	
	808				86	
	87				807	
	806				88	
	89				805	
	804				90	
	91				803	
	802				92	
	93				801	
	800				94	
	95				798	
	797				96	
	97				796	
	795				98	
	99				794	
	793				100	
	101				792	
	791				102	
	103				789	
	788				104	
	105				787	
	786				106	
	107				785	
	784				108	
	109				783	
	782				110	
	111				781	
	780				112	
	113				779	
	778				114	
	121				777	
	776				122	
	123				775	
	774	WHITE	22	14	124	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	125	WHITE	22	14	773	
	772				126	
	127				771	
	799				128	
	129				769	
	768				130	
	131				767	
	766				132	
	133				765	
	764				134	
	135				763	
	762				136	
	137				761	
	760				138	
	139				759	
	758				140	
	141				757	
	756				142	
	143				755	
	754				144	
	145				753	
	752				146	
	147				751	
	750				148	
	149				749	
	739				150	
	151				738	
	737				152	
	153				736	
	735				154	
	155				734	
	733				156	
	157				732	
	731				158	
	159				730	
	729				160	
	161				728	
	727				162	
	163				726	
	725				164	
	165				724	
	723				166	
	167				722	
	721				168	
	169				719	
	718				176	
	177				717	
	716				178	
	179				715	
	714				180	
	181				713	
	712				182	
	183				711	
	710				184	
	185				709	
	708				186	
	187				707	
	706				188	
	189				705	
	704				190	
	191				703	
	702				192	
	193				701	
	699				194	
	195				698	
	697				196	
	197				696	
	695				198	
	199				694	
	693				200	
	201				692	
	691				202	
	203				690	
	689				204	
	205				688	
	687				206	
	207				686	
	685				208	
	209				684	
	683	WHITE	22	14	210	

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
-	CLASS B RELEASED PER T		

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. DATE 10/10/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 8-12-63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W3
COMPUTER TEST SET

CODE IDENT NO. ——
SIZE J
NASA DRAWING NO. 1014489
SCALE NONE
WT
SHEET

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014489

REVISIONS			
SYM	DESCRIPTION	DATE	APPROV
–	CLASS B RELEASED PER TDRR 33833		

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	211	WHITE	22	14	682	
	681				212	
	213				679	
	678				214	
	215				677	
	676				216	
	674				218	
	219				673	
	672				220	
	221				671	
	670				222	
	223				669	
	668				224	
	231				667	
	666				232	
	233				665	
	664				234	
	235				663	
	662				236	
	237				661	
	659				238	
	239				658	
	657				240	
	241				656	
	655				242	
	243				654	
	653				244	
	245				652	
	651				246	
	247				650	
	649				248	
	249				648	
	647				250	
	251				646	
	645				252	
	253				644	
	643				254	
	255				642	
	641				256	
	257				639	
	638				258	
	259				637	
	636				260	
	261				635	
	634				262	
	263				633	
	632				264	
	265				631	
	630				266	
	267				629	
	628				268	
	269				627	
	626				270	
	271				625	
	624				272	
	273				623	
	622				274	
	275				621	
	619				276	
	277				618	
	617				278	
	279				616	
	615				286.	
	287				614	
	613				288	
	289				612	
	611				290	
	291				610	
	609				292	
	293				608	
	607				294	
	295				606	
	605				296	
	297				604	
	603				298	
	299				602	
	601				300	
	301				600	
	599				302	
	217	WHITE	22	14	675	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	303	WHITE	22	14	598	
	597				304	
	305				596	
	595				306	
	307				594	
	593				308	
	309				592	
	590				310	
	311				589	
	588				312	
	313				587	
	586				314	
	315				585	
	584				316	
	317				583	
	582				318	
	319				581	
	580				320	
	321				579	
	578				322	
	323				577	
	576				324	
	325				575	
	574				326	
	327				573	
	572				328	
	329				571	
	570				330	
	331				569	
	568				332	
	333				567	
	566				334	
	341				565	
	564				342	
	343				563	
	562				344	
	345				561	
	560				346	
	347				559	
	558				348	
	349				557	
	556				350	
	351				555	
	554				352	
	353				553	
	552				354	
	355				551	
	550				356	
	357				549	
	548				358	
	359				530	
	529				360	
	361				528	
	527				362	
	363				526	
	525				364	
	365				524	
	523				366	
	367				522	
	521				368	
	369				520	
	519				370	
	371				518	
	517				372	
	373				516	
	515				374	
	375				514	
	513				376	
	377				512	
	511				378	
	379				510	
	509				380	
	381				508	
	507				382	
	383				506	
	505				384	
	385				504	
	503				386	
	387				502	
	501	WHITE	22	14	388	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	389	WHITE	22	14	500	
	499				396	
	397				498	
	497				398	
	399				496	
	495				400	
	401				494	
	493				402	
	403				492	
	491				404	
	405				490	
	489				406	
	407				488	
	487				408	
	409				486	
	485				410	
	411				484	
	483				412	
	413				482	
	481				414	
	415				480	
	479				416	
	417				478	
	477				418	
	419				476	
	475				420	
	421				474	
	473				422	
	423				472	
	471				424	
	425				470	
	469				426	
	427				468	
	467				428	
	429				466	
	465				430	
	431				464	
	463				432	
	433				462	
	461				434	
	435				460	
	459				436	
	437				458	
	457				438	
	439				456	
	455				440	
	441				454	
	453				442	
	443				452	
	451	WHITE	22	14	444	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 33833 DATE 10/7/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 8-13-63
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W3
COMPUTER TEST SET

CODE IDENT NO. ——
SIZE J
NASA DRAWING NO. 1014489
SCALE NONE
WT
SHEET 5 OF

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

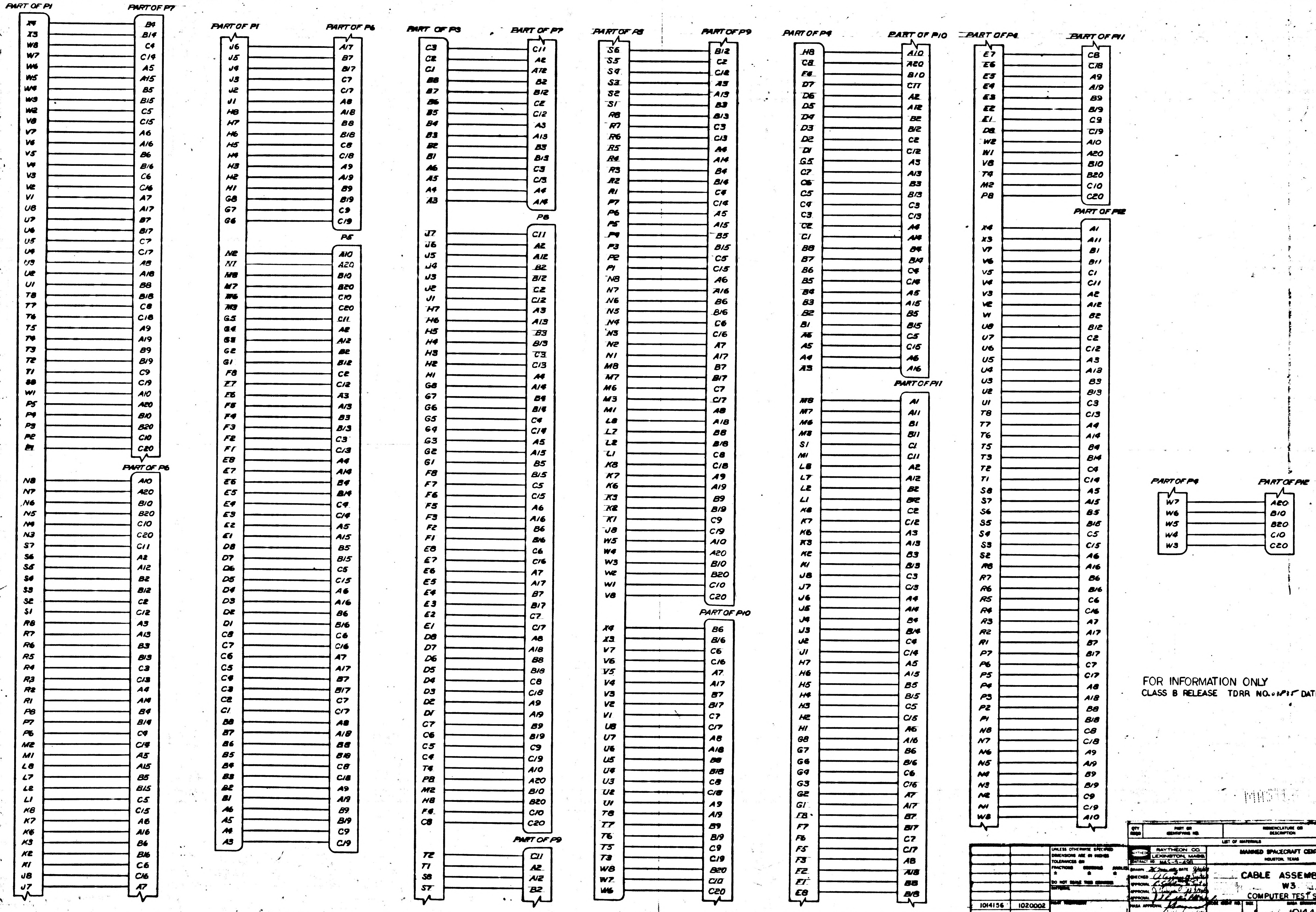
MASTER

1014489

1014489

REVISIONS

CLASS B RELEASED PER TDRR


PART OF P1
PART OF P7
PART OF P6
PART OF P1
PART OF P6
P6
PART OF P3
PART OF P7
P8
PART OF P9
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PART OF P9
PART OF P10
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PART OF P10
PART OF P11
PART OF P4
PART OF P11
PART OF P12
PART OF P4
PART OF P12

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03P35 DATE 10/10/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON

APPLICATION

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DO NOT SCALE THIS DRAWING
MATERIAL

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS-9-498
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APPROVAL
APPROVAL
NASA APPROVAL
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AMT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W3
COMPUTER TEST SET

SIZE J
NASA DRAWING NO
1014489

SCALE NONE
SHEET

1014489

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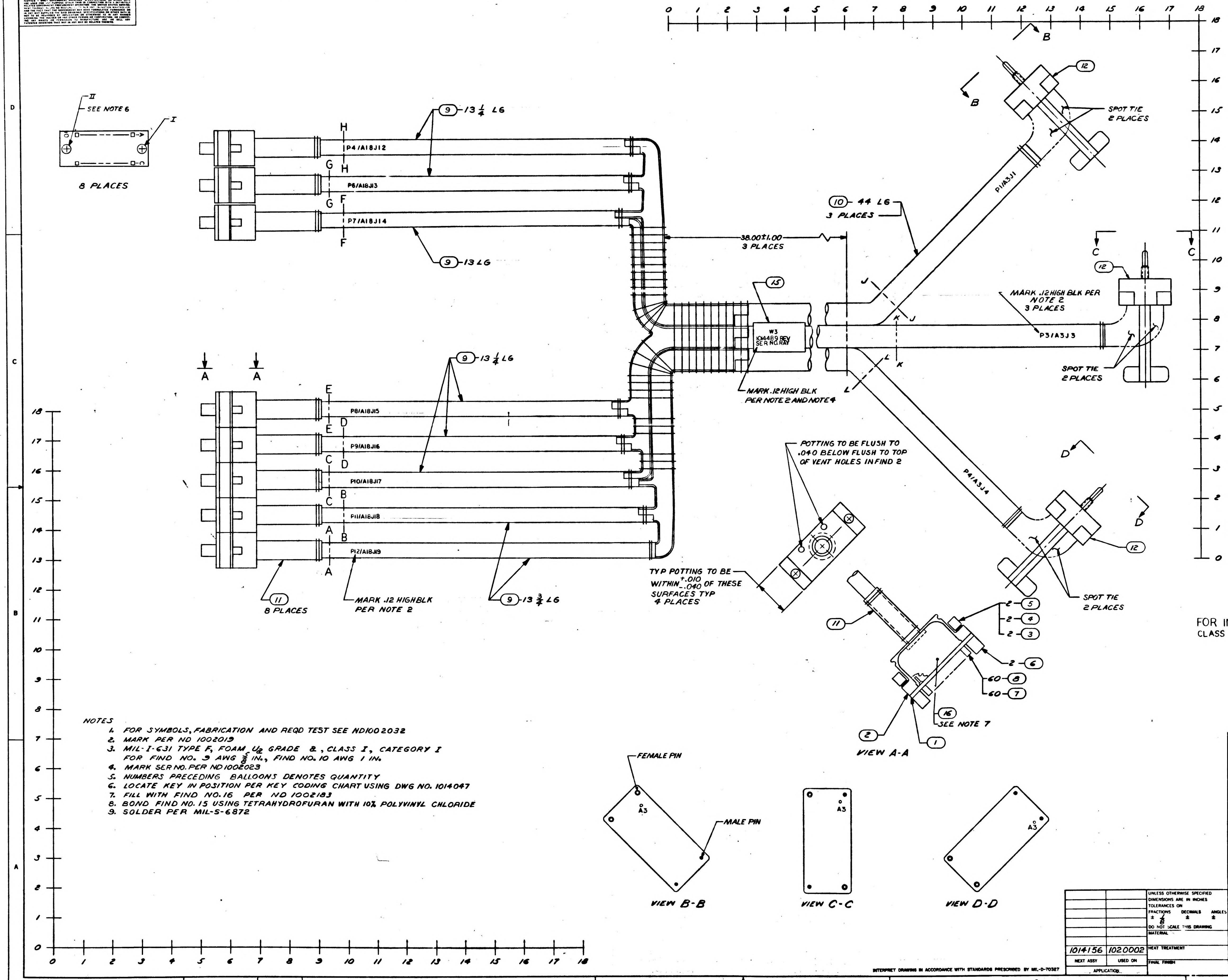
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR		

1014489



II
SEE NOTE 6
I
8 PLACES
9 -13 1/4 L6
H
G
F
P4/A18J12
P6/A18J13
P7/A18J14
9 -13 L6
38.00±1.00
3 PLACES
15
W3
1014489 REV
SER NO. RAY
10 - 44 L6
3 PLACES
P1/A3J1
12
SPOT TIE
2 PLACES
B
C
MARK .12 HIGH BLK PER NOTE 2
3 PLACES
P3/A3J3
J
K
L
MARK .12 HIGH BLK
PER NOTE 2 AND NOTE 4
A
9 -13 1/2 L6
E
D
P8/A18J15
P9/A18J16
P10/A18J17
P11/A18J18
P12/A18J19
11
8 PLACES
MARK .12 HIGH BLK
PER NOTE 2
9 -13 3/4 L6
P4/A3J4
POTTING TO BE FLUSH TO .040 BELOW FLUSH TO TOP OF VENT HOLES IN FIND 2
TYP POTTING TO BE WITHIN +.010 -.040 OF THESE SURFACES TYP 4 PLACES
2 -5
2 -4
2 -3
2 -6
60 -8
60 -7
16
SEE NOTE 7
2
1
VIEW A-A
FEMALE PIN
MALE PIN
A3
VIEW B-B
VIEW C-C
VIEW D-D

NOTES

1. FOR SYMBOLS, FABRICATION AND REQD TEST SEE ND1002032
2. MARK PER ND 1002019
3. MIL-I-631 TYPE F, FOAM U_2 GRADE A, CLASS I, CATEGORY I FOR FIND NO. 9 AWG 5/8 IN., FIND NO. 10 AWG 1 IN.
4. MARK SER NO. PER ND1002023
5. NUMBERS PRECEDING BALLOONS DENOTES QUANTITY
6. LOCATE KEY IN POSITION PER KEY CODING CHART USING DWG NO. 1014047
7. FILL WITH FIND NO.16 PER ND 1002183
8. BOND FIND NO. 15 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
9. SOLDER PER MIL-S-6872

SH 1	SH 2	SH 3	SH 4	SH 5	SH 6
—	—	—	—	—	—

REVISION STATUS OF SHEETS

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03835 DATE 10/10/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	1006904	EPOXY RESIN	16
1	1014472-6	MARKER, BAND	15
AR	ND1002181 TYPE I CL1	WIRE, ELEC AWG 22 WHT	14
AR	ND1002181 TYPE I CL1	WIRE, ELEC AWG 22 BLK	13
3	1006672	CONNECTOR, PLUG	12
8	MS39056-6	BUSHING	11
AR	SEE NOTE 3	SLEEVING	10
AR	SEE NOTE 3	SLEEVING	9
480	1010380	INSULATOR BUSHING, FEMALE	8
480	1010379-1	CONTACT, ELECTRICAL FEMALE	7
16	1014032	RECEPTACLE, INDEXING	6
16	1006997	WASHER, PLAIN FLAT	5
16	MS35337-79	WASHER, LOCK	4
16	1006998-1	SCREW, CAPTIVE	3
8	1014000-4	FRAME, MODULE	2
8	1014021	PLATE, CONNECTOR	1

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/8 DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMELY
W3
COMPUTER TEST SET

CODE IDENT NO	SIZE	NASA DRAWING NO
—	J	1014489
SCALE 1/1	WT	SHEET 1 OF 6

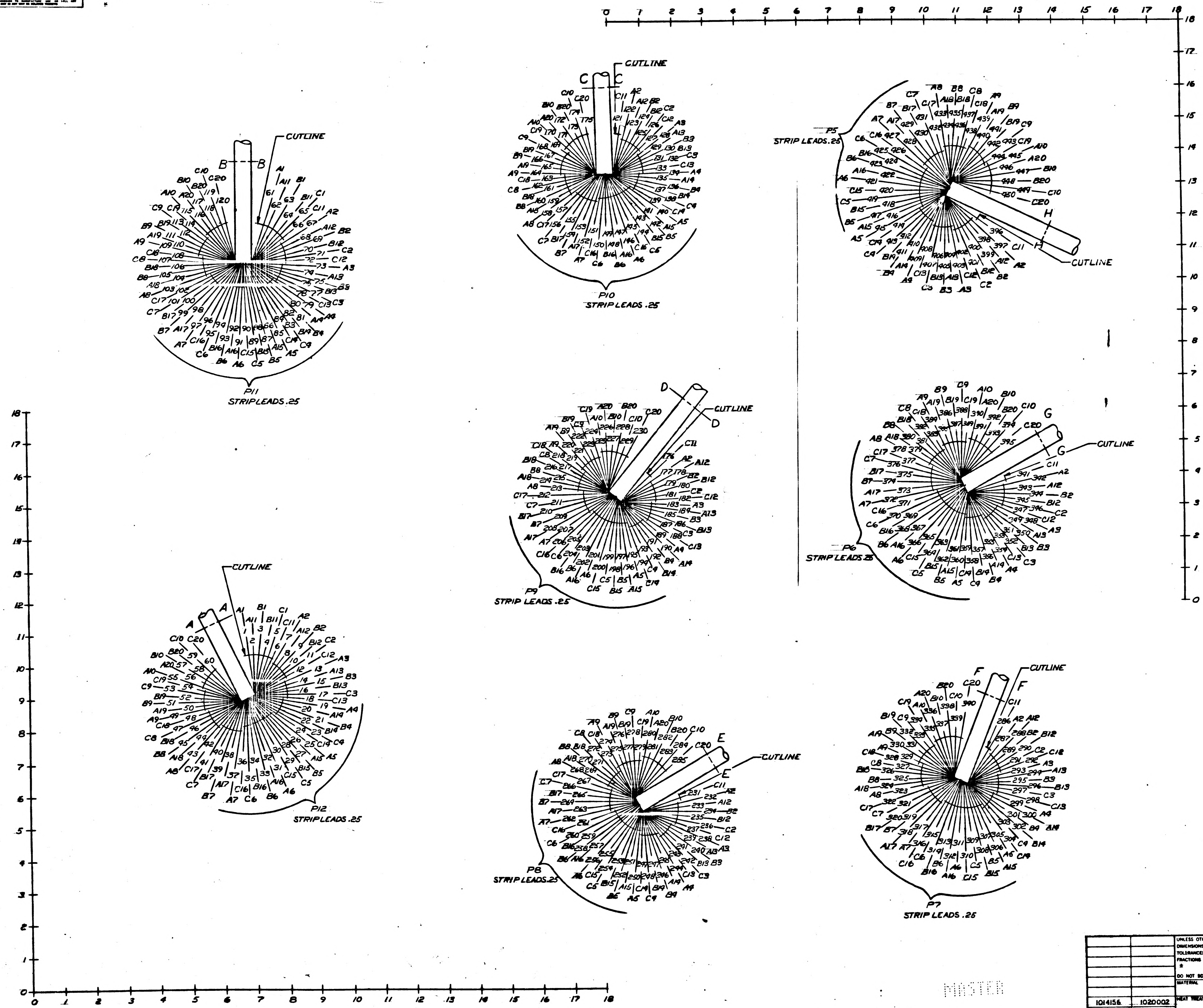
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014489

INCHES
PHOTOGRAPHIC SCALE ONLY

1014489

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR - 3P35	[illegible]	



P11
STRIP LEADS .25
P10
STRIP LEADS .25
P5
STRIP LEADS .25
P9
STRIP LEADS .25
P6
STRIP LEADS .25
P12
STRIP LEADS .25
P8
STRIP LEADS .25
P7
STRIP LEADS .25
CUTLINE
A
B
C
D
E
F
G
H

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03P35 DATE 11/10/63

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
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FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN [illegible] DATE 9/4/63
CHECKED [illegible] 19 Sept 63
APPROVAL C. Stirling 18 Sept 63
APPROVAL [illegible] 9/19/63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 9-24-63

MANNED SPACECRAFT CENTER
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W3
COMPUTER TEST SET

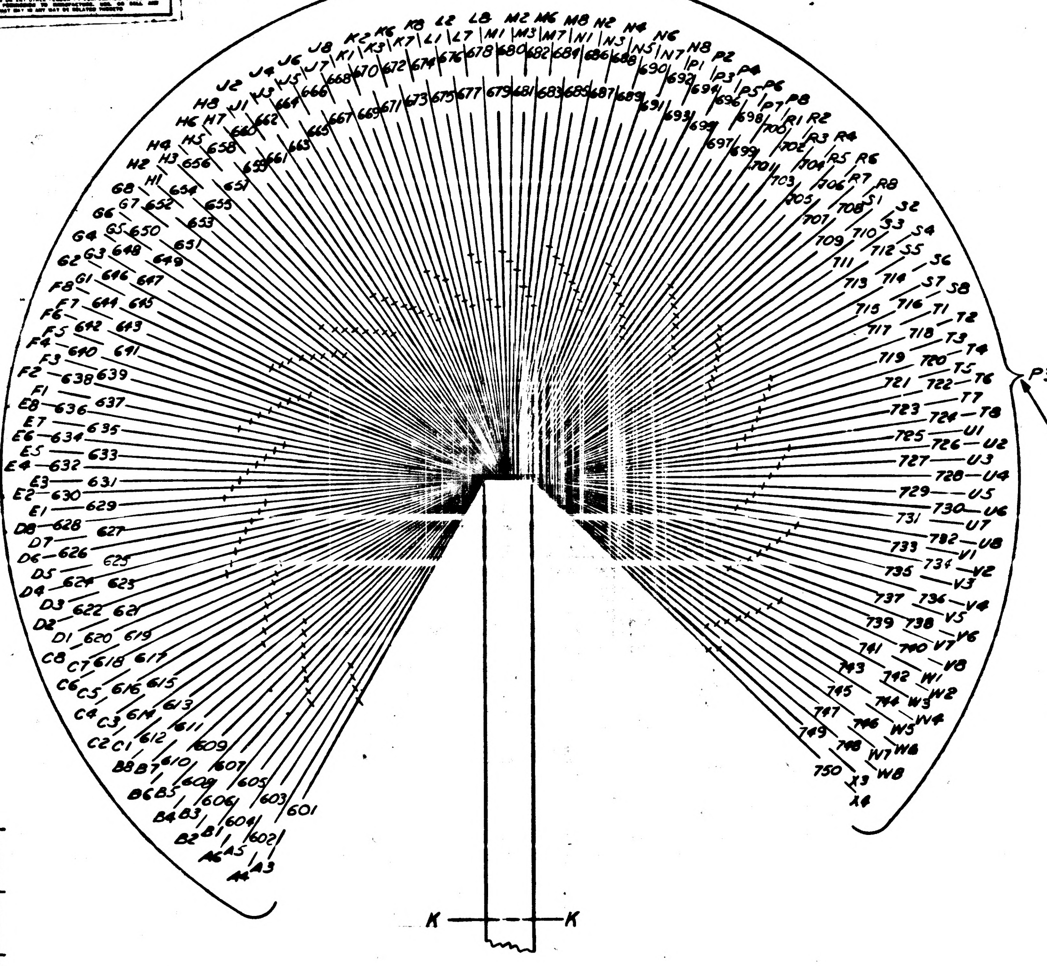
CODE IDENT NO. ———
SIZE J
NASA DRAWING NO 1014489
SCALE 1/1
WT
SHEET 8 OF 8

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

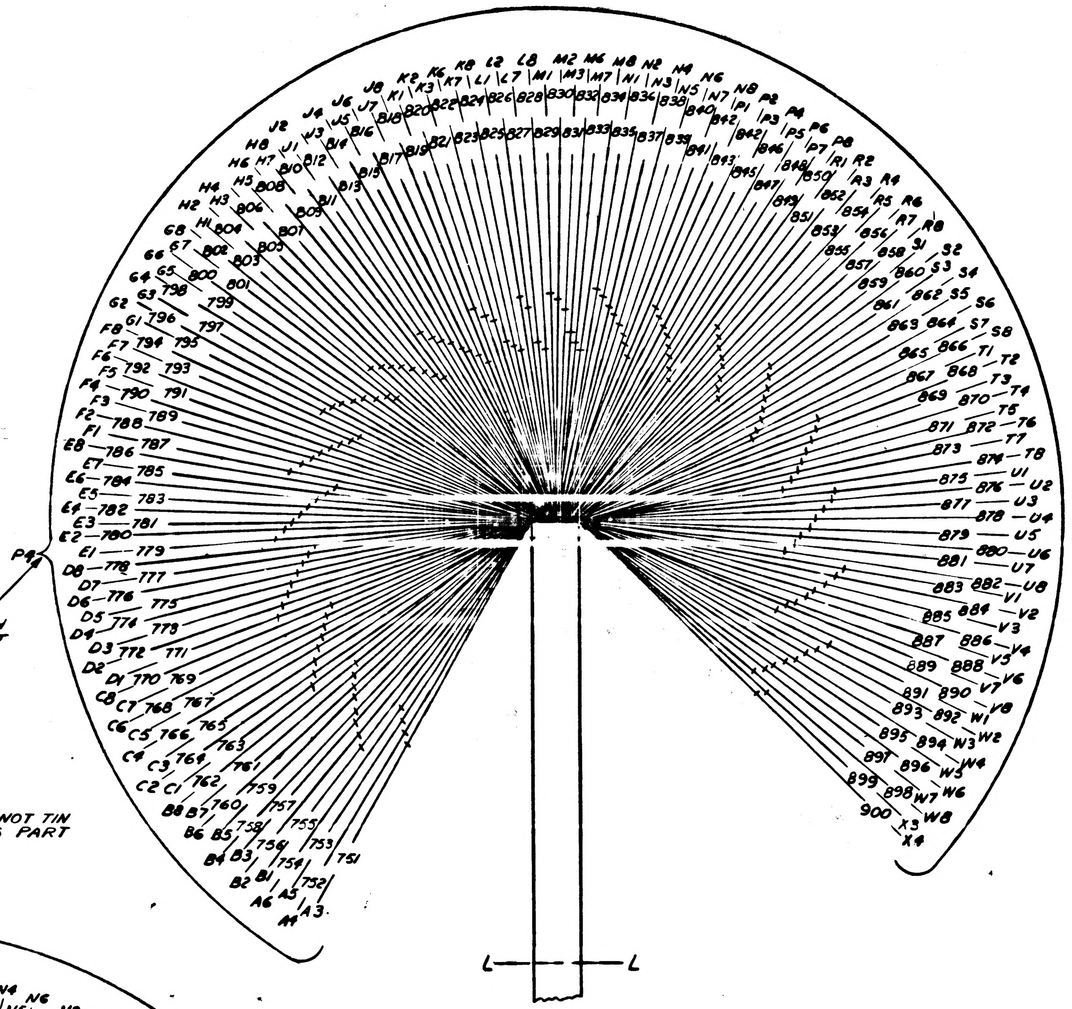
1014489

INCHES
PHOTOGRAPHIC SCALE ONLY

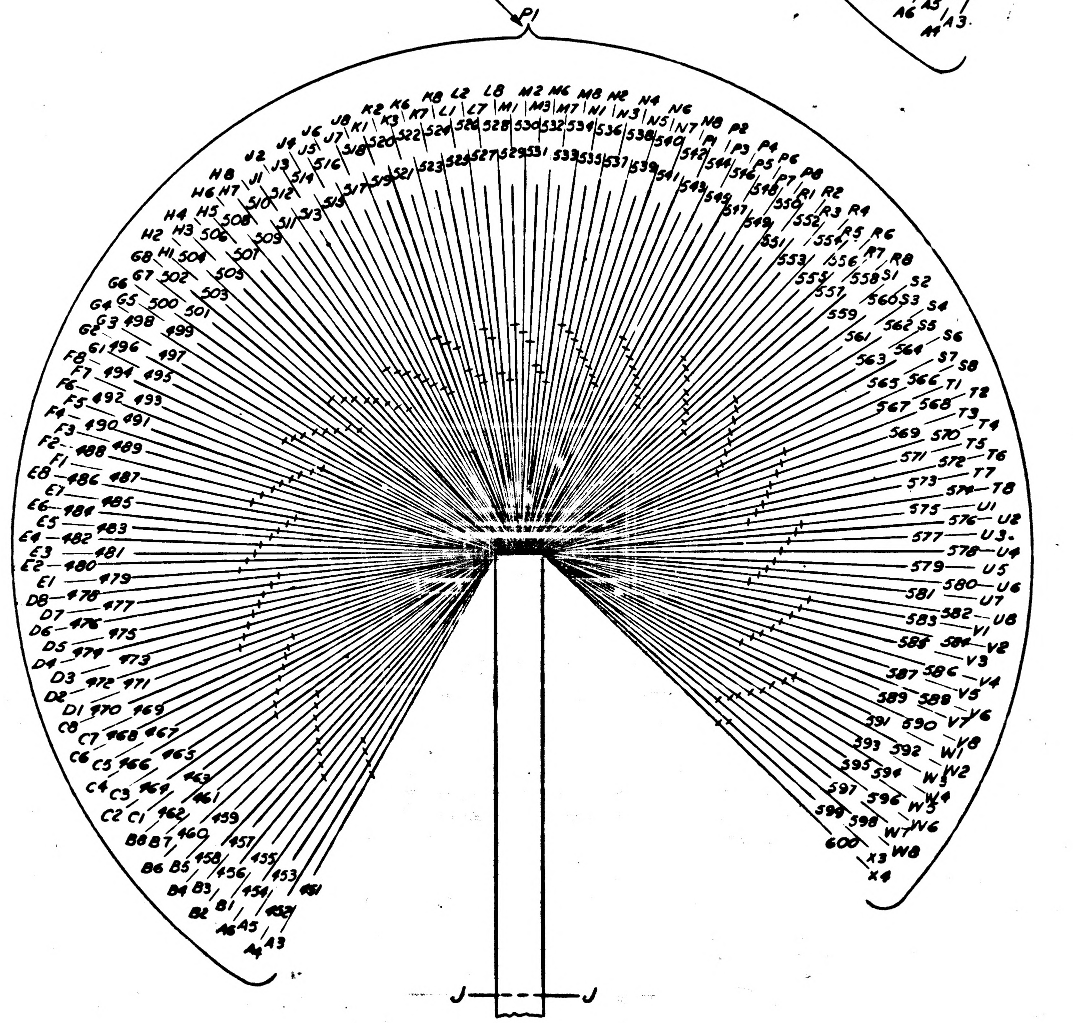
SYM	DESCRIPTION	DATE	APPROVED
–	CL B RELEASED PER TDRR 03P35	10	



STRIP LEADS .19 DO NOT TIN ATTACH CRIMP PINS, PART OF FIND NO. 12



STRIP LEADS .19 DO NOT TIN, ATTACH CRIMP PINS, PART OF FIND NO. 12



STRIP LEADS .19 DO NOT TIN ATTACH CRIMP PINS PART OF FIND NO.12

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CLASS B RELEASE TDRR NO. 03P35 DATE 10/10/63

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

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FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE [illegible]
CHECKED [illegible] 19 Sept 63
APPROVAL [illegible] 20 Sept 63
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

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W3
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CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014489
SCALE 1/1 WT SHEET 3 OF 6

INCHES
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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR [illegible]	[illegible]	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	55	BLACK	22	13	898	
	897				56	
	57				896	
	895				58	
	59				894	
	893				60	
	115				892	
	891				116	
	117				890	
	870				118	
	119				830	
	850				120	
	170				810	
	770				171	
	172				790	
	748				173	
	174				747	
	746				175	
	225				745	
	744				226	
	227				743	
	742				228	
	229				741	
	740				230	
	280				720	
	700				281	
	282				660	
	660				283	
	284				640	
	620				285	
	335				591	
	547				336	
	337				546	
	545				338	
	339				544	
	543				340	
	390				542	
	541				391	
	392				540	
	539				393	
	394				538	
	537				395	
	445				536	
	535				446	
	447				534	
	533				448	
	449				532	
	531	BLACK	22	13	450	
	1	WHITE	22	14	900	
	899				2	
	3				889	
	888				4	
	5				887	
	886				6	
	7				885	
	884				8	
	9				883	
	882				10	
	11				881	
	880				12	
	13				879	
	878				14	
	15				877	
	876				16	
	17				875	
	874				18	
	19				873	
	872				20	
	21				871	
	869				22	
	23				868	
	867				24	
	25				866	
	865				26	
	27				864	
	863				28	
	29				862	
	861				30	
	31				860	
	858	WHITE	22	14	32	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	33	WHITE	22	14	857	
	856				34	
	35				855	
	854				36	
	37				853	
	852				38	
	39				851	
	849				40	
	41				848	
	847				42	
	43				846	
	845				44	
	45				844	
	843				46	
	47				842	
	841				48	
	49				840	
	839				50	
	51				838	
	837				52	
	53				836	
	835				54	
	61				834	
	833				62	
	63				832	
	831				64	
	65				859	
	829				66	
	67				828	
	827				68	
	69				826	
	825				70	
	71				824	
	823				72	
	73				822	
	821				74	
	75				820	
	819				76	
	77				818	
	817				78	
	79				816	
	815				80	
	81				814	
	813				82	
	83				812	
	811				84	
	85				809	
	808				86	
	87				807	
	806				88	
	89				805	
	804				90.	
	91				803	
	802				92	
	93				801	
	800				94	
	95				798	
	797				96	
	97				796	
	795				98	
	99				794	
	793				100	
	101				792	
	791				102	
	103				789	
	788				104	
	105				787	
	786				106	
	107				785	
	784				108	
	109				783	
	782				110	
	111				781	
	780				112	
	113				779	
	778				114	
	121				777	
	776				122	
	123				775	
	774	WHITE	22	14	124	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	125	WHITE	22	14	773	
	772				126	
	127				771	
	799				128	
	129				76[illegible]	
	768				130	
	131				767	
	766				132	
	133				765	
	764				134	
	135				763	
	762				136	
	137				761	
	760				138	
	139				759	
	758				140	
	141				757	
	756				142	
	143				755	
	754				144	
	145				753	
	752				146	
	147				751	
	750				148	
	149				749	
	739				150	
	151				738	
	737				152	
	153				736	
	735				154	
	155				734	
	733				156	
	157				732	
	731				158	
	159				730	
	729				160	
	161				728	
	727				162	
	163				726	
	725				164	
	165				724	
	723				166	
	167				722	
	721				168	
	169				719	
	718				176	
	177				717	
	716				178	
	179				715	
	714				180	
	181				713	
	712				182	
	183				711	
	710				184	
	185				709	
	708				186	
	187				707	
	706				188	
	189				705	
	704				190	
	191				703	
	702				192	
	193				701	
	699				194	
	195				698	
	697				196	
	197				696	
	695				198	
	199				694	
	693				200	
	201				692	
	691				202	
	203				690	
	689				204	
	205				688	
	687				206	
	207				686	
	685				208	
	209				684	
	683	WHITE	22	14	210	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. [illegible] DATE [illegible]

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

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TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
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RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 8-13-63
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MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

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W3
COMPUTER TEST SET

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014489
SCALE NONE WT SHEET 4 OF 6

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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1014489

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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
–	CLASS B RELEASED PER TDRR 3323	10/15	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	211	WHITE	22	14	682	
	681				212	
	213				679	
	678				214	
	215				677	
	676				216	
	674				218	
	219				673	
	672				220	
	221				671	
	670				222	
	223				669	
	668				224	
	231				667	
	666				232	
	233				665	
	684				234	
	235				663	
	662				236	
	237				661	
	659				238	
	239				658	
	657				240	
	241				656	
	655				242	
	243				654	
	653				244	
	245				652	
	651				246	
	247				650	
	649				249	
	249				648	
	647				250	
	251				646	
	645				252	
	253				644	
	643				254	
	255				642	
	641				256	
	257				639	
	638				258	
	259				637	
	636				260	
	261				635	
	634				262	
	263				633	
	632				264	
	265				631	
	630				266	
	267				629	
	628				268	
	269				627	
	626				270	
	271				625	
	624				272	
	273				623	
	622				274	
	275				621	
	619				276	
	277				618	
	617				278	
	279				616	
	615				286	
	287				614	
	613				288	
	289				612	
	611				290	
	291				610	
	609				292	
	293				608	
	607				294	
	295				606	
	605				296	
	297				604	
	603				298	
	299				602	
	601				300	
	301				600	
	599				302	
	217	WHITE	22	14	675	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	303	WHITE	22	14	598	
	597				304	
	305				596	
	595				306	
	30				594	
	593				308	
	309				592	
	590				310	
	311				589	
	588				312	
	313				587	
	586				314	
	315				585	
	584				316	
	317				583	
	582				318	
	319				581	
	580				320	
	321				579	
	578				322	
	323				577	
	576				324	
	325				575	
	574				326	
	327				573	
	572				328	
	329				571	
	570				330	
	331				569	
	568				332	
	333				567	
	566				334	
	341				565	
	564				342	
	343				563	
	562				344	
	345				561	
	560				346	
	347				559	
	558				348	
	349				557	
	556				350	
	351				555	
	554				352	
	353				553	
	552				354	
	355				551	
	550				356	
	357				549	
	548				358	
	359				530	
	529				360	
	361				528	
	527				362	
	363				526	
	525				364	
	365				524	
	523				366	
	367				522	
	521				368	
	369				520	
	519				370	
	371				518	
	517				372	
	373				516	
	515				374	
	375				514	
	513				376	
	377				512	
	511				378	
	379				510	
	509				380	
	381				508	
	507				382	
	383				506	
	505				384	
	385				504	
	503				386	
	387				502	
	501	WHITE	22	14	388	

ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	389	WHITE	22	14	500	
	499				396	
	397				498	
	497				398	
	399				496	
	495				400	
	401				494	
	493				402	
	403				492	
	491				404	
	405				490	
	489				406	
	407				488	
	487				408	
	409				486	
	485				410	
	411				484	
	483				412	
	413				482	
	481				414	
	415				480	
	479				416	
	417				478	
	477				418	
	419				476	
	475				420	
	421				474	
	473				422	
	423				472	
	471				424	
	425				470	
	469				426	
	427				468	
	467				428	
	429				466	
	465				430	
	431				464	
	463				432	
	433				462	
	461				434	
	435				460	
	459				436	
	437				458	
	457				438	
	439				456	
	455				440	
	441				454	
	453				442	
	443				452	
	451	WHITE	22	14	444	

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 3323 DATE 10/14/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
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MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE 8-13-63
CHECKED 9 Sept 63
APPROVAL 9 Sept 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 9 Oct 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

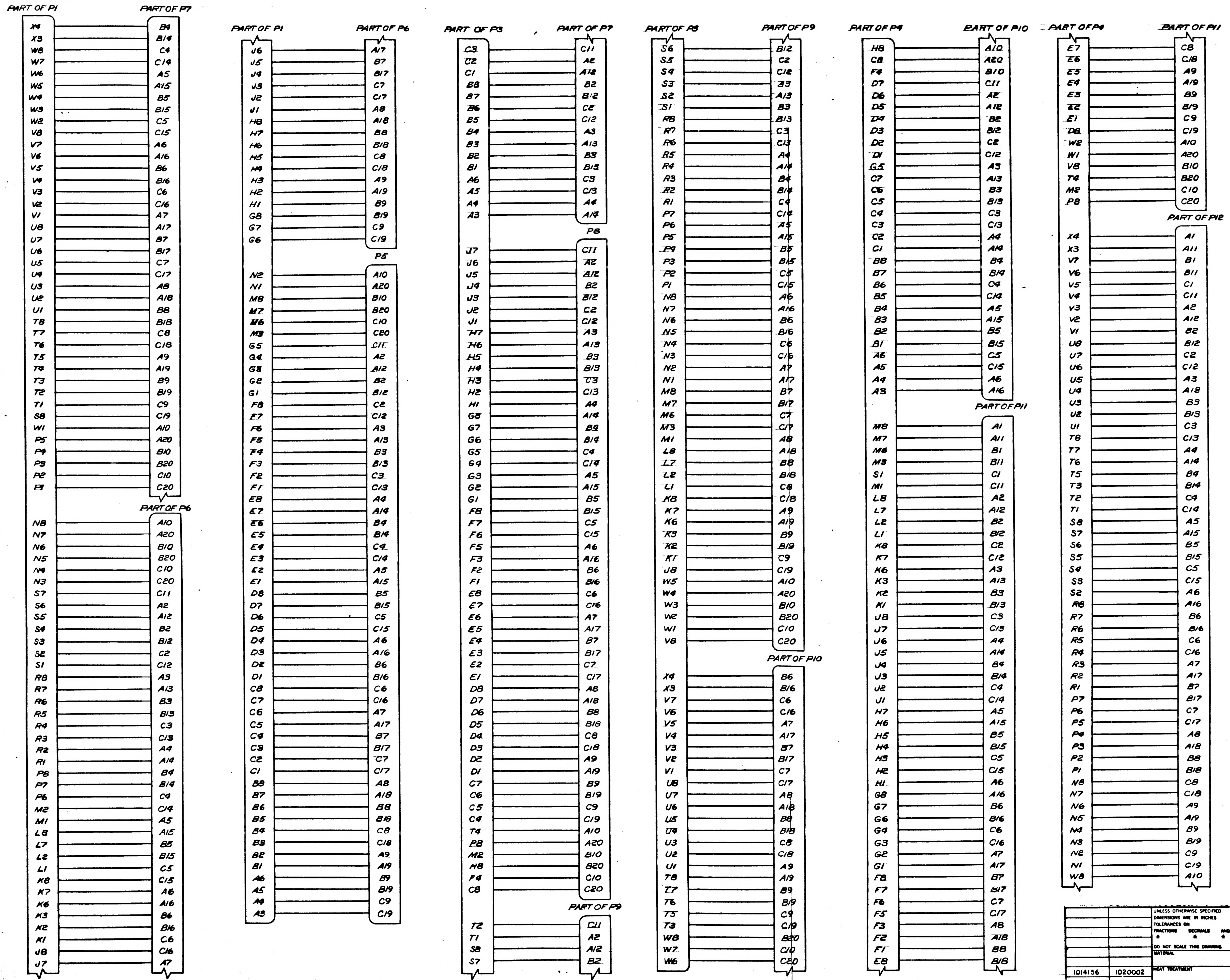
CABLE ASSEMBLY
W3
COMPUTER TEST SET

CODE IDENT NO. ——
SIZE J
NASA DRAWING NO 1014489
SCALE NONE WT
SHEET 5 OF 6

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

1014489

SYM	DESCRIPTION	DATE	APPROVED
	CLASS B RELEASED PER TDRR		


PART OF P1
PART OF P7
PART OF P6
PART OF P1
PART OF P6
P5
PART OF P3
PART OF P7
P8
PART OF P9
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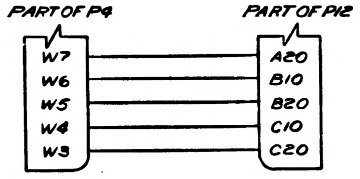
PART OF P9
PART OF P10
PART OF P4
PART OF P10
PART OF P11
PART OF P4
PART OF P11
PART OF P12


PART OF P4
PART OF P12
W7
W6
W5
W4
W3
A20
B10
B20
C10
C20

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03P35 DATE 10/1/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS-9-498
DRAWN DATE 9/4/63
CHECKED 19 Sept 63
APPROVAL 20 Sept 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL 9/26/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W3
COMPUTER TEST SET

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014489
SCALE NONE WT SHEET OF 6

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
PHOTOGRAPHIC SCALE ONLY

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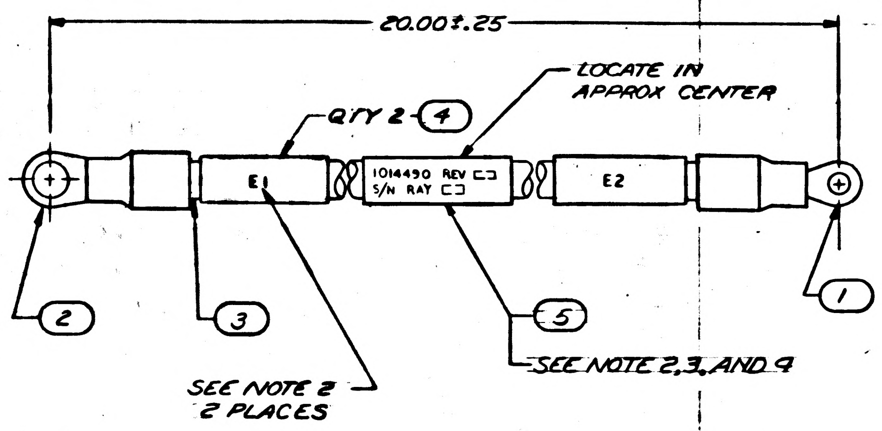
REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 03430	26 Aug 63	
A	CL II CHANGE PER RD R-5790 DR K Matty CHK APPD	11 FEB 64	JJB
B	CHANGED PER TDRR NO. 06761 DR CHK APPD	10 MAR 64	KCB



FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 03430 DATE 26 Aug 63

NOTES

1. FOR SYMBOLS, FABRICATION & REQD TESTS SEE ND 1002032
2. MARK .08 HIGH BLACK CHARACTERS PER ND 1002019
3. SERILIZE PER ND1002023
4. BOND FIND NUMBERS 4 AND 5 USING, TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1019472-2	BAND.MARER, CABLE	5
2	1014472-2A	BAND. MARKER, CABLE	4
AR	MS 25190-B-2	WIRE ELECTRIC	3
1	MS 25036-27	TERMINAL, LUG, CRIMP STYLE	2
1	MS 25036-26	TERMINAL, LUG, CRIMP STYLE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN A. Vorce DATE 19 AUG 63
CHECKED 4 Sept 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 9/21/63
MIT APPROVAL 9/25/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE, GROUND

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1014490
SCALE 1/1
WT
SHEET 1 OF 1

1014490

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

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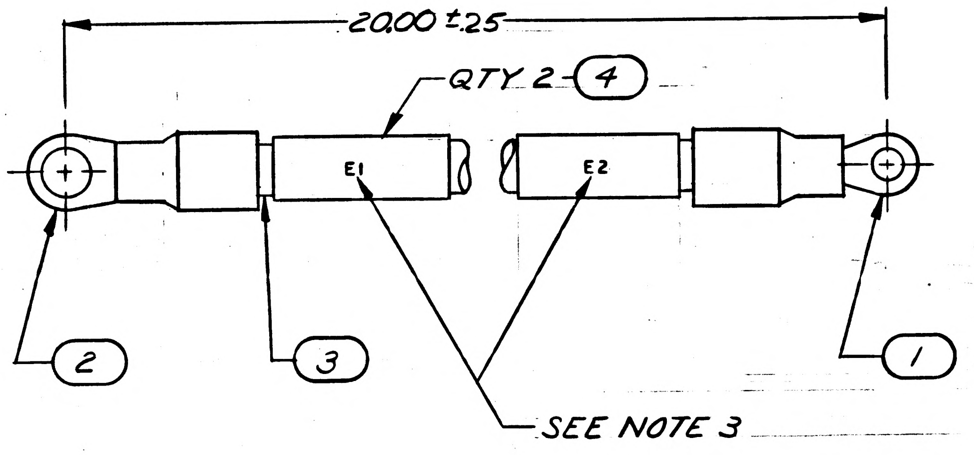
ANY USE OF THIS DOCUMENT FOR OTHER THAN GOVERNMENTAL PURPOSES IS SUBJECT TO PRIOR WRITTEN CONSENT OF RAYTHEON CO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 03430	26 Sep 63	



FOR INFORMATION ONLY

CLASS B RELEASE TDRR NO. 03430 DATE 26 Sep 63

NOTES
1. FOR SYMBOLS, FABRICATION & REQD TESTS SEE ND 1002032
2. MARK .08 HIGH BLACK CHARACTERS PER ND 1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2	1014472-1	BAND MARKER, CABLE	4
AR	MS 25190-B-2	WIRE ELECTRIC	3
1	MS 25036-27	TERMINAL, LUG, CRIMP STYLE	2
1	MS 25036-26	TERMINAL, LUG, CRIMP STYLE	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN a. Vorce DATE 19 AUG 63
CHECKED David Conley 4 Sept 63
APPROVAL C Sperling JPK
APPROVAL 9-18-63
APPROVAL 9/18/63
NASA APPROVAL 9/24/63
MIT APPROVAL 9/26/63
MIT APPROVAL 9/25/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE, GROUND

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	C	1014490

SCALE 1/1 WT SHEET 1 OF 1

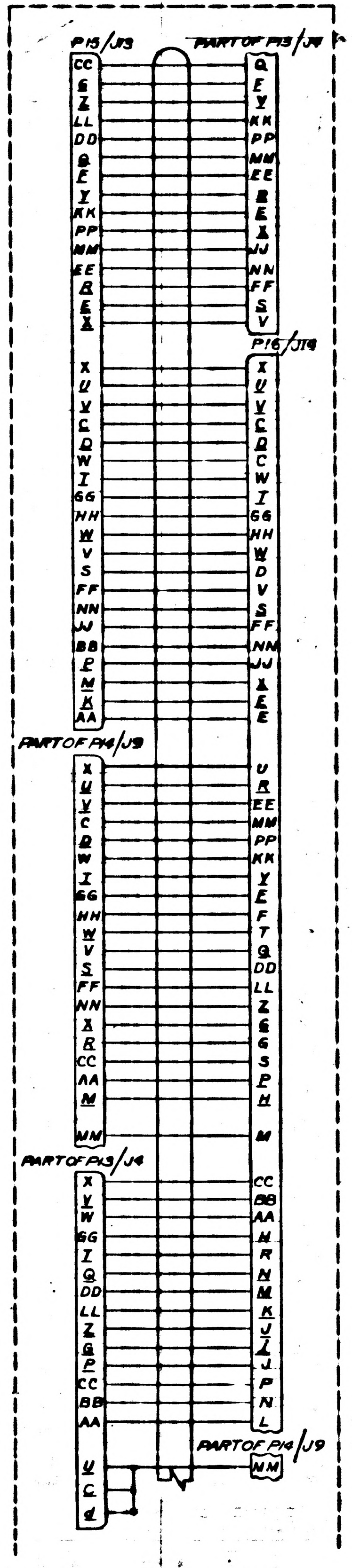
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

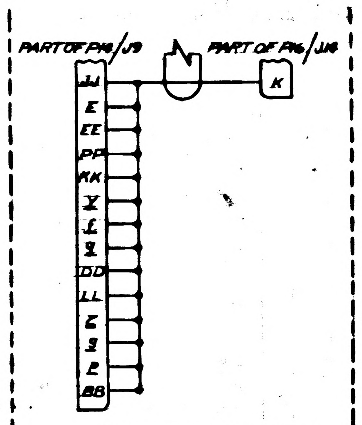
1014101

REVISIONS			
	DESCRIPTION		
–	CLASS B RELEASED PER TDRR #3[illegible]		
A	CL II CHANGE PER RDR 5610A DR [illegible] CHK [illegible] APPD [illegible]	[illegible] 63	[illegible]

ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	86	WHITE	22	10	35	
	34				87	
	88				33	
	32				89	
	90				31	
	30				91	
	92				29	
	28				93	
	94				27	
	26				95	
	96				25	
	24				97	
	98				23	
	22				99	
	100				21	
	20				101	
	102				19	
	18				103	
	104				17	
	16				105	
	106				56	
	55				107	
	108				54	
	53				109	
	110				52	
	51				111	
	112				50	
	49				113	
	114				48	
	47				115	
	116				46	
	45				117	
	118				44	
	43				119	
	120				42	
	41				121	
	122				40	
	39				123	
	127				38	
	37				139	
	140	WHITE	22	10	36	
	36	WHITE	24	12	85A	
	85	WHITE	22	10	124	
	125				84	
	83				126	
	128				82	
	81				129	
	130				80	
	79				131	
	132				78	
	77				133	
	134				76	
	75				135	
	136				74	
	73				137	
	138				72	
	71				15	
	14				70	
	69				13	
	12				68	
	67				11	
	10				66	
	65				9	
	8				64	
	63				7	
	6				62	
	61				5	
	4				60	
	59				3	
	2	WHITE	22	10	58	
	57	WHITE	24	12	1	


P15/J13
PART OF P13/J4
CC G Z LL DD Q E Y KK PP MM EE R E X X U V C D W I GG HH W V S FF NN JJ BB P M K AA
Q E Y KK PP MM EE R E X JJ NN FF S V
P16/J14
X U V C D C W I GG HH W D V S FF NN JJ X E E
PART OF P14/J9
X U V C D W I GG HH W V S FF NN X R CC AA M MM
U R EE MM PP KK Y E F T Q DD LL Z G G S P H M
PART OF P13/J4
X V W GG I Q DD LL Z G P CC BB AA U C d
CC BB AA H R N M K J J J P N L
PART OF P14/J9
NM

JUMPER LIST			
FROM	TO	LENGTH	FIND NO.
P13-U	P13-C	2.25	12
P13-C	P13-D		
P14-JJ(RUN NO.37)	P14-E		
P14-E	P14-EE		
P14-EE	P14-PP		
P14-PP	P14-KK		
P14-KK	P14-Y		
P14-Y	P14-F		
P14-F	P14-Q		
P14-Q	P14-DD		
P14-DD	P14-LL		
P14-LL	P14-Z		
P14-Z	P14-G		
P14-G	P14-P		
P14-P	P14-BB	2.25	12


PART OF P14/J9
PART OF P16/J14
JJ
E
EE
PP
KK
Y
F
Q
DD
LL
Z
G
P
BB
K

ELECTRICAL SCHEMATIC

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 0350[illegible] DATE [illegible]/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	
LIST OF MATERIALS			

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE 8-29-[illegible]
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

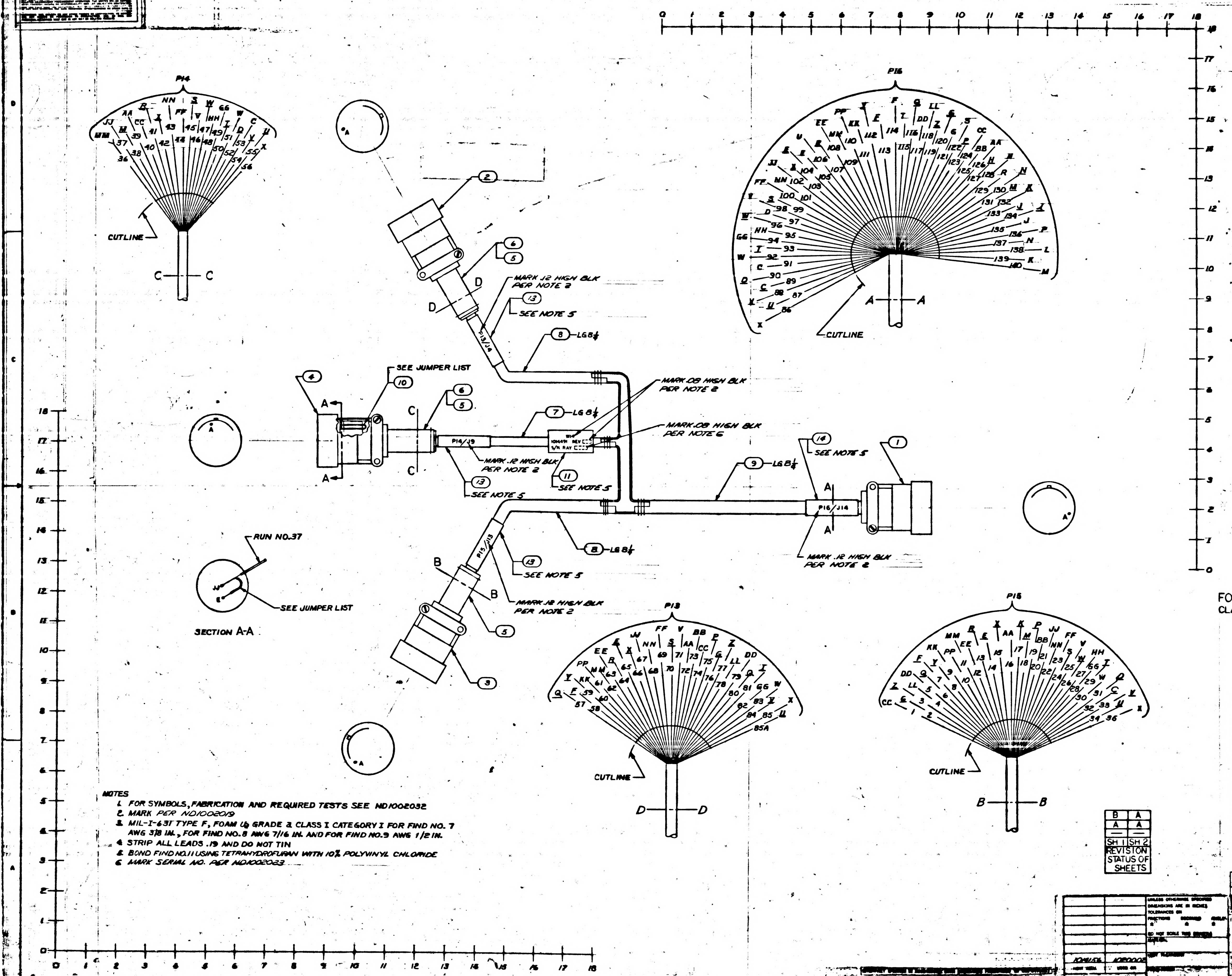
CABLE ASSEMBLY
W14, TEST CABLE
COMPUTER TEST SET

J 1014491
SCALE [illegible]

1014491

1014491

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR [illegible]		
A	CL II CHANGE PER RD R5610A DR [illegible] CHK W. J. [illegible] APPD [illegible]	27 DEC 63	[illegible]
B	CHANGED PER TDRR NO. 06952 DR. R.D. [illegible] CHK J.J. APPD [illegible]	? MAR 64	KCB


P14
CUTLINE
C — C
P16
CUTLINE
A — A
SEE JUMPER LIST
MARK .12 HIGH BLK PER NOTE 2
SEE NOTE 5
MARK .08 HIGH BLK PER NOTE 2
MARK .08 HIGH BLK PER NOTE 6
LG 8¼
P13/J14
P14/J9
P15/J13
P16/J14
WM 1014491 REV S/N RAY
RUN NO.37
SEE JUMPER LIST
SECTION A-A
P13
CUTLINE
D — D
P15
CUTLINE
B — B
A
B
C
D

NOTES
1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032
2. MARK PER ND1002019
3. MIL-I-631 TYPE F, FOAM U, GRADE A CLASS I CATEGORY I FOR FIND NO. 7 AWG 3/8 IN., FOR FIND NO. 8 AWG 7/16 IN. AND FOR FIND NO. 9 AWG 1/2 IN.
4. STRIP ALL LEADS .19 AND DO NOT TIN
5. BOND FIND NO. 11 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
6. MARK SERIAL NO. PER ND1002023

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. [illegible] DATE [illegible]

B	A
A	A
—	—
SH 1	SH 2

REVISION STATUS OF SHEETS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014472-3A	BAND, MARKER, CABLE	14
3	1014472-2A	BAND, MARKER, CABLE	13
AR	MIL-W-16878/4 TYPE E, 22 WHT	WIRE, ELECTRICAL	12
1	1014472-2	BAND MARKER, CABLE	11
AR	MIL-W-16878/4 TYPE E, 22 WHT	WIRE, ELECTRICAL	10
AR	SEE NOTE 3	SLEEVING	9
AR	SEE NOTE 3	SLEEVING	8
AR	SEE NOTE 3	SLEEVING	7
2	MS39056-6	BUSHING, CABLE ADAPTER	6
3	MS39056-5	BUSHING, CABLE ADAPTER	5
1	MS3126F-24-61PZ	CONNECTOR, PLUG	4
1	MS3126F-24-61PY	CONNECTOR, PLUG	3
1	MS3126F-24-61PX	CONNECTOR, PLUG	2
1	MS3126F-24-61PW	CONNECTOR, PLUG	1

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS9-150
DRAWN [illegible]
CHECKED [illegible]
APPROVAL [illegible]

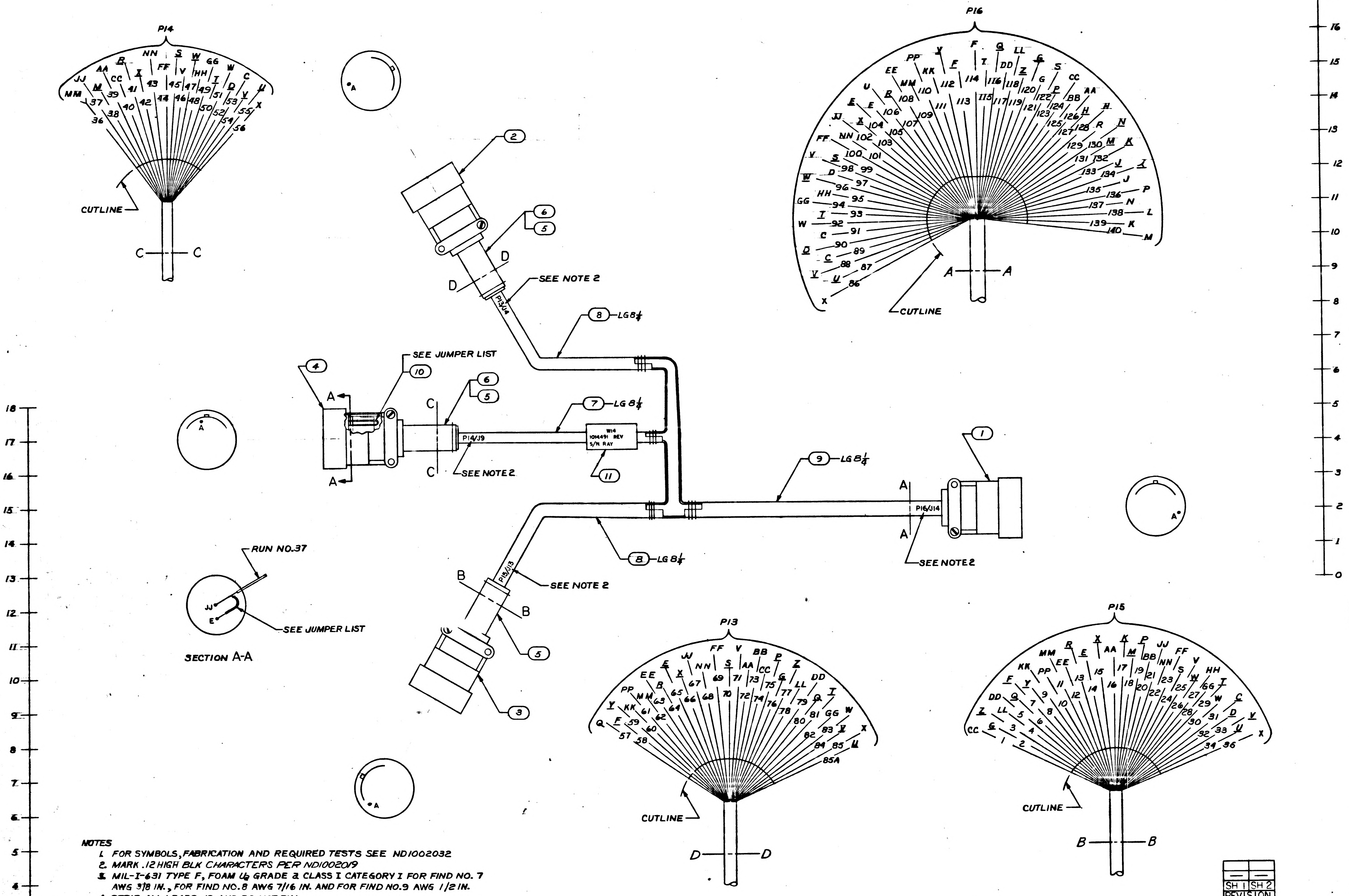
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
WM, TEST CABLE
COMPUTER TEST SET

1014491

1014491

SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR J376		



NOTES

1. FOR SYMBOLS, FABRICATION AND REQUIRED TESTS SEE ND1002032
2. MARK .12 HIGH BLK CHARACTERS PER ND1002019
3. MIL-I-631 TYPE F, FOAM U_2 GRADE A CLASS I CATEGORY I FOR FIND NO. 7 AWG 3/8 IN., FOR FIND NO.8 AWG 7/16 IN. AND FOR FIND NO.9 AWG 1/2 IN.
4. STRIP ALL LEADS .19 AND DO NOT TIN
5. BOND FIND NO.11 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 0376 DATE 10/1/63

SH 1	SH 2
—	—
REVISION STATUS OF SHEETS	

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1014472-2	BAND MARKER, CABLE	11
AR	ND1002181 TYPE I CL I	WIRE, ELECTRICAL AWG22, WHT	10
AR	SEE NOTE 3	SLEEVING	9
AR	SEE NOTE 3	SLEEVING	8
AR	SEE NOTE 3	SLEEVING	7
2	MS39056-6	BUSHING, CABLE ADAPTER	6
3	MS39056-5	BUSHING, CABLE ADAPTER	5
1	MS3126F-24-61PZ	CONNECTOR, PLUG	4
1	MS3126F-24-61PY	CONNECTOR, PLUG	3
1	MS3126F-24-61PX	CONNECTOR, PLUG	2
1	MS3126F-24-61PW	CONNECTOR, PLUG	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014156	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS9-498
DRAWN [illegible] 8-27-63
CHECKED A. Cap[illegible] 11/[illegible]
APPROVAL [illegible]
APPROVAL [illegible] 9/20/63
APPROVAL [illegible] 9/[illegible]/63
NASA APPROVAL [illegible] 10-[illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible] 10/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

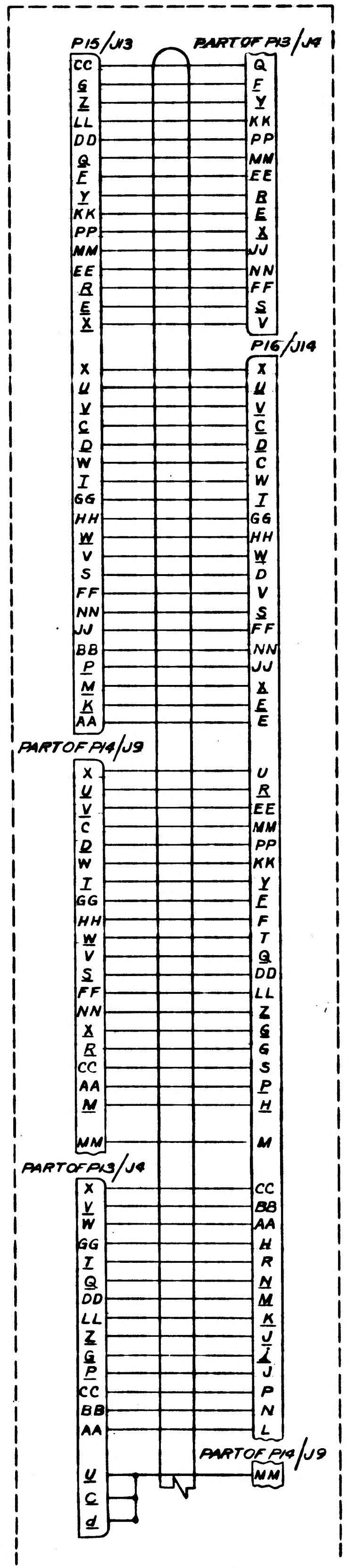
CABLE ASSEMBLY
W14, TEST CABLE
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
DRAWING NO. 1014491
SCALE 1/1
WT
SHEET 1 OF 2

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CLASS B RELEASED PER TDRR 031		

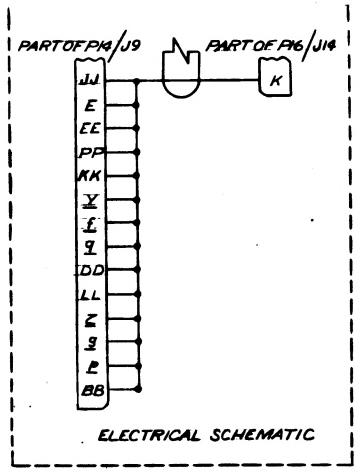
ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	86	WHITE	22	10	35	
	34				87	
	88				33	
	32				89	
	90				31	
	30				91	
	92				29	
	28				93	
	94				27	
	26				95	
	96				25	
	24				97	
	98				23	
	22				99	
	100				21	
	20				101	
	102				19	
	18				103	
	104				17	
	16				105	
	106				56	
	55				107	
	108				54	
	53				109	
	110				52	
	51				111	
	112				50	
	49				113	
	114				48	
	47				115	
	116				46	
	45				117	
	118				44	
	43				119	
	120				42	
	41				121	
	122				40	
	39				123	
	127				38	
	37				139	
	140				36	
	36				85A	
	85				124	
	125				84	
	83				126	
	128				82	
	81				129	
	130				80	
	79				131	
	132				78	
	77				133	
	134				76	
	75				135	
	136				74	
	73				137	
	138				72	
	71				15	
	14				70	
	69				13	
	12				68	
	67				11	
	10				66	
	65				9	
	8				64	
	63				7	
	6				62	
	61				5	
	4				60	
	59				3	
	2				58	
	57	WHITE	22	10	1	


P15/J13
PART OF P13/J4
CC G Z LL DD Q F Y KK PP MM EE R E X
Q F Y KK PP MM EE B E X JJ NN FF S V
P16/J14
X U V C D W T GG HH W V S FF NN JJ BB P M K AA
X U V C D C W T GG HH W D V S FF NN JJ X E E
PART OF P14/J9
X U V C D W T GG HH W V S FF NN X R CC AA M MM
U R EE MM PP KK Y F F T Q DD LL Z G G S P H M
PART OF P13/J4
X V W GG T Q DD LL Z G P CC BB AA U C d
CC BB AA H R N M K J I J P N L
PART OF P14/J9
MM

JUMPER LIST

FROM	TO	LENGTH	FIND NO.
P13-U	P13-C	2.25	10
P13-C	P13-D		
P14-JJ(RUN NO.37)	P14-E		
P14-E	P14-EE		
P14-EE	P14-PP		
P14-PP	P14-KK		
P14-KK	P14-Y		
P14-Y	P14-F		
P14-F	P14-Q		
P14-Q	P14-DD		
P14-DD	P14-LL		
P14-LL	P14-Z		
P14-Z	P14-G		
P14-G	P14-P		
P14-P	P14-BB	2.25	10


PART OF P14/J9
PART OF P16/J14
JJ E EE PP KK Y f g DD LL Z g P BB
K

ELECTRICAL SCHEMATIC

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 03586 DATE 10/3/63

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

1014156	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 8-28-63
CHECKED Sept 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL 10-2-63
MIT APPROVAL
MIT APPROVAL 9/1/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W14, TEST CABLE
COMPUTER TEST SET

CODE IDENT NO. —
SIZE J
1014491
SCALE NONE
WT
SHEET 2 OF 2

1014491

MASTER

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

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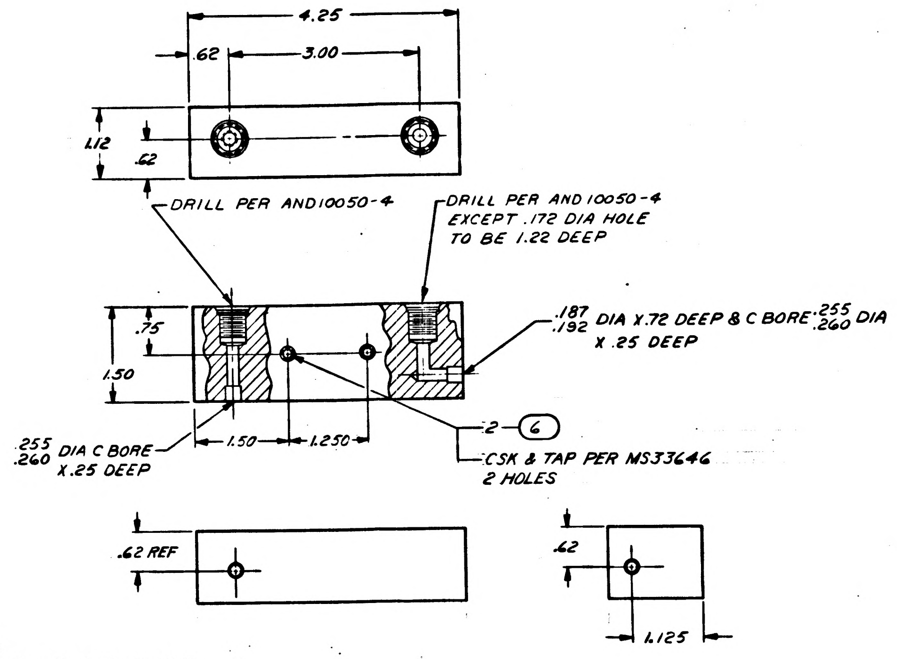
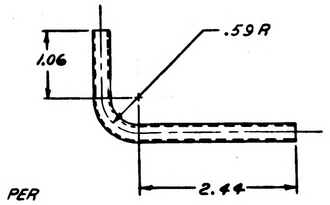
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL-B RELEASED PER TDRR 04138	24Oct63	



4.25
.62
3.00
1.12
.62
DRILL PER AND10050-4
DRILL PER AND 10050-4 EXCEPT .172 DIA HOLE TO BE 1.22 DEEP
.187/.192 DIA X.72 DEEP & C BORE .255/.260 DIA X .25 DEEP
.75
1.50
.255/.260 DIA C BORE X.25 DEEP
1.50
1.250
2-6
CSK & TAP PER MS33646 2 HOLES
.62 REF
.62
1.125

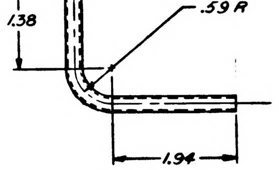
NOTES
1. MATL : 6061-T6 AL PER QQ-A-325
2. REMOVE BURRS & SHARP EDGES

MANIFOLD
1014493-1



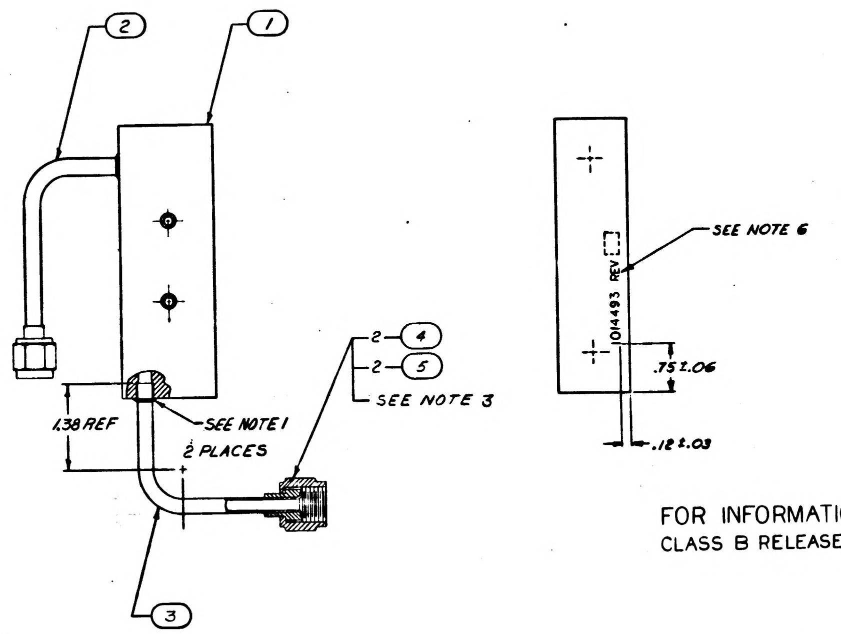
NOTES:
1. MATL: 6061-T6 AL TUBING PER MIL-T-7081 .250 O D X .035 WALL THICKNESS

TUBE
1014493-2



NOTES:
1. MATL: 6061-T6 AL TUBING PER MIL-T-7081 .250 O D X .035 WALL THICKNESS

TUBE
1014493-3



2
1
2-4
2-5
SEE NOTE 3
1.38 REF
SEE NOTE 1
2 PLACES
3
SEE NOTE 6
1014493 REV
.75 ±.06
.12 ±.03

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04138 DATE 24Oct63

NOTES:
1. BRAZE PER MIL-B-23362
2. HEAT TREAT PER MIL-H-6088B
3. ASSEMBLE FIND NO. 4&5 & FLARE FIND NO. 2&3 PER MS33584 AFTER BRAZING
4. ANODIZE PER MIL-A-8625A
5. NUMBERS PRECEDING BALLOONS DESIGNATE QUANTITY
6. MARK .12 HIGH BLACK CHARACTERS PER ND1002019

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2	MS21209-C4-20	INSERT, SCREW LOCKING	6
2	AN818-4D	NUT, COUPLING	5
2	MS20819-4D	SLEEVE, FLARED	4
1	1014493-3	TUBE	3
1	1014493-2	TUBE	2
1	1014493-1	MANIFOLD	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1020001	1020018

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ±.005 ±.03 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO.
DRAWN W. Kelley DATE 9-27-63
CHECKED W. J. Clifford 3 OCT 63
APPROVAL H. Morse JPK 1 Oct 63
APPROVAL 10/14/63
NASA APPROVAL 10/24/63
MIT APPROVAL W. Griffin 24 Oct 63
MIT APPROVAL 10/24/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

MANIFOLD AND TUBE ASSY

CODE IDENT NO. —
SIZE F
NASA DRAWING NO. 1014493
SCALE 1/1
WT
SHEET 1 OF 1

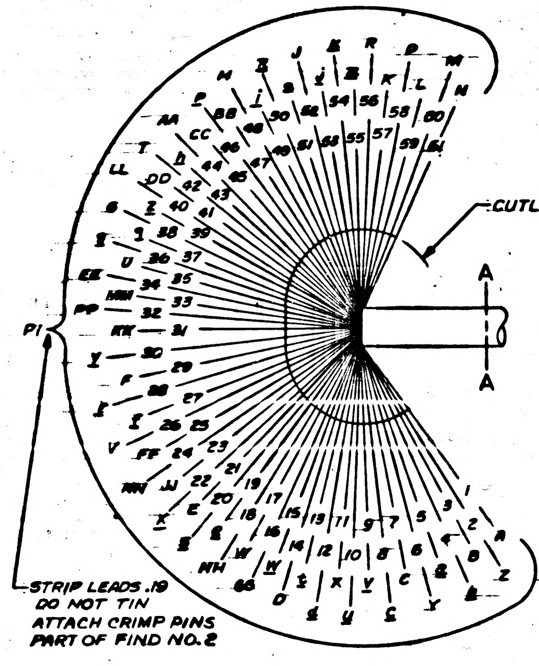
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

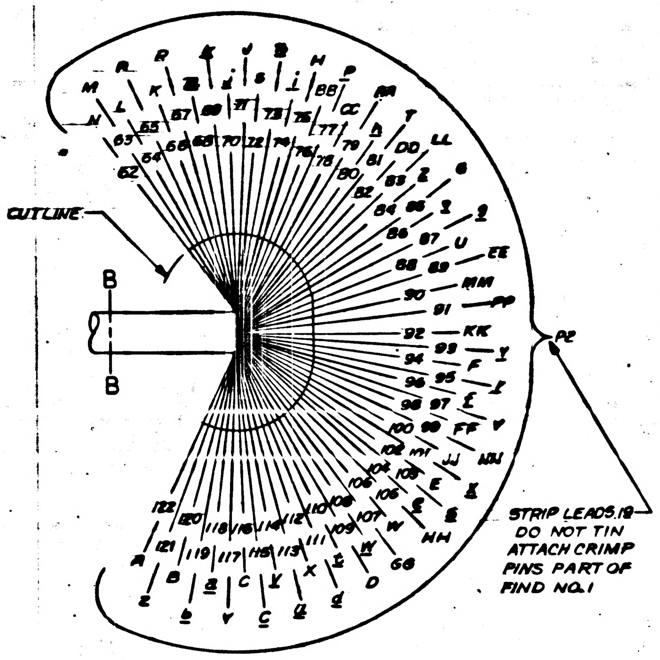
INCHES
PHOTOGRAPHIC SCALE ONLY

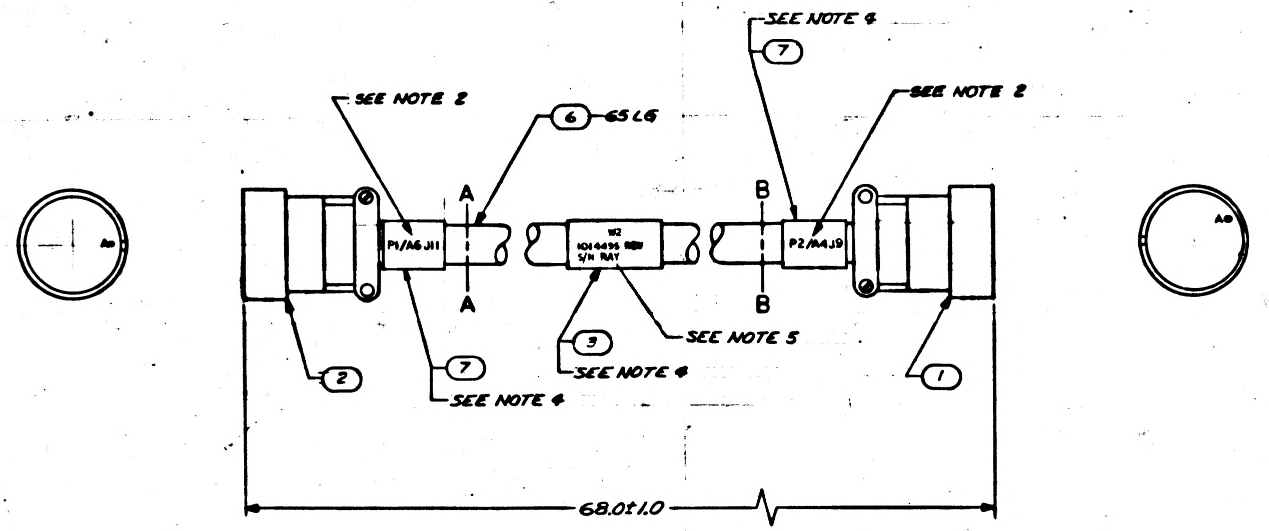
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
	~~CL B RELEASED PER TDRR~~		
A	CHANGED PER TDRR 07228 DR S.T. CHK A. Coggiano APPD	MAR 64	KEG

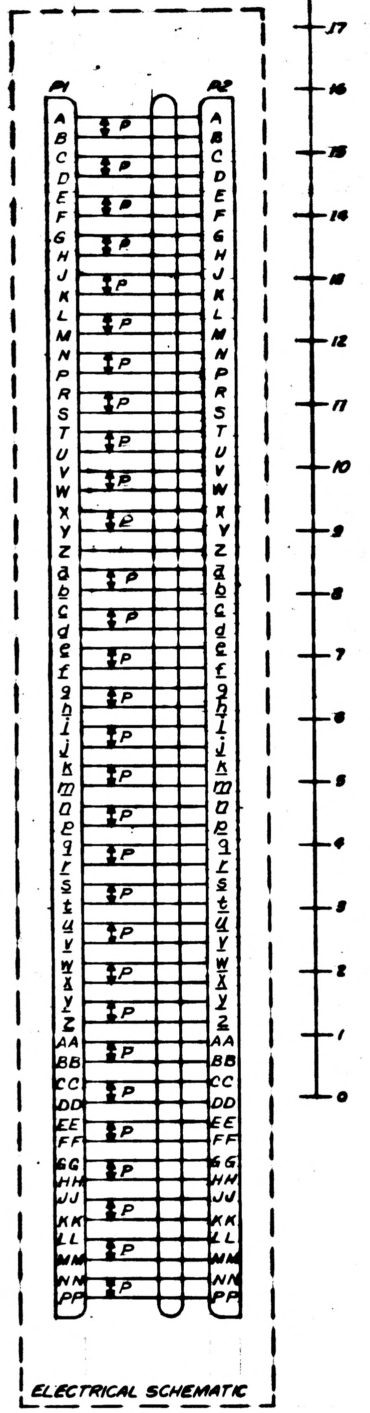
ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO	COLOR	AWG	FIND NO	RUN NO	REMARKS
	1	BLK	22	4	122	
	3	WHT			120	
	7	BLK	22	4	116	
	14	WHT			109	
	21	BLK	22	4	102	
	29	WHT			94	
	38	BLK	22	4	85	
	48	WHT			75	
	52	BLK	22	4	71	
	57	WHT			66	
	59	BLK	22	4	64	
	60	WHT			63	
	61	BLK	22	4	62	
	58	WHT			65	
	56	BLK	22	4	67	
	51	WHT			72	
	42	BLK	22	4	81	
	35	WHT			88	
	26	BLK	22	4	97	
	17	WHT			106	
	11	BLK	22	4	112	
	6	WHT			117	
	5	BLK	22	4	118	
	4	WHT			119	
	8	BLK	22	4	115	
	12	WHT			111	
	19	BLK	22	4	104	
	27	WHT			96	
	36	BLK	22	4	87	
	43	WHT			80	
	49	BLK	22	4	74	
	53	WHT			70	
	54	BLK	22	4	69	
	55	WHT			68	
	50	BLK	22	4	73	
	46	WHT			77	
	37	BLK	22	4	86	
	28	WHT			95	
	20	BLK	22	4	103	
	13	WHT			110	
	10	BLK	22	4	113	
	9	WHT			114	
	15	BLK	22	4	108	
	22	WHT			101	
	30	BLK	22	4	93	
	39	WHT			84	
	44	BLK	22	4	79	
	47	WHT			76	
	45	BLK	22	4	78	
	41	WHT			82	
	34	BLK	22	4	89	
	25	WHT			98	
	16	BLK	22	4	107	
	18	WHT			105	
	23	BLK	22	4	100	
	31	WHT			92	
	40	BLK	22	4	83	
	33	WHT			90	
	24	BLK	22	4	99	
	32	WHT			91	
	2	BLK	22	5	121	


P1
CUTLINE
A
A
STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 2


CUTLINE
B
B
P2
STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP
PINS PART OF
FIND NO. 1


SEE NOTE 2
6
65 LG
SEE NOTE 4
7
SEE NOTE 2
A
A
B
B
P1/A6J11
W2
1014495 REV
S/N RAY
P2/A4J9
2
7
SEE NOTE 4
3
SEE NOTE 4
SEE NOTE 5
1
68.0±1.0


P1
P2
ELECTRICAL SCHEMATIC

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 01737 DATE 11/15/63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TEST SEE ND1002032
2. MARK .12 HIGH BLK CHARACTERS PER ND1002019
3. MIL-I-631 TYPE F, FORM U2, GRADE A, CLASS I CATEGORY I, FOR FIND NO. 6 AWG 5/8
4. BOND USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
5. MARK .08 HIGH BLACK CHARACTERS PER ND1002023

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
2	1014472-4A	BAND MARKER, CABLE	7
AR	SEE NOTE 3	SLEEVING	6
AR	MIL-W-16878/4 TYPE E 22 BLK	WIRE, ELEC	5
AR	1014341-11	WIRE, ELECTRICAL	4
1	1014472-4	BAND MARKER, CABLE	3
1	MS3126F-24-61P2	CONNECTOR	2
1	MS3126F-24-61SX	CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/4 DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN [illegible] DATE [illegible]
CHECKED A. Coggiano 2 Oct 63
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

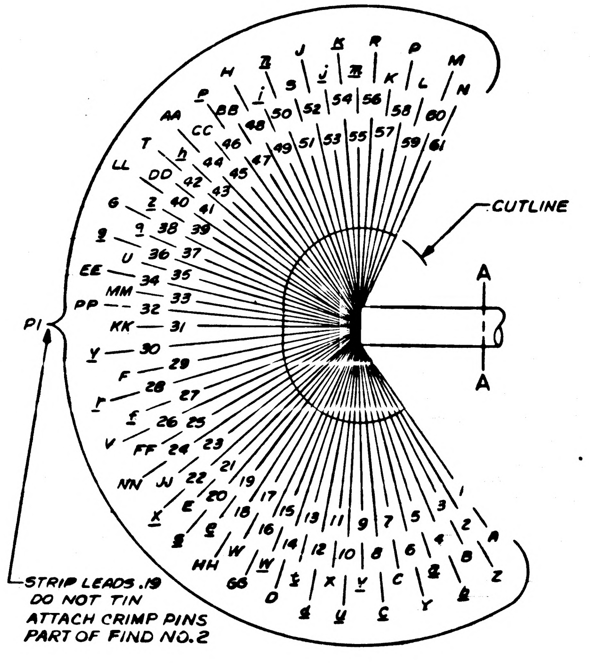
CABLE, ASSEMBLY
W2
AGC/CTS OPERATION CONSOLE

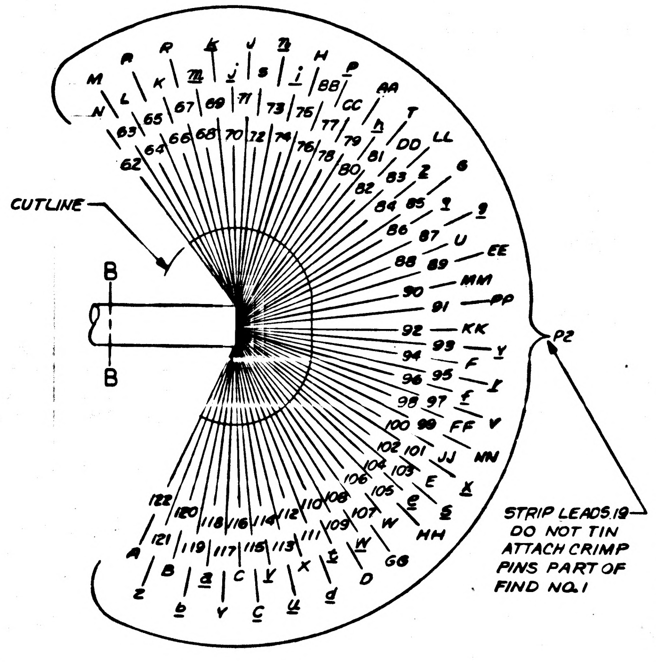
CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014495
SCALE 1/1 WT SHEET 1 OF 1

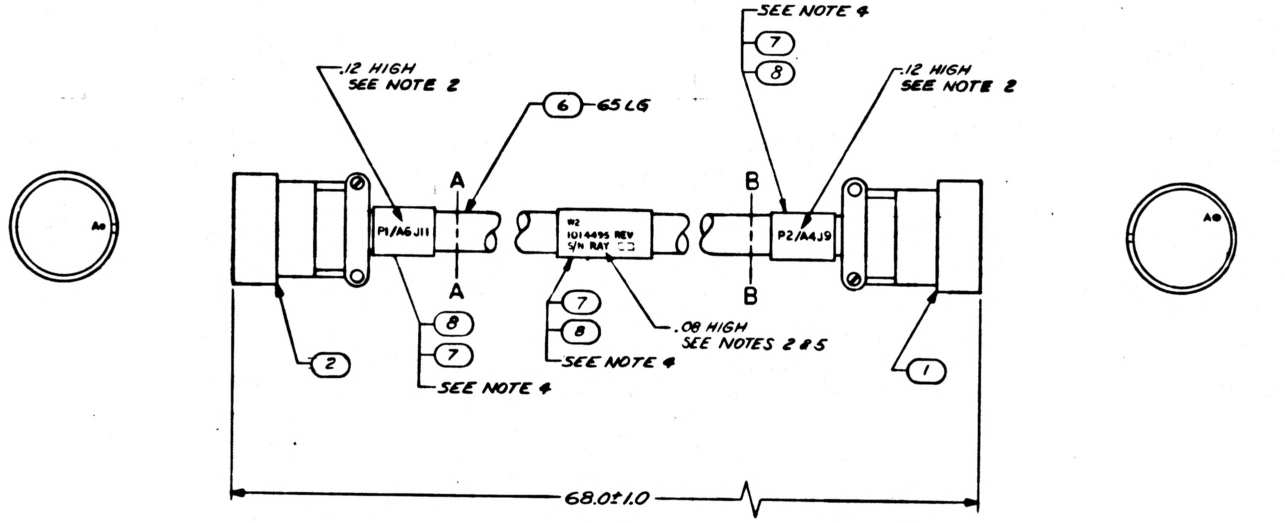
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
	~~CL B RELEASED PER TDRR~~		
A	CHANGED PER TDRR 07228 DR S.T CHK A. Caggiano APPD	14 APR 64	
B	UPGRADE TO CLASS A WITH CHANGES PER TDRR 18942 DR CHK APPD	30 JUNE 65	

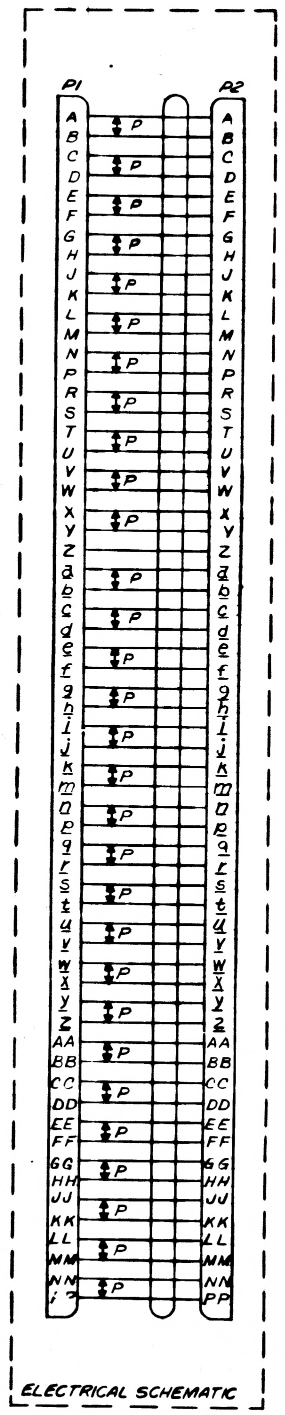
ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	1	BLK	22	4	122	
	3	WHT			120	
	7	BLK	22	4	116	
	14	WHT			109	
	21	BLK	22	4	102	
	29	WHT			94	
	38	BLK	22	4	85	
	48	WHT			75	
	52	BLK	22	4	71	
	57	WHT			66	
	59	BLK	22	4	64	
	60	WHT			63	
	61	BLK	22	4	62	
	58	WHT			65	
	56	BLK	22	4	67	
	51	WHT			72	
	42	BLK	22	4	81	
	35	WHT			88	
	26	BLK	22	4	97	
	17	WHT			106	
	11	BLK	22	4	112	
	6	WHT			117	
	5	BLK	22	4	118	
	4	WHT			119	
	8	BLK	22	4	115	
	12	WHT			111	
	19	BLK	22	4	104	
	27	WHT			96	
	36	BLK	22	4	87	
	43	WHT			80	
	49	BLK	22	4	74	
	53	WHT			70	
	54	BLK	22	4	69	
	55	WHT			68	
	50	BLK	22	4	73	
	46	WHT			77	
	37	BLK	22	4	86	
	28	WHT			95	
	20	BLK	22	4	103	
	13	WHT			110	
	10	BLK	22	4	113	
	9	WHT			114	
	15	BLK	22	4	108	
	22	WHT			101	
	30	BLK	22	4	93	
	39	WHT			84	
	44	BLK	22	4	79	
	47	WHT			76	
	45	BLK	22	4	78	
	41	WHT			82	
	34	BLK	22	4	89	
	25	WHT			98	
	16	BLK	22	4	107	
	18	WHT			105	
	23	BLK	22	4	100	
	31	WHT			92	
	40	BLK	22	4	83	
	33	WHT			90	
	24	BLK	22	4	99	
	32	WHT			91	
	2	BLK	22	5	121	


P1
CUTLINE
A
A
STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO.2


P2
CUTLINE
B
B
STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP
PINS PART OF
FIND NO.1


.12 HIGH
SEE NOTE 2
6
65 LG
SEE NOTE 4
7
8
P1/A6J11
A
A
W2
1014495 REV
S/N RAY CO
7
8
.08 HIGH
SEE NOTES 2 & 5
SEE NOTE 4
B
B
P2/A4J9
.12 HIGH
SEE NOTE 2
8
7
SEE NOTE 4
2
1
68.0±1.0


P1
P2
P
ELECTRICAL SCHEMATIC

NOTES:
1. FOR FABRICATION SEE ND1002032
2. MARK GOTHIC CHARACTERS AS SHOWN PER ND1002019 USING BLACK INK 1006256-001
3. MIL-I-631 TYPE F, FORM U2, GRADE A, CLASS I CATEGORY I. FOR FIND NO. 6 AWG 5/8
4. BOND USING FIND NO. 8 APPROX AS SHOWN
5. SERIALIZE PER ND1002023
6. CRIMP PER ND1002206

	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
	AR	1006253	ADHESIVE	8
	3	1014472-4A	BAND MARKER, CABLE	7
*	5.8	SEE NOTE 3	SLEEVING	6
*	5.8	MIL-W-16878/4 TYPE E 22 BLK	WIRE, ELEC	5
*	160	1014341-11	WIRE, ELECTRICAL	4
	~~1~~	~~1014472-4~~	~~BAND MARKER, CABLE~~	~~3~~
	1	MS3126F-24-61PZ	CONNECTOR	2
	1	MS3126F-24-61SX	CONNECTOR	1

LIST OF MATERIALS

* DENOTES LENGTH IN FEET

1014465	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/4 DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN H. Carlson DATE
CHECKED A. Caggiano
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W2
OPERATION CONSOLE

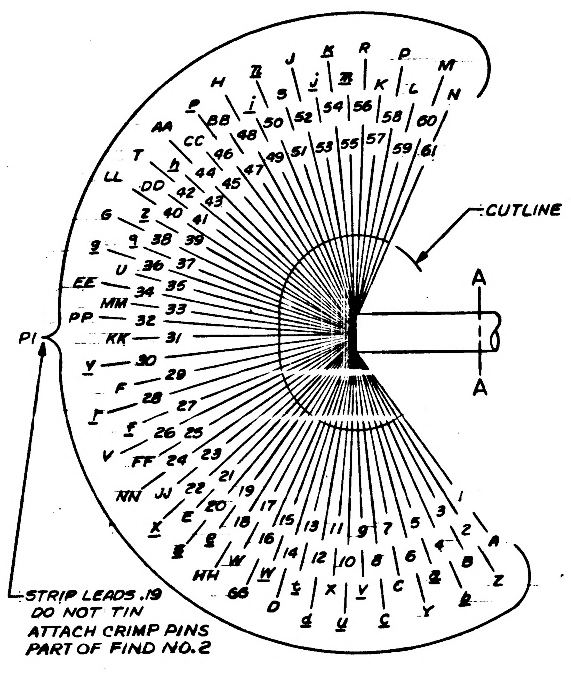
CODE IDENT NO —
SIZE J
NASA DRAWING NO 1014495
SCALE 1/1
WT
SHEET 1 OF 1

1014495 B

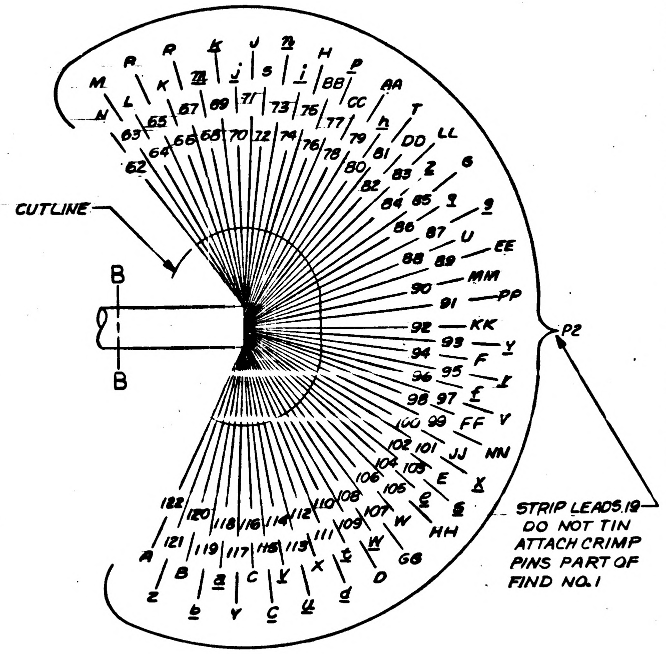
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
	CL B RELEASED PER TDRR		

ASSEMBLY INFORMATION CHART

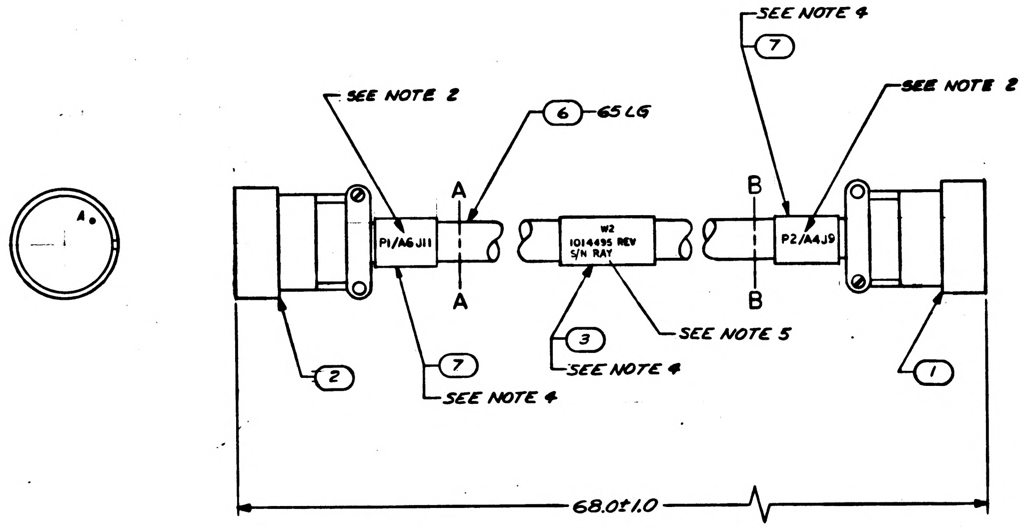
FROM		DESCRIPTION			TO	
REMARKS	RUN NO	COLOR	AWG	FIND NO	RUN NO	REMARKS
	1	BLK	22	4	122	
	3	WHT			120	
	7	BLK	22	4	116	
	14	WHT			109	
	21	BLK	22	4	102	
	29	WHT			94	
	38	BLK	22	4	85	
	48	WHT			75	
	52	BLK	22	4	71	
	57	WHT			66	
	59	BLK	22	4	64	
	60	WHT			63	
	61	BLK	22	4	62	
	58	WHT			65	
	56	BLK	22	4	67	
	51	WHT			72	
	42	BLK	22	4	81	
	35	WHT			88	
	26	BLK	22	4	97	
	17	WHT			106	
	11	BLK	22	4	112	
	6	WHT			117	
	5	BLK	22	4	118	
	4	WHT			119	
	8	BLK	22	4	115	
	12	WHT			111	
	19	BLK	22	4	104	
	27	WHT			96	
	36	BLK	22	4	87	
	43	WHT			80	
	49	BLK	22	4	74	
	53	WHT			70	
	54	BLK	22	4	69	
	55	WHT			68	
	50	BLK	22	4	73	
	46	WHT			77	
	37	BLK	22	4	86	
	28	WHT			95	
	20	BLK	22	4	103	
	13	WHT			110	
	10	BLK	22	4	113	
	9	WHT			114	
	15	BLK	22	4	108	
	22	WHT			101	
	30	BLK	22	4	93	
	39	WHT			84	
	44	BLK	22	4	79	
	47	WHT			76	
	45	BLK	22	4	78	
	41	WHT			82	
	34	BLK	22	4	89	
	25	WHT			98	
	16	BLK	22	4	107	
	18	WHT			105	
	23	BLK	22	4	100	
	31	WHT			92	
	40	BLK	22	4	83	
	33	WHT			90	
	24	BLK	22	4	99	
	32	WHT			91	
	2	BLK	22	5	121	



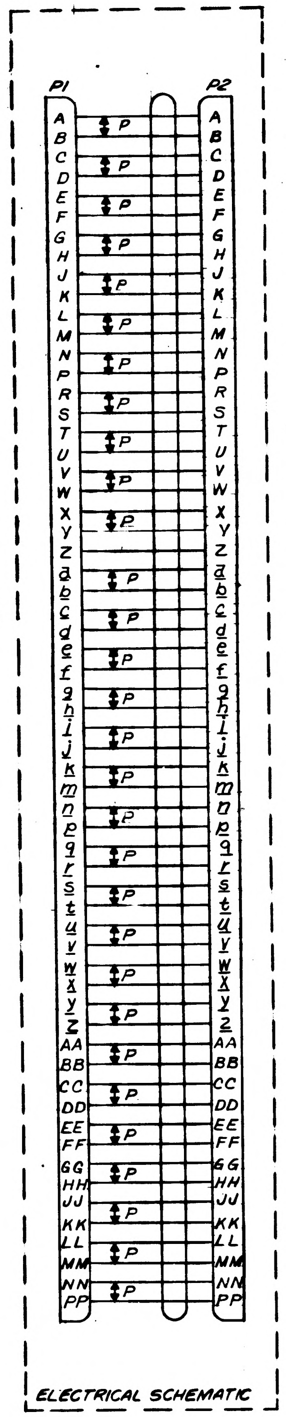
P1
CUTLINE
A
A
STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO.2



CUTLINE
B
B
P2
STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP PINS PART OF
FIND NO.1



SEE NOTE 4
7
SEE NOTE 2
6
65 LG
SEE NOTE 2
A
A
B
B
P1/A6J11
W2
1014495 REV
S/N RAY
P2/A4J9
3
SEE NOTE 4
SEE NOTE 5
2
7
SEE NOTE 4
1
68.0±1.0



P1
P2
P
ELECTRICAL SCHEMATIC

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04397 DATE 1/15/63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TEST SEE ND1002032
2. MARK .12 HIGH BLK CHARACTERS PER ND1002019
3. MIL-I-631 TYPE F, FORM U2, GRADE A, CLASS I
CATEGORY I, FOR FIND NO. 6 AWG 5/8
4. BOND FIND NO. 3 & 7 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE
5. MARK .08 HIGH BLACK CHARACTERS PER ND1002023

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
2	1014472-3A	BAND MARKER, CABLE	7
AR	SEE NOTE 3	SLEEVING	6
AR	ND1002181 TYPE I CL I	WIRE, ELEC AWG 22 BLK	5
AR	1014341-11	WIRE, ELECTRICAL	4
1	1014472-3	BAND MARKER, CABLE	3
1	MS3126F-24-61PZ	CONNECTOR	2
1	MS3126F-24-61SX	CONNECTOR	1

LIST OF MATERIALS

1014465	1020002
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/4 DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN H. Carlson DATE 8-29-63
CHECKED A. Coggan 2 Oct 63
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W2
AGC/CTS OPERATION CONSOLE

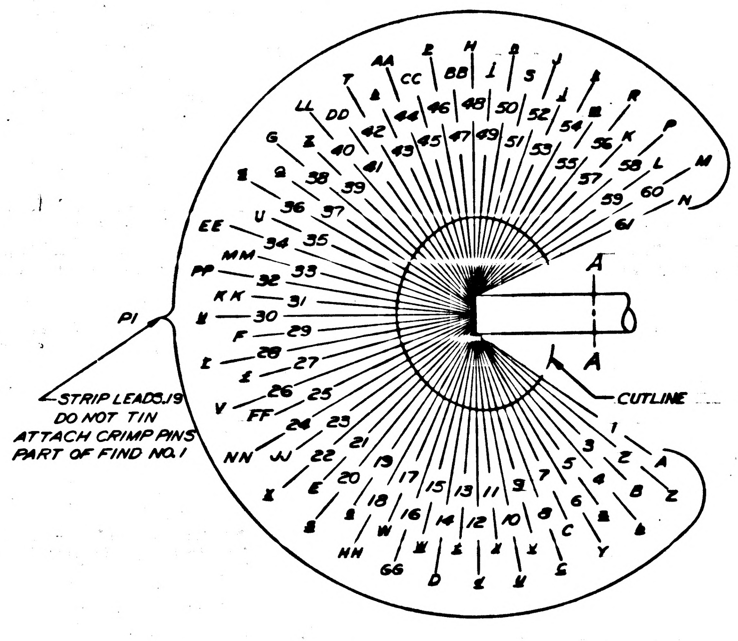
CODE IDENT NO. — SIZE J NASA DRAWING NO 1014495
SCALE 1/1 WT SHEET 1 OF 1

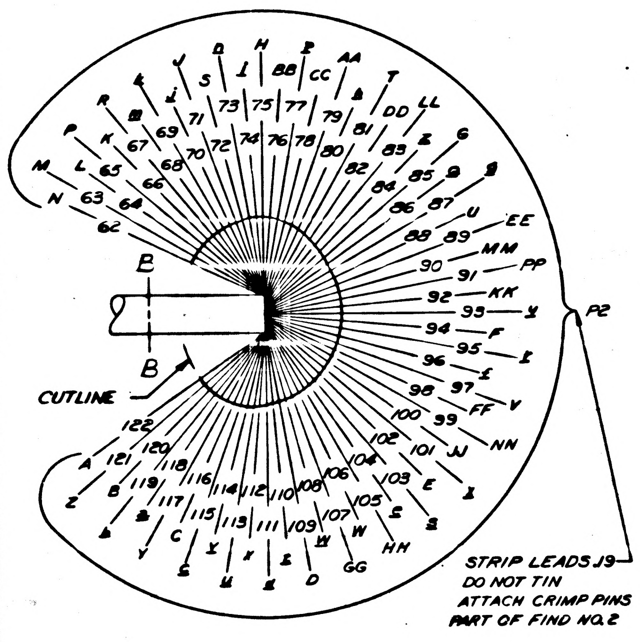
1014495

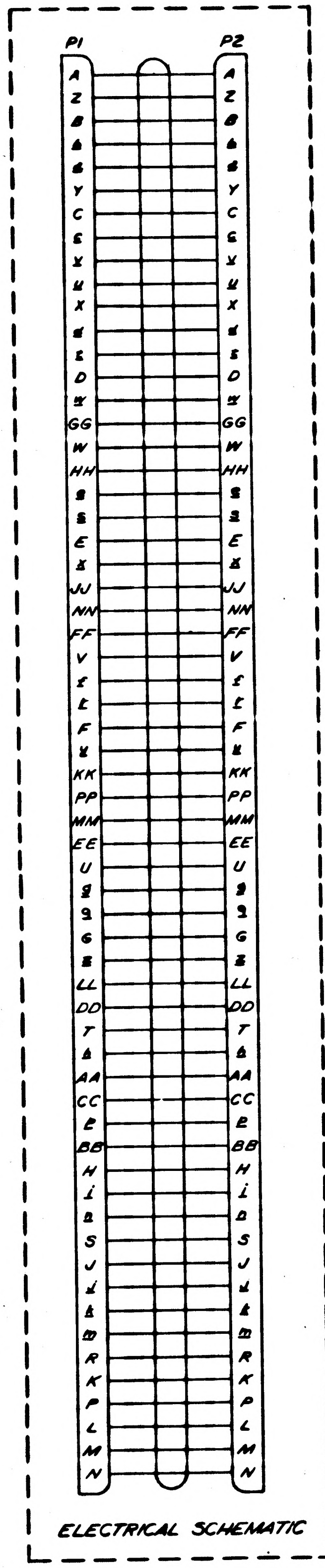
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
	~~CL B RELEASED PER TDRR~~ [illegible]		
A	CHANGED PER TDRR 06898 DR. [illegible] CHK [illegible] APPD		

ASSEMBLY INFORMATION CHART

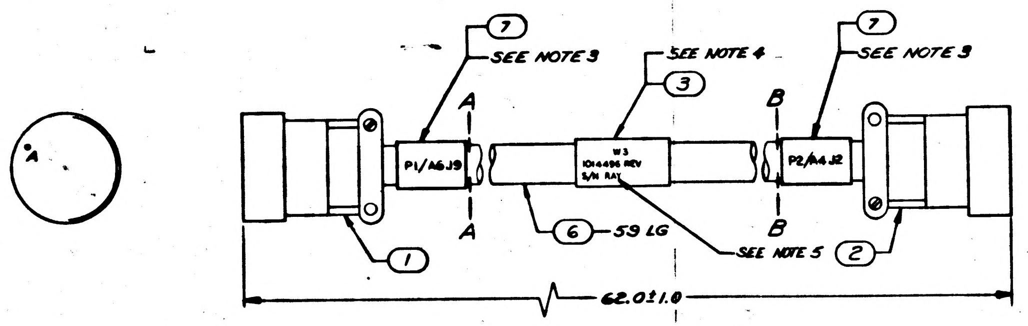
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	2	BLK	22	5	121	
	35	WHT	22	4	88	
	36				87	
	37				86	
	1				122	
	34				89	
	3				120	
	4				119	
	5				118	
	6				117	
	7				116	
	8				115	
	9				114	
	10				113	
	11				112	
	12				111	
	13				110	
	14				109	
	15				108	
	16				107	
	17				106	
	18				105	
	19				104	
	20				103	
	21				102	
	22				101	
	23				100	
	24				99	
	25				98	
	26				97	
	27				96	
	28				95	
	29				94	
	30				93	
	31				92	
	32				91	
	33				90	
	38				85	
	39				84	
	40				83	
	41				82	
	42				81	
	43				80	
	44				79	
	45				78	
	46				77	
	47				76	
	48				75	
	49				74	
	50				73	
	51				72	
	52				71	
	53				70	
	54				69	
	55				68	
	56				67	
	57				66	
	58				65	
	59				64	
	60				63	
	61	WHT	22	4	62	


P1
A
A
CUTLINE
STRIP LEADS J9
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 1


P2
B
B
CUTLINE
STRIP LEADS J9
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 2



ELECTRICAL SCHEMATIC


7
SEE NOTE 3
SEE NOTE 4
3
7
SEE NOTE 3
A
A
B
B
P1/A6J9
W3
1014496 REV
S/N RAY
P2/A4J2
1
6
59 LG
SEE NOTE 5
2
62.0±1.0
A
A

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04136 DATE 24Oct63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND1002032
2. MIL-I-631 TYPE F, FORM U, GRADE A, CLASS I, CATEGORY I FOR FIND NO. 6 AWG 5/8 IN.
3. MARK .12 HIGH BLACK CHARACTERS PER ND1002019
4. BOND FIND NO 3 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE.
5. MARK .08 HIGH BLACK PER ND1002023.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2	1014472-4A	BAND MARKER, CABLE	7
AR	SEE NOTE 2	SLEEVING	6
AR	~~MIL-W-[illegible]~~ TYPE E, 22 BLK	WIRE, ELECTRICAL	5
AR	~~MIL-W-16878~~ TYPE E, 22 WHT	WIRE, ELECTRICAL	4
1	1014472-4	BAND, MARKER, CABLE	3
1	MS3126F-24-61SZ	CONNECTOR	2
1	MS3126F-24-61PY	CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ± ANGLE ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN [illegible] DATE 30AUG
CHECKED [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
AGT APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

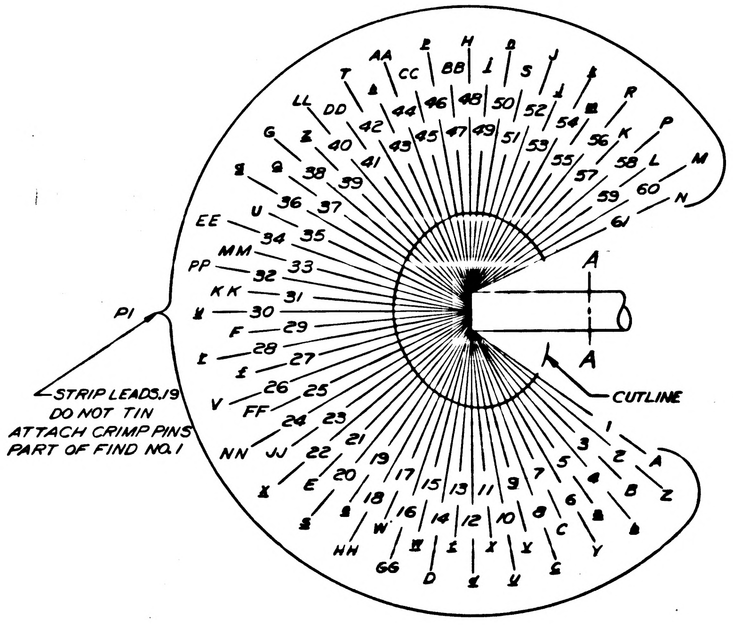
CABLE ASSEMBLY
W3
AGC/CTS OPERATION CONSOLE

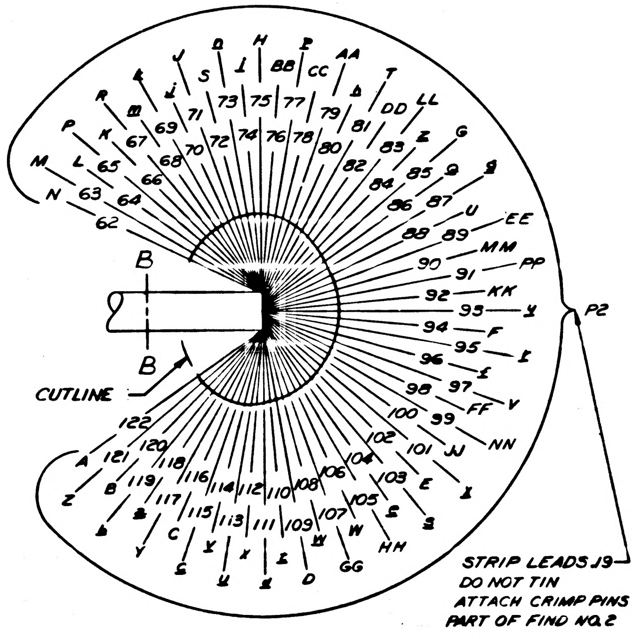
CODE IDENT NO. | SIZE J | NASA DRAWING NO. 1014496
SCALE 1/1 | WT | SHEET 1 OF 1

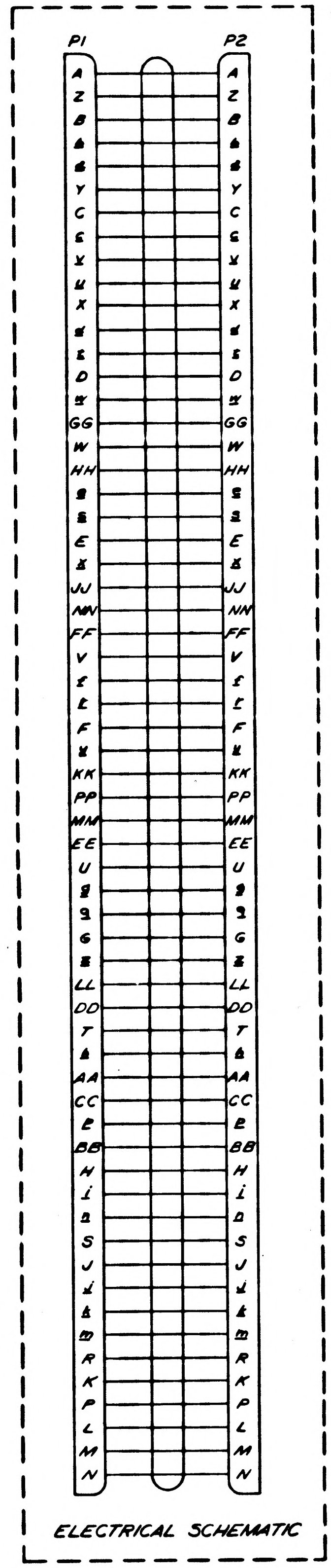
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	~~CL B RELEASE PER TDRR 04136~~		
A	CHANGED PER TDP# 06898 DR. CHK. APPD		
B	CHANGED PER TDRR 13696 DR. CHK. APPD	30 Oct 64	KCO

ASSEMBLY INFORMATION CHART

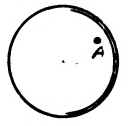
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	2	BLK	22	5	121	
	35	WHT	22	4	88	
	36				87	
	37				86	
	1				122	
	34				89	
	3				120	
	4				119	
	5				118	
	6				117	
	7				116	
	8				115	
	9				114	
	10				113	
	11				112	
	12				111	
	13				110	
	14				109	
	15				108	
	16				107	
	17				106	
	18				105	
	19				104	
	20				103	
	21				102	
	22				101	
	23				100	
	24				99	
	25				98	
	26				97	
	27				96	
	28				95	
	29				94	
	30				93	
	31				92	
	32				91	
	33				90	
	38				85	
	39				84	
	40				83	
	41				82	
	42				81	
	43				80	
	44				79	
	45				78	
	46				77	
	47				76	
	48				75	
	49				74	
	50				73	
	51				72	
	52				71	
	53				70	
	54				69	
	55				68	
	56				67	
	57				66	
	58				65	
	59				64	
	60				63	
	61	WHT	22	4	62	

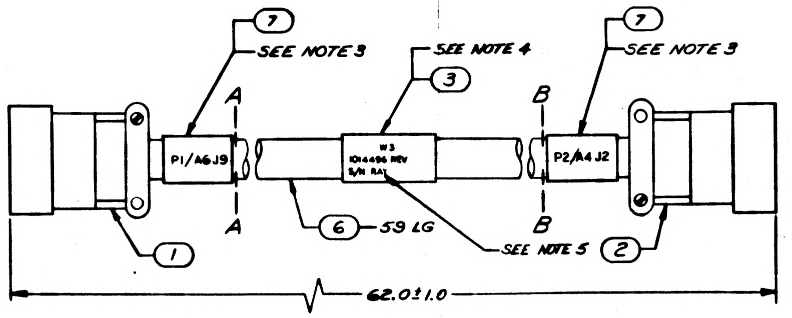

P1
STRIP LEADS J9
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 1
A
A
CUTLINE

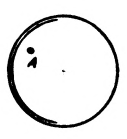

P2
B
B
CUTLINE
STRIP LEADS J9
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 2



ELECTRICAL SCHEMATIC




7
SEE NOTE 3
SEE NOTE 4
3
7
SEE NOTE 3
A
A
B
B
P1/A6J9
W3
1014496 REV
S/N RAY
P2/A4J2
1
6
59 LG
SEE NOTE 5
2
62.0±1.0



FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04136 DATE 24 Oct 63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND1002032
2. MIL-I-631 TYPE F, FORM U & GRADE & CLASS I, CATEGORY I FOR FIND NO. 6 AWG 5/8 IN.
3. MARK .12 HIGH BLACK CHARACTERS PER ND1002019
4. BOND FIND NO 3 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE.
5. MARK .08 HIGH BLACK PER ND1002023.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
2	1014472-4A	BAND MARKER, CABLE	7
AR	SEE NOTE 2	SLEEVING	6
AR	MIL-W-16878, TYPE E, 22 BLK	WIRE, ELECTRICAL	5
AR	MIL-W-16878, TYPE E, 22 WHT	WIRE, ELECTRICAL	4
1	1014472-4	BAND, MARKER, CABLE	3
1	MS3126F-24-61SZ	CONNECTOR	2
1	MS3126F-24-61PY	CONNECTOR	1

LIST OF MATERIALS

1014465	1020008
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ± ANGLE ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 30 AUG 63
CHECKED 5 Oct
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

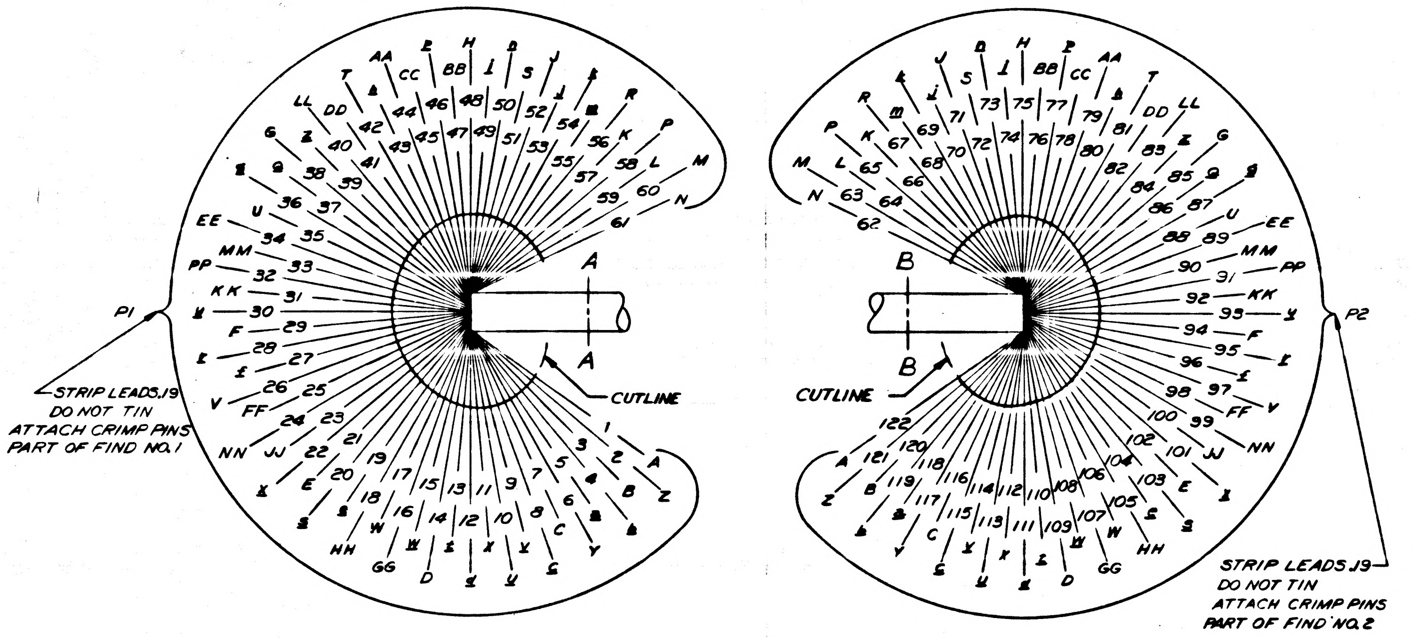
CABLE ASSEMBLY
W3
AGC/CTS OPERATION CONSOLE

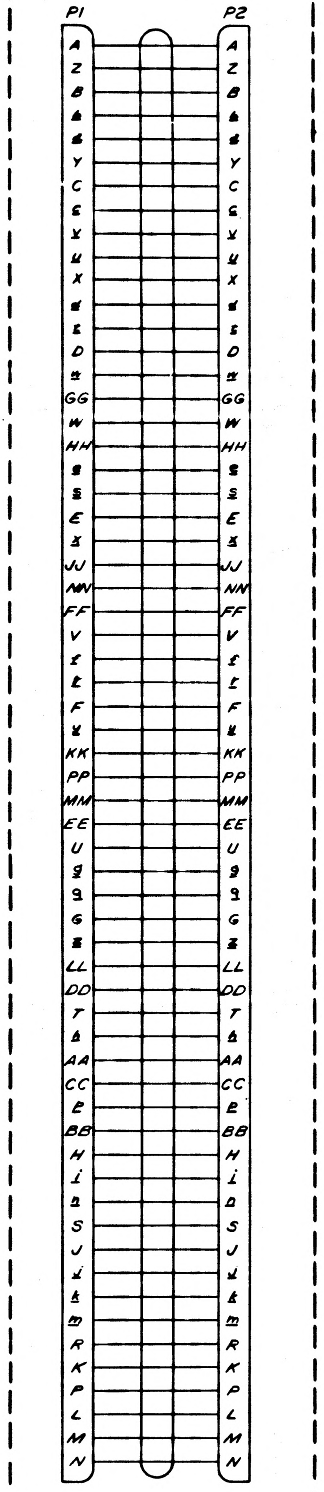
CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014496
SCALE 1/1
WT
SHEET 1 OF 1

SYM	REVISIONS DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR 6413		
A	CHANGED PER TDRR 06898 DR. Ken Budd CHK APPD		
B	CHANGED PER TDRR 13696 DR. W. Barr CHK KTD APPD	30 OCT 68	KCO
C	UPGRADE TO CLASS A WITH CHANGE PER TDRR 18942 DR E.Burt CHK R. APPD	30 June 69	C.K.S.

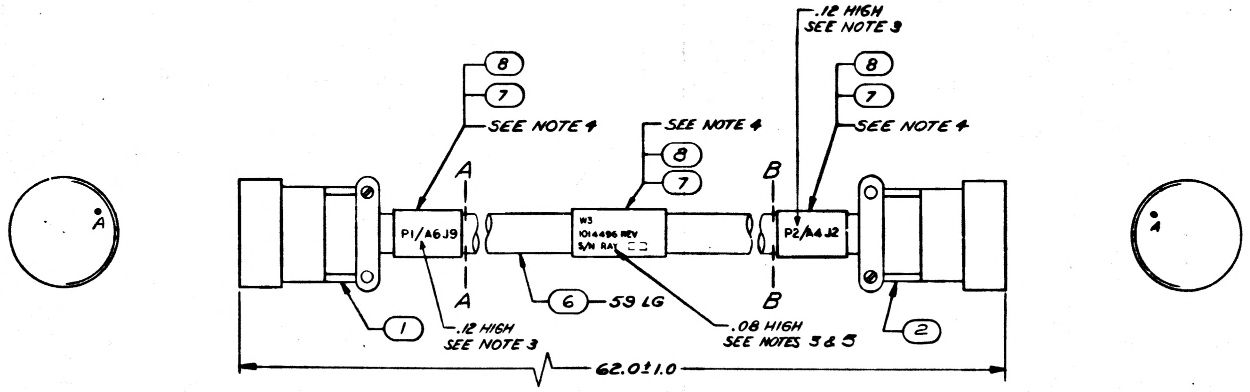
ASSEMBLY INFORMATION CHART

FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	2	BLK	22	5	121	
	35	WHT	22	4	88	
	36				87	
	37				86	
	1				122	
	34				89	
	3				120	
	4				119	
	5				118	
	6				117	
	7				116	
	8				115	
	9				114	
	10				113	
	11				112	
	12				111	
	13				110	
	14				109	
	15				108	
	16				107	
	17				106	
	18				105	
	19				104	
	20				103	
	21				102	
	22				101	
	23				100	
	24				99	
	25				98	
	26				97	
	27				96	
	28				95	
	29				94	
	30				93	
	31				92	
	32				91	
	33				90	
	38				85	
	39				84	
	40				83	
	41				82	
	42				81	
	43				80	
	44				79	
	45				78	
	46				77	
	47				76	
	48				75	
	49				74	
	50				73	
	51				72	
	52				71	
	53				70	
	54				69	
	55				68	
	56				67	
	57				66	
	58				65	
	59				64	
	60				63	
	61	WHT	22	4	62	


P1
STRIP LEADS J9
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 1
A
A
CUTLINE
B
B
CUTLINE
P2
STRIP LEADS J9
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 2



ELECTRICAL SCHEMATIC


8
7
SEE NOTE 4
A
A
P1/A6J9
.12 HIGH
SEE NOTE 3
1
SEE NOTE 4
8
7
W3
1014496 REV
S/N RAY
6
59 LG
.08 HIGH
SEE NOTES 3 & 5
.12 HIGH
SEE NOTE 3
8
7
SEE NOTE 4
B
B
P2/A4J2
2
62.0±1.0
A
A

NOTES
1. FOR FABRICATION SEE ND1002032
2. MIL-I-631 TYPE F, FORM U & GRADE A CLASS I, CATEGORY I FOR FIND NO. 6 AWG $\frac{5}{8}$ IN.
3. MARK GOTHIC CHARACTERS AS SHOWN PER ND1002019 USING BLACK INK 1006256-001
4. BOND USING FIND NO. 8 APPROX AS SHOWN
5. SERIALIZE PER ND1002023
6. CRIMP PER ND1002206

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	1006253	ADHESIVE	8
3	1014472-4A	BAND MARKER, CABLE	7
✱ 5.0	SEE NOTE 2	SLEEVING	6
✱ 5.1	MIL W 16878, TYPE E, 22 BLK	WIRE, ELECTRICAL	5
✱ 300	MIL W 16878, TYPE E, 22 WHT	WIRE, ELECTRICAL	4
~~1~~	~~1014472-4~~	~~BAND, MARKER, CABLE~~	~~3~~
1	MS3126F-24-61SZ	CONNECTOR	2
1	MS3126F-24-61PY	CONNECTOR	1

✱ DENOTES LENGTH IN FEET

NEXT ASSY	USED ON
1014465	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ± ANGLE ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO. NAS 9-498
DRAWN DATE 30 AUG
CHECKED
APPROVAL
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

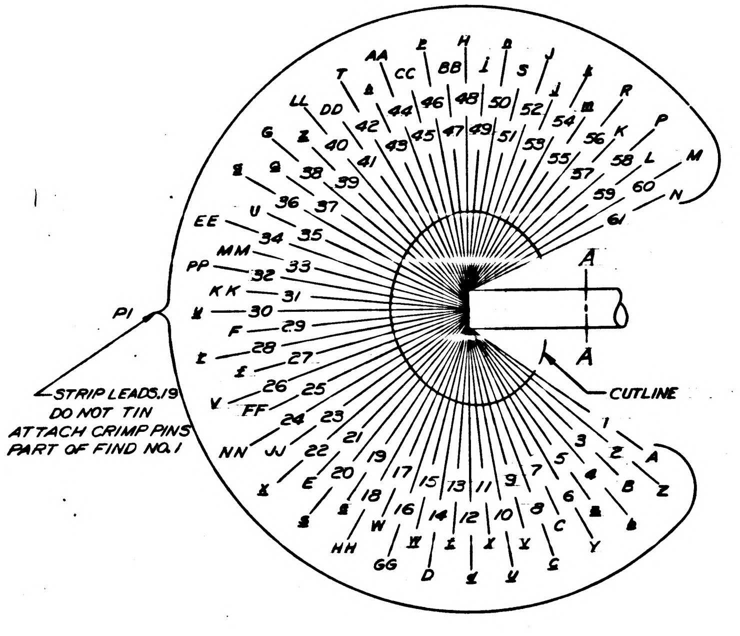
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

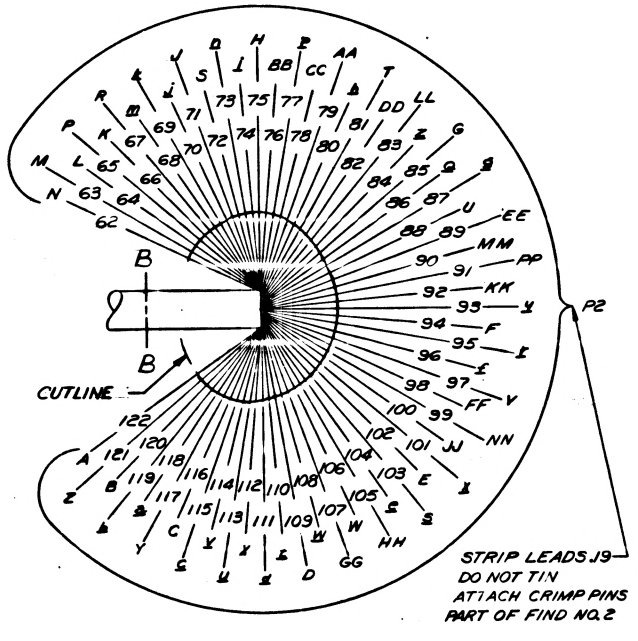
CABLE ASSEMBLY
W3
OPERATION CONSOLE

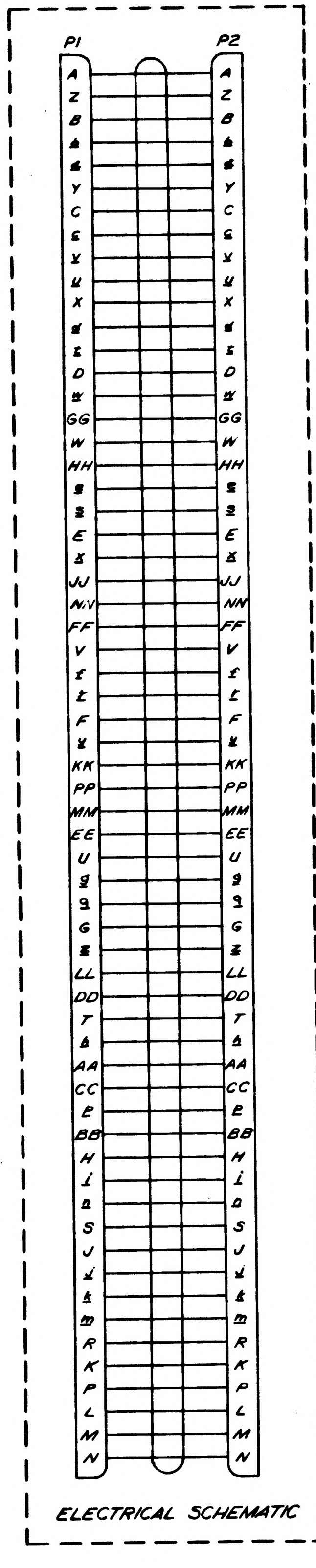
CODE IDENT NO — SIZE J NASA DRAWING NO 1014496
SCALE 1/1 WT SHEET 1 OF 1

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
—	CL B RELEASED PER TDRR		

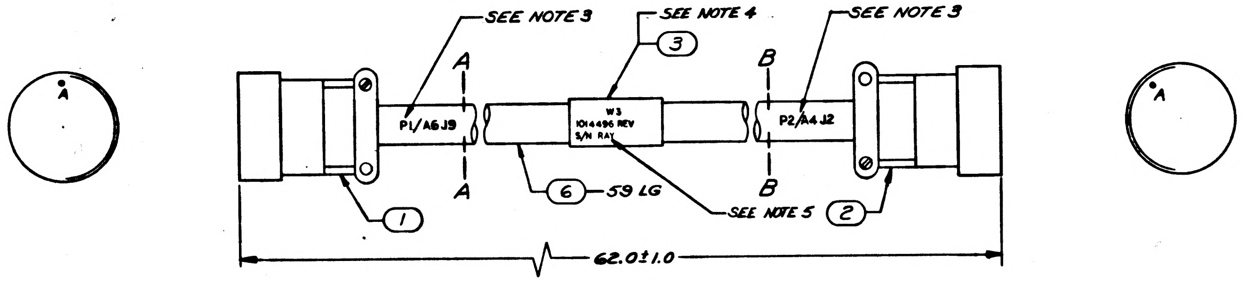
ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO.	COLOR	AWG	FIND NO.	RUN NO.	REMARKS
	2	BLK	22	5	121	
	35	WHT	22	4	88	
	36				87	
	37				86	
	1				122	
	34				89	
	3				120	
	4				119	
	5				118	
	6				117	
	7				116	
	8				115	
	9				114	
	10				113	
	11				112	
	12				111	
	13				110	
	14				109	
	15				108	
	16				107	
	17				106	
	18				105	
	19				104	
	20				103	
	21				102	
	22				101	
	23				100	
	24				99	
	25				98	
	26				97	
	27				96	
	28				95	
	29				94	
	30				93	
	31				92	
	32				91	
	33				90	
	38				85	
	39				84	
	40				83	
	41				82	
	42				81	
	43				80	
	44				79	
	45				78	
	46				77	
	47				76	
	48				75	
	49				74	
	50				73	
	51				72	
	52				71	
	53				70	
	54				69	
	55				68	
	56				67	
	57				66	
	58				65	
	59				64	
	60				63	
	61	WHT	22	4	62	


P1
A
A
CUTLINE
STRIP LEADS J9
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO.1


P2
B
B
CUTLINE
STRIP LEADS J9
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO.2



ELECTRICAL SCHEMATIC


SEE NOTE 3
SEE NOTE 4
SEE NOTE 3
3
A
A
B
B
P1/A6 J9
W3 1014496 REV S/N RAY
P2/A4 J2
1
6
59 LG
SEE NOTE 5
2
62.0±1.0

FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04138 DATE 24Oct63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND1002032
2. MIL-I-631 TYPE F, FORM U2 GRADE A CLASS I, CATEGORY I FOR FIND NO. 6 AWG 5/8 IN.
3. MARK .12 HIGH BLACK CHARACTERS PER ND1002019
4. BOND FIND NO 3 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE.
5. MARK .08 HIGH BLACK PER ND1002023.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	SEE NOTE 2	SLEEVING	6
AR	ND1002181 TYPE I CL I	WIRE, ELECTRICAL AWG 22 BLK	5
AR	ND1002181 TYPE I CL I	WIRE, ELECTRICAL AWG 22 WHT	4
1	1014472-3	BAND, MARKER, CABLE	3
1	MS3126F-24-61SZ	CONNECTOR	2
1	MS3126F-24-61PY	CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN DATE 30AUG63
CHECKED 5 Oct 63
APPROVAL 14Oct63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

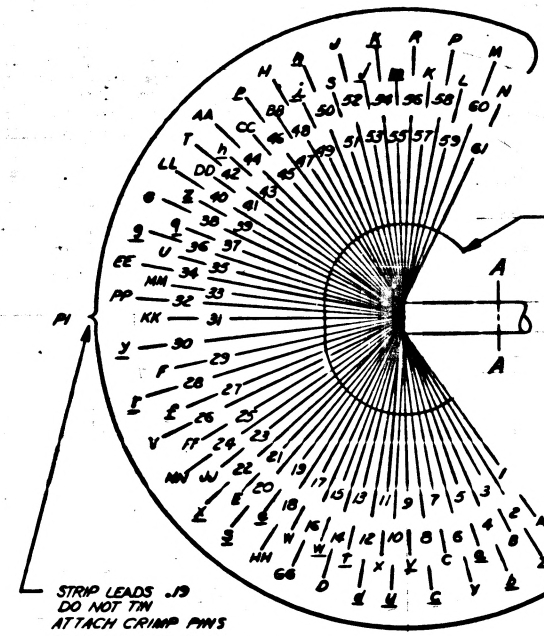
CABLE ASSEMBLY
W3
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —— SIZE J NASA DRAWING NO. 1014496
SCALE 1/1 WT SHEET 1 OF 1

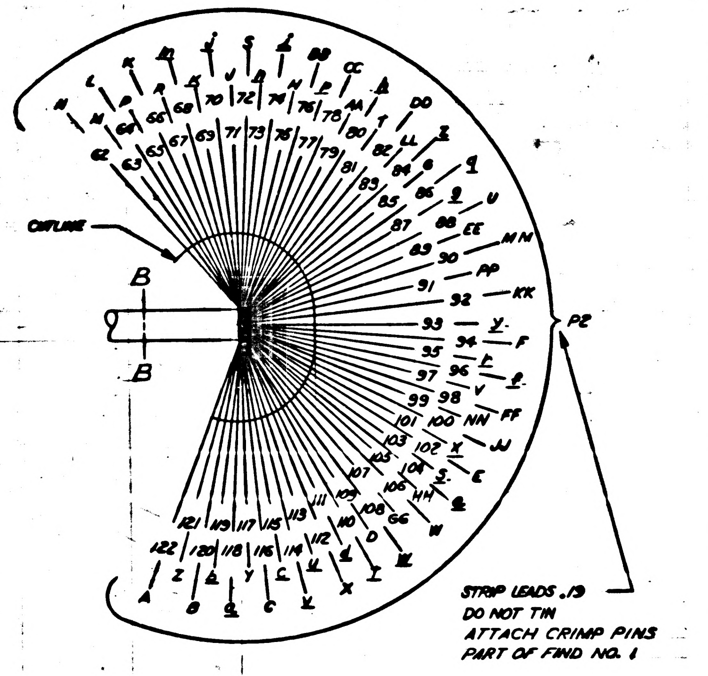
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVALS
-	CL B RELEASED PER TDRR 2432		
A	CHANGED PER TDRR 07226 DR S.R. Leonard CHK J.C. Jubert APPD	16 Nov 64	H Eby

ASSEMBLY INFORMATION CHART

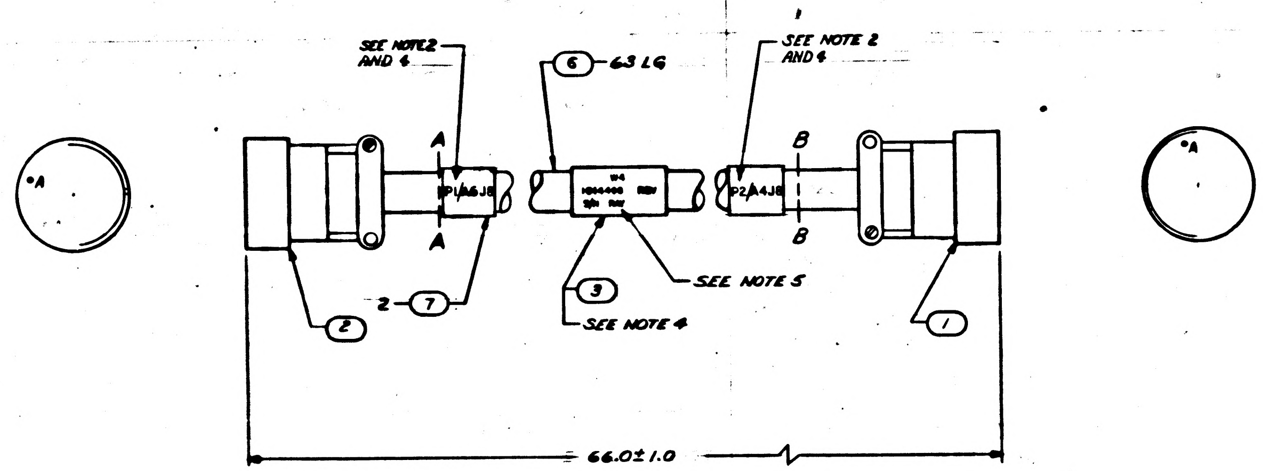
FROM		DESCRIPTION			TO	
REMARKS	RUN NO	COLOR	AWG	FIND NO	RUN NO	REMARKS
	1	BLK	22	5	122	
	3	WHT			120	
	7	BLK	22	5	116	
	14	WHT			109	
	21	BLK	22	5	102	
	29	WHT			94	
	38	BLK	22	5	85	
	48	WHT			75	
	52	BLK	22	5	71	
	57	WHT			66	
	59	BLK	22	5	64	
	60	WHT			63	
	61	BLK	22	5	62	
	58	WHT			65	
	56	BLK	22	5	67	
	51	WHT			72	
	42	BLK	22	5	81	
	35	WHT			88	
	26	BLK	22	5	97	
	17	WHT			106	
	11	BLK	22	5	112	
	6	WHT			117	
	5	BLK	22	5	118	
	4	WHT			119	
	8	BLK	22	5	115	
	12	WHT			111	
	19	BLK	22	5	104	
	27	WHT			96	
	36	BLK	22	5	87	
	43	WHT			80	
	49	BLK	22	5	74	
	53	WHT			70	
	54	BLK	22	5	69	
	55	WHT			68	
	50	BLK	22	5	73	
	46	WHT			77	
	37	BLK	22	5	86	
	28	WHT			95	
	20	BLK	22	5	103	
	13	WHT			110	
	10	BLK	22	5	113	
	9	WHT			114	
	15	BLK	22	5	108	
	22	WHT			101	
	30	BLK	22	5	93	
	39	WHT			84	
	44	BLK	22	5	79	
	47	WHT			76	
	45	BLK	22	5	78	
	41	WHT			82	
	34	BLK	22	5	89	
	25	WHT			98	
	16	BLK	22	5	107	
	18	WHT			105	
	23	BLK	22	5	100	
	31	WHT			92	
	40	BLK	22	5	83	
	33	WHT			90	
	24	BLK	22	5	99	
	32	WHT			91	
	2	BLK	22	4	121	

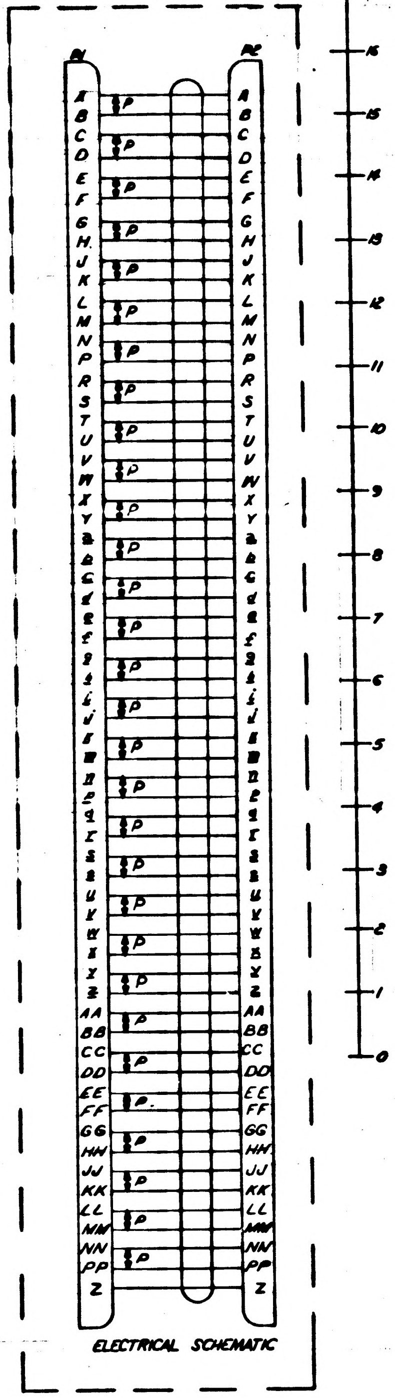


STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 2



STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 1





FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 6435 DATE 24 Oct 63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND1002032
2. MARK .12 HIGH BLACK CHARACTERS PER ND1002019.
3. MIL-I-631 TYPE F, FORM U, GRADE A CLASS I CATEGORY I,
FOR FIND NO. 6 AWG 5/8
4. BOND USING TETRAHYDROFURAN WITH
10% POLYVINYL CHLORIDE
5. MARK .08 HIGH BLACK PER ND1002023.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2	1014472-4A	BAND MARKER, CABLE	7
AR	SEE NOTE 3	SLEEVING	6
AR	1014341-11	WIRE, ELECTRICAL	5
AR	MIL-W-16878/4 TYPE E, 22 BLK	WIRE, ELECTRICAL	4
1	1014472-4	BAND MARKER, CABLE	3
1	MS3126F-24-61PX	CONNECTOR	2
1	MS3126F-24-61SY	CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN J.J. McDonald DATE
CHECKED A. Cappon
APPROVAL H. Mehr 19 OCT 63
APPROVAL
APPROVAL
NASA APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

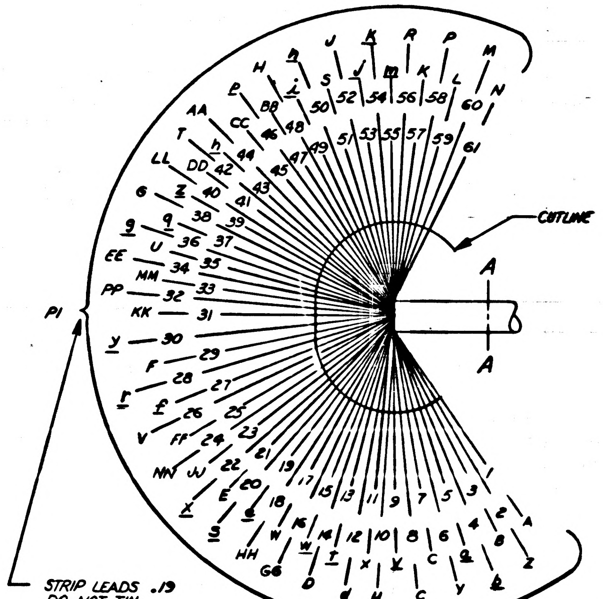
CABLE ASSEMBLY
W4
ACQ'CTS OPERATION CONSOLE

CODE IDENT NO. | SIZE J | DRAWING NO. 1014498
SCALE 1/1

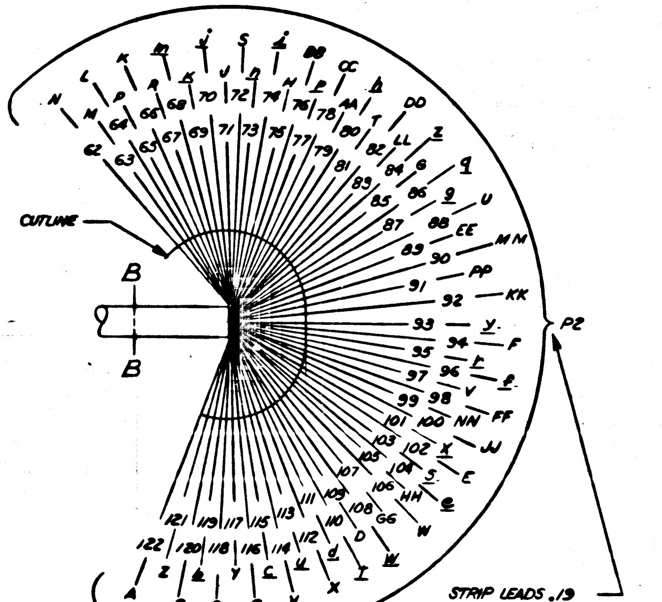
1014498

1014498

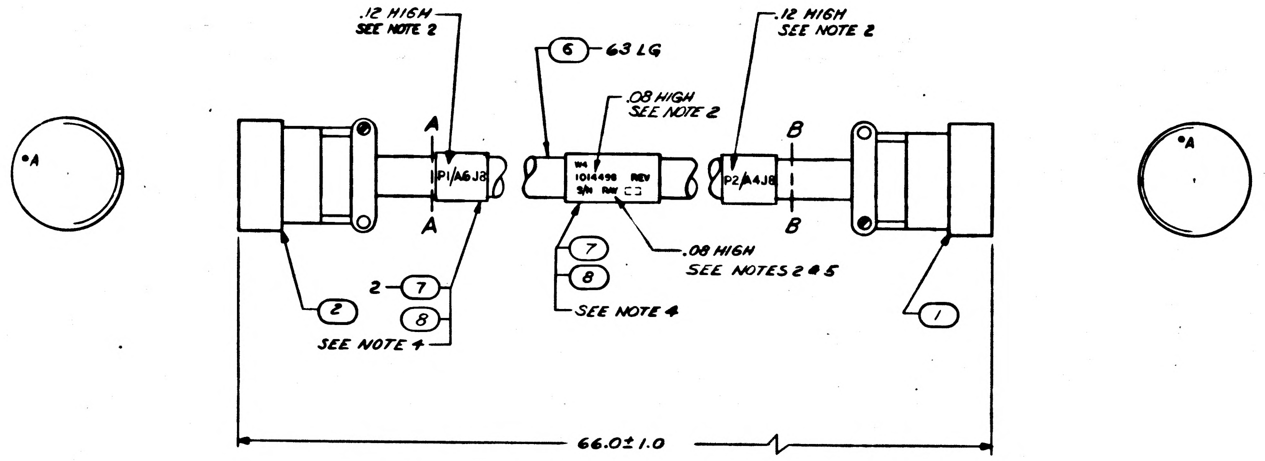
ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO	COLOR	AWG	FIND NO	RUN NO	REMARKS
	1	BLK	22	5	122	
	3	WHT			120	
	7	BLK	22	5	116	
	14	WHT			109	
	21	BLK	22	5	102	
	29	WHT			94	
	38	BLK	22	5	85	
	48	WHT			75	
	52	BLK	22	5	71	
	57	WHT			66	
	59	BLK	22	5	64	
	60	WHT			63	
	61	BLK	22	5	62	
	58	WHT			65	
	56	BLK	22	5	67	
	51	WHT			72	
	42	BLK	22	5	81	
	35	WHT			88	
	26	BLK	22	5	97	
	17	WHT			106	
	11	BLK	22	5	112	
	6	WHT			117	
	5	BLK	22	5	118	
	4	WHT			119	
	8	BLK	22	5	115	
	12	WHT			111	
	19	BLK	22	5	104	
	27	WHT			96	
	36	BLK	22	5	87	
	43	WHT			80	
	49	BLK	22	5	74	
	53	WHT			70	
	54	BLK	22	5	69	
	55	WHT			68	
	50	BLK	22	5	73	
	46	WHT			77	
	37	BLK	22	5	86	
	28	WHT			95	
	20	BLK	22	5	103	
	13	WHT			110	
	10	BLK	22	5	113	
	9	WHT			114	
	15	BLK	22	5	108	
	22	WHT			101	
	30	BLK	22	5	93	
	39	WHT			84	
	44	BLK	22	5	79	
	47	WHT			76	
	45	BLK	22	5	78	
	41	WHT			82	
	34	BLK	22	5	89	
	25	WHT			98	
	16	BLK	22	5	107	
	18	WHT			105	
	23	BLK	22	5	100	
	31	WHT			92	
	40	BLK	22	5	83	
	33	WHT			90	
	24	BLK	22	5	99	
	32	WHT			91	
	2	BLK	22	4	121	

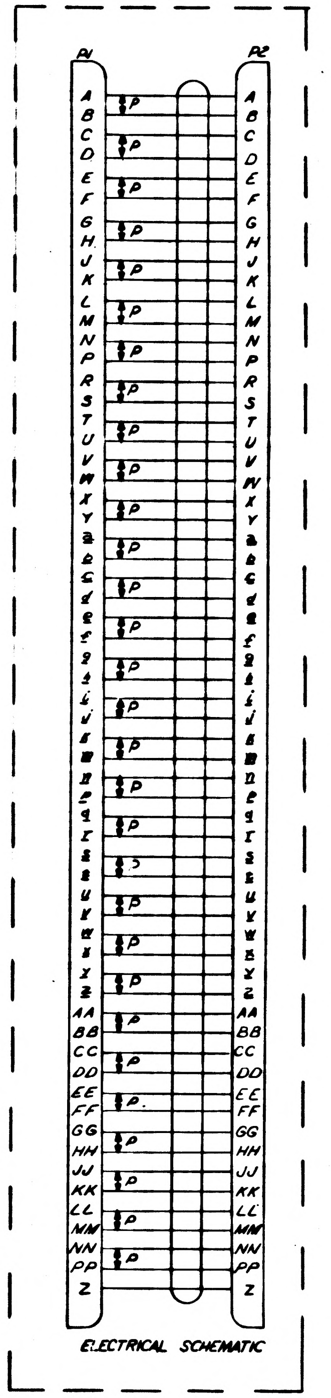


STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 2



STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 1





NOTES
1. FOR FABRICATION SEE ND1002032
2. MARK GOTHIC CHARACTERS AS SHOWN PER ND1002019 USING BLACK INK 1006256-001
3. MIL-I-631 TYPE F, FORM U2 GRADE 2 CLASS I CATEGORY I, FOR FIND NO. 6 AWG 5/8
4. BOND USING FIND NO 8 APPROX AS SHOWN
5. SERIALIZE PER ND1002023
6. CRIMP PER ND1002206

REVISIONS				
SYM	DESCRIPTION		DATE	APPROVED
-	CLB RELEASED PER TDRR 39138			
A	CHANGED PER TDRR 07226 DR J.R Leonard CHK J. Joubert APPD		16 APR 64	
B	UPGRADE TO CLASS A WITH CHANGE PER TDRR 18942 DR R Burt CHK R. Warta APPD		30 JUNE 65	

	QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
	AR	1006253	ADHESIVE	8
	3	1014472-4A	BAND MARKER, CABLE	7
*	5.3	SEE NOTE 3	SLEEVING	6
*	160	1014341-11	WIRE, ELECTRICAL	5
*	5.5	MIL-W-16878/4 TYPE E 22 BLK	WIRE, ELECTRICAL	4
	~~1~~	~~1014472-4~~	~~BAND MARKER, CABLE~~	~~3~~
	1	MS3126F-24-61PX	CONNECTOR	2
	1	MS3126F-24-61SY	CONNECTOR	1

LIST OF MATERIALS

* DENOTES LENGTH IN FEET

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/4 DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

NEXT ASSY	USED ON
1014465	
APPLICATION	

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN J.F. McDonald DATE
CHECKED A. Cappuccio
APPROVAL H. Weiss 19 OCT 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

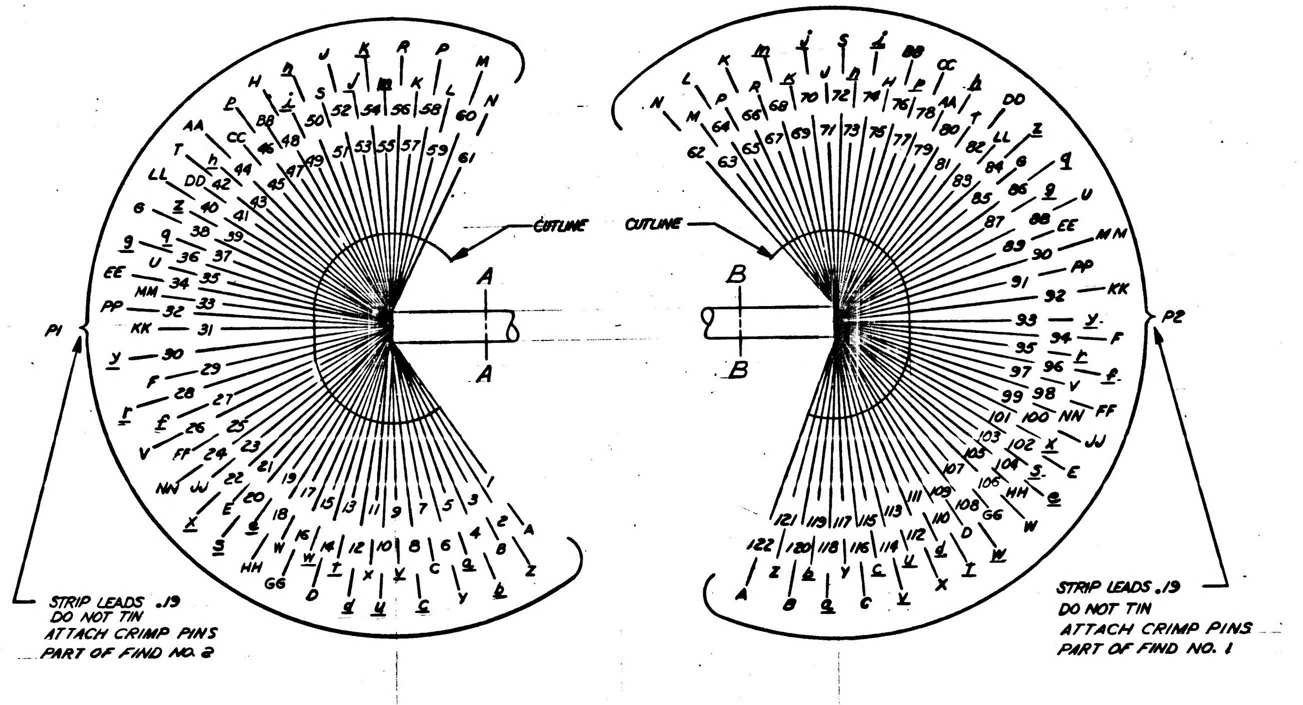
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W4
OPERATION CONSOLE

CODE IDENT NO —— SIZE J NASA DRAWING NO 1014498
SCALE 1/1 WT SHEET 1 OF 1

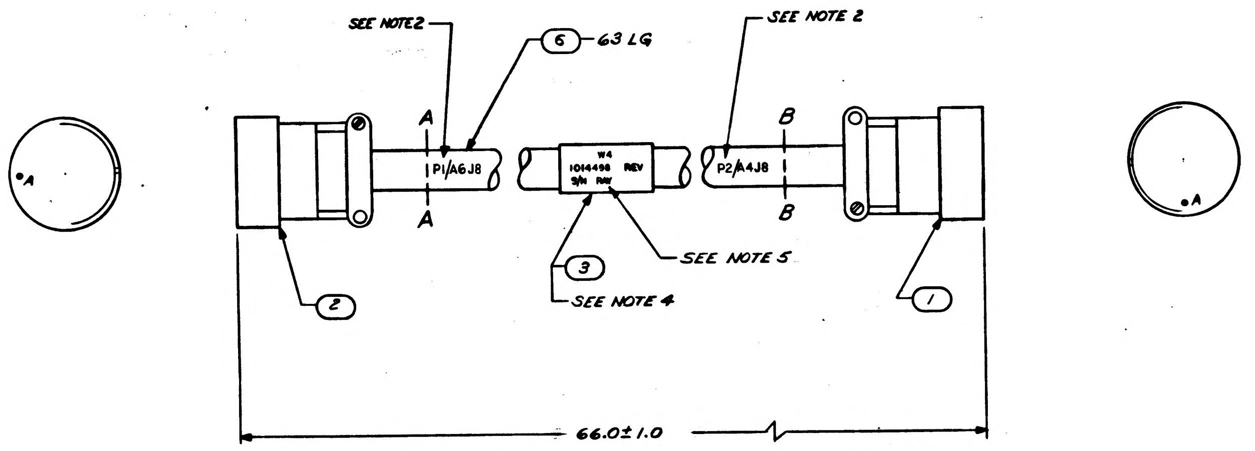
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED
-	CL B RELEASED PER TDRR 04138		

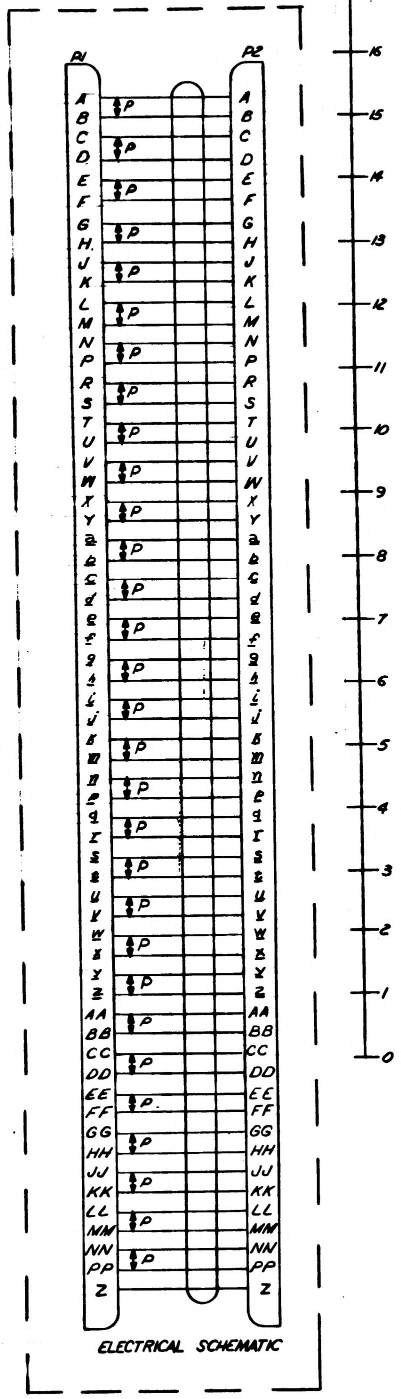
ASSEMBLY INFORMATION CHART						
FROM		DESCRIPTION			TO	
REMARKS	RUN NO	COLOR	AWG	FIND NO	RUN NO	REMARKS
	1	BLK	22	5	122	
	3	WHT			120	
	7	BLK	22	5	116	
	14	WHT			109	
	21	BLK	22	5	102	
	29	WHT			94	
	38	BLK	22	5	85	
	48	WHT			75	
	52	BLK	22	5	71	
	57	WHT			66	
	59	BLK	22	5	64	
	60	WHT			63	
	61	BLK	22	5	62	
	58	WHT			65	
	56	BLK	22	5	67	
	51	WHT			72	
	42	BLK	22	5	81	
	35	WHT			88	
	26	BLK	22	5	97	
	17	WHT			106	
	11	BLK	22	5	112	
	6	WHT			117	
	5	BLK	22	5	118	
	4	WHT			119	
	8	BLK	22	5	115	
	12	WHT			111	
	19	BLK	22	5	104	
	27	WHT			96	
	36	BLK	22	5	87	
	43	WHT			80	
	49	BLK	22	5	74	
	53	WHT			70	
	54	BLK	22	5	69	
	55	WHT			68	
	50	BLK	22	5	73	
	46	WHT			77	
	37	BLK	22	5	86	
	28	WHT			95	
	20	BLK	22	5	103	
	13	WHT			110	
	10	BLK	22	5	113	
	9	WHT			114	
	15	BLK	22	5	108	
	22	WHT			101	
	30	BLK	22	5	93	
	39	WHT			84	
	44	BLK	22	5	79	
	47	WHT			76	
	45	BLK	22	5	78	
	41	WHT			82	
	34	BLK	22	5	89	
	25	WHT			98	
	16	BLK	22	5	107	
	18	WHT			105	
	23	BLK	22	5	100	
	31	WHT			92	
	40	BLK	22	5	83	
	33	WHT			90	
	24	BLK	22	5	99	
	32	WHT			91	
	2	BLK	22	4	121	



STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 2

STRIP LEADS .19
DO NOT TIN
ATTACH CRIMP PINS
PART OF FIND NO. 1





FOR INFORMATION ONLY
CLASS B RELEASE TDRR NO. 04138 DATE 24 Oct 63

NOTES
1. FOR SYMBOLS, FABRICATION AND REQD TESTS SEE ND1002032
2. MARK .12 HIGH BLACK CHARACTERS PER ND1002019.
3. MIL-I-631 TYPE F, FORM U, GRADE A CLASS I CATEGORY I, FOR FIND NO.6 AWG 5/8
4. BOND FIND NO.3 USING TETRAHYDROFURAN WITH 10% POLYVINYL CHLORIDE.
5. MARK .08 HIGH BLACK PER ND1002023.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	SEE NOTE 3	SLEEVING	6
AR	1014341-11	WIRE, ELECTRICAL	5
AR	ND1002181 TYPE I CL I	WIRE, ELECTRICAL AWG 22 BLK	4
1	1014472-3	BAND MARKER, CABLE	3
1	MS3126F-24-61PX	CONNECTOR	2
1	MS3126F-24-61SY	CONNECTOR	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1014465	1020002

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.
TOLERANCES ON
FRACTIONS ± 1/4 DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

RAYTHEON CO.
LEXINGTON, MASS.
CONTRACT NO NAS 9-498
DRAWN J. J. McConnell DATE Aug 63
CHECKED A. Caggiano 5 Oct 63
APPROVAL H. Walker JAK 19 Oct 63
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

CABLE ASSEMBLY
W4
AGC/CTS OPERATION CONSOLE

CODE IDENT NO. —
SIZE J
NASA DRAWING NO 1014498
SCALE 1/1
WT
SHEET 1 OF 1

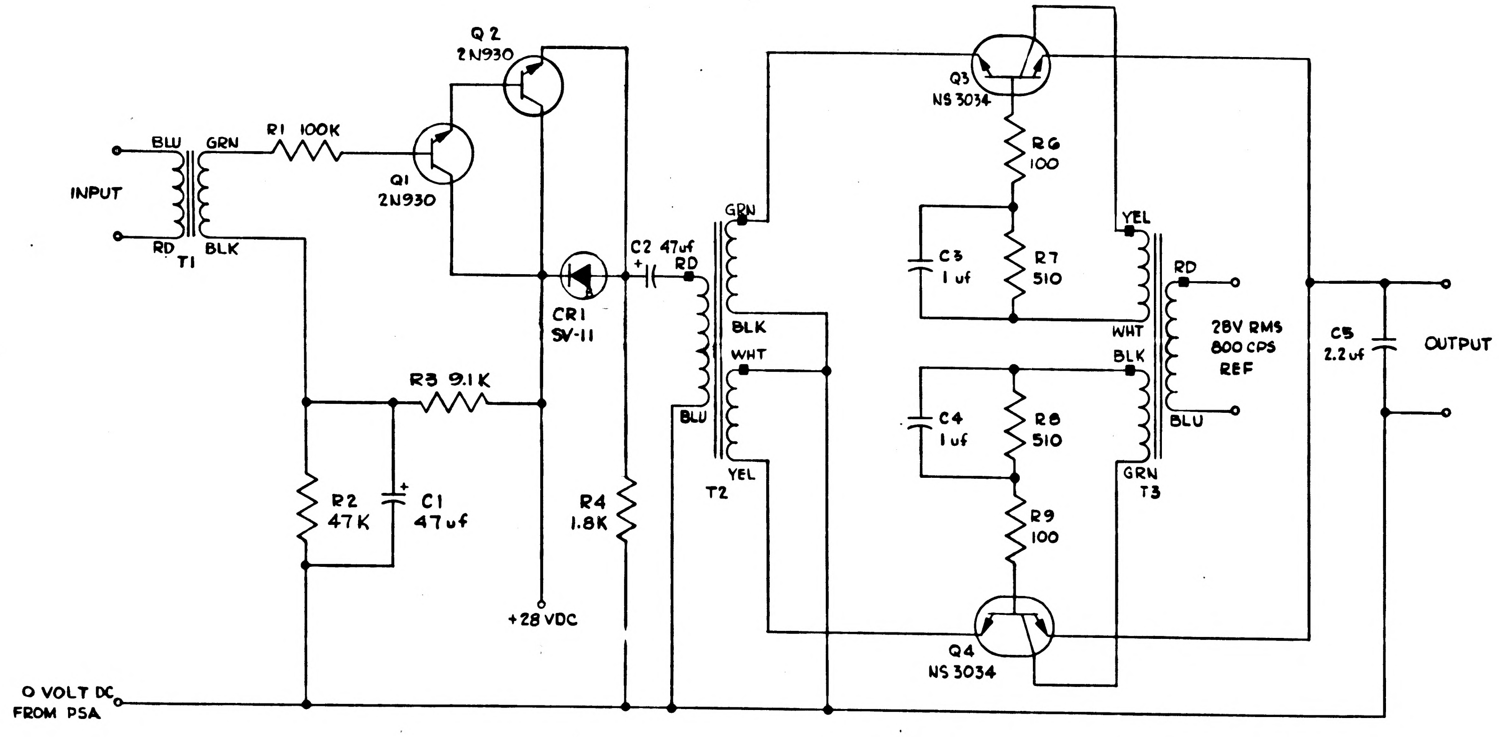
1014498

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED TDRR 00160	3 DEC 62	WK

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00160 **DATE**


Q2
2N930
BLU
GRN
R1 100K
Q1
2N930
INPUT
RD
T1
BLK
C2 47uf
+
RD
CR1
SV-11
R3 9.1K
R2
47K
+
C1
47uf
R4
1.8K
+28 VDC
0 VOLT DC
FROM PSA
GRN
BLK
WHT
BLU
YEL
T2
Q3
NS 3034
R6
100
C3
1 uf
R7
510
C4
1 uf
R8
510
R9
100
Q4
NS 3034
YEL
WHT
BLK
GRN
T3
RD
BLU
28V RMS
800 CPS
REF
C5
2.2 uf
OUTPUT

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
C1		CAPACITOR	47 uf	10%	50V
C2			47 uf	10%	50V
C3			1 uf	10%	25V
C4			1 uf	10%	25V
C5		↓	2.2 uf	10%	25V
CR1		DIODE	SV-11	5%	
Q1		TRANSISTOR	2N930		
Q2			2N930		
Q3			NS3034		
Q4		↓	NS3034		
R1		RESISTOR	100K	5%	1/10W
R2			47K	5%	1/10W
R3			9.1K	5%	1/10W
R4			1.8K	5%	1/2W
R5	DELETED				
R6			100	5%	1/10W
R7			510	5%	1/10W
R8			510	5%	1/10W
R9		↓	100	5%	1/10W
T1		TRANSFORMER			
T2			DO-T41		
T3		↓	DO-T40		

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL RESISTANCE VALUES EXPRESSED IN OHMS, UNLESS OTHERWISE SPECIFIED.
3. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO
CONTRACT
DRAWN R. LaDue DATE 20 NOV 62
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL W J Rhine 12-12-62
MIT APPROVAL 12/12/62

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DEMODULATOR ATTITUDE ERROR
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014500
SCALE —
WT
SHEET OF

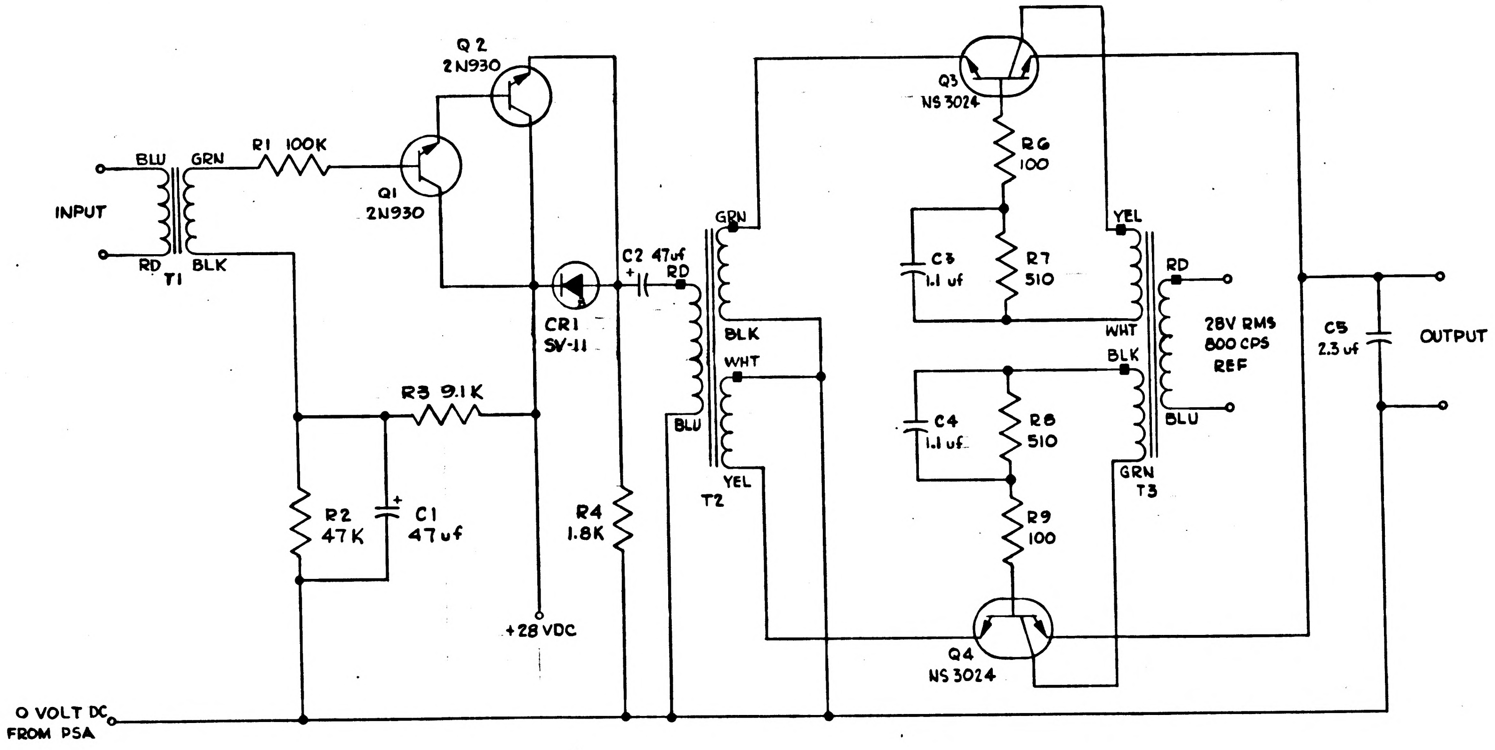
al Woodin 1 379

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED TDRR 00160	3 DEC 62	WK
B	ADDED PART NUMBERS TDRR 00323	15 JAN 63	6 FEB 63 WK

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00160 **DATE** 12/12/63



REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
C1	1006755-89	CAPACITOR	47 uf	10%	35 V
C2	1006755-89		47 uf	10%	35 V
C3	1010279-		1.1 uf	10%	20 V
C4	1010279-		1.1 uf	10%	20 V
C5	1010279-		2.3 uf	10%	10 V
CR1	1010372-19	DIODE	H28548	5%	11V
Q1	1010397	TRANSISTOR	2N930		
Q2	1010397		2N930		
Q3	1010367		NS3024		
Q4	1010367		NS3024		
R1	1006750-80	RESISTOR	100K	5%	1/4 W
R2	1006750-72		47K	5%	1/4 W
R3	1006750-55		9.1K	5%	1/4 W
R4	1006760-38		1.8K	5%	1/2 W
R5	DELETED				
R6	1006750-8		100	5%	1/4 W
R7	1006750-25		510	5%	1/4 W
R8	1006750-25		510	5%	1/4 W
R9	1006750-8		100	5%	1/4 W
T1		TRANSFORMER			
T2			DI-T240		
T3			DO-T40		

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ALL RESISTANCE VALUES EXPRESSED IN OHMS, UNLESS OTHERWISE SPECIFIED.
3. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN R. La Dine DATE 20 NOV 62
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL W J Rhine 12-12-62
MIT APPROVAL 12/12/62

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DEMODULATOR ATTITUDE ERROR SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014500
SCALE #
WT
SHEET 1 OF

al Woodin 879

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

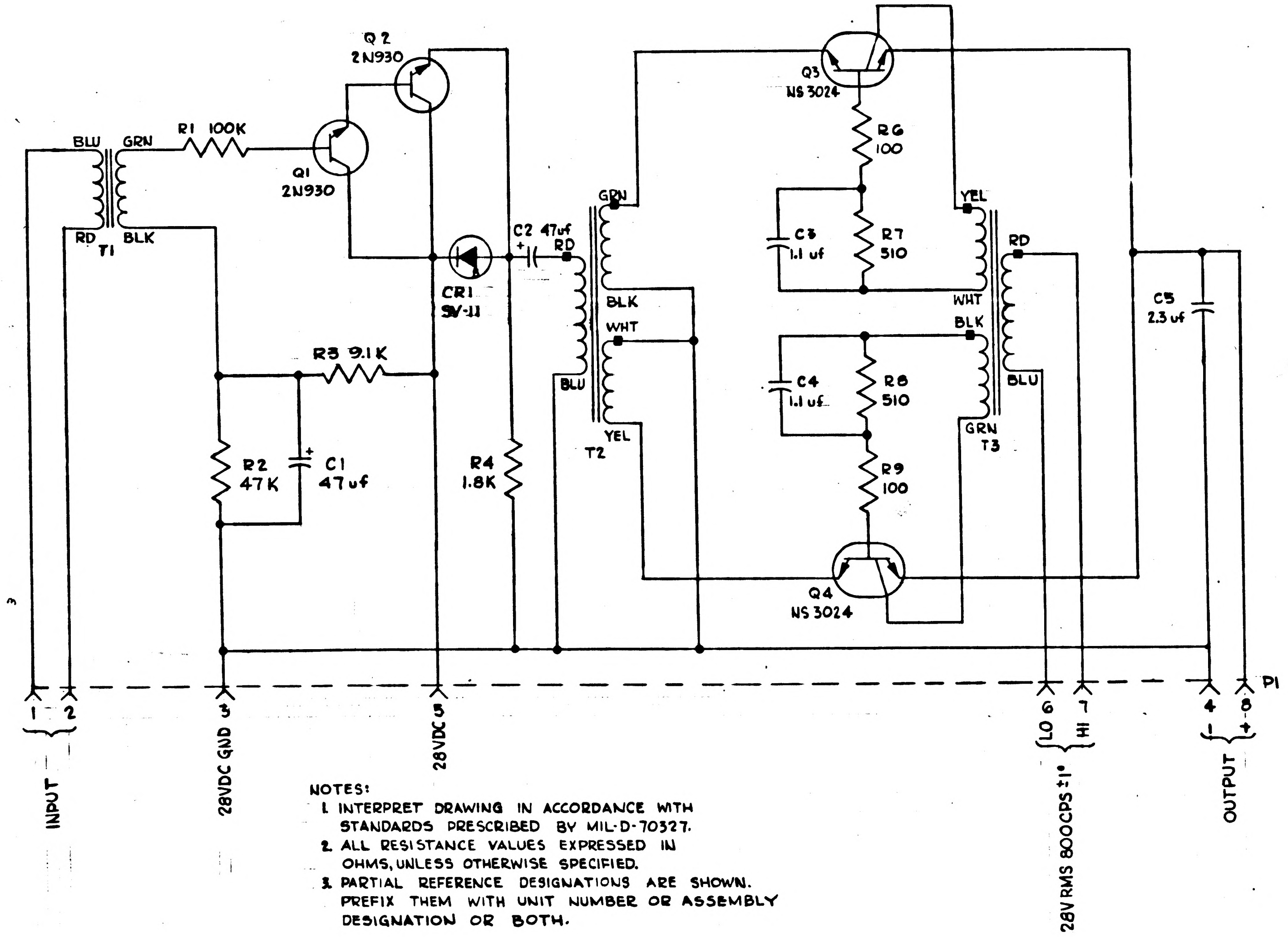
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED TDRR 00160	3 DEC 62	WK
B	ADDED PART NUMBERS TDRR 00323	15 Jan 63	6 FEB 63 WK.
C	ADDED P1 TDRR 00793	10 APRIL 63	WK.

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00160 **DATE** 12/12/63

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
C1	1006755-89	CAPACITOR	47 uf	10%	35 V
C2	1006755-89		47 uf	10%	35 V
C3	1010279-		1.1 uf	10%	20 V
C4	1010279-		1.1 uf	10%	20 V
C5	1010279-		2.3 uf	10%	10 V
CR1	1010372-19	DIODE	H28548	5%	11V
P1	1010318-2	CONNECTOR			
Q1	1010397	TRANSISTOR	2N930		
Q2	1010397		2N930		
Q3	1010367		NS3024		
Q4	1010367		NS3024		
R1	1006750-80	RESISTOR	100K	5%	1/4 W
R2	1006750-72		47K	5%	1/4 W
R3	1006750-55		9.1K	5%	1/4 W
R4	1006760-38		1.8K	5%	1/2 W
R5	DELETED				
R6	1006750-8		100	5%	1/4 W
R7	1006750-25		510	5%	1/4 W
R8	1006750-25		510	5%	1/4 W
R9	1006750-8		100	5%	1/4 W
T1		TRANSFORMER			
T2			DI-T240		
T3			DO-T40		



NOTES:

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2. ALL RESISTANCE VALUES EXPRESSED IN OHMS, UNLESS OTHERWISE SPECIFIED.
3. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN R. La Due DATE 20 NOV 62
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL W J Rhine 12-12-62
MIT APPROVAL 12/12/62

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DEMODULATOR ATTITUDE ERROR
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014500
SCALE #
WT
SHEET OF

1014500 C

INCHES
1 2
PHOTOGRAPHIC SCALE ONLY

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REVISIONS

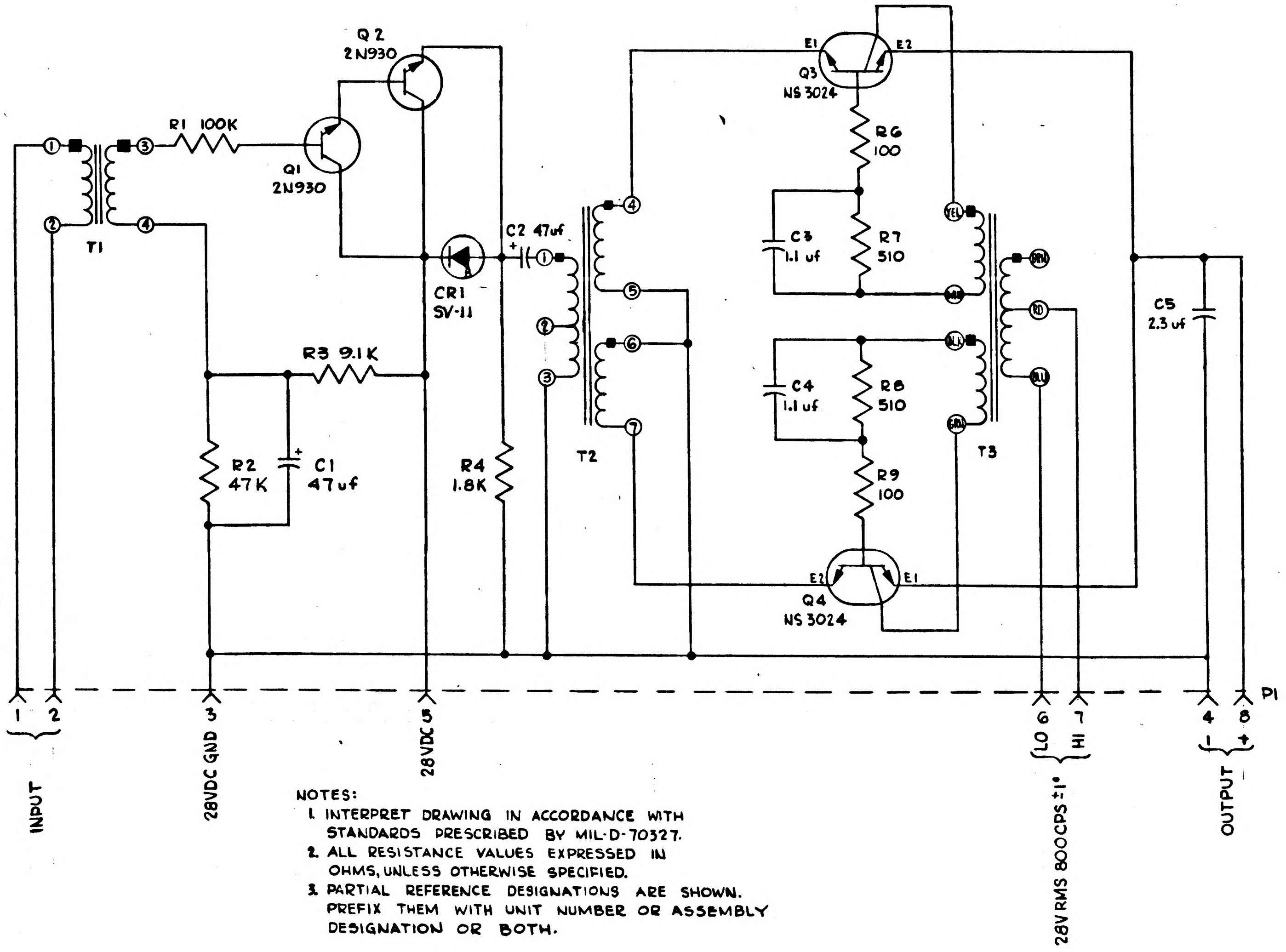
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED TDRR 00160	3 DEC 62	WK
B	ADDED PART NUMBERS TDRR 00323	15 JAN 63	6 FEB 63 WK
C	ADDED P1 TDRR 00793	10 APRIL 63	WK
D₂	(D1) ADDED PART NO TO C3, C4, C5, T1, T2, T3 (D2) REVISED T1, T2 & T3 TDRR 01347	2 MAY 63	22 May 63 WK

(M)

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00160 **DATE** 12/12/63

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
C1	1006755-89	CAPACITOR	47 uf	10%	35 V
C2	1006755-89		47 uf	10%	35 V
C3	1010279-249		1.1 uf	10%	20 V
C4	1010279-249		1.1 uf	10%	20 V
C5	1010279-250		2.3 uf	10%	20 V
CR1	1010372-19	DIODE	H28548	5%	11V
P1		CONNECTOR			
Q1	1010397	TRANSISTOR	2N930		
Q2	1010397		2N930		
Q3	1010367		NS3024		
Q4	1010367		NS3024		
R1	1006750-80	RESISTOR	100K	5%	1/4 W
R2	1006750-72		47K	5%	1/4 W
R3	1006750-55		9.1K	5%	1/4 W
R4	1006760-38		1.8K	5%	1/2 W
R5	DELETED				
R6	1006750-8		100	5%	1/4 W
R7	1006750-25		510	5%	1/4 W
R8	1006750-25		510	5%	1/4 W
R9	1006750-8		100	5%	1/4 W
T1	1010454	TRANSFORMER			
T2	1010313				
T3	1010315				



NOTES:
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QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

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INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO
CONTRACT
DRAWN R. LaDue DATE 20 NOV 62
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL W J Rhine 12-12-62
MIT APPROVAL 12/12/62

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DEMODULATOR ATTITUDE ERROR
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014500
SCALE —
WT
SHEET OF

1014500 D

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1 · 379

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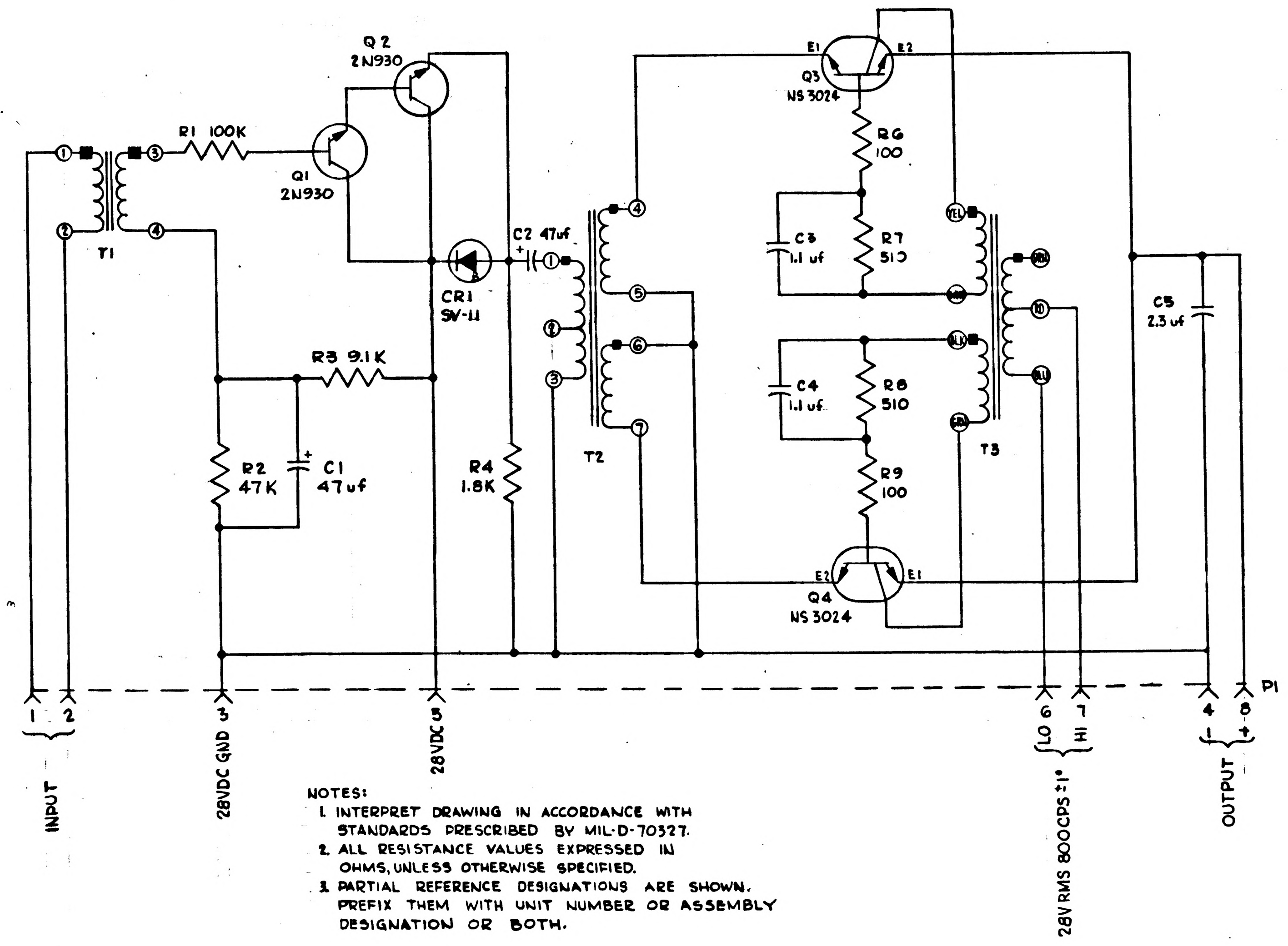
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED TDRR 00160	3 DEC 62	WK
B	ADDED PART NUMBERS TDRR 00323	15 JAN 63	6 FEB 63 WK
Ⓜ C₁	ADDED P1 TDRR 00793	10 APRIL 63	WK.
Ⓜ D₂	Ⓓ₁ ADDED PART NO TO C3, C4, C5, T1, T2, T3 Ⓓ₂ REVISED T1, T2 & T3 TDRR 01347	2 MAY 63	22 May 63 WK
E₁	Ⓔ₁ ADDED P/N TO P1 and upgraded to Class A per TDRR 01626	17 June 63	19 June 63 WK

~~00160~~ 12/12/62

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
C1	1006755-89	CAPACITOR	47 uf	10%	35 V
C2	1006755-89	↓	47 uf	10%	35 V
C3	1010279-249	↓	1.1 uf	10%	20 V
C4	1010279-249	↓	1.1 uf	10%	20 V
C5	1010279-250	↓	2.3 uf	10%	20 V
CR1	1010372-19	DIODE	H28548	5%	11V
P1	1010318-2	CONNECTOR			
Q1	1010397	TRANSISTOR	2N930		
Q2	1010397	↓	2N930		
Q3	1010367	↓	NS3024		
Q4	1010367	↓	NS3024		
R1	1006750-80	RESISTOR	100K	5%	1/4 W
R2	1006750-72	↓	47K	5%	1/4 W
R3	1006750-55	↓	9.1K	5%	1/4 W
R4	1006760-38	↓	1.8K	5%	1/2 W
R5	DELETED				
R6	1006750-8	↓	100	5%	1/4 W
R7	1006750-25	↓	510	5%	1/4 W
R8	1006750-25	↓	510	5%	1/4 W
R9	1006750-8	↓	100	5%	1/4 W
T1	1010454	TRANSFORMER			
T2	1010313	↓			
T3	1010315	↓			



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MASTER

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LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
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DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO. CONTRACT
DRAWN R. LaDue DATE 20 NOV 62
CHECKED E. Albert Woodin 6/4/63
APPROVAL E. Albert Woodin 6/13/63
APPROVAL J. Atkins 6/11/63
NASA APPROVAL W. J. Rhine 12-12-62
MIT APPROVAL 12/12/62

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DEMODULATOR ATTITUDE ERROR
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014500
SCALE —
WT
SHEET OF

Al Woodin 1 879

1014500 E

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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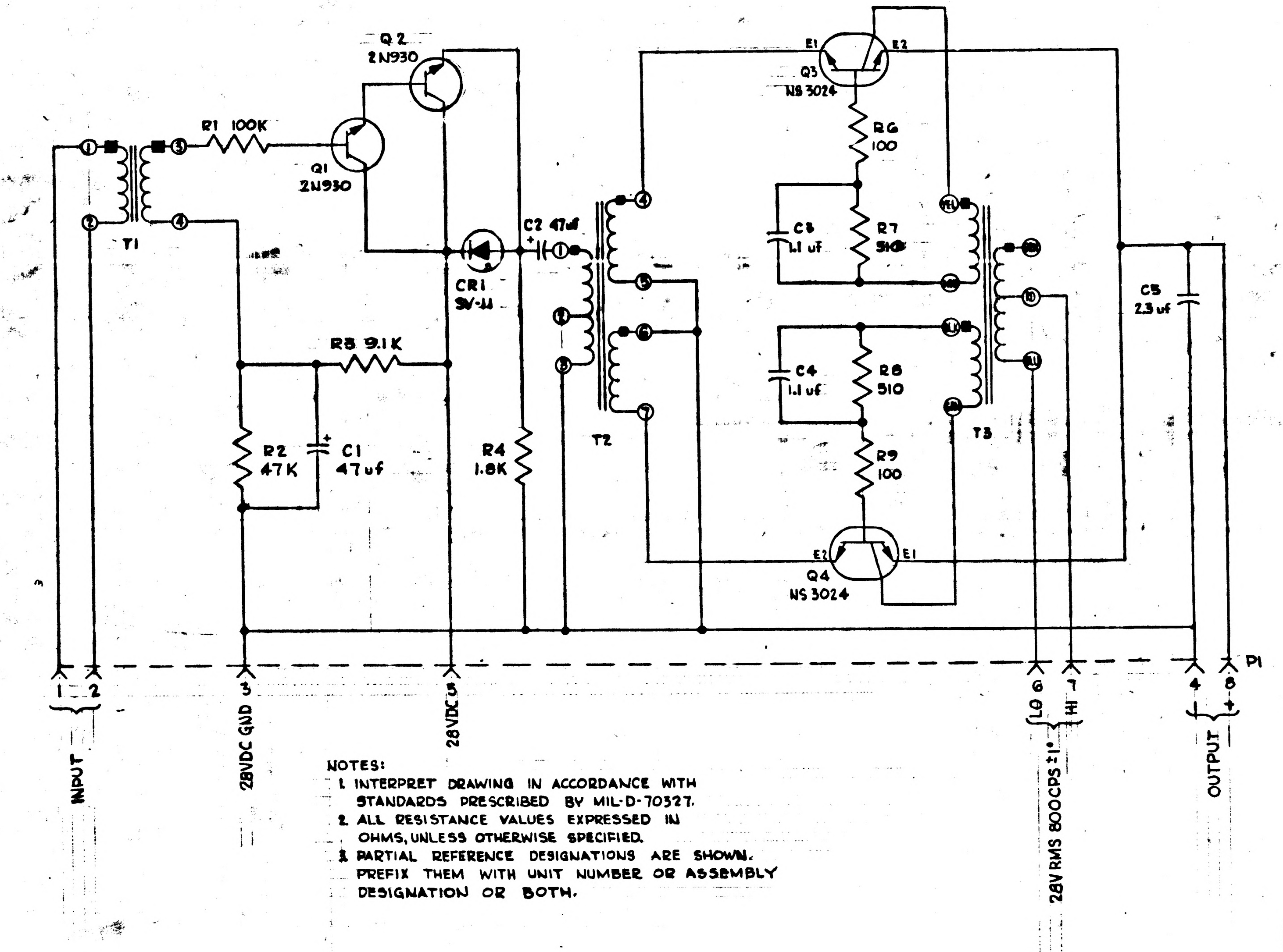
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED TDRR 00160	3 DEC 62	WK
B	ADDED PART NUMBERS TDRR 00323	15 JAN 63	6 FEB 63 WK
C₁	ADDED P1 TDRR 00793	10 APRIL 63	WK
D₂	Ⓓ₁ ADDED PART NO TO C3, C4, C5, T1, T2, T3 Ⓓ₂ REVISED T1, T2 & T3 TDRR 01347	2 MAY 63	2 May 63 WK
E₁	Ⓔ₁ ADDED P/N TO P1 and upgraded to Class A	11 June 63	
	per TDRR 01626	18 Jun 63	WK
F₃	Ⓔ₁ C5, 10V WAS 20V Ⓕ₁ R1 THRU R4, R6 THRU R9, 2% WAS 5% Ⓕ₃ T3 WAS 1010315 TDRR 01996	16 JULY 63	17 Jul 63 WK

00160 12/12/63

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
C1	1006755-89	CAPACITOR	47 uf	10%	35 V
C2	1006755-89		47 uf	10%	35 V
C3	1010279-249		1.1 uf	10%	20 V
C4	1010279-249		1.1 uf	10%	20 V
C5	1010279-250		2.3 uf	10%	10 V
CR1	1010372-19	DIODE	H28548	5%	11V
P1	1010318-2	CONNECTOR			
Q1	1010397	TRANSISTOR	2N930		
Q2	1010397		2N930		
Q3	1010367		NS3024		
Q4	1010367		NS3024		
R1	1006750-80	RESISTOR	100K	2%	1/4 W
R2	1006750-72		47K	2%	1/4 W
R3	1006750-55		9.1K	2%	1/4 W
R4	1006760-38		1.8K	2%	1/2 W
R5	DELETED				
R6	1006750-8		100	2%	1/4 W
R7	1006750-25		510	2%	1/4 W
R8	1006750-25		510	2%	1/4 W
R9	1006750-8		100	2%	1/4 W
T1	1010454	TRANSFORMER			
T2	1010313				
T3	1010315-1				



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MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN R. LaDue DATE 20 NOV 62
CHECKED E Albert Woodin 6/11/63
APPROVAL E Albert Woodin 6/12/63
APPROVAL J. Nevins 6/12/63
NASA APPROVAL W.J. Rhine 12-12-62
MIT APPROVAL W.J. Cuff 12/12/62

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DEMODULATOR ATTITUDE ERROR
SCHEMATIC DIAGRAM

CODE IDENT NO. SIZE D NASA DRAWING NO. 1014500
SCALE — WT SHEET OF

1014500 E

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

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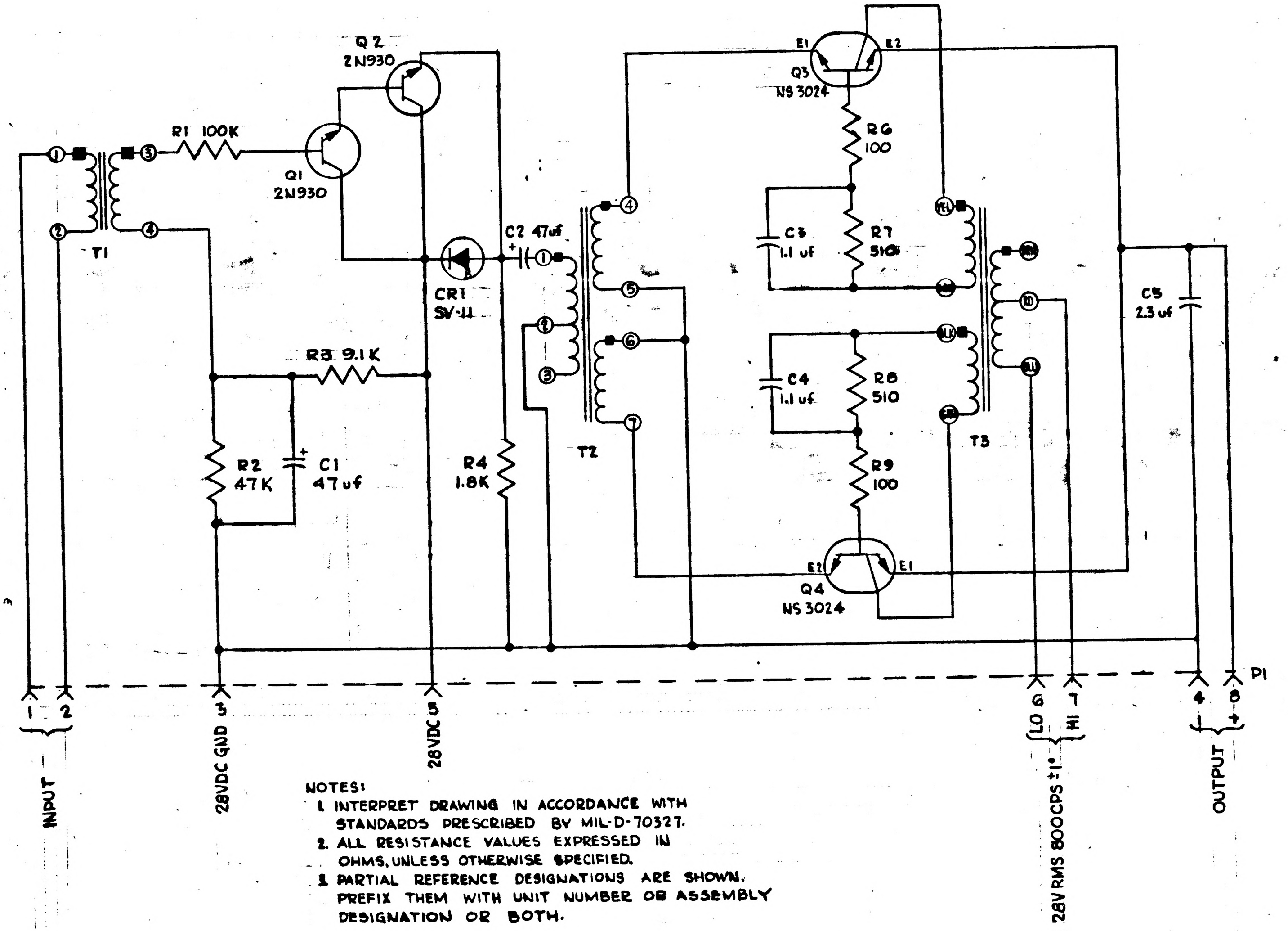
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED TDRR 00160	3 DEC 62	WK
B	ADDED PART NUMBERS TDRR 00323	15 JAN 63	6 FEB 63 WK
C₁	ADDED P1 TDRR 00793	10 APRIL 63	WK
D₂	(D₁) ADDED PART NO TO C3, C4, C5, T1, T2, T3 (D₂) REVISED T1, T2 & T3 TDRR 01347	2 MAY 63	22 May 63 WK
E₁	(E₁) ADDED P/N TO P1 and upgraded to Class A per TDRR 01626	17 June 63	18 July 63 WK
F₃	(F₁) C5, 10V WAS 20V (F₂) R1 THRU R4, R6 THRU R9, 2% WAS 5% (F₃) T3 WAS 1010315 TDRR 01996	16 JULY 63	17 July 63 WK
G	MOVED GROUND CONN. FROM TERMINAL 3 TO TERMINAL 2 OF T2 TDRR 02521	13 AUG 63	WK

00160 12/12/63

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
C1	1006755-89	CAPACITOR	47 uf	10%	35 V
C2	1006755-89	↓	47 uf	10%	35 V
C3	1010279-249	↓	1.1 uf	10%	20 V
C4	1010279-249	↓	1.1 uf	10%	20 V
C5	1010279-250	↓	2.3 uf	10%	10 V
CR1	1010372-19	DIODE	H28548	5%	11V
P1	1010318-2	CONNECTOR			
Q1	1010397	TRANSISTOR	2N930		
Q2	1010397	↓	2N930		
Q3	1010367	↓	NS3024		
Q4	1010367	↓	NS3024		
R1	1006750-80	RESISTOR	100K	2%	1/4 W
R2	100 750-72	↓	47K	2%	1/4 W
R3	1006750-55	↓	9.1K	2%	1/4 W
R4	1006760-38	↓	1.8K	2%	1/2 W
R5	DELETED	↓			
R6	1006750- 8	↓	100	2%	1/4 W
R7	1006750-25	↓	510	2%	1/4 W
R8	1006750-25	↓	510	2%	1/4 W
R9	1006750-[illegible]	↓	100	2%	1/4 W
T1	1010454	TRANSFORMER			
T2	1010313	↓			
T3	1010315-1	↓			



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HEAT TREATMENT —
FINAL FINISH —

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CAMBRIDGE, MASS.
DWG. NO.
CONTRACT
DRAWN R. La Due DATE 20 NOV 62
CHECKED C. Albert Woodin 6/4/63
APPROVAL C. Albert Woodin 6/4/63
APPROVAL J. Z. Kim 6/11/63
NASA APPROVAL E.J. Rhine 12-12-62
MIT APPROVAL W. J. Kupfer 12/12/62

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DEMODULATOR ATTITUDE ERROR SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014500
SCALE —
WT
SHEET OF

1014500

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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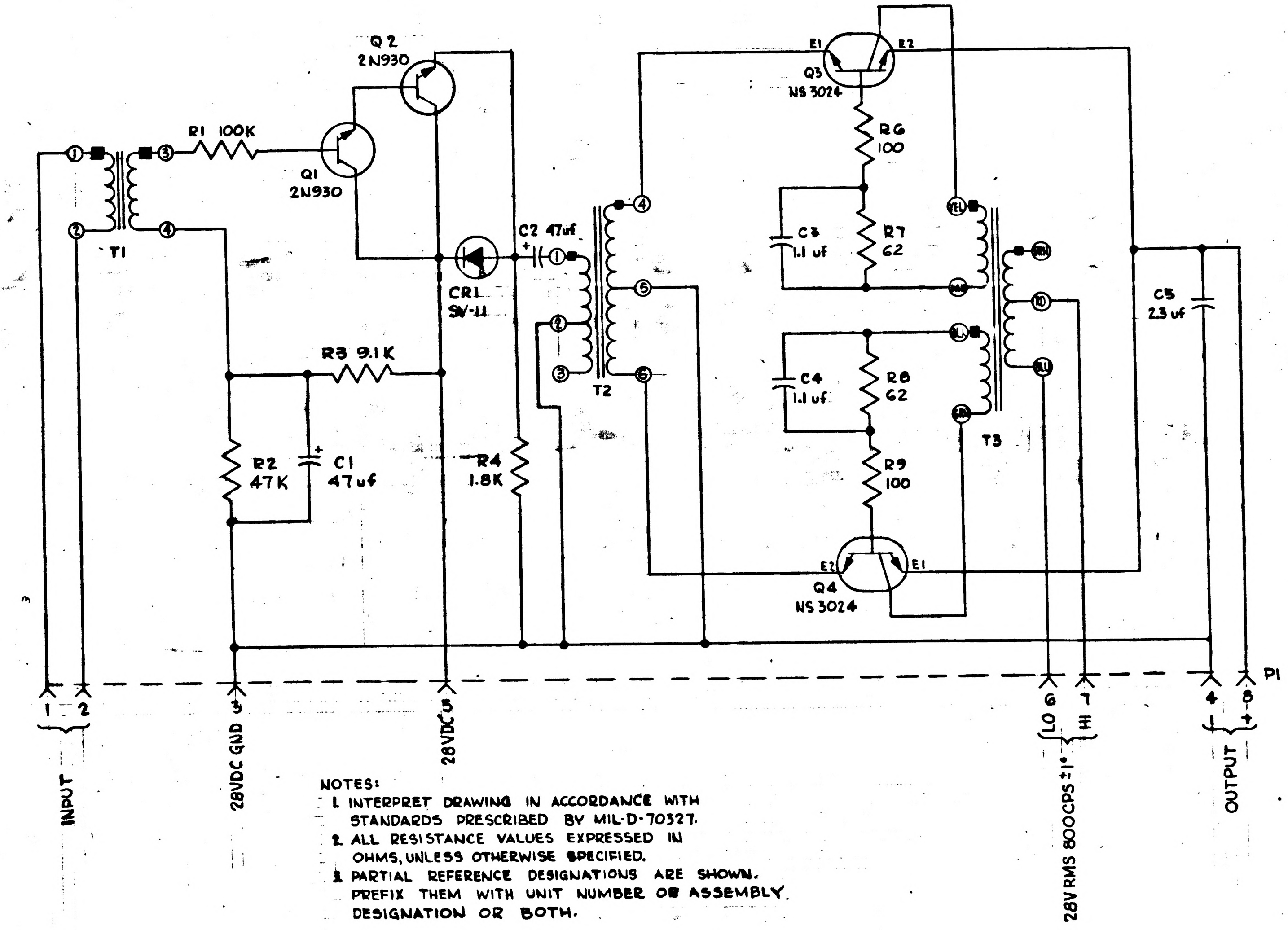
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED TDRR 00160	3 DEC 62	WK
B	ADDED PART NUMBERS TDRR 00323	8 Jan 63	6 FEB 63 WK
C₁	ADDED P1 TDRR 00793	10 APRIL 63	WK
D₂	(D₁) ADDED PART NO TO C3, C4, C5, T1, T2, T3 (D₂) REVISED T1, T2 & T3 TDRR 01347	2 MAY 63	22 May 63 WK
E₁	(E₁) ADDED P/N TO P1 and upgraded to Class A	17 June 63	
	per TDRR 01626	18 Jun 63	WK
F₃	(F₁) C5, 10V WAS 20V (F₂) R1 THRU R4, R6 THRU R9, 2% WAS 5% (F₃) T3 WAS 1010315 TDRR 01996	16 JULY 63	17 July 63 WK
G	MOVED GROUND CONN. FROM TERMINAL 3 TO TERMINAL 2 OF T2 TDRR 02521	13 AUG 63	WK
H	REVISED PER TDRR 03997	10-29-63	WK

~~00160 12/12/63~~

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
C1	1006755-89	CAPACITOR	47 uf	10%	35 V
C2	1006755-89		47 uf	10%	35 V
C3	1010279-249		1.1 uf	10%	20 V
C4	1010279-249		1.1 uf	10%	20 V
C5	1010279-250		2.3 uf	10%	10 V
CR1	1010372-19	DIODE	H28548	5%	11 V
P1	1010318-2	CONNECTOR			
Q1	1010397	TRANSISTOR	2N930		
Q2	1010397		2N930		
Q3	1010367		NS3024		
Q4	1010367		NS3024		
R1	1006750-80	RESISTOR	100K	2%	1/4 W
R2	1006750-72		47K	2%	1/4 W
R3	1006750-55		9.1K	2%	1/4 W
R4	1006760-38		1.8K	2%	1/2 W
R5	DELETED				
R6	1006750-8		100	2%	1/4 W
R7	1006750-3		62	2%	1/4 W
R8	1006750-3		62	2%	1/4 W
R9	1006750-8		100	2%	1/4 W
T1	1010454	TRANSFORMER			
T2	10102 1-5				
T3	1010315-1				



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FINAL FINISH —

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CONTRACT
DRAWN R. LaDue DATE 20 NOV 62
CHECKED C. Albert Woodin 6/11/63
APPROVAL C. Albert Woodin 6/11/63
APPROVAL 6/11/63
NASA APPROVAL W.J. Rhine 12-12-62
MIT APPROVAL 12/12/62

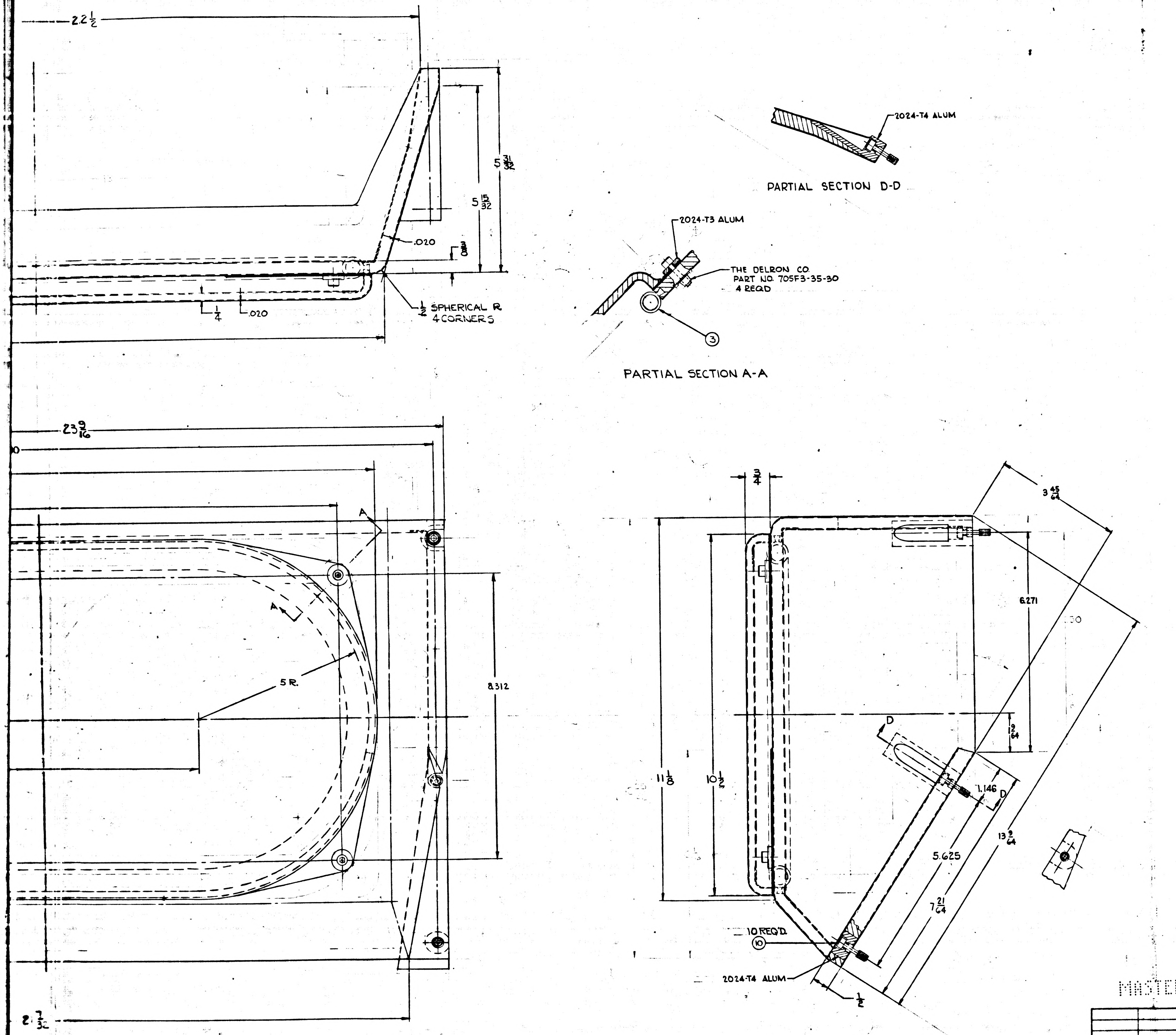
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

DEMODULATOR ATTITUDE ERROR
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014500
SCALE —
WT
SHEET OF

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A3	Ⓐ₁ REVISED CONFIGURATION Ⓐ₂ REVISED DIMENSIONS Ⓐ₃ ADDED NOTES Ⓐ₄ REVD IT 4 TDRR # 00583	11 MAR 63	WK.



22 1/2
5 31/32
5 15/32
.020
3/8
1/4
.020
1/2 SPHERICAL R
4 CORNERS
2024-T4 ALUM
PARTIAL SECTION D-D
2024-T3 ALUM
THE DELRON CO.
PART NO. 705F3-35-30
4 REQD
③
PARTIAL SECTION A-A
23 9/16
A
A
5 R.
8.312
3/4
3 45/64
6.271
11 1/8
10 1/2
D
D
1.146
5.625
13 9/64
7 21/64
10 REQD
⑩
2024-T4 ALUM
1/2
2 7/32

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00370 DATE 13 FEB 63

BAND HONEYCOMB EDGES USING HCA 501 EPOXY PUTTY.
BOND HONEYCOMB PER MIL-A-25463, TYPE II CLASS 2
FINISH: CHEMICAL FILM PER MIL-C-5541
APPLY COATS OF SEMI-GLOSS ENAMEL PER FED SPEC
TT-E-529, CLASS A, MEDIUM GRAY, COLOR NO. 26231 OF
FED STANDARD - 595.
1▷ MATERIAL: HONEYCOMB, 1/4 CELL SIZE, .004 FOIL GAUGE, 3003-H19 ALUM
7.9 DENSITY CORE, .010 SKIN GAUGE UNLESS OTHERWISE SPECIFIED, 2024-T3 ALUM

MASTER

ITEM	QUAN	PART NO.	PART NAME	MATERIAL	REMARKS
11	1		CONNECTOR RECEPTICALE ELECT.		BENDIX PT00SE-14-8S
10	10	1014503	SCREW-CAPTIVE	S.S.	MAKE FROM # 10-32 x 3/8
9	4		SCREW-CAP SOC. HD	S.S.	#4-40 x 1/2
8	4	1000093-14	SCREW-BUTTON HD	S.S.	#4-40 x 5/16
7	4		NUT-FLUSH MOUNTED CLINCH		K7001-04-4 (KAYLOCK)
6	4		NUT-HEX	4-40NC-3B	4CSK 8599166-004
5	1		PLATE, CONNECTOR	ALUM.	QQ-A-362 - T3
4					
3	1		GASKET		
2	1		COVER, OPTICS	1▷	
1	1		SHROUD, OPTICS	1▷	

LIST OF MATERIALS

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ±.005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

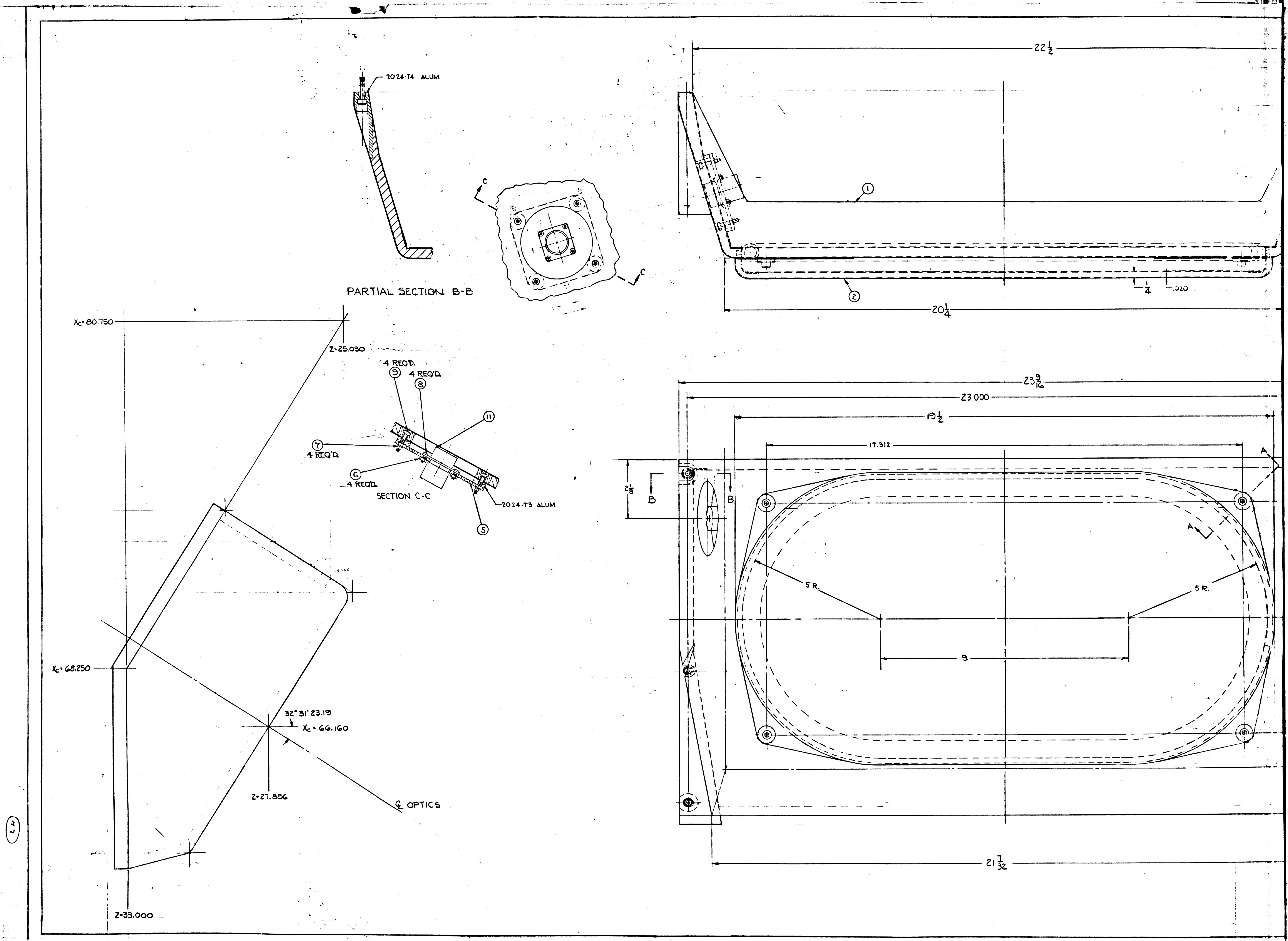
MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG. NO. CONTRACT
DRAWN De Zengo DATE 1/15/63
CHECKED
APPROVAL Harry H. Hunter
APPROVAL
NASA APPROVAL DJ Rhine 2-13-63
MIT APPROVAL 13 Feb 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

OPTICS SHROUD
AND COVER ASS'Y

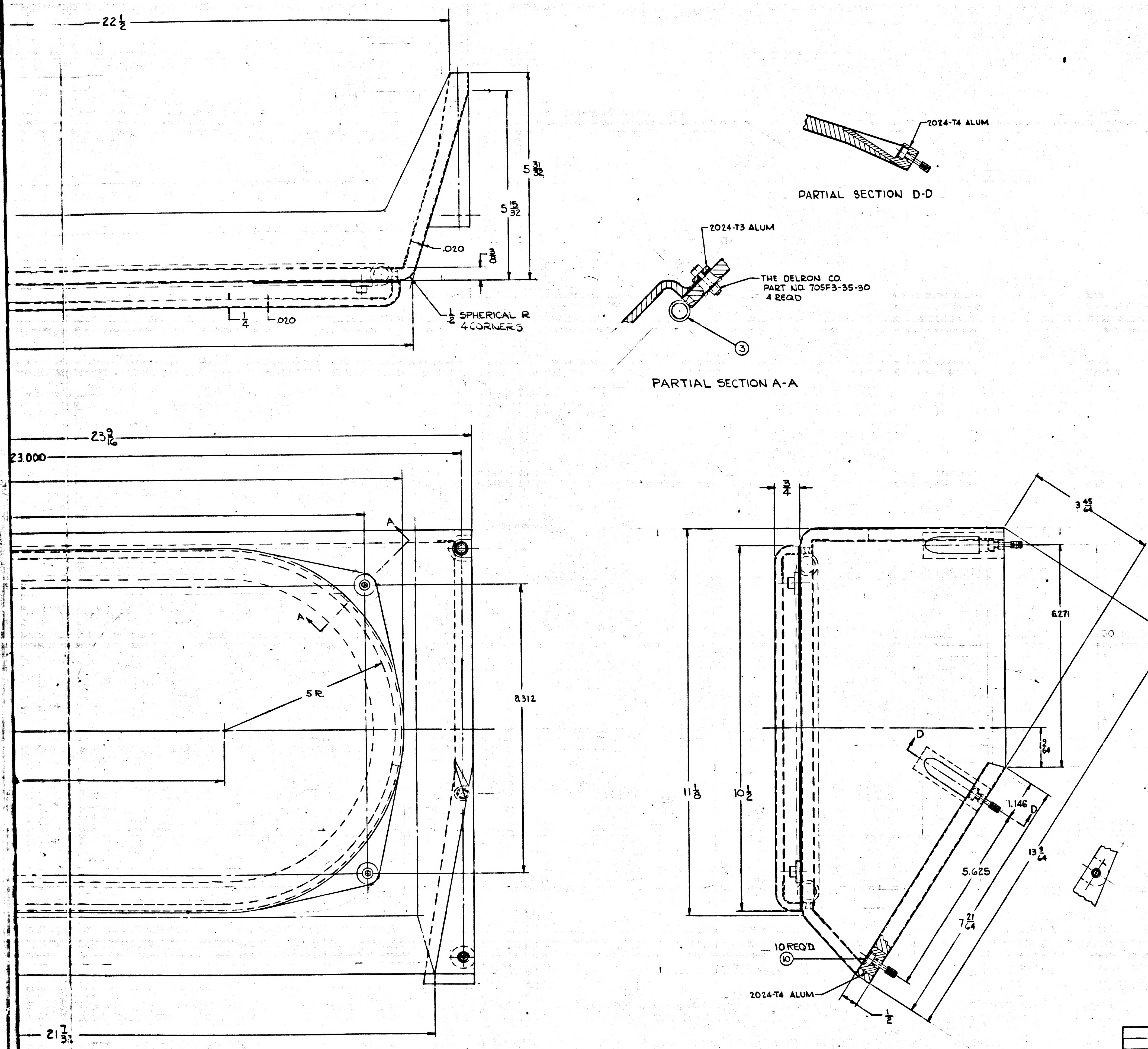
CODE IDENT NO. | SIZE J | NASA DRAWING NO. 1014502
SCALE | WT | SHEET OF

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY


2024-T4 ALUM
PARTIAL SECTION B-B
C
C
22 1/2
①
②
1/4
.020
20 1/4
Xc=80.750
Z-25.030
4 REQ'D.
⑨
4 REQ'D.
⑧
⑪
⑦
4 REQ'D.
⑥
4 REQ'D.
SECTION C-C
2024-T3 ALUM
⑤
23 9/16
23.000
19 1/2
17.312
A
A
2 1/8
B
B
5 R.
5 R.
9
Xc=68.250
32° 31' 23.19
Xc=66.160
Z=27.856
℄ OPTICS
Z=33.000
21 7/32
42

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A₃	Ⓐ REVISED CONFIGURATION Ⓐ REVISED DIMENSIONS Ⓐ ADDED NOTES Ⓐ REMO IT 4 TDRR # 00583	11 MAR 63	WK.
B₁	Ⓑ REPLACED WITH CHANGE BY REVISION C TDRR01354	14 MAY 63	



22 1/2
5 31/32
5 15/32
.020
3/8
1/4
.020
1/2 SPHERICAL R 4 CORNERS
2024-T4 ALUM
PARTIAL SECTION D-D
2024-T3 ALUM
THE DELRON CO. PART NO. 705F3-35-30 4 REQD
③
PARTIAL SECTION A-A
23 9/16
23.000
A
A
5 R.
8.312
3/4
3 45/64
6.271
.30
11 1/8
10 1/2
D
D
1.146
19/64
5.625
13 3/64
7 21/64
10 REQ'D. ⑩
2024-T4 ALUM
1/2
21 7/32

FOR INFORMATION ONLY

CLASS B RELEASE TDP No. 00370 DATE 13 FEB 63

BAND HONEYCOMB EDGES USING HCA 501 EPOXY PUTTY.
BOND HONEYCOMB PER MIL-A-25463, TYPE II CLASS 2
FINISH: CHEMICAL FILM PER MIL-C-5541
APPLY COATS OF SEMI-GLOSS ENAMEL PER FED SPEC TT-E-529, CLASS A, MEDIUM GRAY, COLOR NO. 26231 OF FED STANDARD-595.
1▷ MATERIAL: HONEYCOMB, 1/4 CELL SIZE, .004 FOIL GAUGE, 3003-H19 ALUM 7.9 DENSITY CORE, .010 SKIN GAUGE UNLESS OTHERWISE SPECIFIED, 2024-T3 ALUM

Ⓑ REPLACED WITH CHANGE BY REV C

ITEM	QUAN	PART NO.	PART NAME	MATERIAL	REMARKS
11	1		CONNECTOR RECEPTICALE ELECT.		BENDIX PT02SE-14-18S
10	10	1014503	SCREW-CAPTIVE	S.S.	MAKE FROM #10-32 x 3/4
9	4		SCREW-CAP SOC. HD	S.S.	#4-40 x 1/2
8	4	1000093-14	SCREW-BUTTON HD	S.S.	#4-40 x 5/16
7	4		NUT-FLUSH MOUNTED ~~CLINCH~~		K7001-04-4 (KAYLOCK)
6	4		NUT-HEX	4-40NC-3B	4CSK 8599166-004
5	1		PLATE, CONNECTOR	ALUM.	QQ-A-362-T3
4					
3	1		GASKET		
2	1		COVER, OPTICS	1▷	
1	1		SHROUD, OPTICS	1▷	

LIST OF MATERIALS

MASTER

NEXT ASSY	USED ON
APPLICATION	

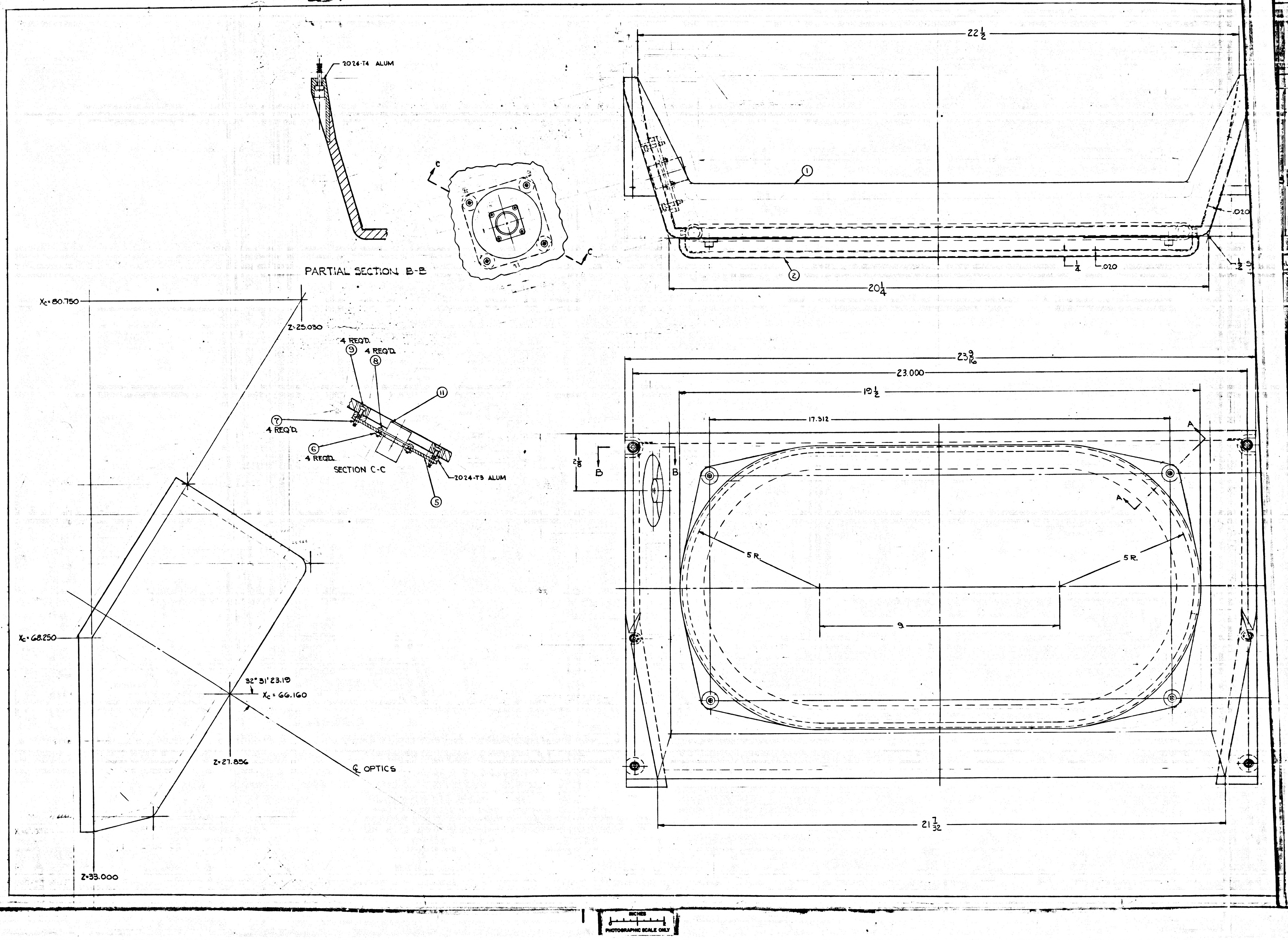
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ±.005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG. NO. CONTRACT
DRAWN De Zengo DATE 1/15/63
CHECKED
APPROVAL Harry H Weber
APPROVAL
NASA APPROVAL DJ Rhine 2-13-63
MIT APPROVAL 13 Feb 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

OPTICS SHROUD
AND COVER ASS'Y

CODE IDENT NO
SIZE J
NASA DRAWING NO. 1014502
SCALE
WT
SHEET OF


2024-T4 ALUM
PARTIAL SECTION B-B
C
C
Xc=80.750
Z-25.030
4 REQ'D.
⑨
4 REQ'D.
⑧
⑪
⑦
4 REQ'D.
⑥
4 REQ'D.
SECTION C-C
2024-T3 ALUM
⑤
Xc=68.250
32° 31' 23.19
Xc=66.160
Z=27.856
℄ OPTICS
Z=33.000
22 1/2
①
.020
1/4
.020
1/2
②
20 1/4
23 9/16
23.000
19 1/2
17.312
A
A
2 1/8
B
B
5 R.
5 R.
9
21 7/32
INCHES
PHOTOGRAPHIC SCALE ONLY

42

1014502 C

SYM	DESCRIPTION	DATE	APPROVAL
C₁	Ⓒ₁ REPLACES REV B WITH CHANGE TDRR 01354	14 MAY 63	WR.

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

PICTURE INCOMPLETE

Ⓒ₁ REPLACES REV B WITH CHANGE

QTY REQD		PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
4		MS35649-44	NUT-HEX	
4		1000093-14	SCREW-BUTTON HD HEX SOCKET	
4		NAS1352C04LL8	SCREW-CAP SOCKET HD	
10		1014503	SCREW-CAPTIVE	
1		1014507	PLATE-CONN (INSEP ASSY)	
1		1014506	GASKET	
1		1014505	COVER-OPTICS (INSEP ASSY)	
1		1014504	SHROUD-OPTICS (INSEP ASSY)	

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN LIMA/DeZENZO DATE 15JAN63
CHECKED
APPROVAL H.WHEELER
APPROVAL
NASA APPROVAL W J Rhine 5-22-63
MIT APPROVAL 15 May 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

OPTICS SHROUD
& COVER ASSY

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 1014502
SCALE —
WT
SHEET OF

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

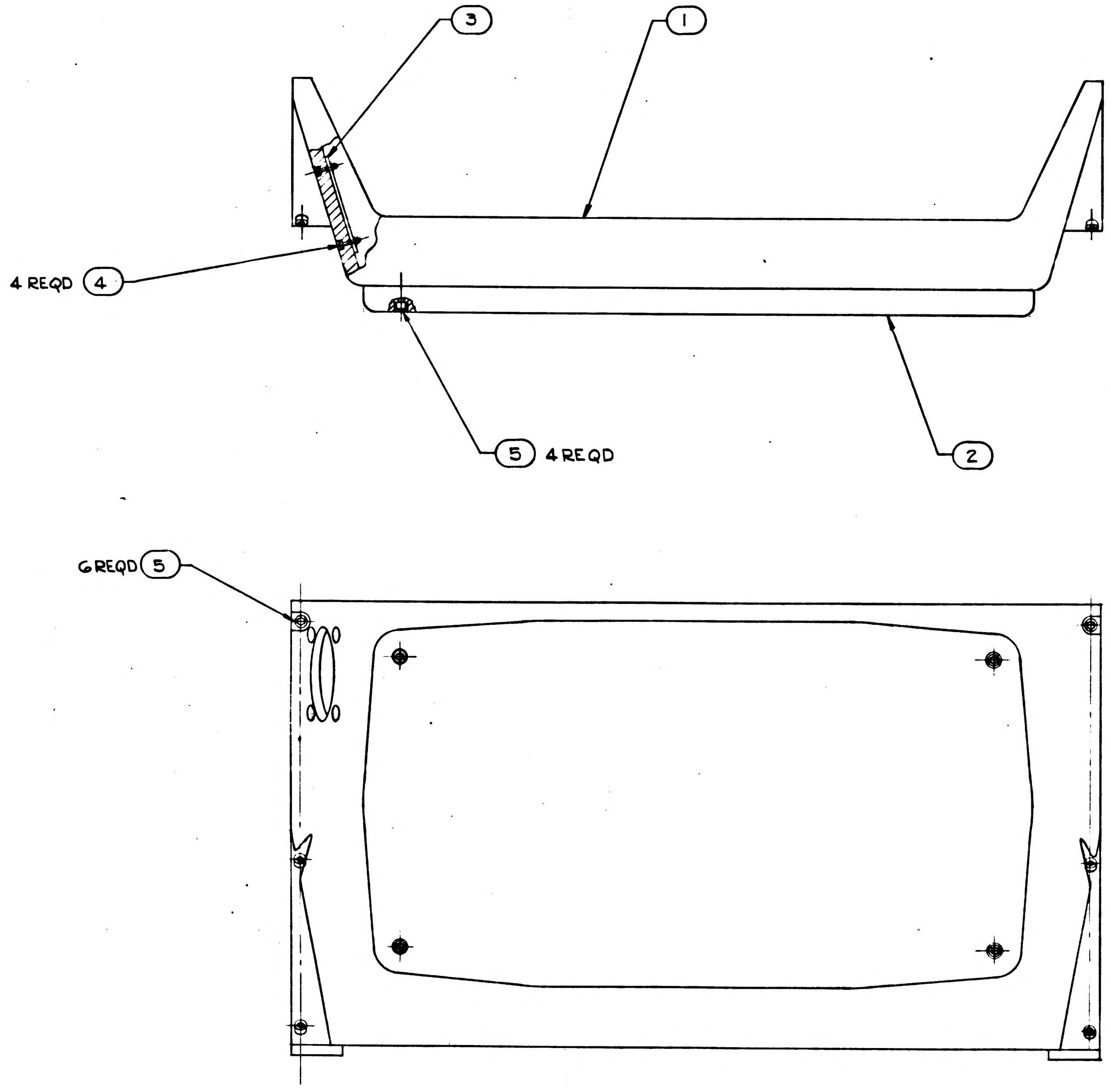
1014502 C

MASTER

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E4	(E1) REPLACES REV D WITH CHANGE (E2) REM D 1014506, 000093-14 4 REQD, MS-35649-44 4 REQD (E3) NAS1352 C04-8 WAS NAS 1352 C04LL8 (E4) ADDED PICTURE T288 01650	17 JUN 63	WK



QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
10	1014503	SCREW, CAPTIVE	5
4	NAS1352C04-8	SCREW	4
1	1014507	MOUNTING BRACKET, CONNECTOR	3
1	1014505	COVER, SHROUD	2
1	1014504	SHROUD, OPTICS	1

LIST OF MATERIALS

(E) REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG NO. CONTRACT
DRAWN J A LIMA DATE 5 JAN 63
CHECKED
APPROVAL H. WHEELER
APPROVAL J. NEVINS 13 MAY 63
NASA APPROVAL W. J. RHINE 22 MAY 63
MIT APPROVAL W. KUPFER 22 MAY 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

OPTICS SHROUD
AND COVER ASSY

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014502
SCALE 1:2
WT
SHEET OF

1014502 E

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

4 3 2 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

D 1014502

M

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
C₁	(C₁) REPLACES REV B WITH CHANGE TDRR 01354	14 MAY 63	WK.
D₁	(D₁) REPLACES REV C WITH CHANGE TDRR 01650	18 JUN 63	WK.

D

PICTURE INCOMPLETE

C

B

(D₁) OBSOLETE

(C₁) REPLACES REV B WITH CHANGE

QTY REQD		PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
4		MS35649-44	NUT-HEX	
4		1000093-14	SCREW-BUTTON HD HEX SOCKET	
4		NAS 1352 C04LL8	SCREW-CAP SOCKET HD	
10		1014503	SCREW-CAPTIVE	
1		1014507	PLATE-CONN (INSEP ASSY)	
1		1014506	GASKET	
1		1014505	COVER-OPTICS (INSEP ASSY)	
1		1014504	SHROUD-OPTICS (INSEP ASSY)	

LIST OF MATERIALS

A

MASTER

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± -//- DECIMALS ± -//- ANGLES ± -//-
DO NOT SCALE THIS DRAWING
MATERIAL -//-
HEAT TREATMENT -//-
FINAL FINISH -//-

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN LIMA/DeZENZO DATE 15JAN63
CHECKED
APPROVAL H.WHEELER
APPROVAL
NASA APPROVAL W J 5-22-63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

OPTICS SHROUD
& COVER ASSY

CODE IDENT NO. SIZE C NASA DRAWING NO. 1014502
SCALE -//- WT SHEET OF

4 3 2 1

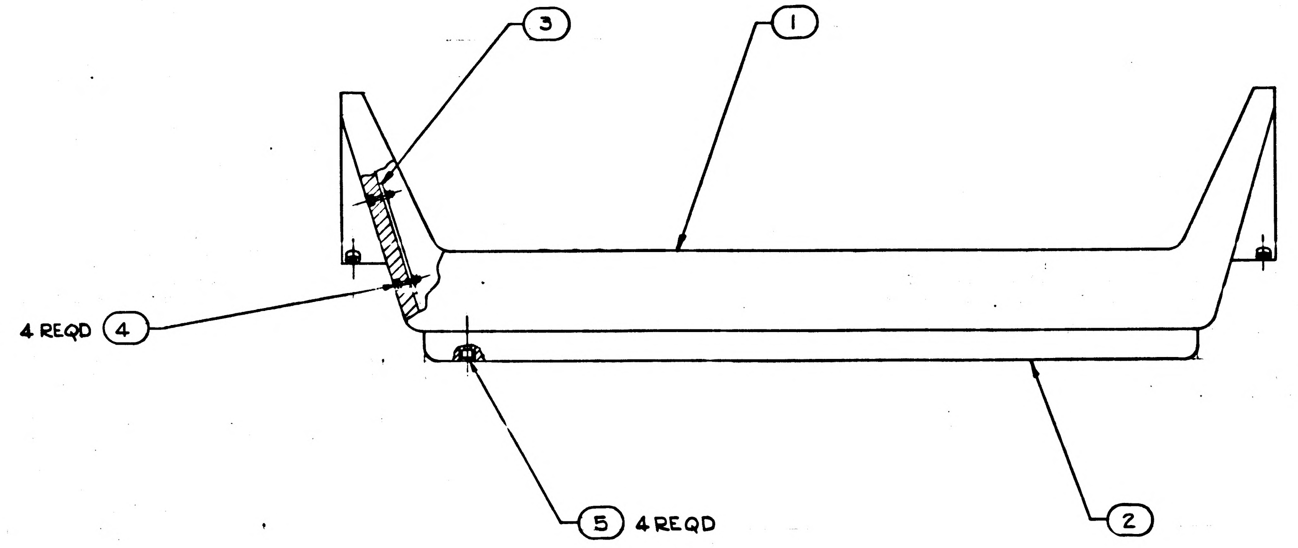
1014502 C

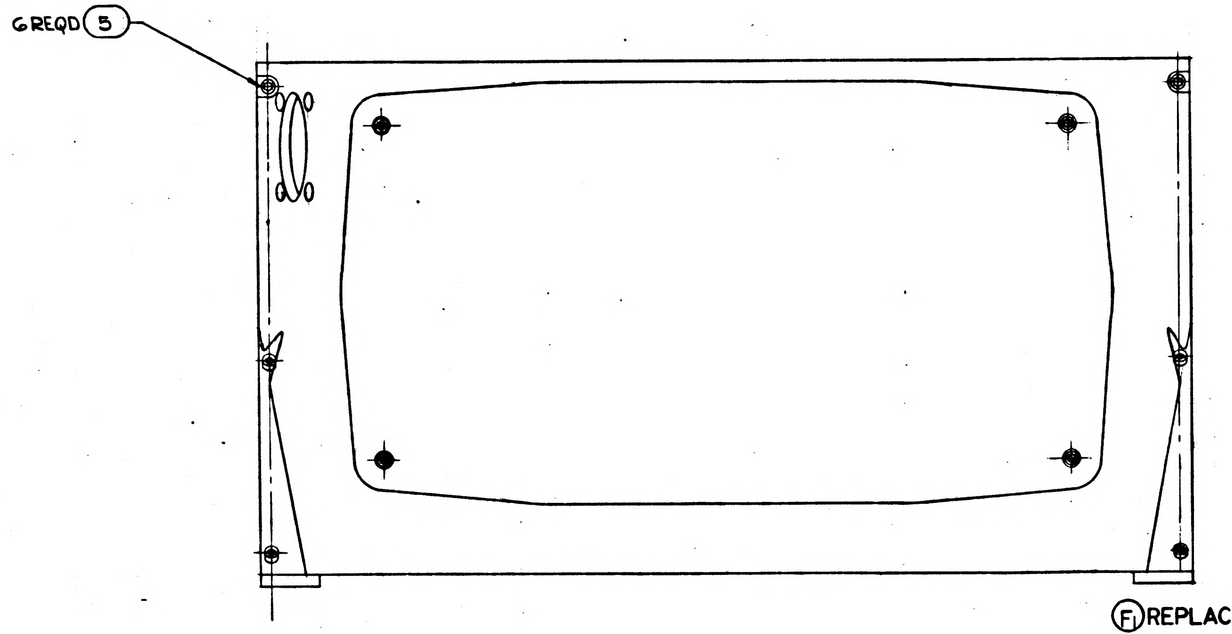
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E4	(E1) REPLACES REV D WITH CHANGE (E2) REM D 1014506, 1000C93-14 4 REQD, MS-35649-44 4 REQD (E3) NAS1352 C04-8 WAS NAS1352 C04LL8 (E4) ADDED PICTURE TDRR 01650	7 JUN 63	WK
F1	(F1) REPLACED BY REV G WITH CHANGE TDRR 02367	31 JULY 63	WK





QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
10	1014503	SCREW, CAPTIVE	5
4	NAS1352C04-8	SCREW	4
1	1014507	MOUNTING BRACKET, CONNECTOR	3
1	1014505	COVER, SHROUD	2
1	1014504	SHROUD, OPTICS	1

LIST OF MATERIALS

(F1) REPLACED BY REV G WITH CHANGE
(E1) REPLACES REV D WITH CHANGE

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

NEXT ASSY | USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN J A LIMA DATE 15 JAN 63
CHECKED
APPROVAL H. WHEELER
APPROVAL J. NEVINS 13 MAY 63
NASA APPROVAL W. L. RHINE 22 MAY 63
MIT APPROVAL W. KUPFER 22 MAY 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

OPTICS SHROUD
AND COVER ASSY

CODE IDENT NO.
SIZE D
NASA DRAWING NO. 1014502
SCALE 1:2
WT
SHEET OF

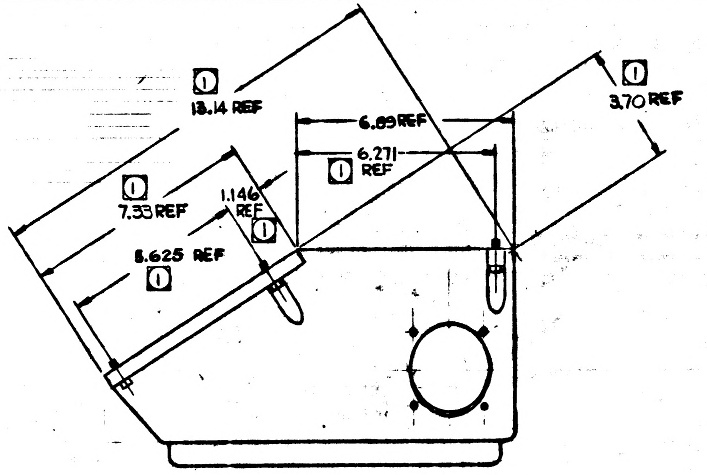
1014502 E

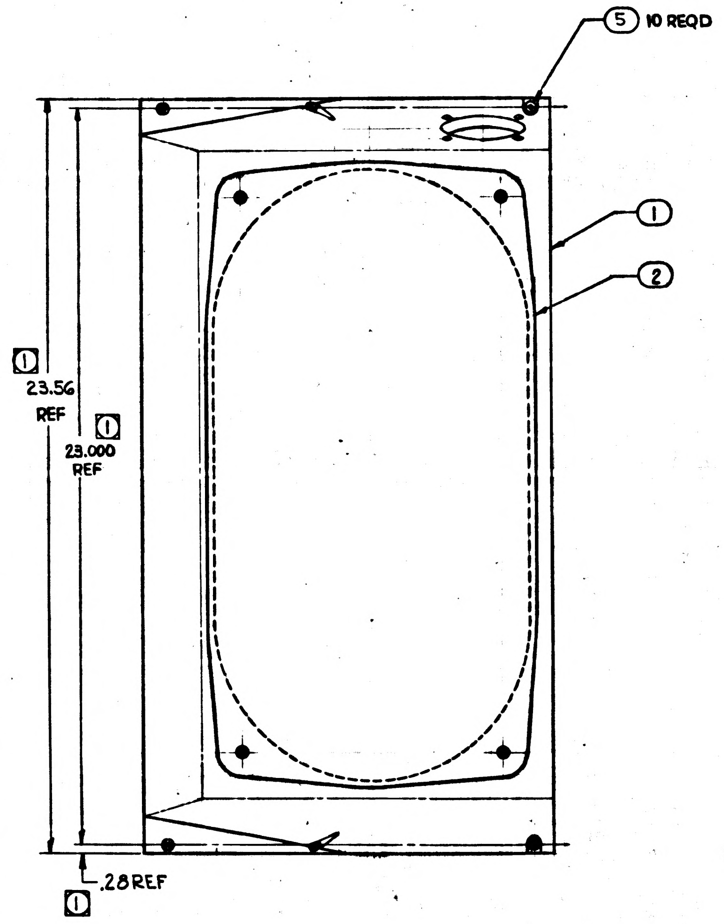
MASTER

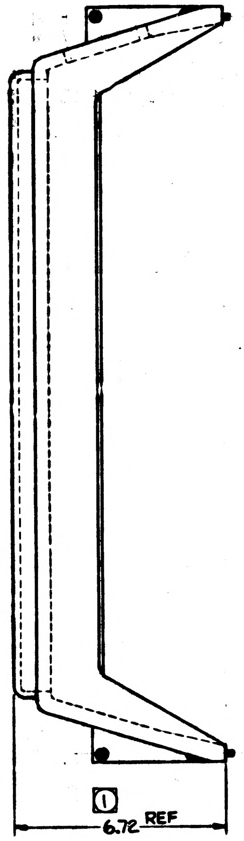
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE & TEST PER ATP-1014502.
3. SERIALIZE PER ND1002023 & MARK WITH NASA P/N & REVISION LETTER.
4. ① DIMENSIONS CONTROLLED BY ICD MH01-01004-116.

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
	G3	Ⓖ REPLACES REV F WITH FOLLOWING CHANGES: ADDED ITEM 6, & DIMENSIONS Ⓖ REM'D NAS-1352C04-8 (4 REQD) & 1014507 Ⓖ ADDED NOTE 4 TDRR 0236		15 July 63	RL 7-3-63 WIC







Ⓖ REPLACES REV F WITH CHANGE

1014502 G

QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			011				
			1		6	1014650-3	NAMEPLATE
			10		5	1014503	SCREW-CAPTIVE
			1		2	1014505	COVER, SHROUD
			1		1	1014504	SHROUD, OPTICS

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513		

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN [illegible] DATE [illegible] 63
CHECKED [illegible] 19 Jun 63
APPROVAL [illegible] 19 Jun 63
APPROVAL [illegible] 19 Jun 63
[illegible] 7/1/63
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 3 July 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

OPTICS SHROUD
AND COVER ASSEMBLY

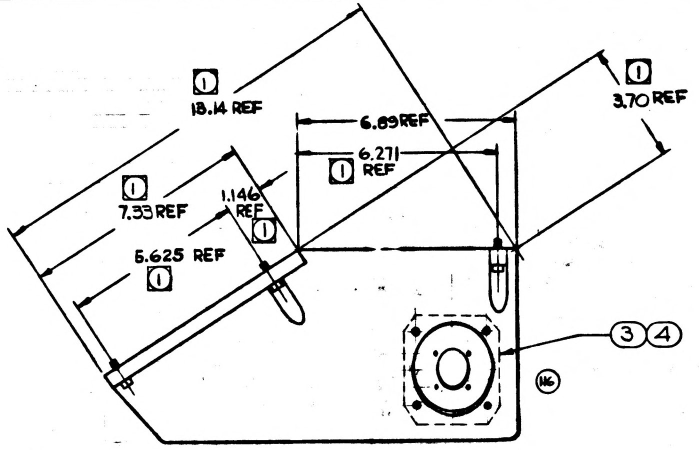
CODE IDENT NO.
SIZE E
1014502
SCALE 1/2
WT
SHEET —

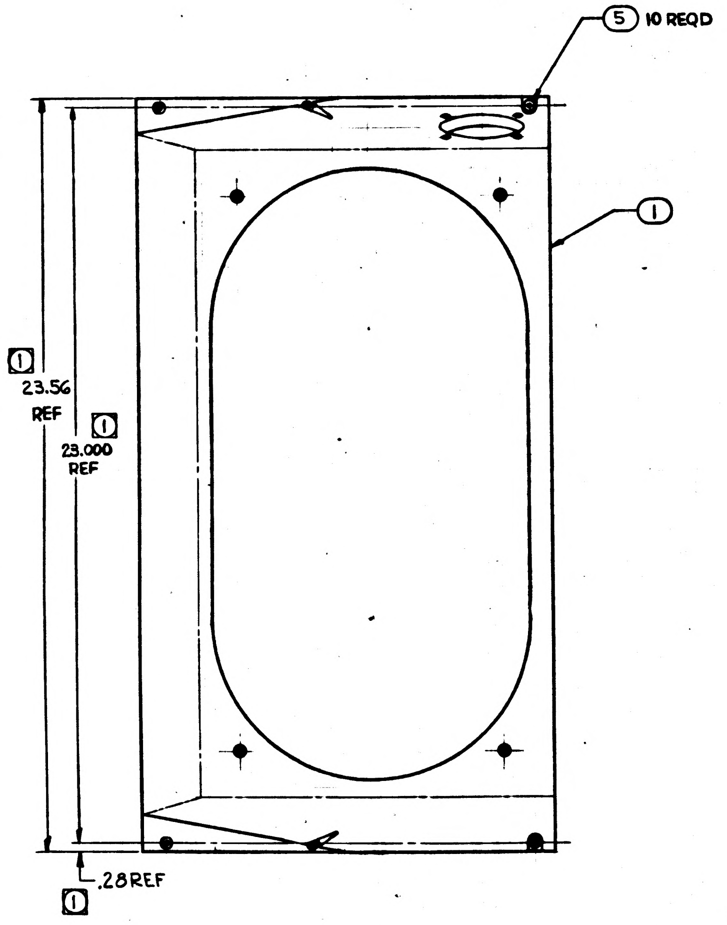
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

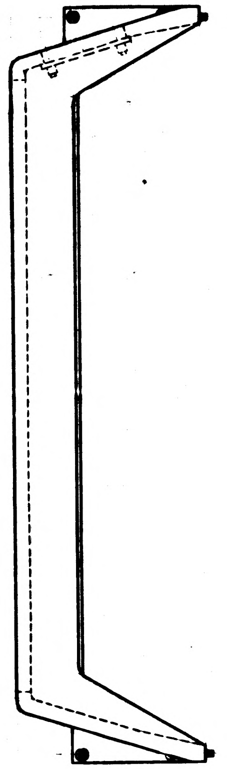
3. SERIALIZE PER ND1002023 & MARK WITH NASA P/N & REVISION LETTER.

4. ① DIMENSIONS CONTROLLED BY ICD MH01-01004-116.

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
	G3	Ⓖ REPLACES REV F WITH FOLLOWING CHANGES: ADDED ITEM 6, & DIMENSIONS Ⓖ REM'D NAS-1352C04-8 (4 REQD) & 1014507 Ⓖ ADDED NOTE 4 TDRR 02367		15 JULY 63	RL 7-31-63 WK
H6		REVISED PER TDRR NO. 04840		10 DEC 63	







Ⓖ REPLACES REV F WITH CHANGE

			1		6	1014650-3	NAMEPLATE
			6		5	1014503	SCREW-CAPTIVE
			4		4	NAS1352C04-8	SCREW
			1		3	1014507	MOUNTING BRACKET, CONNECTOR
			1		1	1014504	SHROUD, OPTICS
			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513		
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +- -- DECIMALS +- -- ANGLES +- --
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 15 Jun 63
CHECKED 14 Jun 63
APPROVAL 19 Jun 63
APPROVAL 19 Jun 63
7/31/63
NASA APPROVAL Jack Bernard
MIT APPROVAL 31 Jul 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

OPTICS SHROUD
ASSEMBLY

CODE IDENT NO.
SIZE E
1014502
SCALE 1/2
WT
SHEET 1 OF 1

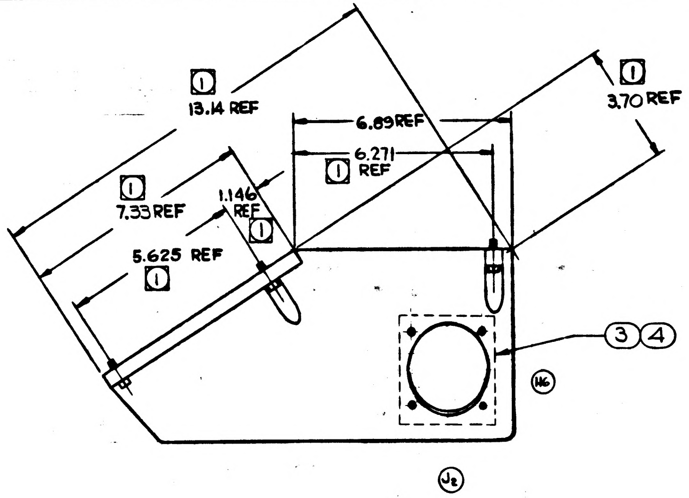
1014502 I

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

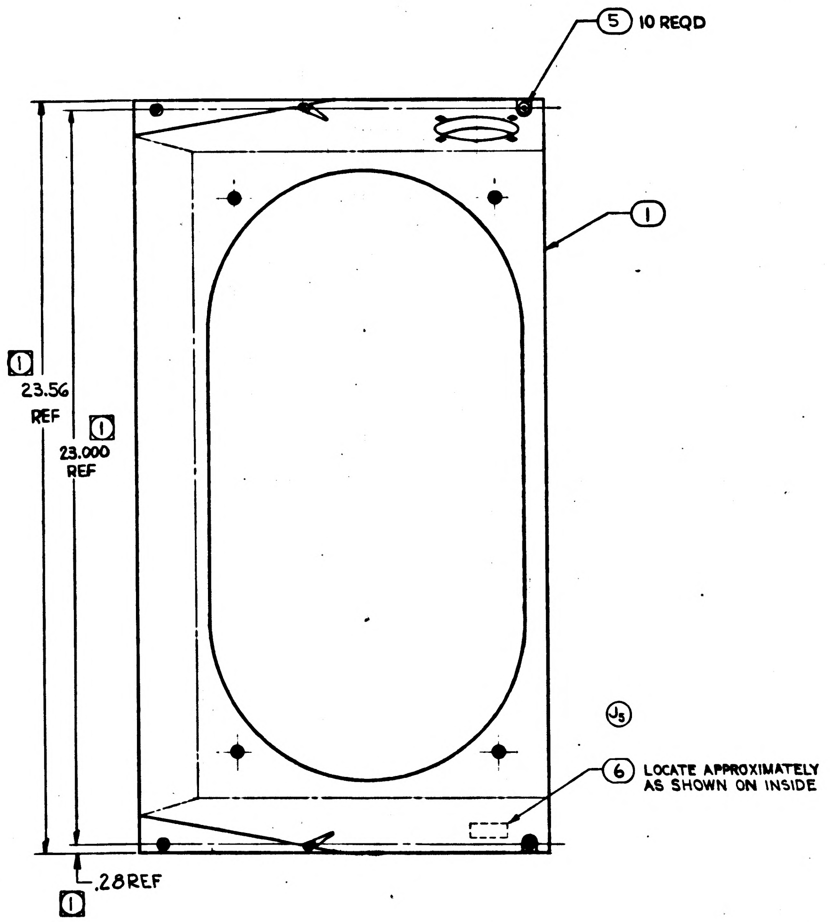
3. SERIALIZE PER ND1002023

4. ① DIMENSIONS CONTROLLED BY ICD MH01-01004-116.

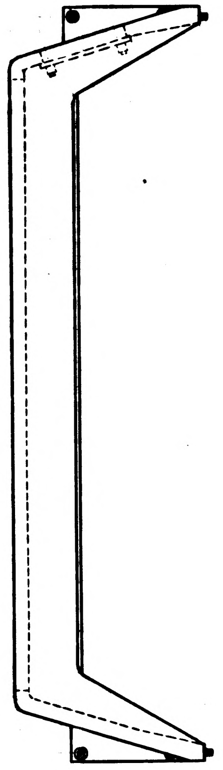
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
	G3	ⒼREPLACES REV F WITH FOLLOWING CHANGES: ADDED ITEM 6, & DIMENSIONS Ⓖ REM'D NAS-1352C04-8 (4 REQD) & 1014507 Ⓖ ADDED NOTE 4 TDRR 02365		15 JULY 63	RL 7-31-63 WK
H6		REVISED PER TDRR NO 04840		10 DEC 63	
J5		REVISED PER TDRR NO. 06258		18 FEB 64	



① 13.14 REF
6.89 REF
① 3.70 REF
6.271 ① REF
① 7.33 REF
1.146 REF ①
5.625 REF ①
③ ④



⑤ 10 REQD
①
① 23.56 REF
① 23.000 REF
⑥ LOCATE APPROXIMATELY AS SHOWN ON INSIDE
.28 REF ①



Ⓖ REPLACES REV F WITH CHANGE

QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
1		6	1014650-3	NAMEPLATE
6		5	1014503	SCREW-CAPTIVE
4		4	NAS1352C04-8	SCREW
1		3	1014611	PLATE (INSEP ASSY)
1		1	1014504	SHROUD, OPTICS

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513		

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 18 Jun 63 DATE
CHECKED 19 Jun 63
APPROVAL 19 June 63
APPROVAL 19 Jun 63
7/31/63
NASA APPROVAL
MIT APPROVAL 31 July 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

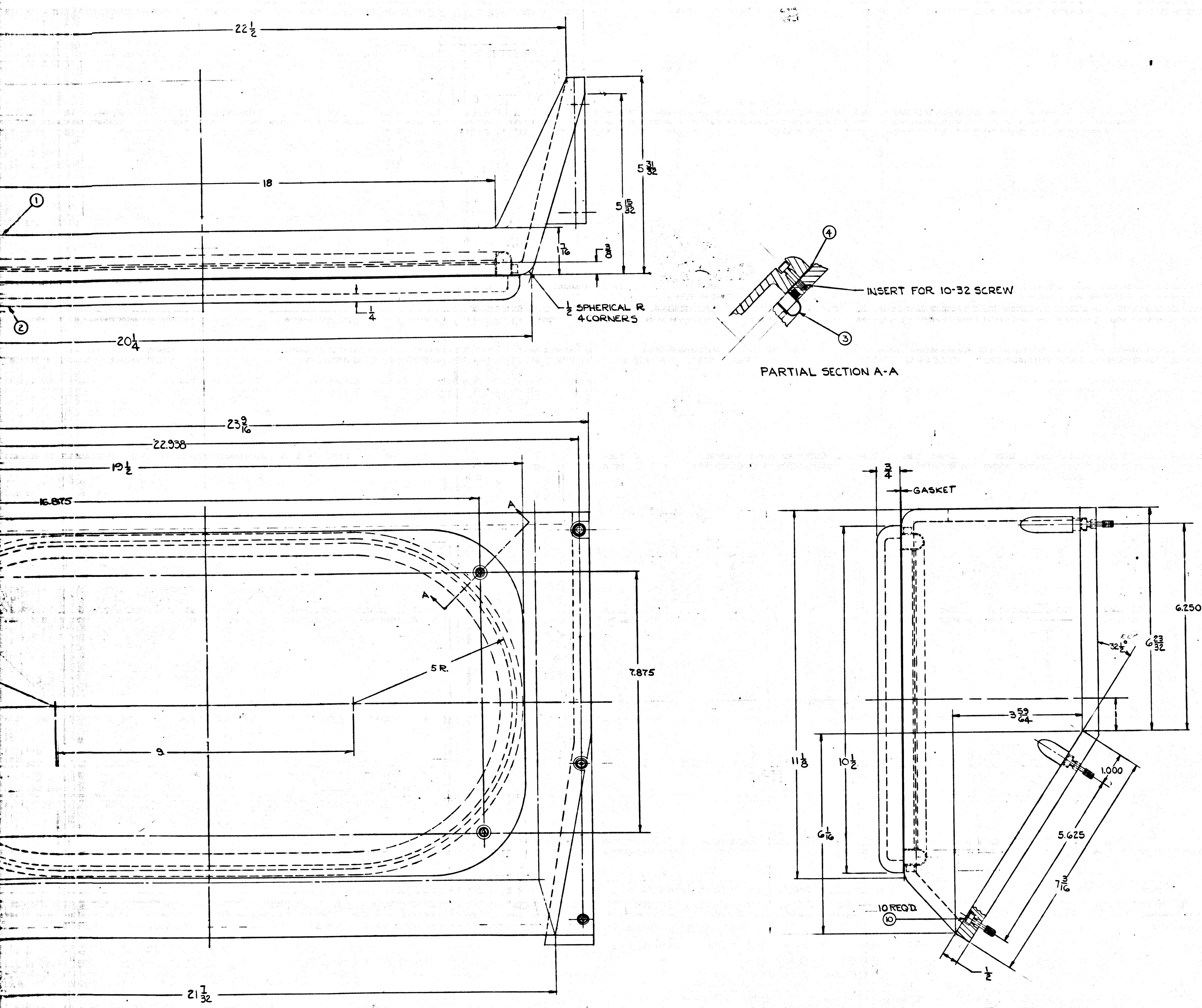
OPTICS SHROUD
ASSEMBLY

CODE IDENT NO. SIZE E 1014502
SCALE 1/2 WT SHEET 1 OF 1

1014502 J

SYM	DESCRIPTION	DATE	APPROVAL

REVISIONS



22 1/2
18
①
②
5 31/32
5 15/32
7/16
3/8
1/4
1/2 SPHERICAL R
4 CORNERS
20 1/4
④
INSERT FOR 10-32 SCREW
③
PARTIAL SECTION A-A
23 9/16
22.938
19 1/2
16.875
A
A
5 R.
7.875
9
21 7/32
3/4
GASKET
6.250
32 1/2°
6 23/32
3 59/64
11 1/8
10 1/2
6 1/16
1.000
5.625
7 3/16
10 REQ'D.
⑩
1/2

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00370 DATE 13 FEB 63

MASTER

ITEM	QUAN	PART NO.	PART NAME	MATERIAL	REMARKS
11	1		CONNECTOR RECEPTICALE ELECT.		BENDIX PT02SE-14-18S
10	10		SCREW - CAPTIVE	S.S.	MAKE FROM #10-32x13
9	4		SCREW-CAP SOC. HD	S.S.	#4-40 x $\frac{1}{2}$
8	4	1000093-14	SCREW - BUTTON HD	S.S.	#4-40 x $\frac{5}{16}$
7	4		NUT - FLUSH MOUNTED CLINCH	—	K7001-04-4 (KAY-
6	4		NUT - HEX	4-40NC-3B	4CSK 8599106-00
5	1		PLATE, CONNECTOR	ALUM.	QQ-A-362 - T3
4	1		GASKET		
3	1		GASKET		
2	1		COVER, OPTICS		
1	1		SHROUD, OPTICS		

LIST OF MATERIALS

NEXT ASSY | USED ON
APPLICATION

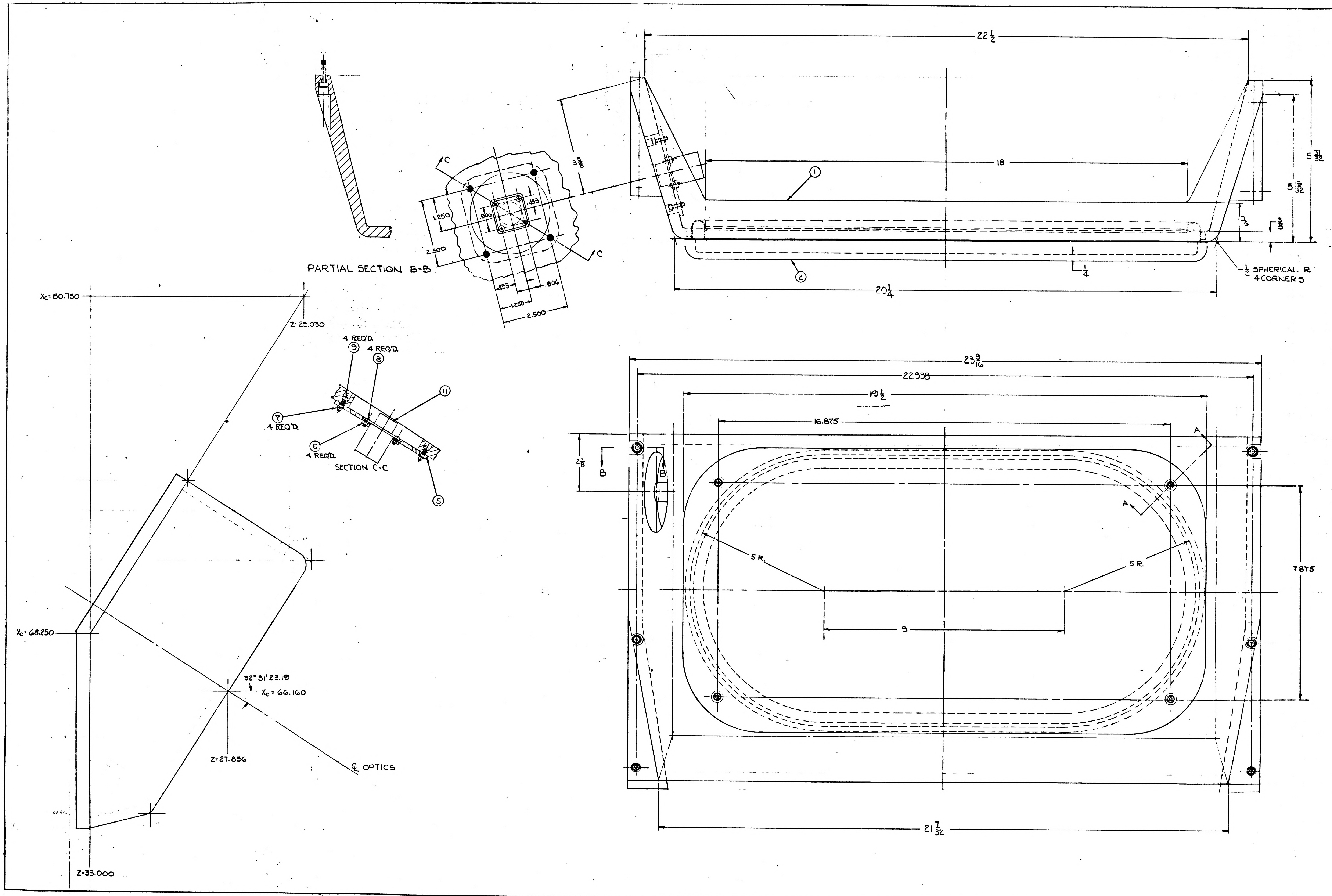
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS $\pm\frac{1}{64}$ DECIMALS ±.005 ANGLES ± 1/2°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DOC. NO. CONTRACT
DRAWN DATE 1/15/63
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL 2-13-63
MIT APPROVAL 13 Feb 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

OPTICS SHROUD
AND COVER ASS'Y

CODE IDENT NO. | SIZE J | NASA DRAWING NO. 1014502
SCALE | WT | SHEET OF


PARTIAL SECTION B-B
C
C
1.250
2.500
.906
.453
.453
.906
1.250
2.500
3 5/8
22 1/2
18
①
②
5 31/32
5 3/32
7/16
3/8
1/4
20 1/4
1/2 SPHERICAL R
4 CORNERS
Xc= 80.750
Z-25.030
4 REQ'D.
⑨
4 REQ'D.
⑧
⑪
⑦
4 REQ'D.
⑥
4 REQ'D.
SECTION C-C
⑤
Xc= 68.250
32° 31' 23.19
Xc = 66.160
Z=27.856
℄ OPTICS
Z=33.000
23 9/16
22.938
19 1/2
16.875
A
A
2 1/8
B
B
5 R.
5 R.
9
7.875
21 7/32

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
D		UPGRADED FOR CLASS F RELEASE		63	

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

⊳ MATERIAL:

ITEM ①: HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.

OUTER SKIN: .020 THK AL ALY PER QQ-A-318, TEMPER H-32 (TYPE 5052-H32 (ES-2105).

INNER SKIN: .020 THK AL ALY PER QQ-A-318, TEMPER H-32 (TYPE 5052-H32 (ES-2105).

ITEMS ② THRU ⑤: AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4) (ES-2104).

ADHESIVE:
ADHESIVE FOR METALLIC SANDWICH CONSTRUCTION IS TO BE PER MIL-A-25463 (ASG), TYPE II, CLASS 2.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND1002177

MUST BE FREE FROM BURRS.

2⊳ TOLERANCE FOR LOCATION OF ITEMS ② THRU ⑤ IS +1/32 -1/32, HOLE LOCATIONS SHALL BE AS SPECIFIED.

UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt{}^{125}$.

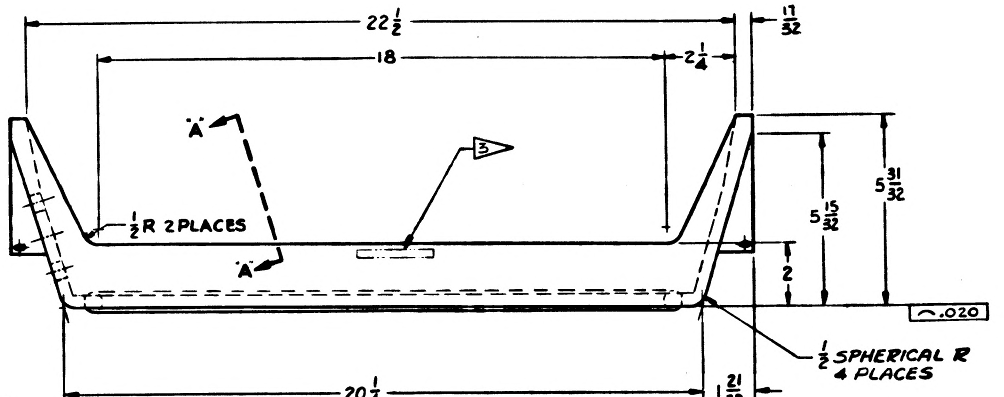
FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591).

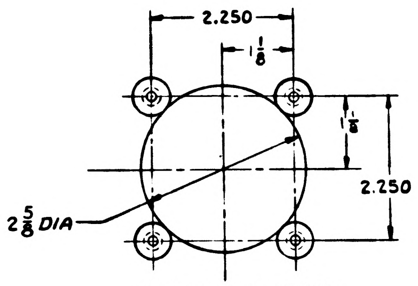
APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).

APPLY TT-E-527 (ES-2602) LUSTERLESS ENAMEL, COLOR NO. 36231 OF FED-STD-595, TO FRONT AND OUTER EDGES OF SHROUD, ALSO INNER EDGES OF OPENINGS PER ND 1002110.

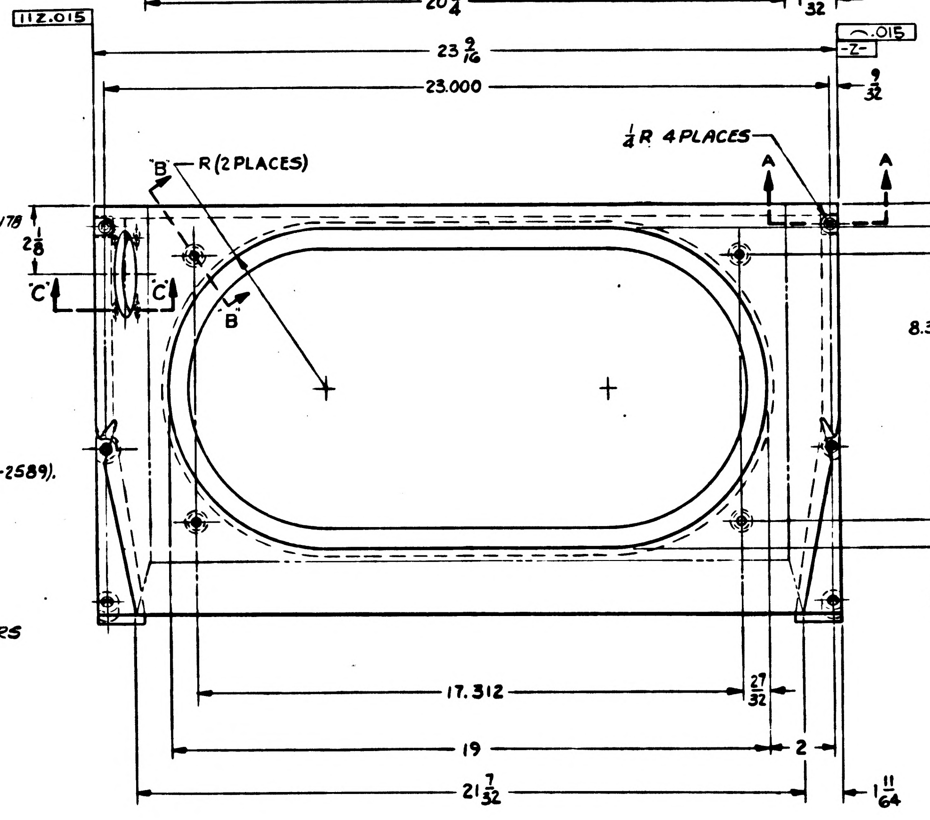
3⊳ IDENTIFY USING DRAWING NO., REVISION LETTER IN 1/8 HIGH BLACK CHARACTERS PER MIL-STD-130 (ES-267). COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

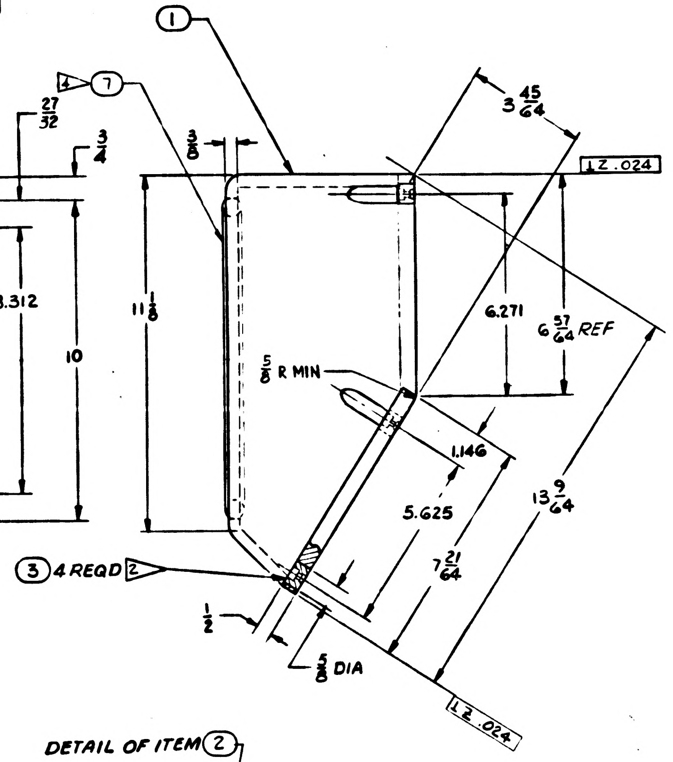
4⊳ BOND ITEM 7 TO ITEM 1 PER MIL A-25457.

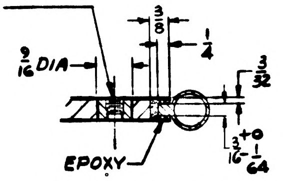

22 1/2
18
2 1/4
17/32
A
A
3⊳
1/2 R 2 PLACES
5 31/32
5 15/32
2
⌒ .020
20 1/4
1 21/32
1/2 SPHERICAL R
4 PLACES


2.250
1 1/8
1 1/8
2.250
2 5/8 DIA

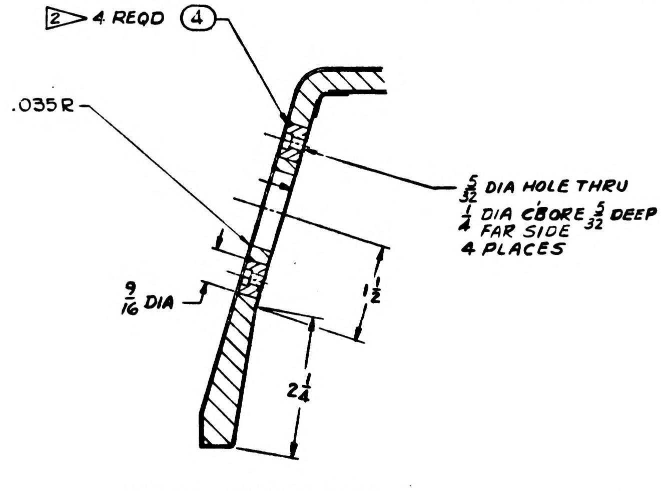
PARTIAL VIEW 'A-A'
SCALE 1:1


⊥ Z .015
23 9/16
23.000
⌒ .015
-Z-
9/32
1/4 R 4 PLACES
B
R (2 PLACES)
B
2 5/8
C
C
A
A
27/32
3/4
8.312
10
17.312
27/32
19
2
21 7/32
1 11/64

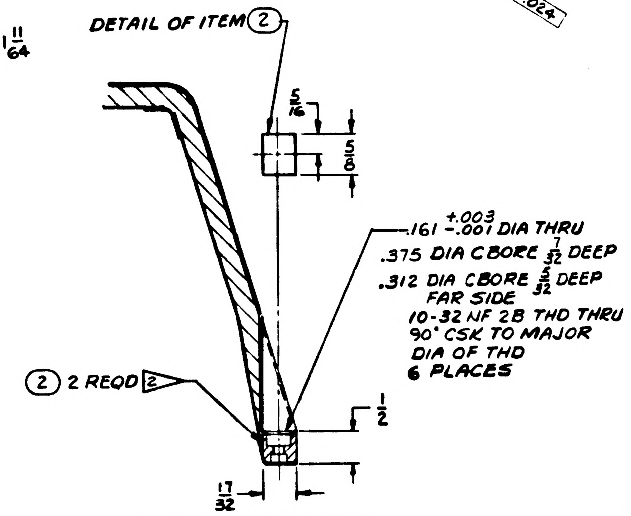

①
4⊳ ⑦
3/8
3 45/64
⊥ Z .024
11 1/8
6.271
6 57/64 REF
5/8 R MIN
1.146
5.625
13 9/64
7 21/64
③ 4 REQD 2⊳
1/2
5/8 DIA
⊥ Z .024


⑤ ⑥ 4 EACH REQD 2⊳
.272 +.004 -.001 DIA THRU
5/16-18 UNC-2B THD (MODIFIED)
.310 +.015 -.000 DEEP
82° CSK TO .323 +.010 -.000 DIA
INSTALL ITEM ⑥ .010 TO .030
BELOW SURFACE OF SHROUD
9/16 DIA
3/8
1/4
3/32
EPOXY
3/16 +0 -1/64

PARTIAL SECTION 'B-B'
SCALE 1:1


2⊳ 4 REQD ④
.035 R
5/32 DIA HOLE THRU
1/4 DIA CBORE 5/32 DEEP
FAR SIDE
4 PLACES
9/16 DIA
1 1/2
2 1/4

PARTIAL SECTION 'C-C'
SCALE 1:1


DETAIL OF ITEM ②
5/16
5/8
.161 +.003 -.001 DIA THRU
.375 DIA CBORE 7/32 DEEP
.312 DIA CBORE 5/32 DEEP
FAR SIDE
10-32 NF 2B THD THRU
90° CSK TO MAJOR
DIA OF THD
6 PLACES
② 2 REQD 2⊳
1/2
17/32

PARTIAL SECTION 'A-A'
SCALE 1:1

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
7	1	014506	GASKET-SHROUD OPTICS
6	4	NAS 394C-5L	INSERT-THREAD, SELF LOCKING
5	4	1014504-5	INSERT-CORE
4	4	1014504-4	INSERT-CORE
3	4	1014504-3	INSERT-CORE
2	2	1014504-2	INSERT-CORE
1	1	1014504-1	SHROUD-HONEYCOMB

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014502	1014502

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+2°
-1/64	-.005	-2°

DO NOT SCALE THIS DRAWING

MATERIAL 1⊳

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN
DRAWN 3 APR 63 DATE
CHECKED 5 APR 63
APPROVAL Earl Scholl 19 APR 63
APPROVAL 22 APR 63
NASA APPROVAL 6-19-63
MIT APPROVAL

Charleston 22 APR 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SHROUD - OPTICS
(INSEPARABLE)

CODE IDENT NO
SIZE E
1014504
SCALE 1/2
SHEET

1014504

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
D		UPGRADED FOR CLASS A RELEASE		6-11 63	
E 10		REVISED PER TDRR NO. 04881		16 DEC 63	

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

▷ MATERIAL:

ITEM ①: HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.

OUTER SKIN: .020 THK AL ALY PER QQ-A-318, TEMPER H-32 (TYPE 5052-H32 (ES-2105).

INNER SKIN: .020 THK AL ALY PER QQ-A-318, TEMPER H-32 (TYPE 5052-H32 (ES-2105).

$\boxed{1}$ ITEMS ② THRU ⑤: AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4) (ES-2104).

ADHESIVE:

ADHESIVE FOR METALLIC SANDWICH CONSTRUCTION IS TO BE PER MIL-A-25463 (ASG), TYPE II, CLASS 2.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND1002177

MUST BE FREE FROM BURRS.

2▷ TOLERANCE FOR LOCATION OF ITEMS ② THRU ⑤ IS +1/32 -1/32, HOLE LOCATIONS SHALL BE AS SPECIFIED.

UNLESS OTHERWISE SPECIFIED:

ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.

SURFACE ROUGHNESS MUST NOT EXCEED $\overset{125}{\surd}$.

$\boxed{1}$ FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591).

APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).

APPLY TT-E-527 (ES-2602) LUSTERLESS ENAMEL, COLOR NO. 36231 OF FED-STD-595, TO FRONT AND OUTER EDGES OF SHROUD, ALSO INNER EDGES OF OPENINGS PER ND 1002110. $\boxed{2}$

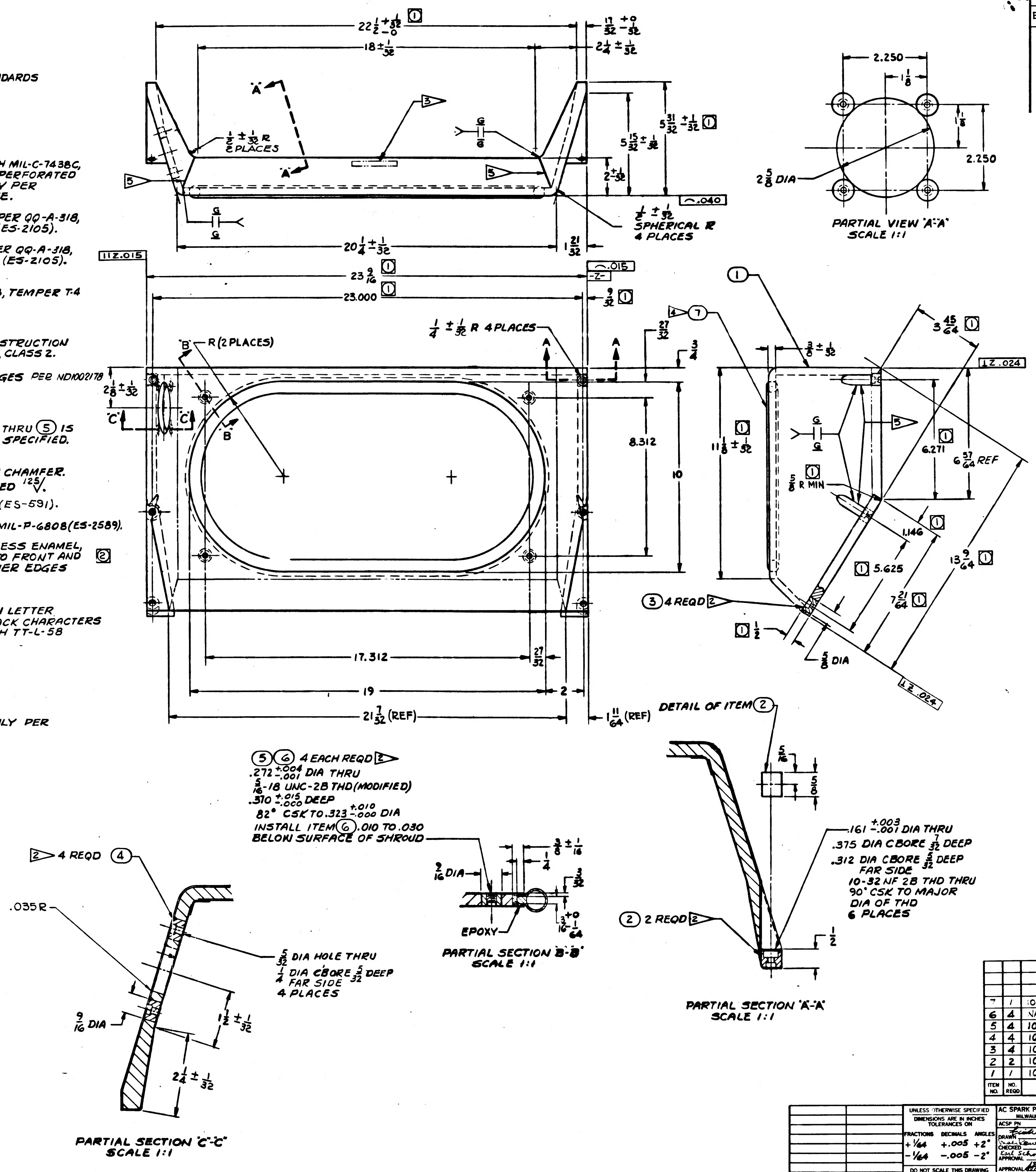
3▷ IDENTIFY USING DRAWING NO., REVISION LETTER IN 1/8 HIGH BLACK CHARACTERS PER MIL-STD-130 (ES-267). COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

4▷ BOND ITEM 7 TO ITEM 1 PER MIL A-25457.

$\boxed{1}$ CONTROLLED BY ICD MH01-01004-116.

$\boxed{2}$ CONTROLLED BY ICD MH01-01046-416.

5▷ WELDING PERMITTED IN THESE AREAS ONLY PER MIL-STD-22A.


22 1/2 +1/32 −0
18 ± 1/32
17/32 +0 −1/32
2 1/4 ± 1/32
1/2 ± 1/32 R 2 PLACES
5 15/32 ± 1/32
5 31/32 ± 1/32
2 ± 1/32
1/2 ± 1/32 SPHERICAL R 4 PLACES
20 1/4 ± 1/32
1 21/32
2.250
1 1/8
2 5/8 DIA
PARTIAL VIEW "A"-"A" SCALE 1:1
23 9/16
23.000
9/32
1/4 ± 1/32 R 4 PLACES
"B" R (2 PLACES)
2 1/8 ± 1/32
8.312
10
17.312
27/32
19
2
21 7/32 (REF)
1 11/64 (REF)
3/8 ± 1/32
3 45/64
11 1/8 ± 1/32
6.271
6 57/64 REF
5/8 R MIN
1.146
5.625
13 9/64
7 21/64
③ 4 REQD
5/8 DIA
⑤⑥ 4 EACH REQD
.272 +.004 −.001 DIA THRU
5/16-18 UNC-2B THD (MODIFIED)
.310 +.015 −.000 DEEP
82° CSK TO .323 +.010 −.000 DIA
INSTALL ITEM ⑥ .010 TO .030 BELOW SURFACE OF SHROUD
9/16 DIA
EPOXY
PARTIAL SECTION "B"-"B" SCALE 1:1
DETAIL OF ITEM ②
.161 +.003 −.001 DIA THRU
.375 DIA CBORE 7/32 DEEP
.312 DIA CBORE 5/32 DEEP FAR SIDE
10-32 NF 2B THD THRU
90° CSK TO MAJOR DIA OF THD
6 PLACES
② 2 REQD
PARTIAL SECTION "A"-"A" SCALE 1:1
④ 4 REQD
.035 R
5/32 DIA HOLE THRU
1/4 DIA CBORE 5/32 DEEP FAR SIDE 4 PLACES
9/16 DIA
1 1/2 ± 1/32
2 1/4 ± 1/32
PARTIAL SECTION "C"-"C" SCALE 1:1

7	1	1014506	GASKET-SHROUD OPTICS
6	4	NAS 1394C-3L	INSERT-THREAD, SELF LOCKING
5	4	1014504-5	INSERT-CORE
4	4	1014504-4	INSERT-CORE
3	4	1014504-3	INSERT-CORE
2	2	1014504-2	INSERT-CORE
1	1	1014504-1	SHROUD-HONEYCOMB
ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014502	1014502

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+2°
−1/64	−.005	−2°

DO NOT SCALE THIS DRAWING

MATERIAL 1▷

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 3 APR 63
CHECKED 15 APR 63
APPROVAL Earl Scholl 19 APR 63
APPROVAL 22 APR 63
NASA APPROVAL 6-19-63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SHROUD - OPTICS
(INSEPARABLE)

CODE IDENT NO.
SIZE E
1014504
SCALE 1:2
SHEET 1 OF 1

Charleston 22 APR 63

1014504 E

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
D		UPGRADED FOR CLASS F RELEASE		6-63	E.L.
E 10		REVISED PER TDRR NO. 04881		16 DEC 63	
F8		REVISED PER TDRR NO. 06735		10 MAR 64	

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

▷ MATERIAL:

ITEM ①: HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.

OUTER SKIN: .020 THK AL ALY PER QQ-A-318, TEMPER H-32 (TYPE 5052-H32 (ES-2105).

INNER SKIN: .020 THK AL ALY PER QQ-A-318, TEMPER H-32 (TYPE 5052-H32 (ES-2105).

[1] ITEMS ② THRU ⑤: AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4) (ES-2104).

ADHESIVE:

ADHESIVE FOR METALLIC SANDWICH CONSTRUCTION IS TO BE PER MIL-A-25463 (ASG), TYPE II, CLASS 2.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND1002177

MUST BE FREE FROM BURRS.

2▷ TOLERANCE FOR LOCATION OF ITEMS ② THRU ⑤ IS +1/32 -1/32, HOLE LOCATIONS SHALL BE AS SPECIFIED.

UNLESS OTHERWISE SPECIFIED:

ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.

SURFACE ROUGHNESS MUST NOT EXCEED 125√.

[1] FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591).

APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).

APPLY TT-E-527 (ES-2602) LUSTERLESS ENAMEL, COLOR NO. 36231 OF FED-STD-595, TO FRONT AND OUTER EDGES OF SHROUD, ALSO INNER EDGES OF OPENINGS PER ND 1002110. [2]

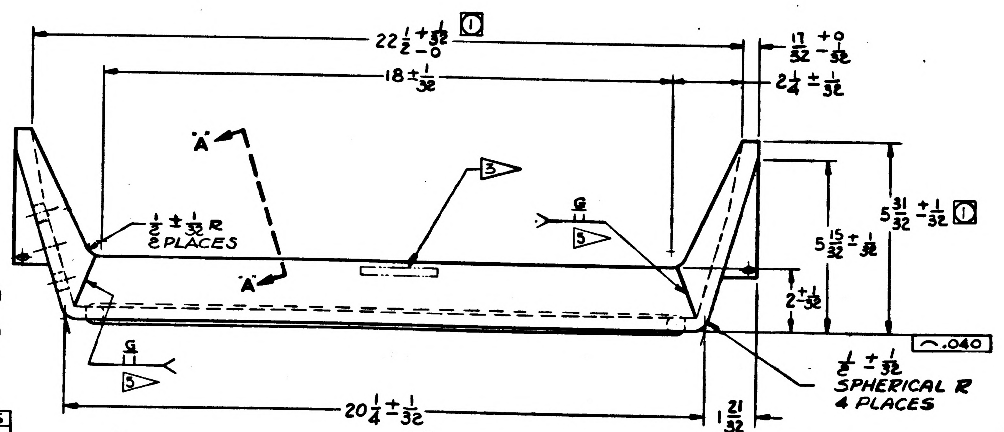
3▷ IDENTIFY USING DRAWING NO., AND REVISION LETTER PER ND-1002019.

4▷ BOND ITEM 7 TO ITEM 1 PER ND-1002151

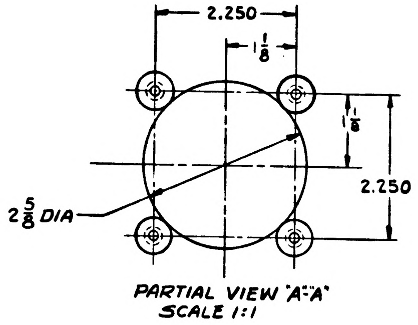
[1] CONTROLLED BY ICD MH01-01004-116.

[2] CONTROLLED BY ICD MH01-01046-416.

5▷ WELDING PERMITTED IN THESE AREAS ONLY PER MIL-STD-22A.

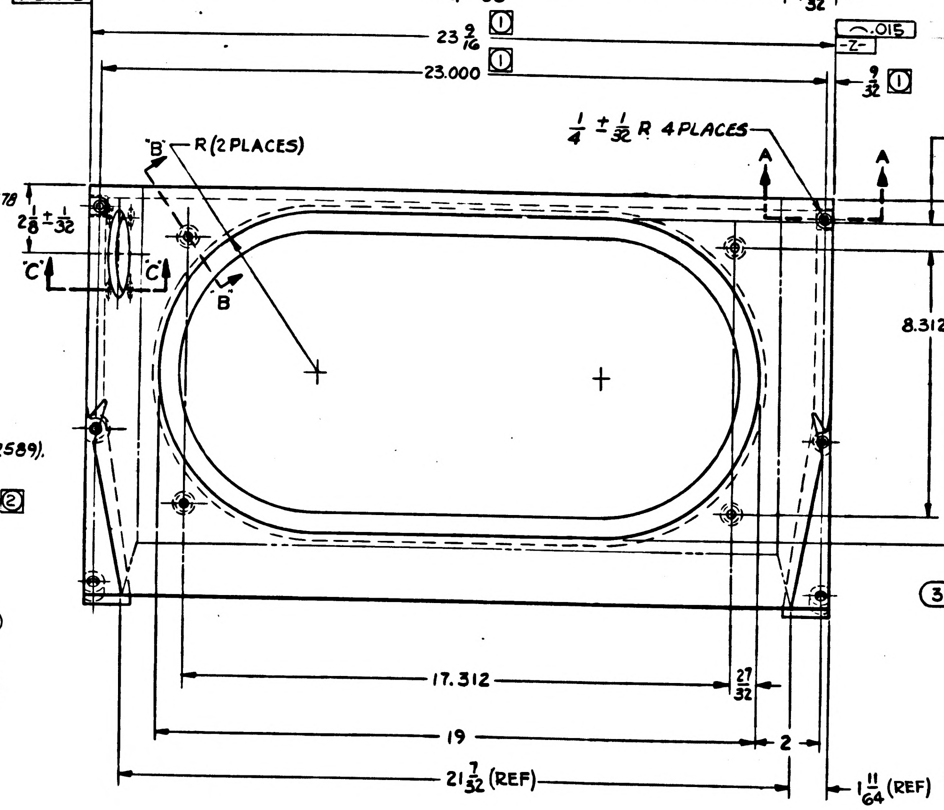


22 1/2 +1/32 -0 [1]
18 ± 1/32
17/32 +0 -1/32
2 1/4 ± 1/32
'A'
'A'
3▷
G 5▷
1/2 ± 1/32 R 2 PLACES
5 15/32 ± 1/32
5 31/32 ± 1/32 [1]
2 ± 1/32
⌒ .040
1/2 ± 1/32 SPHERICAL R 4 PLACES
G 5▷
20 1/4 ± 1/32
1 21/32
F5
F6

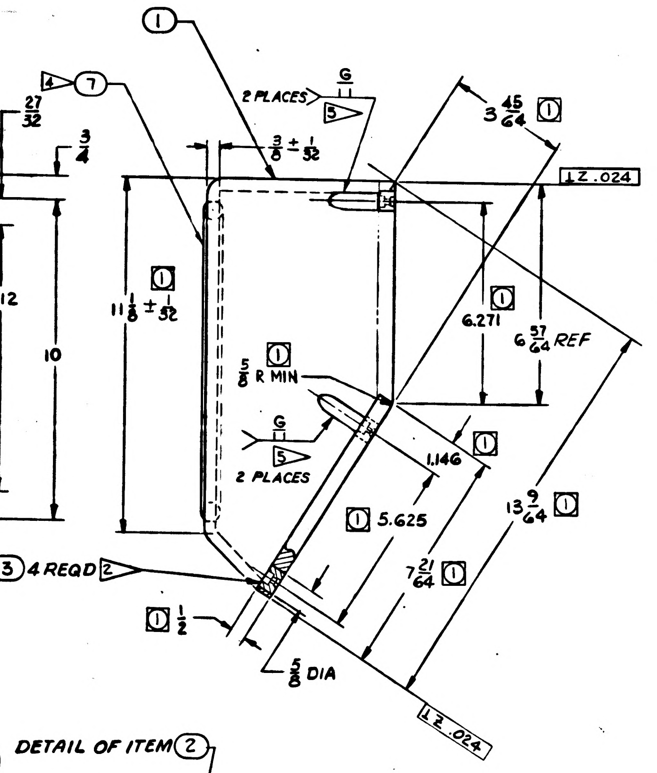


2.250
1 1/8
1 1/8
2.250
2 5/8 DIA

PARTIAL VIEW 'A'-'A'
SCALE 1:1

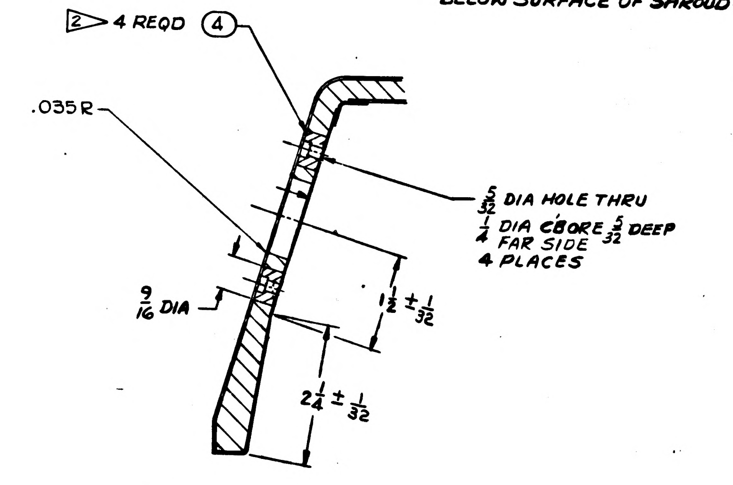


1 1 Z .015
23 9/16 [1]
23.000 [1]
⌒ .015 -Z-
9/32 [1]
'B' R (2 PLACES)
1/4 ± 1/32 R 4 PLACES
A A
27/32
3/4
2 1/8 ± 1/32
'C' 'C'
'B'
8.312
10
17.312
27/32
19
2
21 7/32 (REF)
1 11/64 (REF)
F1
F2



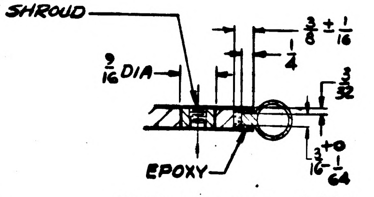
①
4▷ ⑦
2 PLACES G 5▷
3/8 ± 1/32
3 45/64 [1]
1 Z .024
11 1/8 ± 1/32 [1]
6.271 [1]
6 57/64 REF
5/8 R MIN [1]
G 5▷ 2 PLACES
1.146 [1]
[1] 5.625
13 9/64 [1]
7 21/64 [1]
③ 4 REQD 2▷
[1] 1/2
5/8 DIA
1 Z .024
F7
F8

⑤⑥ 4 EACH REQD 2▷
.272 +.004 -.001 DIA THRU
5/16-18 UNC-2B THD (MODIFIED)
.310 +.015 -.000 DEEP
82° CSK TO .323 +.010 -.000 DIA
INSTALL ITEM ⑥ .010 TO .030 BELOW SURFACE OF SHROUD



2▷ 4 REQD ④
.035 R
5/32 DIA HOLE THRU
1/4 DIA C'BORE 5/32 DEEP FAR SIDE 4 PLACES
9/16 DIA
1 1/2 ± 1/32
2 1/4 ± 1/32

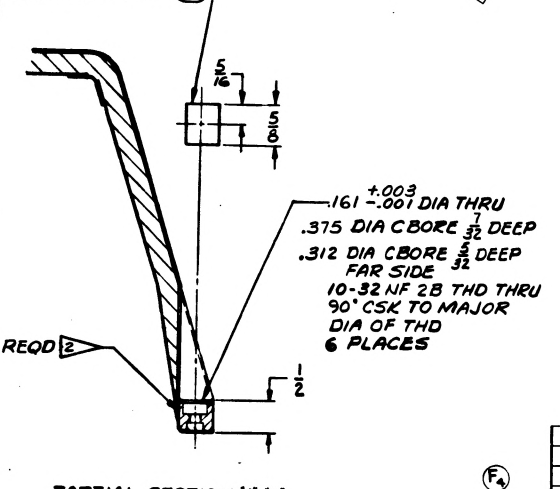
PARTIAL SECTION 'C'-'C'
SCALE 1:1



3/8 ± 1/16
1/4
9/16 DIA
3/32
EPOXY
3/16 +0 -1/64

PARTIAL SECTION 'B'-'B'
SCALE 1:1

DETAIL OF ITEM ②



5/16
5/8
.161 +.003 -.001 DIA THRU
.375 DIA C'BORE 1/32 DEEP
.312 DIA C'BORE 5/32 DEEP FAR SIDE
10-32 NF 2B THD THRU
90° CSK TO MAJOR DIA OF THD
6 PLACES
② 2 REQD 2▷
1/2

PARTIAL SECTION 'A'-'A'
SCALE 1:1

8	AR	MIL-A-25457	ADHESIVE, SILICONE RUBBER
7	1	1014506	GASKET-SHROUD, OPTICS
6	4	NAS 1394C-3L	INSERT-THREAD, SELF LOCKING
5	4	1014504-5	INSERT-CORE
4	4	1014504-4	INSERT-CORE
3	4	1014504-3	INSERT-CORE
2	2	1014504-2	INSERT-CORE
1	1	1014504-1	SHROUD-HONEYCOMB
ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014502	1014513

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+2°
-1/64	-.005	-2°

DO NOT SCALE THIS DRAWING

MATERIAL 1▷

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN 3 APR 63 DATE
CHECKED 15 APR 63
Earl Scholl 19 APR 63
APPROVAL
APPROVAL 22 APR 63
NASA APPROVAL 6-19-63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SHROUD - OPTICS
(INSEPARABLE)

CODE IDENT NO.
SIZE E
1014504
SCALE 1:2
SHEET 1 OF 1

1014504 F

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
A		UPGRADED FOR CLASS A RELEASE		63	

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

1 MATERIAL:

ITEM (1): HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, $\frac{1}{8}$ CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.

OUTER SKIN: .020 THK AL ALY PER QQ-A-318, TEMPER H-32 (TYPE 5052-H32)(ES-2105).

INNER SKIN: .020 THK AL ALY PER QQ-A-318, TEMPER H-32 (TYPE 5052-H32)(ES-2105).

ITEM (2): AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4) (ES-2104).

ADHESIVE: ADHESIVE FOR METALLIC SANDWICH CONSTRUCTION IS TO BE PER MIL-A-25463(ASG), TYPE II, CLASS 2.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND 1002177.

MUST BE FREE FROM BURRS.

2 TOLERANCE FOR LOCATION OF ITEM (2) IS $+\frac{1}{32}$ $-\frac{1}{32}$, HOLE LOCATIONS SHALL BE AS SPECIFIED.

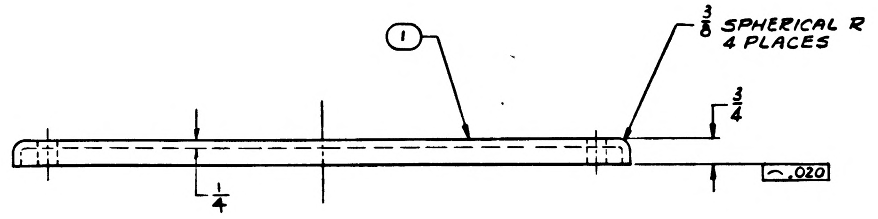
UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt{}^{125}$.

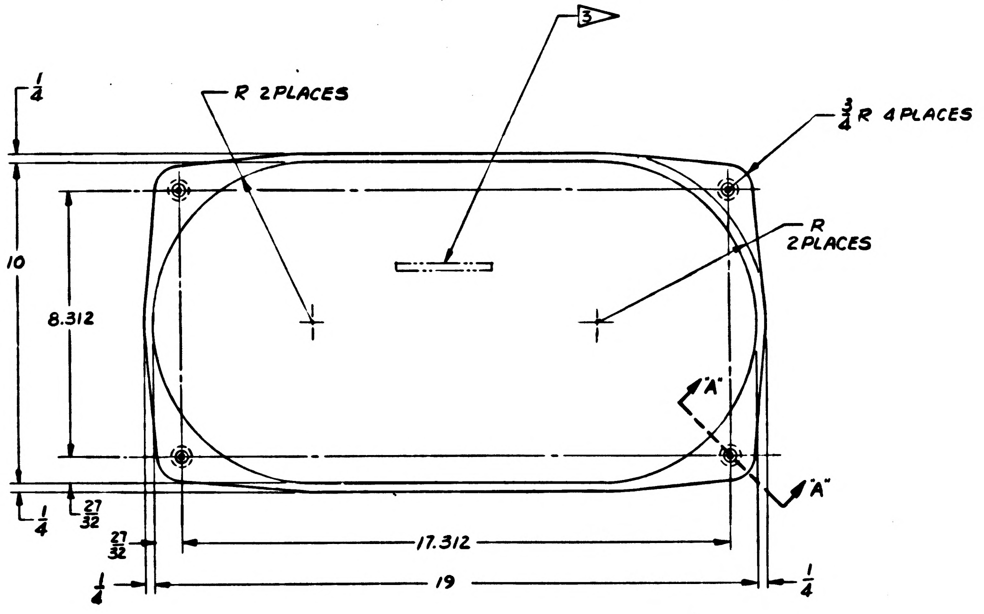
FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591).

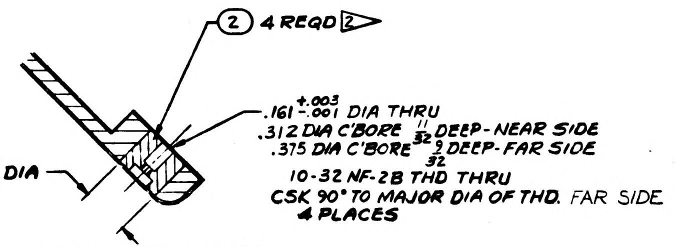
APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).

APPLY TT-E-527, (ES-2602) LUSTERLESS ENAMEL, COLOR NO. 36231 OF FED-STD-595, TO FRONT AND OUTER EDGES OF COVER, ALSO INNER EDGES OF OPENINGS PER ND 1002110.

3 IDENTIFY USING DRAWING NO., REVISION LETTER IN 1/8 HIGH BLACK CHARACTERS PER MIL-STD-130 (ES-267). COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.


1
3/8 SPHERICAL R
4 PLACES
3/4
1/4
.020


3
R 2 PLACES
3/4 R 4 PLACES
R
2 PLACES
1/4
10
8.312
"A"
"A"
1/4
27/32
27/32
17.312
1/4
19
1/4


2 4 REQD 2
.161 +.003 -.001 DIA THRU
.312 DIA C'BORE 11/32 DEEP - NEAR SIDE
.375 DIA C'BORE 9/32 DEEP - FAR SIDE
10-32 NF-2B THD THRU
CSK 90° TO MAJOR DIA OF THD. FAR SIDE
4 PLACES
3/4 DIA

PARTIAL SECTION "A"-"A"
SCALE 1:1

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	4	1014505-2	INSERT-CORE
1	1	1014505-1	COVER-HONEYCOMB AL CLAD

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014502	1014502

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+ -
-1/64	-.005	- -

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN	Linde	1 APR 63
CHECKED		5 APR 63
APPROVAL	Scholl	19 APR 63
APPROVAL		22 APR 63
NASA APPROVAL		6-15-63
MIT APPROVAL		22 APR 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

COVER - SHROUD
(INSEPARABLE)

CODE IDENT NO
SIZE E
1014505

SCALE 2:1
SHEET

1014505 A

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		63	
B3		REVISED PER TDRR NO. 04842		16 DEC 63	

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

1▷ MATERIAL:

ITEM ①: HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.

OUTER SKIN: .020 THK AL ALY PER QQ-A-318, TEMPER H-32 (TYPE 5052-H32)(ES-2105).

INNER SKIN: .020 THK AL ALY PER QQ-A-318, TEMPER H-32 (TYPE 5052-H32)(ES-2105).

ITEM ②: AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4) (ES-2104).

ADHESIVE: ADHESIVE FOR METALLIC SANDWICH CONSTRUCTION IS TO BE PER MIL-A-25463(ASG), TYPE II, CLASS 2.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND 1002177.

MUST BE FREE FROM BURRS.

2▷ TOLERANCE FOR LOCATION OF ITEM ② IS $+\frac{1}{32}$ $-\frac{1}{32}$, HOLE LOCATIONS SHALL BE AS SPECIFIED.

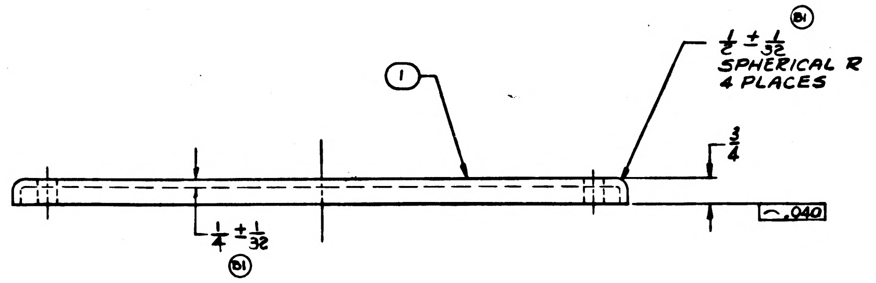
UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt{125}$.

FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591).

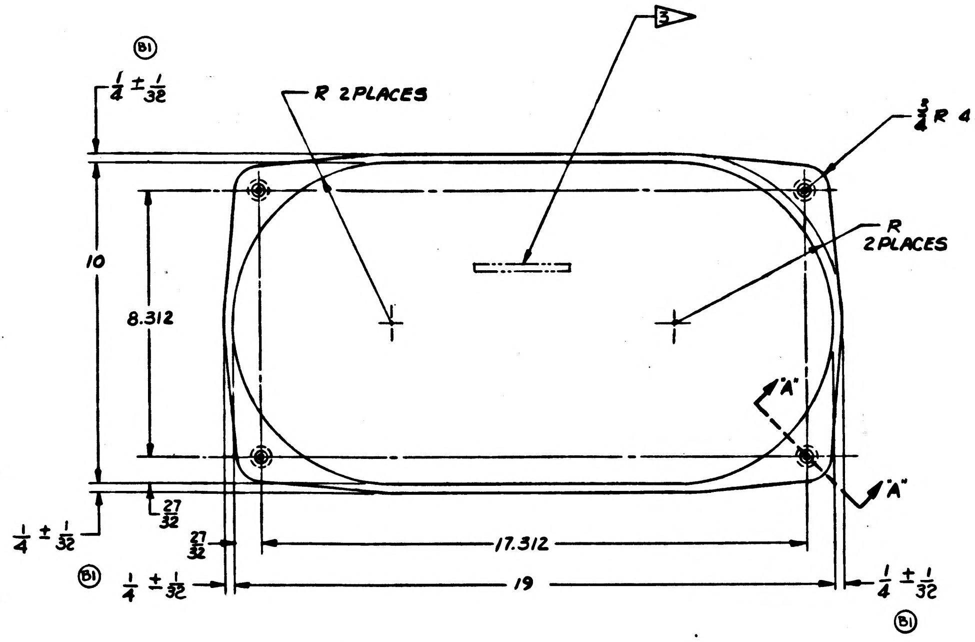
APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).

APPLY TT-E-527, (ES-2602) LUSTERLESS ENAMEL, COLOR NO. 36231 OF FED-STD-595, TO FRONT AND OUTER EDGES OF COVER, ALSO INNER EDGES OF OPENINGS PER ND 1002110.

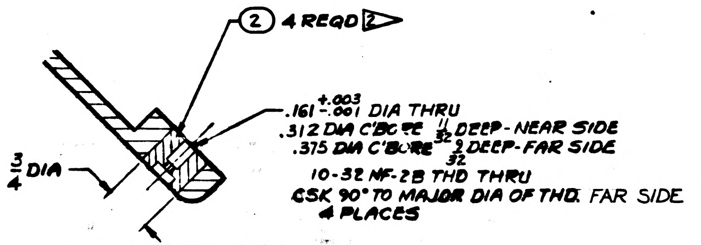
3▷ IDENTIFY USING DRAWING NO., REVISION LETTER IN 1/8 HIGH BLACK CHARACTERS PER MIL-STD-130 (ES-267). COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.



①
B1
$\frac{1}{2} \pm \frac{1}{32}$ SPHERICAL R 4 PLACES
$\frac{3}{4}$
⌒.040
$\frac{1}{4} \pm \frac{1}{32}$
B1



B1
$\frac{1}{4} \pm \frac{1}{32}$
R 2 PLACES
3▷
$\frac{3}{4}$R 4 PLACES
R 2 PLACES
10
8.312
"A"
"A"
$\frac{1}{4} \pm \frac{1}{32}$
$\frac{27}{32}$
$\frac{27}{32}$
17.312
19
B1
$\frac{1}{4} \pm \frac{1}{32}$
$\frac{1}{4} \pm \frac{1}{32}$
B1



② 4 REQD 2▷
$\frac{3}{4}$ DIA

$.161^{+.003}_{-.001}$ DIA THRU
.312 DIA C'BORE $\frac{11}{32}$ DEEP-NEAR SIDE
.375 DIA C'BORE $\frac{9}{32}$ DEEP-FAR SIDE
10-32 NF-2B THD THRU
CSK 90° TO MAJOR DIA OF THD. FAR SIDE
4 PLACES

PARTIAL SECTION "A"-"A"
SCALE 1:1

B5

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	4	1014505-2	INSERT-CORE
1	1	1014505-1	COVER-HONEYCOMB AL CLAD

LIST OF PARTS AND MATERIALS

B4

NEXT ASSY	USED ON
1014532	1014513

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+ -
-1/64	-.005	- -

DO NOT SCALE THIS DRAWING

MATERIAL 1▷

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN

		DATE
DRAWN		1 APR 63
CHECKED		15 APR 63
APPROVAL	Earl Scholl	19 APR 63
APPROVAL		22 APR 63
NASA APPROVAL		6-19-63
MIT APPROVAL		19 Jun 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

OPTICS-COVER
(INSEPARABLE)

CODE IDENT NO.
SIZE E
1014505
SCALE 2:1
SHEET 1 OF 1

Charleston 22 APR 63

1014505 B

REVISIONS TDRR					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		6- 63	EC
B3		REVISED PER TDRR NO. 04842		16 DEC 63	
C3		REVISED PER TDRR NO.06734		10 MAR 64	

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

▷1 MATERIAL:

ITEM ① : HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, $\frac{1}{8}$ CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.

OUTER SKIN: .020 THK AL ALY PER QQ-A-318, TEMPER H-32 (TYPE 5052-H32)(ES-2105).

INNER SKIN: .020 THK AL ALY PER QQ-A-318, TEMPER H-32 (TYPE 5052-H32)(ES-2105).

ITEM ② : AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4) (ES-2104).

ADHESIVE: ADHESIVE FOR METALLIC SANDWICH CONSTRUCTION IS TO BE PER MIL-A-25463(ASG), TYPE II, CLASS 2.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND 1002177.

MUST BE FREE FROM BURRS.

▷2 TOLERANCE FOR LOCATION OF ITEM ② IS $+\frac{1}{32}$ $-\frac{1}{32}$, HOLE LOCATIONS SHALL BE AS SPECIFIED.

UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt{125}$.

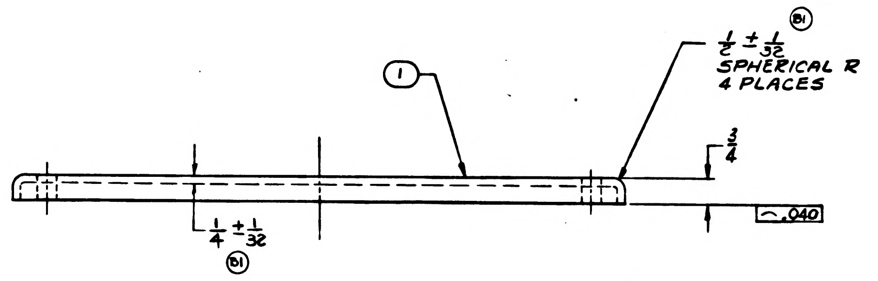
FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591).

APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).

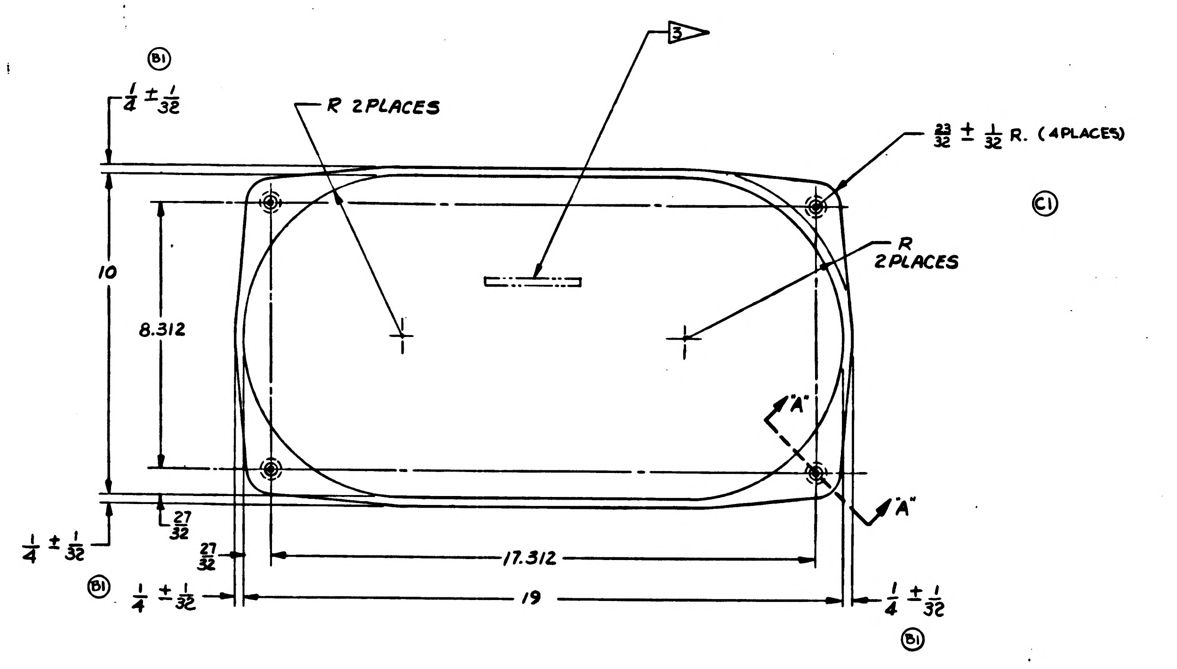
APPLY TT-E-527, (ES-2602) LUSTERLESS ENAMEL, COLOR NO.36231 OF FED-STD-595, TO FRONT AND OUTER EDGES OF COVER, ALSO INNER EDGES OF OPENINGS PER ND 1002110.

▷3 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER ND 1002019.

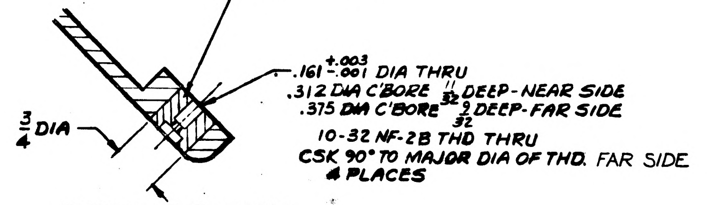
C3



B1
①
$\frac{1}{2} \pm \frac{1}{32}$ SPHERICAL R 4 PLACES
$\frac{3}{4}$
.040
$\frac{1}{4} \pm \frac{1}{32}$
B1



▷3
B1
$\frac{1}{4} \pm \frac{1}{32}$
R 2 PLACES
$\frac{23}{32} \pm \frac{1}{32}$ R. (4 PLACES)
C1
R 2 PLACES
10
8.312
"A"
"A"
$\frac{27}{32}$
$\frac{1}{4} \pm \frac{1}{32}$
$\frac{27}{32}$
17.312
B1
$\frac{1}{4} \pm \frac{1}{32}$
19
$\frac{1}{4} \pm \frac{1}{32}$
B1



② 4 REQD ▷2
$.161^{+.003}_{-.001}$ DIA THRU
.312 DIA C'BORE $\frac{11}{32}$ DEEP-NEAR SIDE
.375 DIA C'BORE $\frac{9}{32}$ DEEP-FAR SIDE
10-32 NF-2B THD THRU
CSK 90° TO MAJOR DIA OF THD. FAR SIDE
4 PLACES
$\frac{3}{4}$ DIA

PARTIAL SECTION "A"-"A"
SCALE 1:1

C2

B5

2	4	1014505-2	INSERT-CORE
1	1	1014505-1	COVER-HONEYCOMB AL CLA
ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

LIST OF PARTS AND MATERIALS

B4

NEXT ASSY	USED ON
1014532	1014513

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+ -
-1/64	-.005	- -

DO NOT SCALE THIS DRAWING

MATERIAL ▷1

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN

DRAWN	Linde	1 APR 63
CHECKED		15 APR 63
APPROVAL	Earl Scholl	19 APR 63
APPROVAL		22 APR 63
NASA APPROVAL		6-15-63
MIT APPROVAL		19 Jun 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

COVER OPTICS
(INSEPARABLE)

CODE IDENT NO.
SIZE E
1014505
SCALE 2:1
SHEET 1 OF 1

1014505 C

1014507 C

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		REVISIONS TDRR 01645			
C		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

▷1 MATERIAL: ALUMINUM ALLOY PER QQ-A-362, TEMPER-T3 (TYPE 2024-T3) (ES-2104).

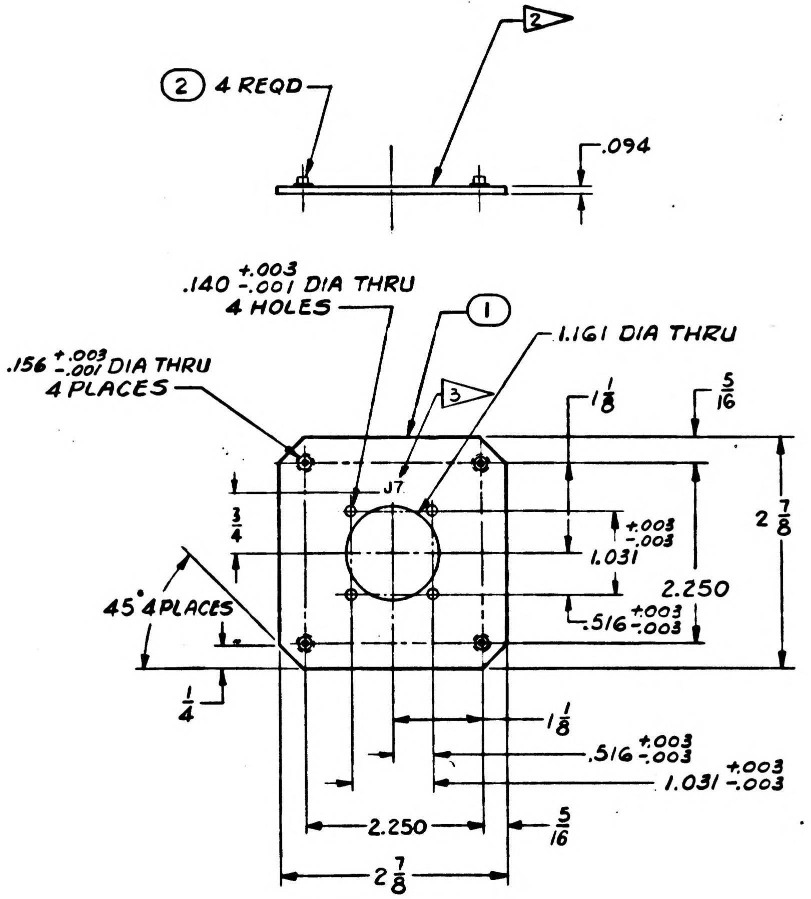
UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 125√

FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591).

APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589). APPLY ND-1002125 LUSTERLESS ENAMEL COLOR NO. 36231 OF FED. STD. 595 TO SIDE OPPOSITE PIECEMARK AND TO EDGE OF LARGE DIA. HOLE PER ND-1002110.

▷2 IDENTIFY USING PART NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).

▷3 CHARACTERS TO BE MARKED, BOTH SIDES, IN $\frac{1}{8}$ HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND 1002019. COVER WITH TT-L-58 (ES2562 CLEAR LACQUER.)



② 4 REQD
▷2
.094
.140 +.003 -.001 DIA THRU 4 HOLES
①
1.161 DIA THRU
.156 +.003 -.001 DIA THRU 4 PLACES
▷3
J7
1 1/8
5/16
3/4
2 7/8
+.003 -.003 1.031
2.250
.516 +.003 -.003
45° 4 PLACES
1/4
1 1/8
.516 +.003 -.003
1.031 +.003 -.003
2.250
5/16
2 7/8

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	4	1000076-1	NUT-CLINCH, FLUSH MOUNTED
1	1	1014507-1	PLATE-MOUNTING

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014502	1014502

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+2°
-1/64	-.005	-2°

DO NOT SCALE THIS DRAWING

MATERIAL ▷1

CONTRACT UAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN DATE 8 APR 63
CHECKED 8 MAY 63
APPROVAL D.W. Mixley 8 MAY 63
APPROVAL 8 MAY 63
NASA APPROVAL W J Rhine 6-19-63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

MOUNTING BRACKET-
CONNECTOR,
(INSEPARABLE)

CODE IDENT NO.
SIZE D
1014507
SCALE 1:1
SHEET

INCHES
0 2
PHOTOGRAPHIC SCALE ONLY

D 1014507

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.
D₁	C-5	(D₁) .156 +.001 -.001 DIA WAS .156 +.003 -.001 DIA TDRR 01797		27 JUN 63	

REVISIONS TDRR 01645

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

1 MATERIAL: ALUMINUM ALLOY PER QQ-A-362, TEMPER-T3 (TYPE 2024-T3) (ES-2104).

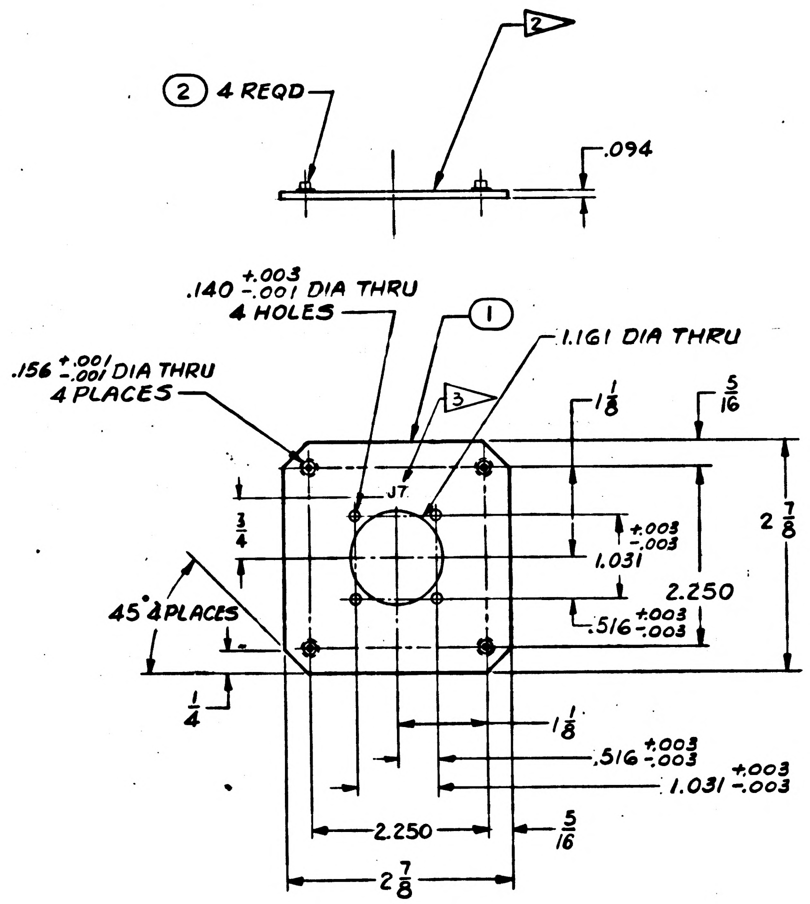
UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt{125}$

FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591).

APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589). APPLY ND-1002125 LUSTERLESS ENAMEL, COLOR NO. 36231 OF FED. STD. 595 TO SIDE OPPOSITE PIECEMARK AND TO EDGE OF LARGE DIA. HOLE PER ND-1002110.

2 IDENTIFY USING PART NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).

3 CHARACTERS TO BE MARKED, BOTH SIDES, IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND1002019. COVER WITH TT-L-58 (ES2562 CLEAR LACQUER.)



② 4 REQD
2
.094
.140 +.003 -.001 DIA THRU 4 HOLES
①
1.161 DIA THRU
.156 +.001 -.001 DIA THRU 4 PLACES
3
J7
1 1/8
5/16
3/4
+.003 -.003 1.031
2 7/8
2.250
.516 +.003 -.003
45° 4 PLACES
1/4
1 1/8
.516 +.003 -.003
1.031 +.003 -.003
2.250
5/16
2 7/8

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	4	1000076-1	NUT-CLINCH, FLUSH MOUNTED
1	1	1014507-1	PLATE-MOUNTING

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014502	1014502

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+2°
-1/64	-.005	-2°

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT UAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 8 APR 63 DATE
CHECKED 8 MAY 63
APPROVAL D.W. Misley 8 MAY 63
APPROVAL 8 MAY 63
NASA APPROVAL 6-19-63
MIT APPROVAL 19 June 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

MOUNTING BRACKET-
CONNECTOR,
(INSEPARABLE)

CODE IDENT NO.
SIZE D 1014507
SCALE 1:1
SHEET

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014507 E

REVISIONS TDRR 01645

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.
D_1	C-5	(D_1) $.156^{+.001}_{-.001}$ DIA WAS $.156^{+.003}_{-.001}$ DIA TDRR 01297		27 JUN 63	W.K.
E	A_2	(E_1) 1000076-3 WAS 1000076-1		30 AUG 63	
	A_3 A_4	(E_2) 1014605 WAS 1014502			
		(E_3) CHANGED FRACTIONAL DEMENSIONS TO DECIMAL			
		(E_4) REMOVED FLAG SYMBOLS & REPLACED WITH NUMBERS			
	C-7	(E_5) CHANGED FINISH NOTE			
	C-7	(E_6) CHANGED MARKING NOTE TDRR 02639			WK

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

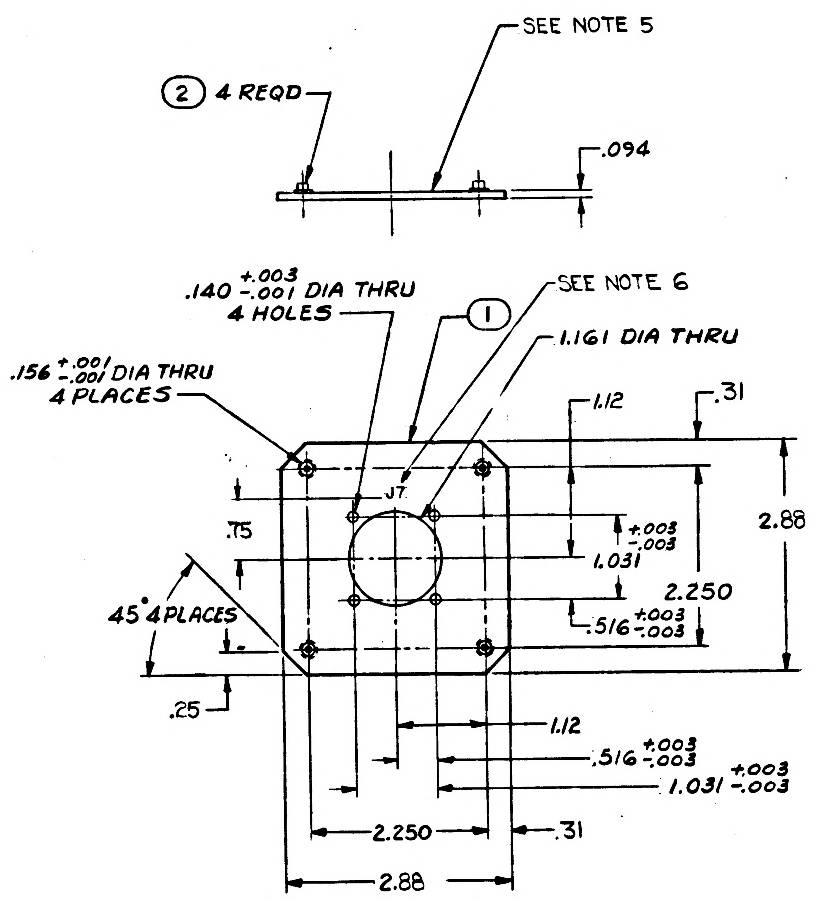
2. MATERIAL: ALUMINUM ALLOY PER QQ-A-362, TEMPER-T3 (TYPE 2024-T3) (ES-2104).

3. UNLESS OTHERWISE SPECIFIED:
   ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
   SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt[125]{}$

4. FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591).
   A. APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).
   B. APPLY TT-E-527 (ES-2602) LUSTERLESS ENAMEL, COLOR NO. 36231 OF FED. STD. 595 TO SIDE OPPOSITE PIECEMARK AND TO EDGE OF LARGE DIA. HOLE PER ND-1002110.

5. IDENTIFY USING PART NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).

6. - CHARACTERS TO BE MARKED, BOTH SIDES, IN .12 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND1002019.



ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	4	1000076-3	NUT-CLINCH, FLUSH MOUNTED
1	1	1014507-1	PLATE-MOUNTING

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014605	1014605

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS +.02 -.02
DECIMALS +.005 -.005
ANGLES +2° -2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT UAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN H. Fride 8 APR 63
DATE 8 MAY 63
CHECKED
APPROVAL D.W. Mirley 8 MAY 63
APPROVAL 8 MAY 63
NASA APPROVAL W.J. Rhine 6-19-63
MIT APPROVAL 19 June 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

MOUNTING BRACKET-
CONNECTOR,
(INSEPARABLE)

CODE IDENT NO.
SIZE D
1014507
SCALE 1:1
SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

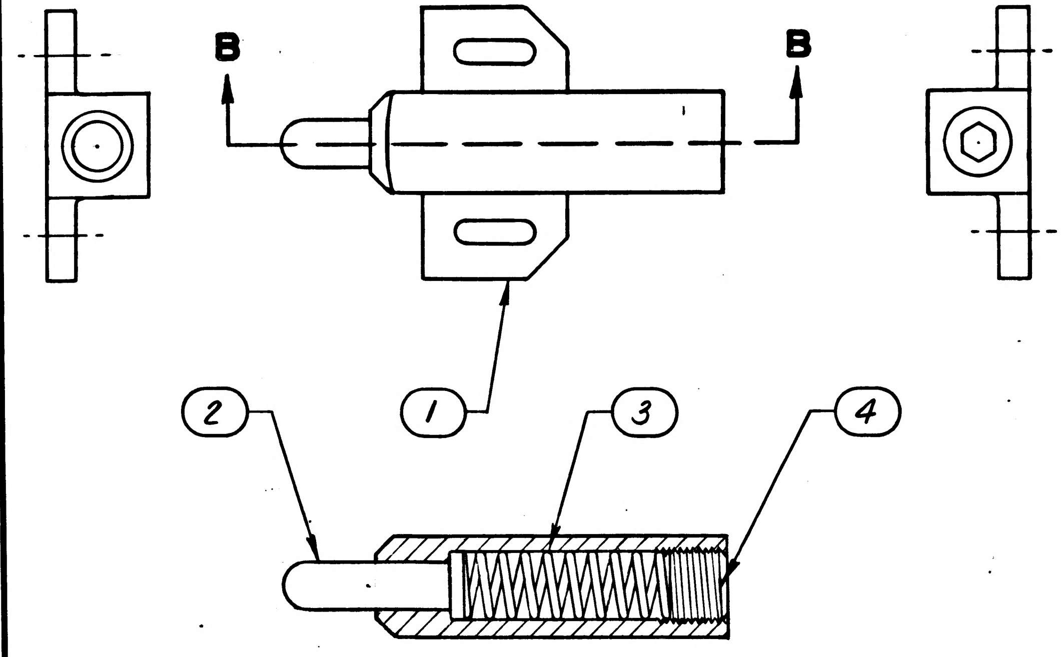
1014509

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS A RELEASE	TDR 137 7/10/63 01948	28 JUN 63	reh

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
MUST BE FREE FROM BURRS.

IDENTIFY USING PART NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

SET SCREW SHALL BE FLUSH WITHIN ± .010



SECTION BB

	1		4	NAS 1081 C08 A2L	SCREW, SELF LOCKING, SET
	1		3	1010609	SPRING, COMPRESSION
	1		2	1014511	PLUNGER, SPRING
	1		1	1014510	HOUSING, PLUNGER
	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
QUANTITY REQUIRED			LIST OF PARTS AND MATERIALS		

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014558	1014558	
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+ —
-1/64	-.005	- —

DO NOT SCALE THIS DRAWING

MATERIAL ———

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN J.A. KOSIDOWSKI DATE 22 MAY 63
CHECKED W. Biehl 27 MAY 63
APPROVAL E. MERTZ 27 MAY 63
Design APPROVAL Pafaelow 27 MAY 63
NASA APPROVAL Jack Barnard
J. Sinoia
MIT APPROVAL M.B. Trayer 7/10/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SPRING PLUNGER
ASSEMBLY

CODE IDENT NO.
SIZE C
1014509
SCALE 4/1
SHEET

MIL 1078C—P

2 Charleston 27 MAY 63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014509 B

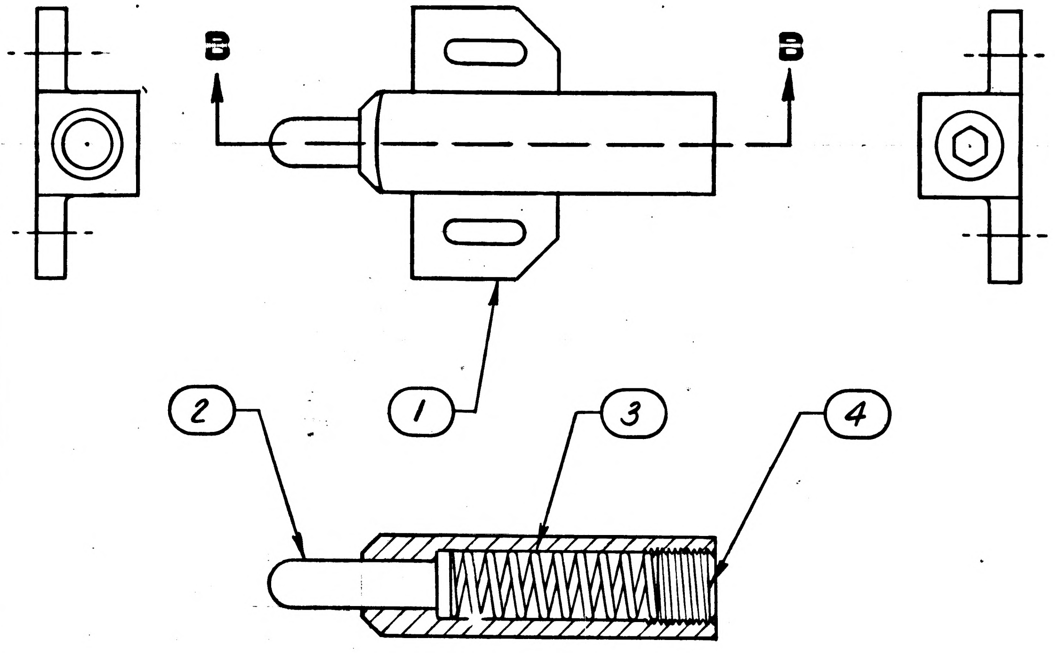
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
MUST BE FREE FROM BURRS.

IDENTIFY USING PART NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

SET SCREW SHALL BE FLUSH WITHIN ± .010

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS A RELEASE	TDR R 7/10/63 01948	28 JUN 63	reh
C	A-1	CHANGED P/N 1010609 TO 1010609-1 02422		6 AUG. 63	WK.



SECTION BB

			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			1		4	NAS 1081 C08 A2L	SCREW, SELF LOCKING, SET
			1		3	1010609-1	SPRING, COMPRESSION
			1		2	1014511	PLUNGER, SPRING
			1		1	1014510	HOUSING, PLUNGER

QUANTITY REQUIRED — LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014558	1014558	

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+ —
-1/64	-.005	- —

DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN J.A. KOSIDOWSKI DATE 22 MAY 63
CHECKED W. Biehl 27 MAY 63
APPROVAL E. MERTZ 27 MAY 63
APPROVAL George P[illegible] 27 MAY 63
NASA APPROVAL Jack Barnard
MIT APPROVAL M B Trageser 7/1/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SPRING PLUNGER
ASSEMBLY

CODE IDENT NO.
SIZE C
1014509
SCALE 4/1
SHEET

MIL 1076C—P

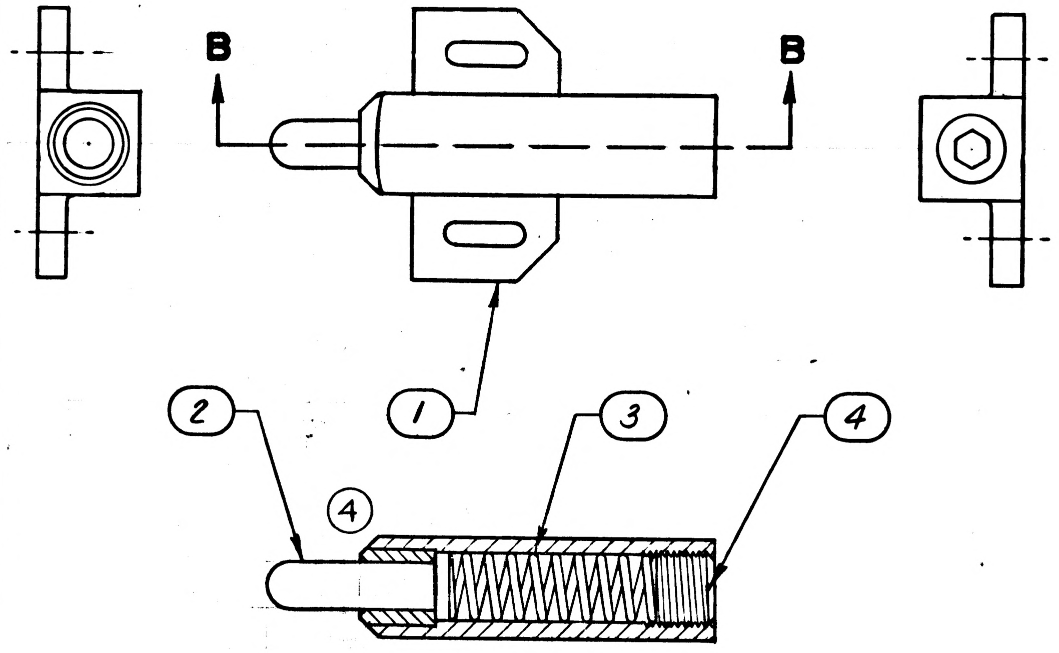
Charleston 27 MAY 63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

① NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MUST BE FREE FROM BURRS.
3. IDENTIFY USING PART NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).
4. SET SCREW SHALL BE FLUSH WITHIN ± .010
5. SERIALIZE PER ND-1002023. ②

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS A RELEASE	TDRR 7/10/63 01948	28 JUN 63	reh
Ⓜ C	A-1	CHANGED P/N 1010609 TO 1010609-1 02422		6 AUG. 63	WK
D 4		REVISED PER TDRR NO. 03572		4 OCT 63	WK



SECTION **BB**

③

			1		4	NAS 1081 C08 A2L	SCREW, SELF LOCKING, SET
			1		3	1010609-1	SPRING, COMPRESSION
			1		2	1014511	PLUNGER, SPRING
			1		1	1014510	HOUSING, PLUNGER ASSY (INSEP)
			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

1014558	1014558	
NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ 1/64	+.005	+ —
− 1/64	−.005	− —

DO NOT SCALE THIS DRAWING

MATERIAL ——

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN J.A. KOSIDOWSKI DATE 22 MAY 63
CHECKED W. Biehl 27 MAY 63
APPROVAL E. MERTZ 27 MAY 63
APPROVAL George Pedersen 27 MAY 63

NASA APPROVAL Jack Barnard
MIT APPROVAL M.B. Trageser 7/1/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SPRING PLUNGER
ASSEMBLY

CODE IDENT NO.
SIZE C
1014509
SCALE 4/1
SHEET

2 Charleston 27 MAY 63

MIL 1078C—P

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

1 MATERIAL: QQ-S-763 CLASS 303 OR 303SE COND A CF (ES-380 SST).

FINISH: MIL-F-14072(S16C) FIN E 300 (ES-585 PASSIVATE).

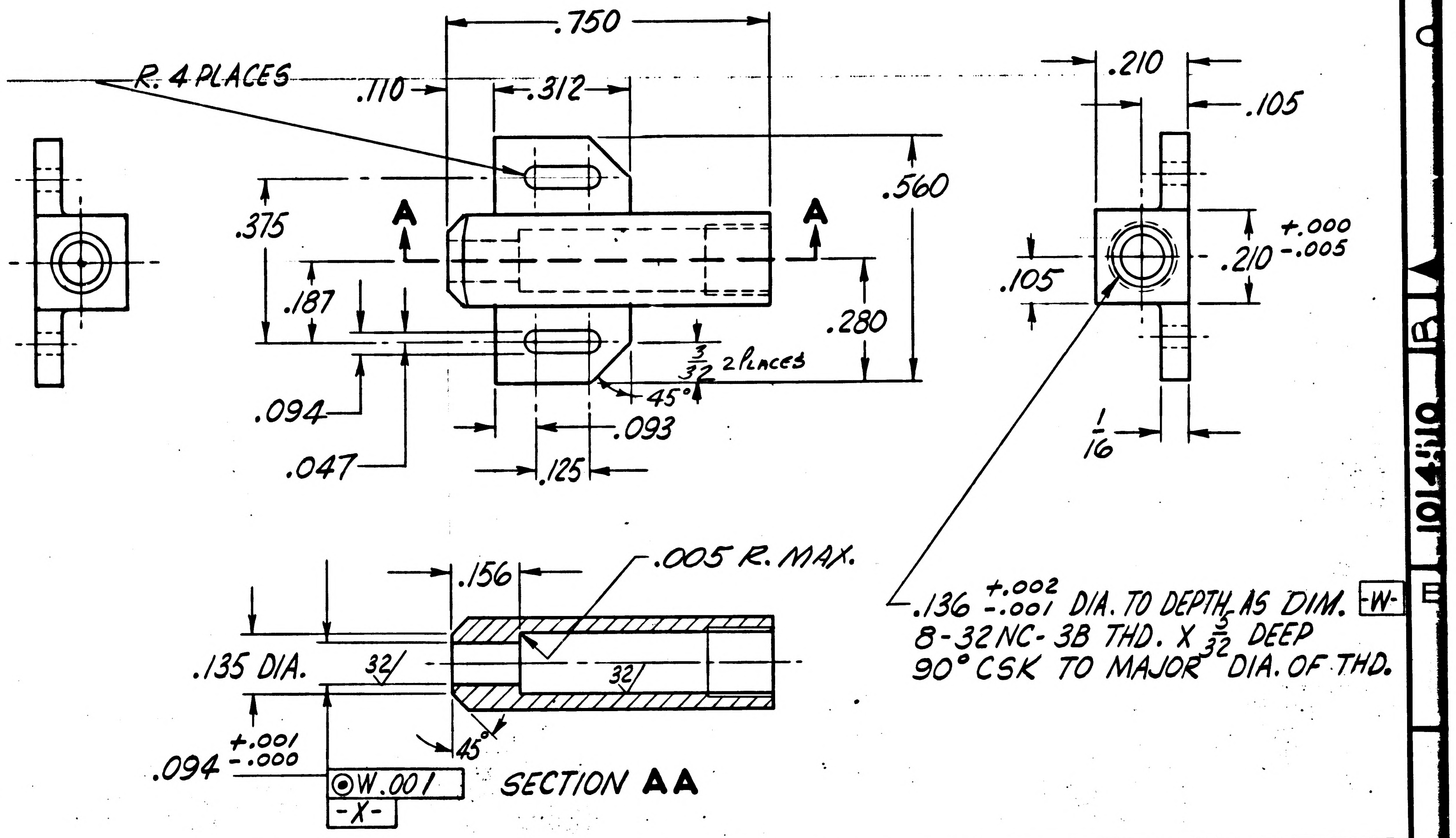
UNLESS OTHERWISE SPECIFIED:
MACHINED CORNERS MUST NOT EXCEED .010 RADIUS OR CHAMFER
SURFACE ROUGHNESS MUST NOT EXCEED 63√.

MUST BE FREE FROM BURRS.

IDENTIFY USING PART NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS A RELEASE TDRR01948 7/10/63		28 JUN 63	


.750
R. 4 PLACES
.110
.312
.560
.375
A
A
.187
.280
.094
$\frac{3}{32}$ 2 PLACES
45°
.093
.047
.125
.210
.105
.105
.210 +.000 -.005
$\frac{1}{16}$
.136 +.002 -.001 DIA. TO DEPTH AS DIM. -W-
8-32NC-3B THD. X $\frac{3}{32}$ DEEP
90° CSK TO MAJOR DIA. OF THD.
.156
.005 R. MAX.
.135 DIA.
32√
32√
45°
.094 +.001 -.000
⊚ W .001
-X-

SECTION AA

1014509	1014558
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+1°
-1/64	-.005	-1°

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT NAS-9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN J.A. KOSIDOWSKI DATE 22 MAY 63
CHECKED W. Siehl 27 May 63
APPROVAL E. MERTZ 27 MAY 63
APPROVAL Popadiw 27 MAY 63
NASA APPROVAL Jack Barnard
MIT APPROVAL M.B. Trageser 7/10/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HOUSING, PLUNGER

CODE IDENT NO.
SIZE C
1014510
SCALE 4/1
SHEET

MIL 1077C—P

Charleston 27 MAY 63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS A RELEASE		26 NOV 63	

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

▷1 MATERIAL: MIL-R-5847 SILICONE RUBBER CLASS I
GRADE 60 (ES-73-3)

IDENTIFY USING DWG NO., REVISION LETTER, AND MANUFACTURER'S SYMBOL PER MIL-STD-130.

DESIGN REQUIREMENTS:

ATMOSPHERE: 100% OXYGEN.

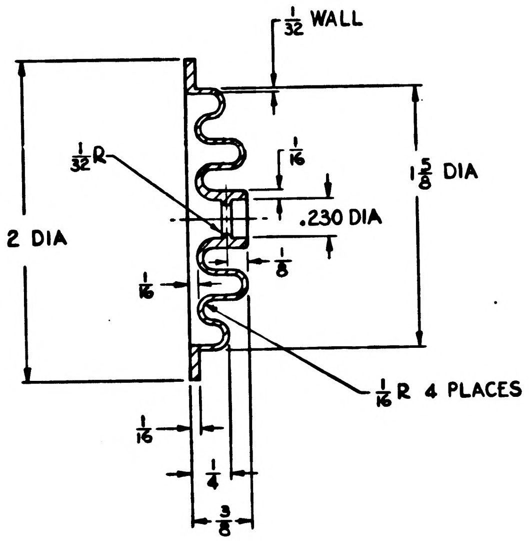
PRESSURE: 15 PSIA TO 10^{-6} MM HG (NO PRESSURE DIFFERENTIAL ACROSS THE DIAPHRAGM).

TEMPERATURE: OPERATING, 0°F TO +160°F.
NON-OPERATING, -65°F TO +160°F.

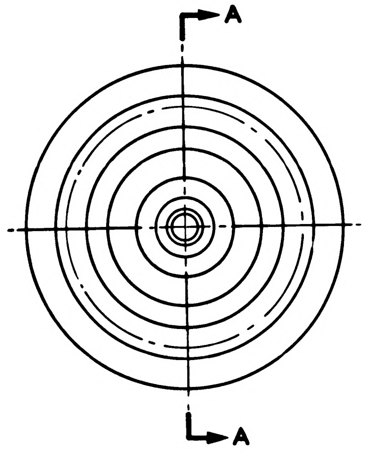
RELATIVE HUMIDITY: 100%.

MATERIAL SHALL NOT OUT-GAS TOXIC OR CORROSIVE GASES UNDER ABOVE CONDITIONS.

THE DIAPHRAGM SHALL NOT EXERT MORE THAN A 5 OZ RETURNING FORCE WHEN DEFLECTED RADIALLY .750 FROM THE CENTER POSITION.



SECTION A-A



1014558	1014558	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ±.005 ANGLES ± – DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN R. Fox DATE 14 MAY 63 CHECKED Paprocki 6 MAY 63 APPROVAL Earl Martz 17 MAY 63 APPROVAL 17 MAY 63	MANNED SPACECRAFT CENTER HOUSTON, TEXAS DIAPHRAGM, HAND CONTROLLER	
NEXT ASSY	USED ON	MATERIAL ▷1	NASA APPROVAL Jack Barnard	CODE IDENT NO.	SIZE D 1014512
APPLICATION		CONTRACT NAS-9-497	MIT APPROVAL	SCALE 2:1	SHEET 1 OF 1

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS TDRR 0.383

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS A RELEASE		20 MAY 63	
C₁	D-8	Ⓒ₁ REVISED NOTE ▷1. CLASS III WAS CLASS I, ADDED COLOR INFO. TDRR 2637		21 AUG 63	

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

▷1 MATERIAL: MIL-R-5847 SILICONE RUBBER CLASS III GRADE 60 (ES-73-3)
COLOR GRAY #36231 PER FEDERAL STD 595

IDENTIFY USING DWG NO., REVISION LETTER, AND MANUFACTURER'S SYMBOL PER MIL-STD-130.

DESIGN REQUIREMENTS:

ATMOSPHERE: 100% OXYGEN.

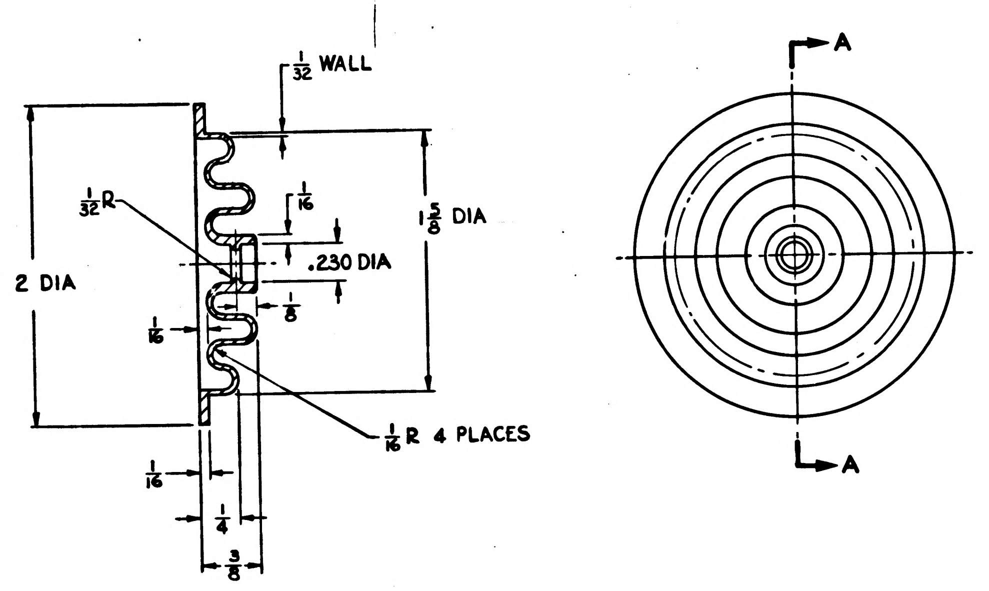
PRESSURE: 15 PSIA TO 10^{-4} MM HG (NO PRESSURE DIFFERENTIAL ACROSS THE DIAPHRAGM).

TEMPERATURE: OPERATING, 0°F TO +160°F.
NON-OPERATING, -65°F TO +160°F.

RELATIVE HUMIDITY: 100%.

MATERIAL SHALL NOT OUT-GAS TOXIC OR CORROSIVE GASES UNDER ABOVE CONDITIONS.

THE DIAPHRAGM SHALL NOT EXERT MORE THAN A 5 OZ RETURNING FORCE WHEN DEFLECTED RADIALLY .750 FROM THE CENTER POSITION.



SECTION A-A

1014558 NEXT ASSY	1014558 USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± $\frac{1}{64}$ DECIMALS ±.005 ANGLES ± — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN R. Fox DATE 14 MAY 63 CHECKED Paprocki 16 MAY 63 APPROVAL Earl Martz 17 MAY 63 APPROVAL [illegible] 17 MAY 63	MANNED SPACECRAFT CENTER HOUSTON, TEXAS DIAPHRAGM, HAND CONTROLLER
APPLICATION		MATERIAL ▷1 CONTRACT NAS-9-497	NASA APPROVAL Jack Barnard MIT APPROVAL [illegible] 24 May 63	CODE IDENT NO. SIZE D 1014512 SCALE 2:1 SHEET 1 OF 1

MIL 10770-F

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

D 1014512

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS A RELEASE		20 MAY 63	
C1	D-8	(C1) REVISED NOTE 1. CLASS III WAS CLASS I, ADDED COLOR INFO. TDRR 2637		21 AUG 63	
D		REVISED PER TDRR 11314		12 AUG 64	JWP

REVISIONS TDRR 01323

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

1 MATERIAL: MIL-R-5847 SILICONE RUBBER CLASS III GRADE 60 (ES-73-3) COLOR GRAY #36231 PER FEDERAL STD 595

IDENTIFY USING DWG NO., REVISION LETTER, AND MANUFACTURER'S SYMBOL PER ND1002019.

DESIGN REQUIREMENTS:

ATMOSPHERE: 100% OXYGEN.

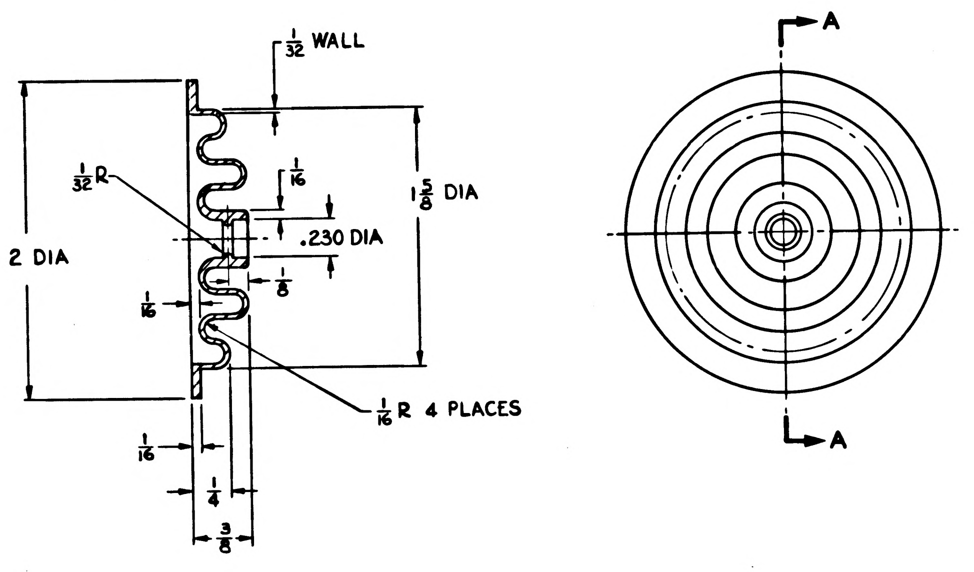
PRESSURE: 15 PSIA TO 10^{-4} MM HG (NO PRESSURE DIFFERENTIAL ACROSS THE DIAPHRAGM).

TEMPERATURE: OPERATING, 0°F TO +160°F.
~~NON-OPERATING, -65°F TO +160°F~~

RELATIVE HUMIDITY: 100%.

MATERIAL SHALL NOT OUT-GAS TOXIC OR CORROSIVE GASES UNDER ABOVE CONDITIONS.

THE DIAPHRAGM SHALL NOT EXERT MORE THAN A 15 OZ RETURNING FORCE WHEN DEFLECTED RADIALLY 1/2 IN. FROM THE CENTER POSITION.



SECTION A-A

1014558	1014558	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ±1/64 DECIMALS ±.005 ANGLES ± — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN R. Fox DATE 14 MAY 63 CHECKED Paprocki 16 MAY 63 APPROVAL Earl Mertz 17 MAY 63 APPROVAL [illegible] 17 MAY 63	MANNED SPACECRAFT CENTER HOUSTON, TEXAS DIAPHRAGM, HAND CONTROLLER	
NEXT ASSY	USED ON	MATERIAL 1	NASA APPROVAL Jack Barnard	CODE IDENT NO.	SIZE D 1014512
APPLICATION		CONTRACT NAS 9-497	MIT APPROVAL [illegible] 26 May 63	SCALE 2:1	SHEET 1 OF 1

MIL 10770-F

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1014513 Ⓜ

REVISIONS TDRR 01630

SYM	DESCRIPTION	DATE	APPROVAL
A 2	REVISED PER TDRR NO. 03193	9/19/63	WK

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014578	G&N INDICATOR CONT PANEL ASSY	
1	1007059	D&C ELECTRONICS ASSY	
1	1014502	OPTICS SHROUD & COVER ASSY	
1	1014526	IMU CONTROL PANEL ASSY	

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO.
CONTRACT

DRAWN R LeDuc DATE 27 MAY 63
CHECKED F J Boehme 28 MAY 63
APPROVAL 6/19/63
APPROVAL
NASA APPROVAL W J Rhine 6-19-63
MIT APPROVAL 17 June

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

D&C GROUP

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 1014513
SCALE #
WT
SHEET 1 OF 1

MASTER

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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1014513 B

REVISIONS TDRR 01630

SYM	DESCRIPTION	DATE	APPROVAL
A 2	REVISED PER TDRR NO. 03193	9/19/63	WK
B 4	REVISED PER TDRR NO. 04843	10 OCT. 63	

1014513 B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014532	OPTICS COVER ASSY	5
1	1014578-011	G&N INDICATOR CONT PANEL ASSY	4
1	1007059	D&C ELECTRONICS ASSY	3
1	1014502	OPTICS SHROUD ASSY	2
1	1014526-011	IMU CONTROL PANEL ASSY	1

LIST OF MATERIALS

MASTER

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±# DECIMALS ±# ANGLES ±#
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO.
CONTRACT
DRAWN R LeDue DATE 27 MAY 63
CHECKED F J Boehme 28 MAY 63
APPROVAL 6/19/63
APPROVAL
NASA APPROVAL W J Rhine 6-19-63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

D&C GROUP

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 1014513
SCALE #
WT
SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1014513 C

REVISIONS TDRR 01630

SYM	DESCRIPTION	DATE	APPROVAL
A 2	REVISED PER TDRR NO. 03193	9/19/63	WK
B 4	REVISED PER TDRR NO. 04843	10 OCT. 63	
C 2	REVISED PER TDRR NO. 06720	10 MAR 64	WK

	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
(C1)	1	1015003	CONTROL ELECTRONICS ASSY	6
	1	1014532	OPTICS COVER ASSY	5
	1	1014578-011	G&N INDICATOR CONT PANEL ASSY	4
	1	1007059	D&C ELECTRONICS ASSY	3
(C2)	1	1014502-011	OPTICS SHROUD ASSY	2
	1	1014526-011	IMU CONTROL PANEL ASSY	1

LIST OF MATERIALS

MASTER

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT

DRAWN R LeDuc DATE 27 MAY 63
CHECKED F J Boehme 28 MAY 63
APPROVAL 6/19/63
APPROVAL
NASA APPROVAL W J Rhine 6-19-63
MIT APPROVAL 17 Jun 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

D&C GROUP

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 1014513
SCALE #
WT
SHEET 1 OF 1

1014513 C

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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1014513 D

REVISIONS TDRR 01630

SYM	DESCRIPTION	DATE	APPROVAL
A_2	REVISED PER TDRR NO. 03193	9/19/63	WK
B_4	REVISED PER TDRR NO. 04843	10 OCT. 63	
C_2	REVISED PER TDRR NO. 06720	10 MAR 64	WK
D	REVISED PER TDRR NO. 10169	24 JUN 64	JJJ / PJ

D 1014513

	QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
Ⓓ	1	1014578-021	G&N INDICATOR CONT PANEL ASSY	7
(C_1)	1	1015003	CONTROL ELECTRONICS ASSY	6
	1	1014532	OPTICS COVER ASSY	5
Ⓓ	~~1~~	~~1014578-011~~	~~G&N INDICATOR CONT PANEL ASSY~~	~~4~~
	1	1007059	D&C ELECTRONICS ASSY	3
(C_2)	1	1014502-011	OPTICS SHROUD ASSY	2
	1	1014526-011	IMU CONTROL PANEL ASSY	1

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±# DECIMALS ±# ANGLES ±#
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN R LeDue DATE 27 MAY 63
CHECKED J S Bochme 28 May
APPROVAL 6/19/63
APPROVAL
NASA APPROVAL W J Rhine 6-19-63
MIT APPROVAL 17 June

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HOUSTON, TEXAS

D&C GROUP

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 1014513
SCALE #
WT
SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1014513 E

REVISIONS TDRR 01630

	SYM	DESCRIPTION	DATE	APPROVAL
Ⓜ	A_2	REVISED PER TDRR NO. 03193	9/19/63	W K
Ⓜ	B_4	REVISED PER TDRR NO. 04843	10 OCT. 63	
Ⓜ	C_2	REVISED PER TDRR NO. 06720	10 MAR 64	WK
Ⓜ	D	REVISED PER TDRR NO. 10169	24 JUN 64	JJJ / PJ
	E	REVISED PER TDRR NO. 17036	8 MAR 65	R.W.T.

	1	—	—	1015064-011	CONTROL ELECTRONICS ASSY	12
	1	1	—	1014578-031	G&N INDICATOR CONTROL PANEL ASSY	11
	1	1	—	1014526-021	IMU CONTROL PANEL ASSY	10
	—	1	—	1015003-011	CONTROL ELECTRONICS ASSY	9
	1	—	—	1015065-011	D&C ELECTRONICS ASSY	8
Ⓓ	—	—	1	1014578-021	G&N INDICATOR CONT PANEL ASSY	7
C_1	—	—	1	1015003	CONTROL ELECTRONICS ASSY	6
	1	1	1	1014532	OPTICS COVER ASSY	5
Ⓓ			~~1~~	~~1014578-011~~	~~G&N INDICATOR CONT PANEL ASSY~~	~~4~~
	—	1	1	1007059	D&C ELECTRONICS ASSY	3
C_2	1	1	1	1014502-011	OPTICS SHROUD ASSY	2
	—	—	1	1014526-011	IMU CONTROL PANEL ASSY	1
	021	011	000	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
	QTY REQ'D					

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

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DRAWN R LeDuc DATE 27 MAY 63
CHECKED Boehme 28 MAY
APPROVAL 6/19/63
APPROVAL
NASA APPROVAL W J Rhine 6-19-63
MIT APPROVAL 17 Jun

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D&C GROUP

CODE IDENT NO. | SIZE C | NASA DRAWING NO. 1014513
SCALE # | WT | SHEET 1 OF 1

1014513 E

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1014513 F

REVISIONS TDRR 01630

	SYM	DESCRIPTION	DATE	APPROVAL
Ⓜ	A_2	REVISED PER TDRR NO. 03193	9/19/63	W K
Ⓜ	B_4	~~REVISED~~ PER TDRR NO. 04843	10 OCT. 63	
Ⓜ	C_2	REVISED PER TDRR NO. 06720	10 MAR 64	W K
Ⓜ	D	REVISED PER TDRR NO. 10169	24 JUN 64	JJJ PJ
Ⓜ	E	REVISED PER TDRR NO. 17036	8 MAR 65	R.W.T.
	F	REVISED PER TDRR NO. 21644	23 AUG 65	J.H.P.

1014513 . F

	QTY REQD				PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
	031	021	011	000			
	1	—	—	—	1023014-011	CONDITION ANNUNCIATOR ASSY	15
	1	—	—	—	1014578-041	G&N INDICATOR CONTROL PANEL ASSY	14
	1	—	—	—	1014526-031	IMU CONTROL PANEL ASSY	13
	1	1	—	—	1015064-011	CONTROL ELECTRONICS ASSY	12
	—	1	1	—	1014578-031	G&N INDICATOR CONTROL PANEL ASSY	11
	—	1	1	—	1014526-021	IMU CONTROL PANEL ASSY	10
	—	—	1	—	1015003-011	CONTROL ELECTRONICS ASSY	9
	1	1	—	—	1015065-011	D&C ELECTRONICS ASSY	8
Ⓓ	—	—	—	1	1014578-021	G&N INDICATOR CONT PANEL ASSY	7
(C1)	—	—	—	1	1015003	CONTROL ELECTRONICS ASSY	6
	1	1	1	1	1014532	OPTICS COVER ASSY	5
Ⓓ				~~1~~	~~1014578-011~~	~~G&N INDICATOR CONT PANEL ASSY~~	~~4~~
	—	—	1	1	1007059	D&C ELECTRONICS ASSY	3
(C2)	1	1	1	1	1014502-011	OPTICS SHROUD ASSY	2
	—	—	—	1	1014526-011	IMU CONTROL PANEL ASSY	1

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±# DECIMALS ±# ANGLES ±#
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN DATE 27 MAY 63
CHECKED 20 May
APPROVAL 6/19/63
APPROVAL
NASA APPROVAL W. J. Rhine 6-19-63
MIT APPROVAL 17 Jun 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

D&C GROUP

CODE IDENT NO.	SIZE	NASA DRAWING NO.
80230	C	1014513

SCALE # WT SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1014513

REVISIONS TDRR 01630

SYM	DESCRIPTION	DATE	APPROVAL

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014605	AGE INTERCONNECT HARNESS	
1	1014578	G&N INDICATOR CONT PANEL ASSY	
1	1007059	D&C ELECTRONICS ASSY	
1	1014502	OPTICS SHROUD & COVER ASSY	
1	1014526	IMU CONTROL PANEL ASSY	

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± // DECIMALS ± // ANGLES ± //
DO NOT SCALE THIS DRAWING
MATERIAL //
HEAT TREATMENT //
FINAL FINISH //

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT

DRAWN R. LeDuc DATE 27 MAY 63
CHECKED F. J. Boehme 28 MAY 63
APPROVAL 6/19/63
APPROVAL
NASA APPROVAL W. J. Rhine 6-19-63
MIT APPROVAL 17 Jun 63

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HOUSTON, TEXAS

D&C GROUP

CODE IDENT NO.	SIZE	NASA DRAWING NO.
	C	1014513
SCALE //	WT	SHEET OF

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

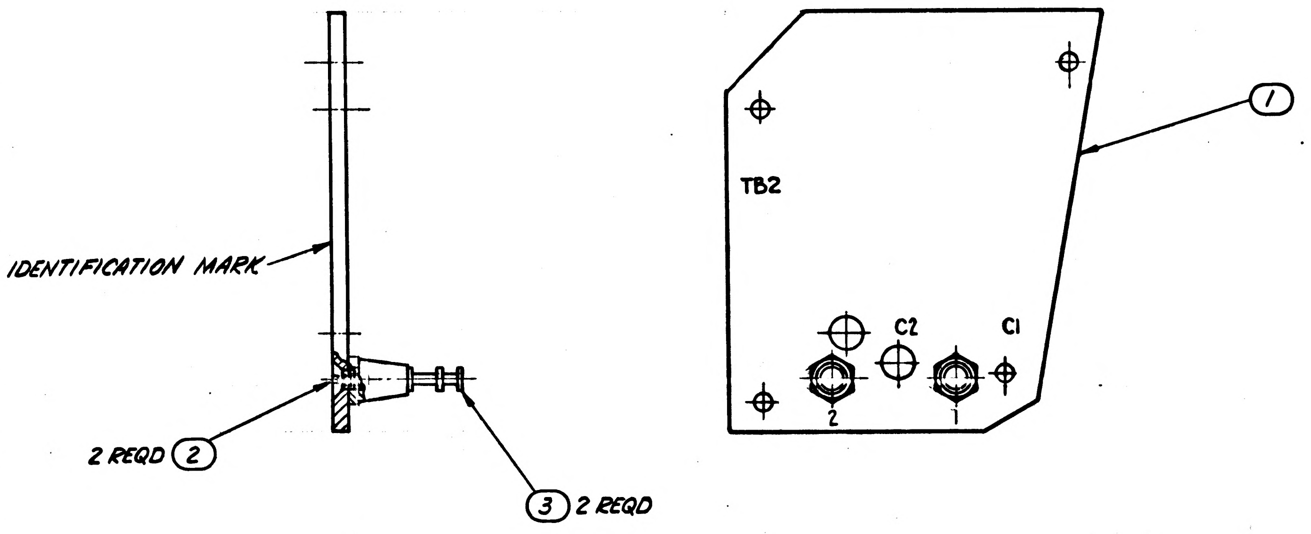
1014513

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).
3. SERIALIZE PER ND 1002023.

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE. TDRR 01948 7/10/63		3 JUL 63	PJG
B2		REVISED PER TDRR NO. 03300		24 SEP 63	7/26/63



QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			2		3	1010676-1	TERM. STUD FEEDTHRU (INSULATED
			2		2	1010628-12	SCREW, FL HD SELF LOCKING
			1		1	1014515	TERMINAL BOARD
			011				

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014558	1014558	

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —

DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN Wunderlich DATE 21 Jun 63
CHECKED P. Remke 25 JUN 63
APPROVAL E. Mertz 25 JUN 63
APPROVAL [illegible] 25 Jun 63
NASA APPROVAL Jack Bassen
MIT APPROVAL M.B. Trageser 7/10/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

COMPONENT BOARD ASSEMBLY

CODE IDENT NO.
SIZE D
1014514
SCALE 2:1
SHEET 1 OF 1

G. Erickson 25 JUN 63

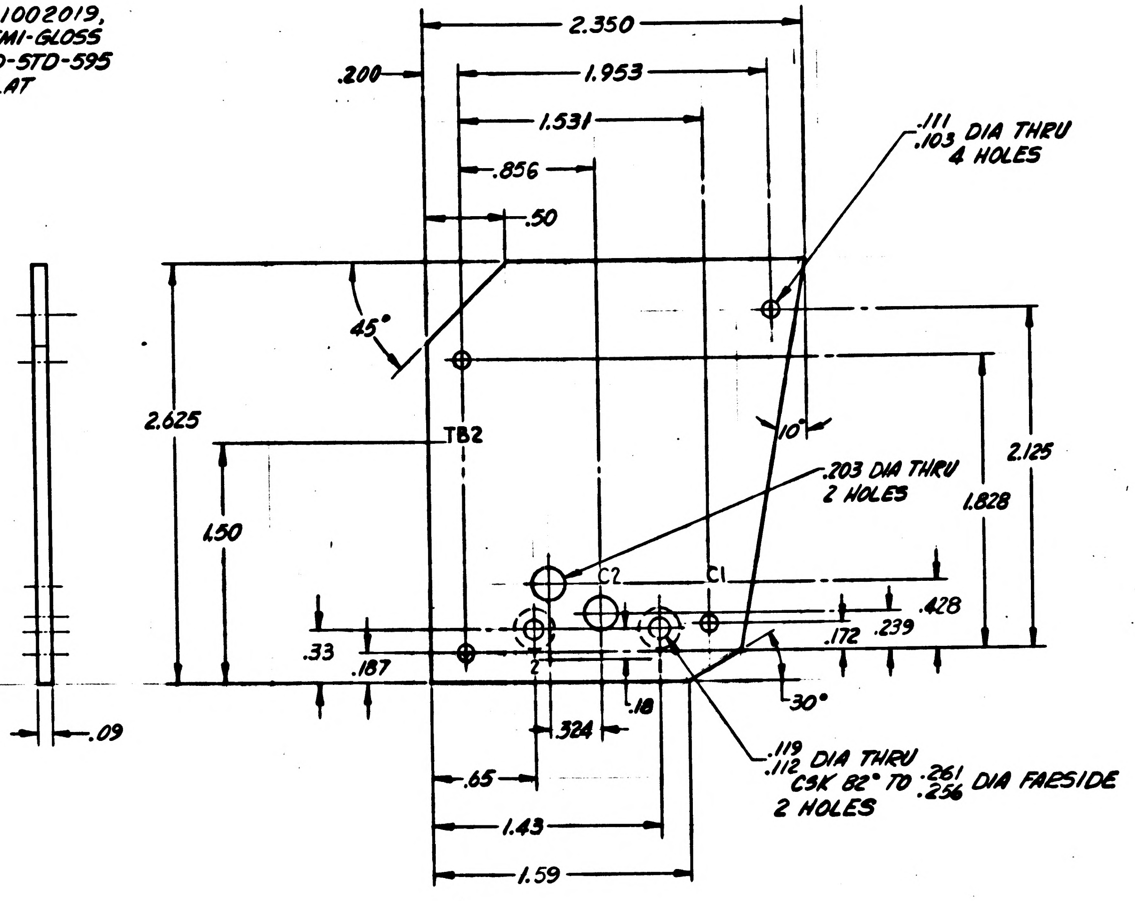
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

A 1014515

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE. TDRR 01948 7/10/63		3 JUL 63	RJG

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MUST BE FREE FROM BURRS AND SHARP CORNERS
3. IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).
4. GLASS CLOTH EPOXY RESIN, LAMINATED, PER MIL-P-18177, TYPE GEB (ES-2744 TYPE II).
5. STENCIL CHARACTERS .09 HIGH PER ND-1002019, CENTRALIZE AS SHOWN, COLOR BLACK SEMI-GLOSS ENAMEL, NO. 27038 CONFORMING WITH FED-STD-595 PER TT-E-529 CLASS A (ES-2621). CLEAR FLAT LACQUER OVERCOAT TT-L-58 (ES-2562).



2.350
1.953
.200
1.531
.856
.50
.111
.103 DIA THRU
4 HOLES
45°
10°
2.625
TB2
.203 DIA THRU
2 HOLES
2.125
1.828
1.50
C2
C1
.428
.239
.172
.33
.187
30°
.18
.324
.09
.119
.112 DIA THRU
CSK 82° TO .261 .256 DIA FARSIDE
2 HOLES
.65
1.43
1.59
2

MASTER

1014514	1014558
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

2 PLACE DECIMALS	3 PLACE DECIMALS	ANGLES
+.02	+.005	+2°
-.02	-.005	-2°

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 4

CONTRACT NAS9-497

S. Erickson 25 JUN 63

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN Wunderlich DATE 21 Jun 63
CHECKED P. Lande 25 Jun 63
APPROVAL E. Mertz 25 JUN 63
APPROVAL A. Hodel 25 Jun 63
NASA APPROVAL Jack Barnard
F. J. Suse
MIT APPROVAL MB Trageser 7/10/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BOARD, TERMINAL

CODE IDENT NO. SIZE D 1014515

SCALE 2:1 SHEET 1 OF 1

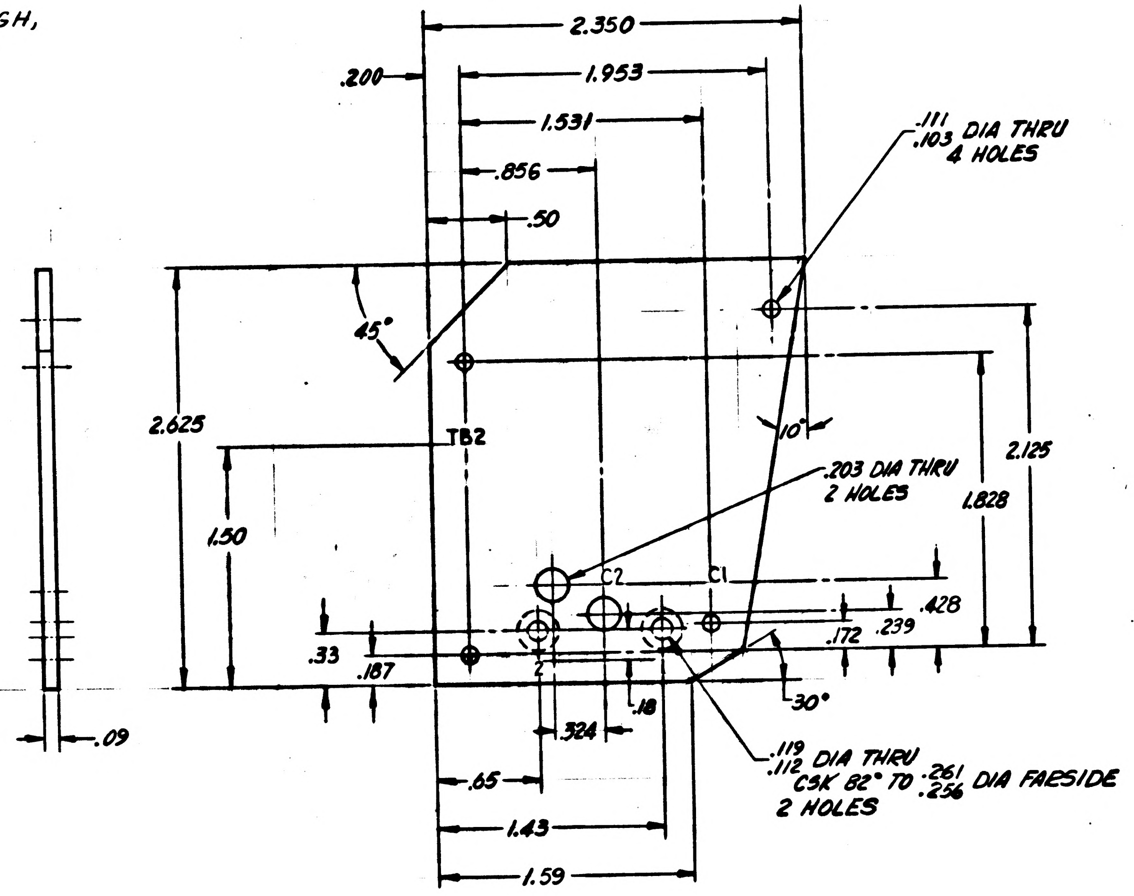
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

B 1014515 2

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE. TDRR 01948 7/10/63		3 JUL 63	R/G
B1	D-8	(B1) REVISE NOTE 5 TDRR 2635		21 AUG 63	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MUST BE FREE FROM BURRS AND SHARP CORNERS
3. IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).
4. GLASS CLOTH EPOXY RESIN, LAMINATED, PER MIL-P-18177, TYPE GEB (ES-2744 TYPE II).
5. MARK CHARACTERS PER ND1002019, .12 HIGH, COLOR BLACK.



2.350
1.953
1.531
.856
.50
.200
.111
.103 DIA THRU
4 HOLES
45°
2.625
TB2
10°
.203 DIA THRU
2 HOLES
2.125
1.828
1.50
C2
C1
.428
.239
.172
.33
.187
.18
30°
.324
.09
.119
.112 DIA THRU
CSK 82° TO .261
.256 DIA FARSIDE
2 HOLES
.65
1.43
1.59

MASTER

MASTER

1014514	1014558
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

2 PLACE DECIMALS	3 PLACE DECIMALS	ANGLES
+.02	+.005	+2°
-.02	-.005	-2°

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 4

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN Wunderlich DATE 21 Jun 63
CHECKED 25 Jun 63
APPROVAL E. Mertz 25 Jun 63
APPROVAL 25 Jun 63
NASA APPROVAL Jack Barnard
MIT APPROVAL 7/10/63

L. Erickson 25 JUN 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BOARD, TERMINAL

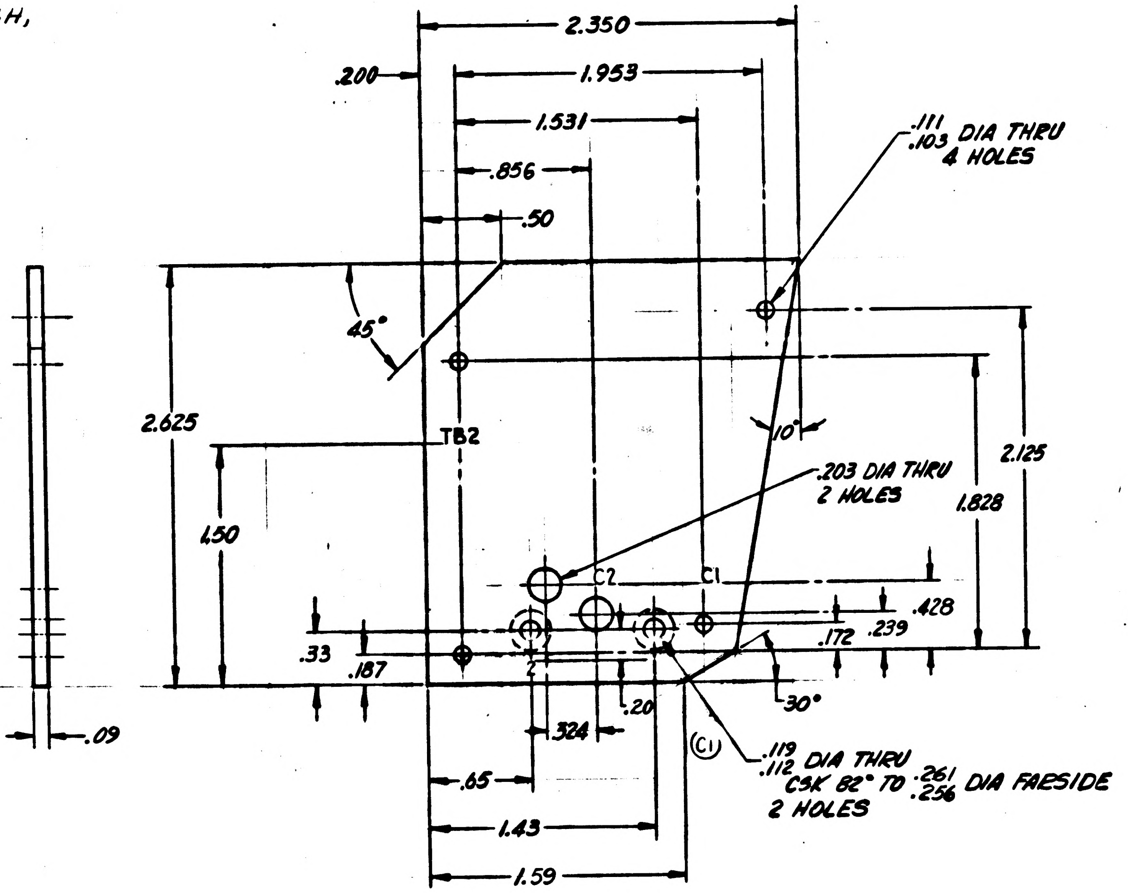
CODE IDENT NO.
SIZE D
1014515
SCALE 2:1
SHEET 1 OF 1

INCHES
0 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE. TDRR 01948 7/10/63		3 JUL 63	PJG
B	D-8	(B) REVISE NOTE 5 TDRR 2635		21 AUG 63	
C		REVISED PER TDRR NO. 04230.		25 OCT. 63	WK

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MUST BE FREE FROM BURRS AND SHARP CORNERS
3. IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).
4. GLASS CLOTH EPOXY RESIN, LAMINATED, PER MIL-P-18177, TYPE GEB (ES-2744 TYPE II).
5. MARK CHARACTERS PER ND1002019, .12 HIGH, COLOR BLACK.


2.350
1.953
.200
1.531
.856
.50
.111
.103 DIA THRU
4 HOLES
45°
2.625
TB2
10°
2.125
.203 DIA THRU
2 HOLES
1.828
1.50
C2
C1
.428
.33
.187
.172
.239
30°
.324
.20
.09
.119
.112 DIA THRU
CSK 82° TO .261
.256 DIA FARSIDE
2 HOLES
.65
1.43
1.59

1014514	1014558
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

2 PLACE DECIMALS	3 PLACE DECIMALS	ANGLES
+.02	+.005	+2°
-.02	-.005	-2°

DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 4
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Wunderlich DATE 21 Jun 63
CHECKED P. Rande 25 Jun 63
APPROVAL E. Mertz 25 Jun 63
APPROVAL 25 Jun 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

BOARD, TERMINAL

CODE IDENT NO. SIZE D 1014515
SCALE 2:1 SHEET 1 OF 1

N. Erickson 25 Jun 63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APPLICATION	
NEXT ASSY	USED ON
1014558	1014558

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A	UPGRADED FOR CLASS A RELEASE	25 JUL 63	WB
	TDRR 0249	8/1/63	WR

TOLERANCE CHART UNLESS OTERWISE SPECIFIED

DIMENSION OVER INCL	TOL-INCHES LG	STRIP WIRE
1 IN. TO 6 IN.	+.06 -.00	+.03 -.00

REV				
SHEET				
REV STATUS OF SHEETS REV	A	A	A	A
SHEET	1	2	3	4

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN 19 JUL 63 DATE
CHECKED C WILSON 23 JUL 63
APPROVAL E. Mertz 23 Jul 63
APPROVAL 28 Jul 63
NASA APPROVAL
MIT APPROVAL
CONTRACT NAS 9-497

WIRE LIST A-A
SEXTANT HAND CONTROLLER

CODE IDENT NO. SIZE A 1014521 REV A

SCALE NONE SHEET 1 OF 4

GBD WIRE LIST AA + 1014521

GENERAL NOTES

PENNANT NOTE	
	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
	Y OR N IN TINNED COLUMN INDICATES YES OR NO.
3	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
	SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 4 & 5.
	MARK CONDUCTOR IDENTIFICATION PER ND .(ES-2475-1)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014521

SCALE - NONE | REV LTR A + | SHEET 2 OF 4

MIL 2084 4-63

GBD WIRE LIST AA + 1014521

LIST OF MATERIALS

PENNANT NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014521-001	WIRE, ND1002105 ~~ND1002181,~~ TYPE 1, ~~CLASS 1,~~ 24AWG, WHT, 21.30 IN TOTAL LENGTH
3	2	4	1010490-052	INSULATION SLEEVING, ELEC
3	3	4	1010490-054	INSULATION SLEEVING, ELEC
	4	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY)
	5	AR	QQ-S-571	FLUX AR (ES-2175 TYPE 1 OR 2) OR MIL-14256 FLUX (ES-2798).

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014521

SCALE - NONE | REV LTR A + | SHEET 3 OF 4

MIL 2084 4-63

GBD WIRE LIST AA + 1014521

CONDUCTOR			FROM				TO			
INDIVIDUAL LENGTH NUMBER	ITEM NO.	2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TERMINATION SPEC. 1 ITEM NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TERMINATION SPEC 1 ITEM NO.
AA 1	1	350	S2-NO	30	Y	2	TB1- 7	30	Y	3
AA 2	1	300	S2-C	30	Y	2	TB1- 6	30	Y	3
AA 3	1	400	S1-NO	30	Y	2	TB1- 9	30	Y	3
AA 4	1	400	S1-C	30	Y	2	TB1- 5	30	Y	3
AA 5	1	500	TB1- 8	30	Y		TB2- 1	30	Y	
AA 6	1	470	TB1- 4	30	Y		TB2- 2	30	Y	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014521

SCALE - NONE | REV LTR A + | SHEET 4 OF 4

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

PENNANT NOTE — **GENERAL NOTES**

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

Y OR N IN TINNED COLUMN INDICATES YES OR NO.

3 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 4 & 5.

MARK CONDUCTOR IDENTIFICATION PER ND .(ES-2475-1)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014521
SCALE - NONE	REV LTR B +	SHEET 2 OF 4

MIL 2084 4-63

LIST OF MATERIALS

PENNANT NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014521-001	WIRE, ND1002105 ~~ND1002101,~~ TYPE 1, ~~CLASS 1,~~ 24AWG, WHT, 21.30 IN TOTAL LENGTH
3	2	4	1010490-052	INSULATION SLEEVING, ELEC
3	3	4	1010490-054	INSULATION SLEEVING, ELEC
	4	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY)
	5	AR	QQ-S-571	FLUX AR (ES-2175 TYPE 1 OR 2) OR MIL-14256 FLUX (ES-2798).

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014521
SCALE - NONE	REV LTR B +	SHEET 3 OF 4

MIL 2084 4-63

TOLERANCE CHART
UNLESS OTERWISE SPECIFIED

DIMENSION OVER INCL	TOL-INCHES LG	STRIP WIRE
1 IN. TO 6 IN.	+.06 -.00	+.03 -.00

APPLICATION NEXT ASSY	USED ON	REVISIONS SYM	DESCRIPTION	DATE	APPROVAL
1014558	1014558	A	UPGRADED FOR CLASS A RELEASE	25 JUL 63	WR
			TDRR 0249	8/1/63	WR
		B	REVISED PER TDRR NO.04075	25 OCT 63	WR

REV STATUS OF SHEETS				
REV	B	A	A	B
SHEET	1	2	3	4

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ACSP PN
DRAWN DATE 19 JUL 63
CHECKED C. WILSON 23 Jul 63
APPROVAL E. Mert 23 Jul 63
APPROVAL 23 Jul 63
NASA APPROVAL
MIT APPROVAL Aug 63
CONTRACT NAS 9-497

WIRE LIST A-A
SEXTANT HAND CONTROLLER

CODE IDENT NO. SIZE A 1014521 REV B
SCALE NONE SHEET 1 OF 4

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
AA 1	1	350	S2-NC	30	Y	2		TB1- 7	30	Y	3	
AA 2	1	300	S2-C	30	Y	2		TB1- 6	30	Y	3	
AA 3	1	400	S1-NC	30	Y	2		TB1- 9	30	Y	3	
AA 4	1	400	S1-C	30	Y	2		TB1- 5	30	Y	3	
AA 5	1	500	TB1- 8	30	Y			TB2- 1	30	Y		
AA 6	1	470	TB1- 4	30	Y			TB2- 2	30	Y		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014521
SCALE - NONE	REV LTR B +	SHEET 4 OF 4

MIL 2085 - 4-63 WIR

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014558	1014558	A	UPGRADED FOR CLASS A RELEASE TDRR 0249	25 JUL 63 8/7/63	WR WK
		B	REVISED PER TDRR NO.04075	25 OCT. 63	WK
		C_2	REVISED PER TDRR NO. 04407	7 NOV 63	WK

TOLERANCE CHART
UNLESS OTERWISE SPECIFIED

DIMENSION		TOL-INCHES	
OVER	INCL	LG	STRIP WIRE
1 IN.	TO 6 IN.	+.06 -.00	+.03 -.00

REV				
SHEET				
REV STATUS REV	C	C	C	B
OF SHEETS SHEET	1	2	3	4

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ACSP PN
DRAWN G. Murray DATE 19 JUL 63
CHECKED C. WILSON 23 JUL 63
APPROVAL E. Merk 23 JUL 63
APPROVAL 28 JUL 63
NASA APPROVAL
MIT APPROVAL
CONTRACT NAS 9-497

WIRE LIST A-A
SEXTANT HAND CONTROLLER

CODE IDENT NO.
SIZE A
1014521
REV C
SCALE NONE
SHEET 1 OF 4

GBD WIRE LIST AA + 1014521

PENNANT NOTE GENERAL NOTES

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

Y OR N IN TINNED COLUMN INDICATES YES OR NO.

3 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 4 & 5.

MARK CONDUCTOR IDENTIFICATION PER ND 1002019 .(ES-2475-1)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014521
SCALE - NONE REV LTR C +
SHEET 2 OF 4

MIL 2084 4-63

GBD WIRE LIST AA + 1014521

LIST OF MATERIALS

PENNANT NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014521-001	WIRE, ~~ND1002181,~~ ND1002105 TYPE 1, ~~CLASS 1,~~ 24AWG, WHT, 21.30 IN TOTAL LENGTH
3	2	4	1010490-052	INSULATION SLEEVING, ELEC
3	3	4	1010490-054	INSULATION SLEEVING, ELEC
	4	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY)
	5	AR	QQ-S-571	FLUX AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798).

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014521
SCALE - NONE REV LTR C +
SHEET 3 OF 4

MIL 2084 4-63

GBD WIRE LIST AA + 1014521

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
AA 1	1	350	S2-NO	30	Y	2		TB1- 7	30	Y	3	
AA 2	1	300	S2-C	30	Y	2		TB1- 6	30	Y	3	
AA 3	1	400	S1-NO	30	Y	2		TB1- 9	30	Y	3	
AA 4	1	400	S1-C	30	Y	2		TB1- 5	30	Y	3	
AA 5	1	500	TB1- 8	30	Y			TB2- 1	30	Y		
AA 6	1	470	TB1- 4	30	Y			TB2- 2	30	Y		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014521
SCALE - NONE REV LTR B +
SHEET 4 OF 4

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GBD WIRE LIST AA + 1014521

PENNANT NOTE	GENERAL NOTES
	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
	Y OR N IN TINNED COLUMN INDICATES YES OR NO.
3	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.
4	SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 4 & 5, EXCEPT AS DESCRIBED IN NOTE 6.
5	MARK CONDUCTOR IDENTIFICATION PER ND 1002019 .(ES-2475-1)
6	THE FOLLOWING TERMINATION POINTS TO BE SOLDERED PER MIL-S-6872 (ES-2505-1) USING ITEMS 5 & 6: TB 1-7, TB 1-6, TB 1-9, & TB 1-5.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014521	
SCALE - NONE	REV LTR D +		SHEET 2 OF 4

MIL 2084 4-63

GBD WIRE LIST AA + 1014521

PENNANT

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014521-001	WIRE, ND1002105 ~~ND1002181,~~ TYPE 1, ~~CLASS 1,~~ 24AWG, WHT, 21.30 IN TOTAL LENGTH
3	2	4	1010490-052	INSULATION SLEEVING, ELEC
3	3	4	1010490-054	INSULATION SLEEVING, ELEC
	4	AR	QQ-S-571, SN60	SOLDER SN60 (ES-2175 ALLOY).
	5	AR	QQ-S-571, AR	FLUX AR (ES-2175 TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798).
	6	AR	QQ-S-571, SN10	SOLDER.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014521	
SCALE - NONE	REV LTR D +		SHEET 3 OF 4

MIL 2084 4-63

APPLICATION	
NEXT ASSY	USED ON
1014558	1014558

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A	UPGRADED FOR CLASS A RELEASE	25 JUL 63	WR
	TDRR 0249	8/7/63	WR
B	REVISED PER TDRR NO.04075	25 OCT. 63	WR
C2	REVISED PER TDRR NO. 04407	7 NOV 63	WR
D6	REVISED PER TDRR NO. 04839	10 DEC. 63	JM

TOLERANCE CHART
UNLESS OTERWISE SPECIFIED

DIMENSION	TOL-INCHES	
OVER INCL	LG	STRIP WIRE
1 IN. TO 6 IN.	+.06 -.00	+.03 -.00

REV					
SHEET					
REV STATUS	REV	D	D	D	D
OF SHEETS	SHEET	1	2	3	4

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN G. Murray DATE 19 JUL 63

CHECKED C. WILSON 23 JUL 63

APPROVAL E. Mert 23 Jul 63

APPROVAL 23 Jul 63

NASA APPROVAL 8/7/63 9/7/63

MIT APPROVAL Jan 63

CONTRACT NAS 9-497

WIRE LIST A-A
SEXTANT HAND CONTROLLER

CODE IDENT NO.	SIZE A	1014521	REV D
SCALE NONE			SHEET 1 OF 4

GBD WIRE LIST AA + 1014521

CONDUCTOR INDIVIDUAL LENGTH NUMBER	ITEM NO.	2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT 2	2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT 2	2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.	
AA 1	1	350	S2-NC	30	Y	2		TB1- 7	30	Y	3		SEE NOTE 6
AA 2	1	300	S2-C	30	Y	2		TB1- 6	30	Y	3		SEE NOTE 6
AA 3	1	400	S1-NC	30	Y	2		TB1- 9	30	Y	3		SEE NOTE 6
AA 4	1	400	S1-C	30	Y	2		TB1- 5	30	Y	3		SEE NOTE 6
AA 5	1	500	TB1- 8	30	Y			TB2- 1	30	Y			
AA 6	1	470	TB1- 4	30	Y			TB2- 2	30	Y			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014521	
SCALE - NONE	REV LTR D +		SHEET 4 OF 4

MIL 2085 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1014522 A

REVISIONS 02132

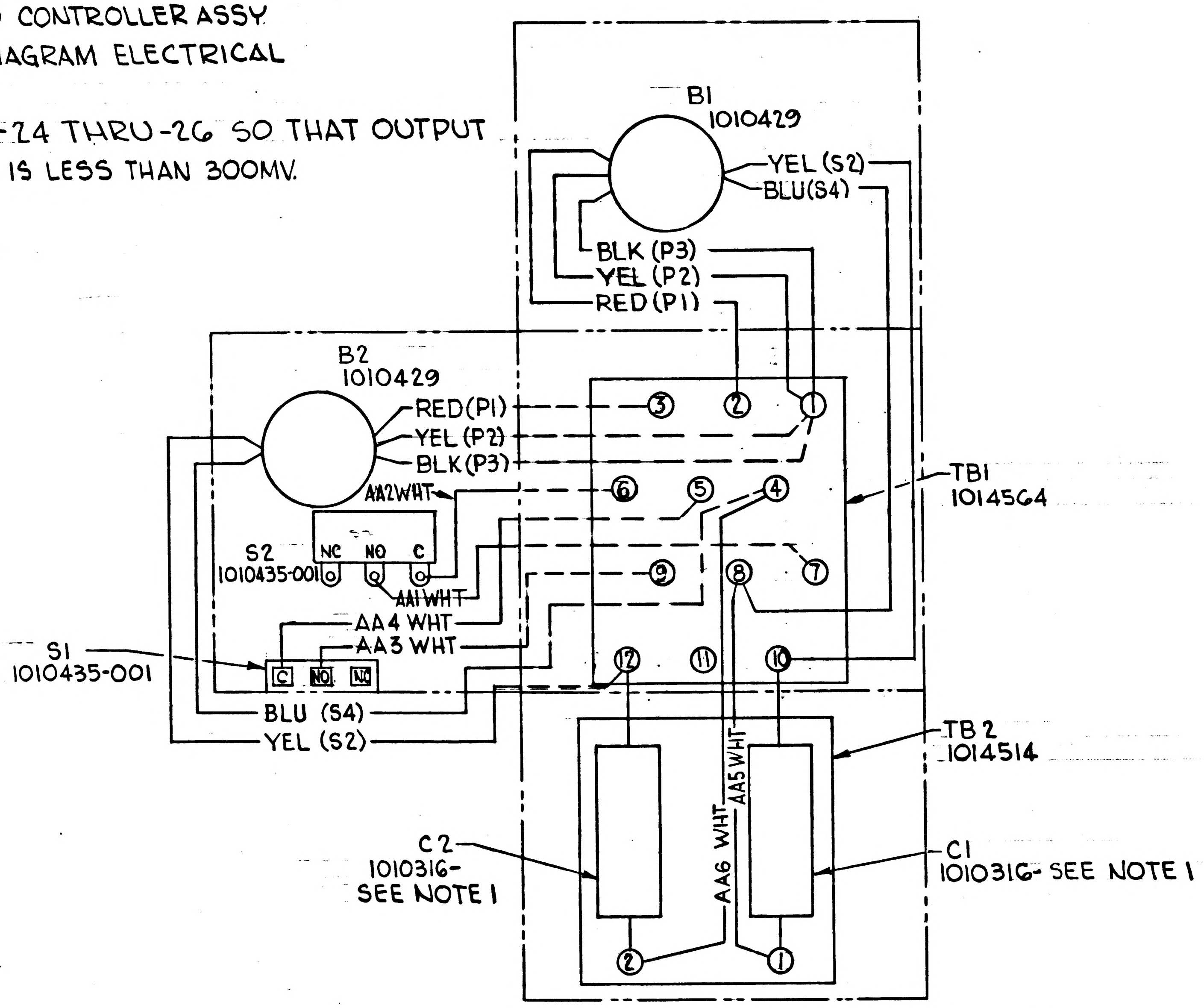
SYM	DESCRIPTION	DATE	APPROVAL
A	UPGRADED FOR CLASS A RELEASE 02132	8 JULY 63	RL WR

ALL PART NUMBERS ARE FOR REFERENCE ONLY.

DRAWINGS FOR REFERENCE
1014558 SEXTANT HAND CONTROLLER ASSY
1014540 SCHEMATIC DIAGRAM ELECTRICAL

NOTES:

1. SELECT FROM 1010316-24 THRU-26 SO THAT OUTPUT QUADRATURE VOLTAGE IS LESS THAN 300MV.


B1
1010429
YEL (S2)
BLU(S4)
BLK (P3)
YEL (P2)
RED (P1)
B2
1010429
RED(P1)
YEL (P2)
BLK(P3)
AA2WHT
S2
1010435-001
NC
NO
C
AA1 WHT
AA4 WHT
AA3 WHT
S1
1010435-001
C
NO
NC
BLU (S4)
YEL (S2)
3
2
1
6
5
4
9
8
7
12
11
10
TB1
1014564
TB2
1014514
AA5 WHT
AA6 WHT
C2
1010316-
SEE NOTE 1
C1
1010316- SEE NOTE 1
2
1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1014558	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT

DRAWN R. LeDuc DATE 14 JUNE 63
CHECKED F J Boehme 7-22-63
APPROVAL J. J. Kern 7/22/63
APPROVAL
NASA APPROVAL 7/24/63
MIT APPROVAL W Kupfer 24 July 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING DIAGRAM-
SEXTANT HAND CONTROLLER

CODE IDENT NO. SIZE C NASA DRAWING NO. 1014522
SCALE # WT SHEET OF

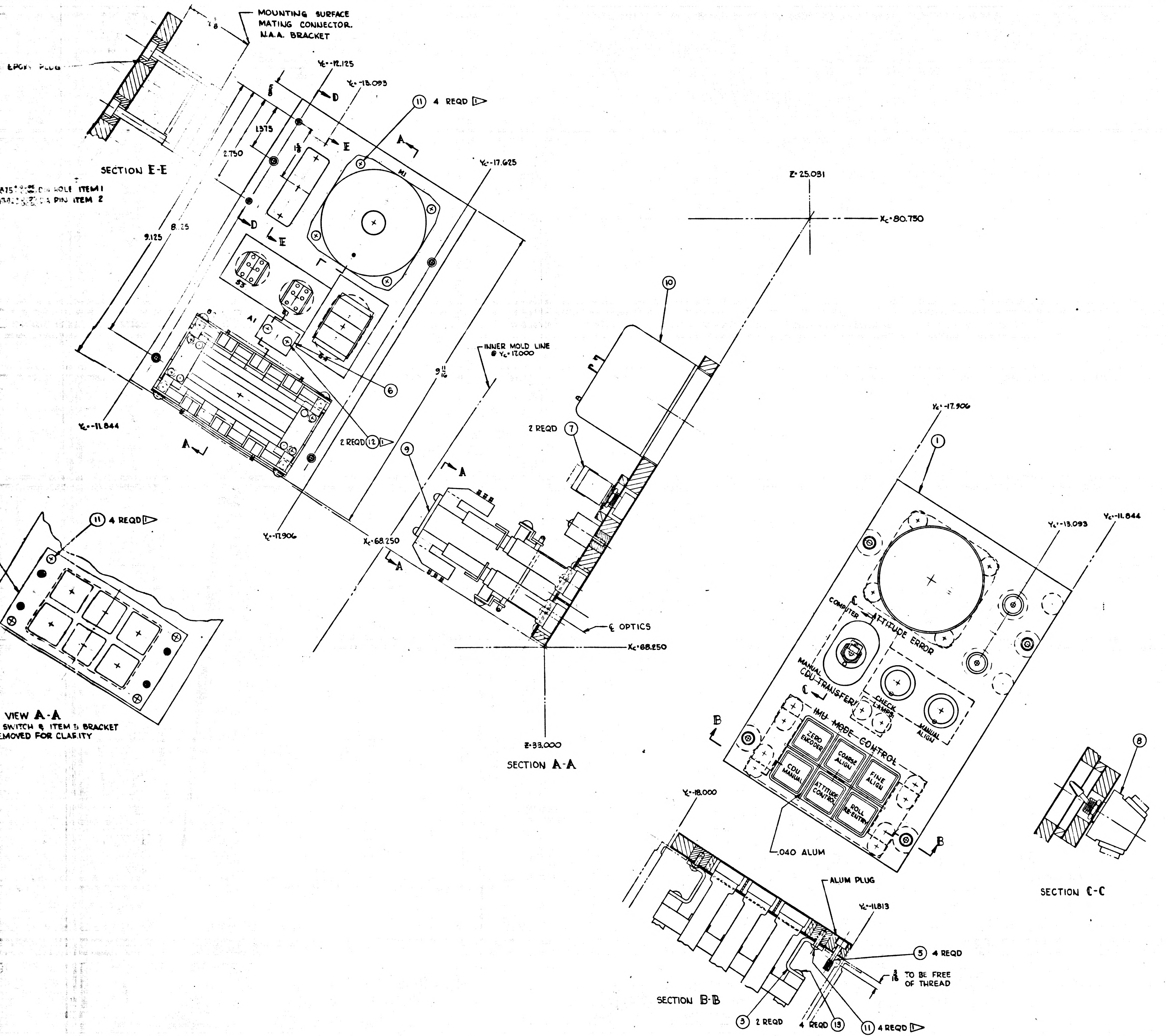
1014522

MASTER

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014526 A

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED & REDRAWN	4 FEB 63	



MOUNTING SURFACE MATING CONNECTOR. N.A.A. BRACKET
EPOXY PLUG
SECTION E-E
Y_c -12.125
Y_c -13.093
Y_c -17.625
Y_c -11.844
Y_c -17.906
X_c 68.250
X_c 80.750
Z 25.031
Z 33.000
1.375
2.750
8.25
9.125
$9\frac{11}{16}$
(11) 4 REQD
(10)
(6)
(12) 2 REQD
(9)
(7) 2 REQD
INNER MOLD LINE @ Y_c 17.000
℄ OPTICS
SECTION A-A
VIEW A-A
SWITCH & ITEM 3 BRACKET REMOVED FOR CLARITY
Y_c -17.906
Y_c -13.093
Y_c -11.844
(1)
COMPUTER
ATTITUDE ERROR
MANUAL
CDU TRANSFER
CHECK LAMPS
MANUAL ALIGN
IMU MODE CONTROL
ZERO ENCODER
COARSE ALIGN
FINE ALIGN
CDU MANUAL
ATTITUDE CONTROL
ROLL RE-ENTRY
.040 ALUM
(8)
SECTION C-C
Y_c -18.000
ALUM PLUG
Y_c -11.813
(5) 4 REQD
$\frac{3}{16}$ TO BE FREE OF THREAD
SECTION B-B
(3) 2 REQD
4 REQD (13)
(11) 4 REQD

1▷ HELI-COIL INSERT, 6-32 THD, INSTALLED IN 9/16 DIA EPOXY PLUG.

2▷ MATERIAL: HONEYCOMB, 1/4 CELL SIZE, .004 FOIL GAUGE (ALUM) 7.9 DENSITY CORE, .032 SKIN GAUGE. (ALUM)

3▷ MATERIAL: QQ-S-763 CL 303 OR 303 SE COND A CF SST
FINISH: MIL-F-14072 (SIG C) FIN E300 PASSIVATE

BAND EDGES OF ITEM 1 USING HCA EPOXY PUTTY

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00322 DATE 6 FEB 1963

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
4		SCREW, BUTTON HD (8-32 × 1/2 LG)	13
2		SCREW, BUTTON HD (6-32 × 1 LG)	12
12	1000093-26	SCREW, BUTTON HD (6-32 × 5/8 LG)	11
1		INDICATOR WESTON INSTRUMENTS MODEL 1885	10
1		SWITCH THE CAPITAL MACHINE CO PART NO. 12D-5220-675	9
2		SWITCH	8
2		SWITCH	7
1		DIODE MODULE	6
4		SCREW-CAPTIVE 3▷	5
1		PLATE-SWITCH MATL: QQ-A-362 TEMPER T3 FIN MIL-C-5541	4
2		BRACKET-SWITCH MATL: QQ-A-318 TEMPER [illegible] FIN MIL-C-5541	3
2		PIN-PANEL 3▷	2
1		PANEL 2▷	1

LIST OF MATERIALS

MASTER

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL SEE LIST OF MATL
HEAT TREATMENT
FINAL FINISH SEE LIST OF MATL

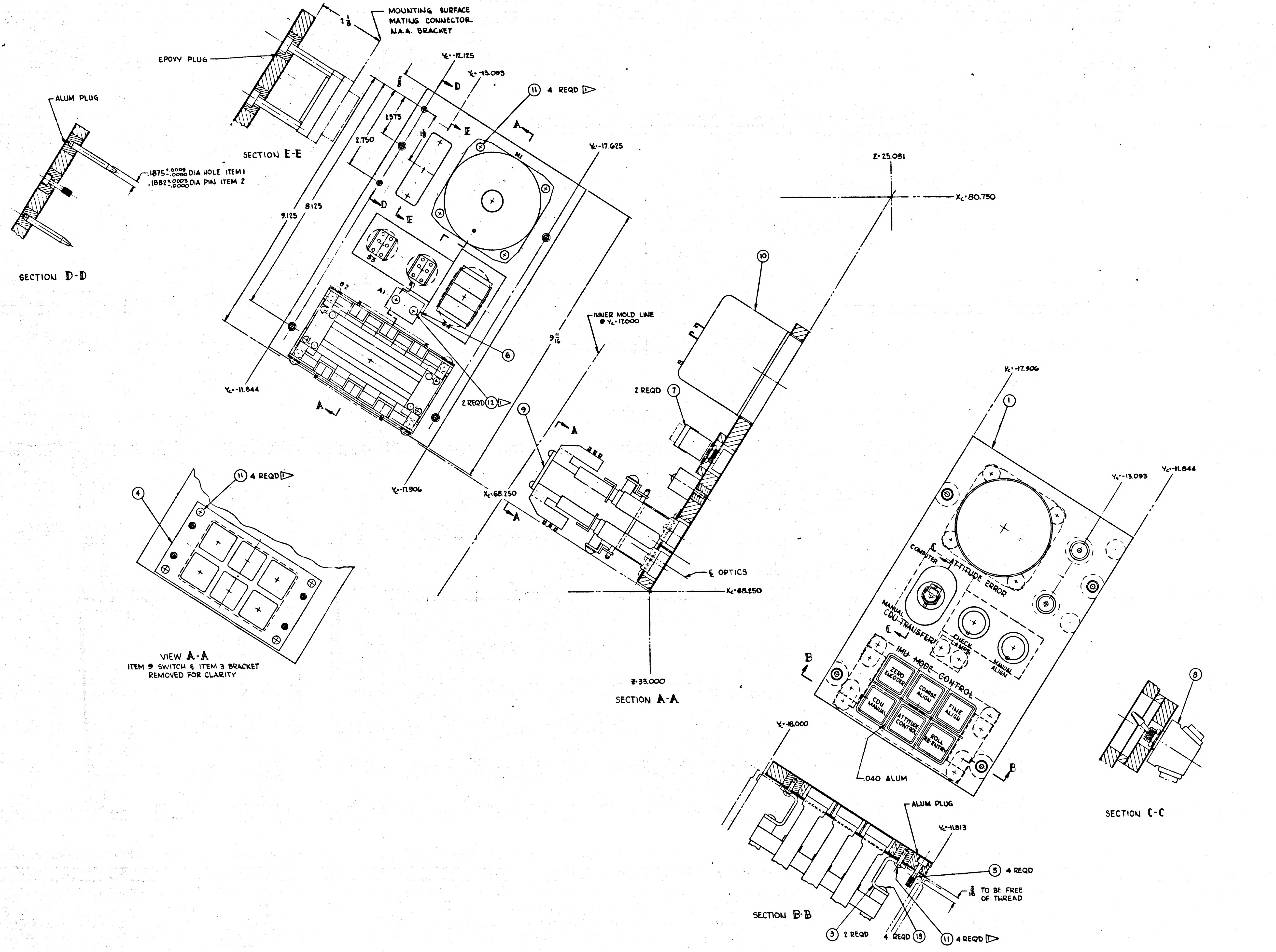
MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG. NO. CONTRACT
DRAWN R. LaDue DATE 15 Jan 63
CHECKED
APPROVAL H. WHEELER
APPROVAL
NASA APPROVAL 4/4/63
MIT APPROVAL 4/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

IMU CONTROL PANEL ASSEMBLY

CODE IDENT NO | SIZE | NASA DRAWING NO 1014526
SCALE 1/1 | WT | SHEET OF

1014526 A



SECTION D-D
ALUM PLUG
.1875 +.0005 / -.0000 DIA HOLE ITEM 1
.1882 +.0005 / -.0000 DIA PIN ITEM 2
SECTION E-E
EPOXY PLUG
2 1/8
MOUNTING SURFACE
MATING CONNECTOR
N.A.A. BRACKET
Yc-12.125
Yc-13.093
D
E
1.375
1 1/2
2.750
8.125
9.125
⑪ 4 REQD
M1
A1
B3
B2
⑥
2 REQD ⑫
A
Yc-11.844
Yc-17.625
Yc-17.906
Xc-68.250
9 11/16
INNER MOLD LINE
@ Yc-17.000
④
⑪ 4 REQD
VIEW A-A
ITEM 9 SWITCH & ITEM 3 BRACKET
REMOVED FOR CLARITY
Z-25.051
Xc-80.750
⑩
2 REQD ⑦
⑨
℄ OPTICS
Xc-68.250
Z-33.000
SECTION A-A
Yc-17.906
①
Yc-13.093
Yc-11.844
COMPUTER
ATTITUDE ERROR
MANUAL
CDU TRANSFER
CHECK LAMPS
MANUAL ALIGN
IMU MODE CONTROL
ZERO ENCODER
COARSE ALIGN
FINE ALIGN
CDU MANUAL
ATTITUDE CONTROL
ROLL RE-ENTRY
C
B
.040 ALUM
⑧
SECTION C-C
Yc-18.000
ALUM PLUG
Yc-11.813
⑤ 4 REQD
3/16 TO BE FREE OF THREAD
SECTION B-B
③ 2 REQD
4 REQD ⑬
⑪ 4 REQD

HE... INSERT, 6-32 THD, INSTALLED ... EPOXY PLUG.

...IAL: HONEYCOMB, 1/4 CELL SIZE, .004 FOIL GAUGE (AL
7.9 DENSITY CORE, .032 SKIN GAUGE. (ALUM)

3 MATERIAL: QQ-S-763 CL 303 OR 303 SE COND A CF SST
FINISH: MIL-F-14072 (SIG C) FIN E300 PASSIVATE

BAND EDGES OF ITEM 1 USING HCA EPOXY PUTTY

4
2
12
1
1
2
2
1
4
1
2
2
1
QTY REQD

MASTER

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ±.005 ANGLES ± DO NOT SCALE THIS DRAWING
		MATERIAL SEE LIST OF MATL
		HEAT TREATMENT
NEXT ASSY	USED ON	FINAL FINISH SEE LIST OF MATL
APPLICATION		

DRAWN
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL

Class A Release
TDRR 05595

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
2/25/64	A	06251	3 and 4	WR.	WJR

This specification consists of page i to iii and 1 to 7 inclusive.

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the IMU Control Panel Assembly for use in APOLLO G&N equipment.

W Kupfer 3 Jan 64
MIT/IL DATE

W. S. Swingle 1/3/64
NASA/MSC APPROVAL DATE

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 This specification establishes the requirements for the procurement of the IMU Control Panel Assembly, Drawing 1014526, hereafter called the panel.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014526	Final Test Method for IMU Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

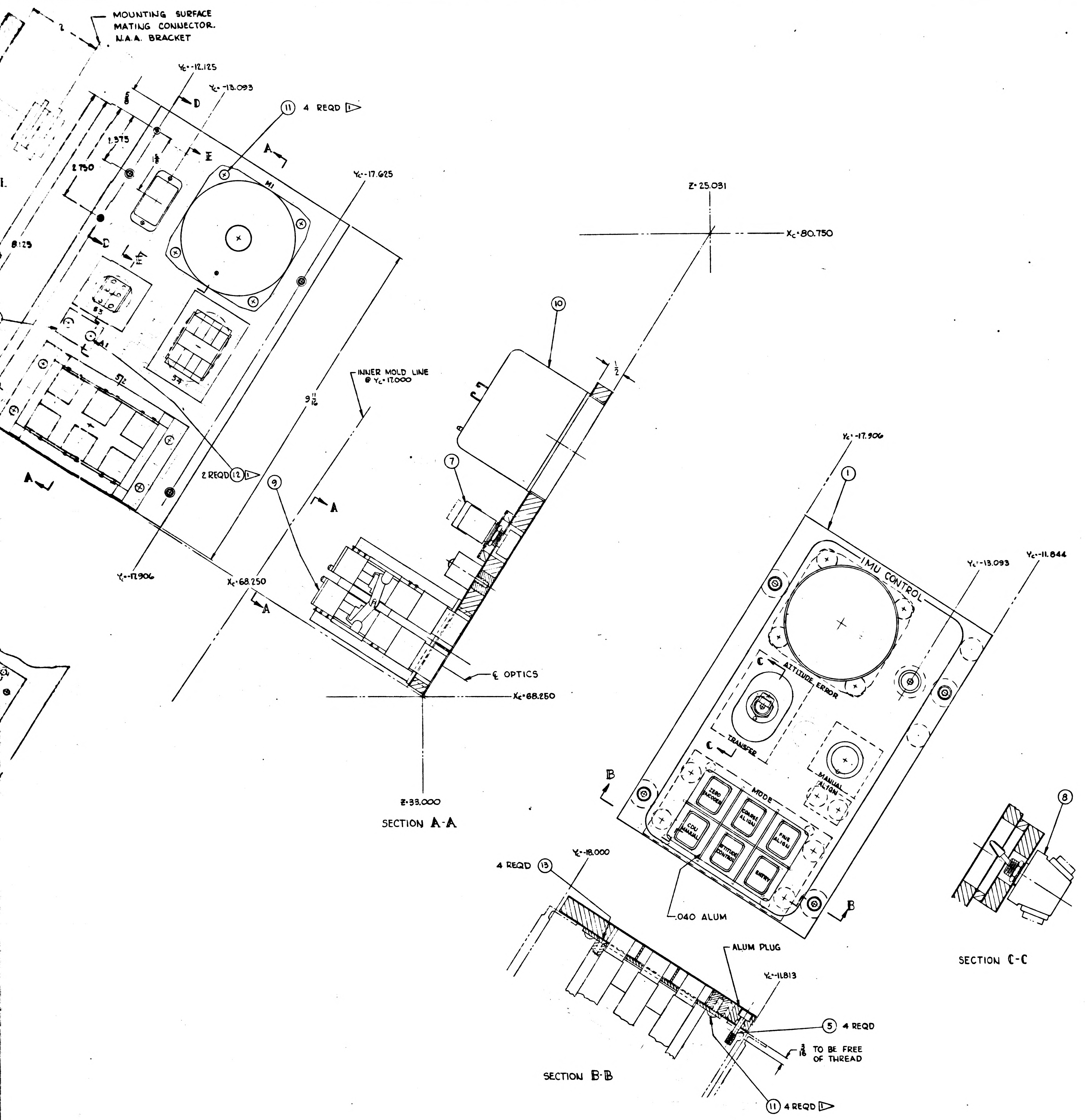
DRAWINGS

APOLLO G&N

1014524	IMU Control Panel Schematic Diagram (For Reference Only)
1014526	IMU Control Panel Assembly

1014526 B

SYM	DESCRIPTION	DATE	APPROVAL
REVISIONS			
A_1	REVISED & REDRAWN	4 FEB 63	
B_2	(B1) REVISED P/N ITEM 9 (B2) REMD ITEM 3 (2 REQD) & ITEM 11 4 REQD & ITEM 7 1 REQD TDR R00369	12 FEB 63	WK.


MOUNTING SURFACE
MATING CONNECTOR.
N.A.A. BRACKET
Y_c -12.125
Y_c -13.093
D
11 4 REQD 1
1.375
2.750
E
A
M1
Y_c -17.625
Z 25.031
X_c 80.750
8.125
10
1/2
INNER MOLD LINE @ Y_c 17.000
9 11/16
2 REQD 12 1
9
7
A
Y_c -17.906
X_c 68.250
℄ OPTICS
X_c 68.250
Z 33.000
SECTION A-A
Y_c -17.906
1
IMU CONTROL
Y_c -13.093
Y_c -11.844
ATTITUDE ERROR
TRANSFER
C
MANUAL ALIGN
MODE
ZERO ENCODER
COARSE ALIGN
FINE ALIGN
CDU MANUAL
ATTITUDE CONTROL
SAFETY
B
.040 ALUM
8
SECTION C-C
4 REQD 13
Y_c -18.000
ALUM PLUG
Y_c -11.813
5 4 REQD
3/16 TO BE FREE OF THREAD
11 4 REQD 1
SECTION B-B

1 HELI-COIL INSERT, 6-32 THD, INSTALLED IN 9/16 DIA EPOXY PLUG.

2 MATERIAL: HONEYCOMB, 1/4 CELL SIZE, .004 FOIL GAUGE (ALUM) 7.9 DENSITY CORE, .032 SKIN GAUGE. (ALUM)

3 MATERIAL: QQ-S-763 CL 303 OR 303 SE COND A CF SST
FINISH: MIL-F-14072 (SIG C) FIN E300 PASSIVATE

BAND EDGES OF ITEM 1 USING HCA EPOXY PUTTY

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00322 DATE 6 FEB 1963

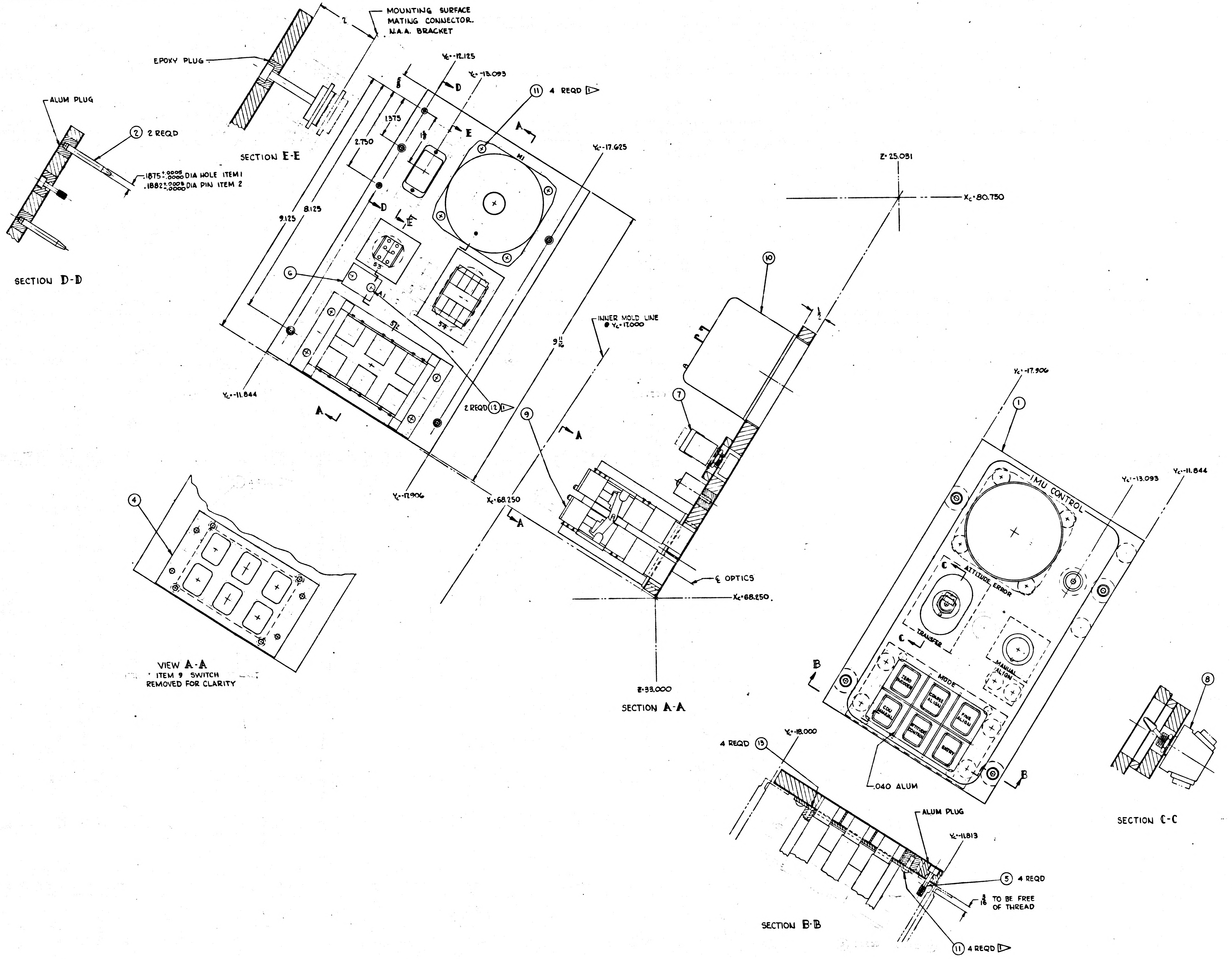
QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
4		SCREW, FL HD (ACSP #7925729-193)	13
2		SCREW, BUTTON HD (6-32 × 1 LG)	12
8	1000093-26	SCREW, BUTTON HD (6-32 × 3/8 LG)	11
1		INDICATOR WESTON INSTRUMENTS MODEL 1885 PL BOS 1212NE1	10
1		SWITCH ILLUMINATED CONTROLS INC DWG P91278	9
1		SWITCH	8
1		SWITCH	7
1		DIODE MODULE	6
4		SCREW-CAPTIVE 3	5
1		PLATE-SWITCH MATL: QQ-A-362 TEMPER T3 FIN: MIL-C-5541	4
			3
2		PIN-PANEL 3	2
1		PANEL 2	1

LIST OF MATERIALS

MASTER

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± DO NOT SCALE THIS DRAWING	M I T INSTRUMENTATION LAB CAMBRIDGE MASS DWG ON CONTRACT	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
APPLICATION		MATERIAL SEE LIST OF MATL	DRAWN R. LaDue DATE 15 Jan 63 CHECKED APPROVAL H. WHEELER APPROVAL	IMU CONTROL PANEL ASSEMBLY
		HEAT TREATMENT	NASA APPROVAL 4/4/63	CODE IDENT NO / SIZE J / NASA DRAWING NO. 1014526
		FINAL FINISH SEE LIST OF MATL	MIT APPROVAL	SCALE 1/1 / WT / SHEET OF

1014526 B


MOUNTING SURFACE
MATING CONNECTOR.
N.A.A. BRACKET
EPOXY PLUG
ALUM PLUG
② 2 REQD
.1875 +.0005 -.0000 DIA HOLE ITEM 1
.1882 +.0003 -.0000 DIA PIN ITEM 2
SECTION D-D
SECTION E-E
Yc=-12.125
Yc=-13.093
⑪ 4 REQD 1
D
E
A
1.375
2.750
8.125
9.125
5 1/2
9 11/16
⑥
2 REQD ⑫ 1
⑨
⑩
⑦
Yc=-17.625
Yc=-11.844
Yc=-17.906
Xc=68.250
Z=25.031
Xc=80.750
INNER MOLD LINE
@ Yc=12.000
℄ OPTICS
Xc=68.250
Z=33.000
SECTION A-A
④
VIEW A-A
ITEM 9 SWITCH
REMOVED FOR CLARITY
Yc=-17.906
①
IMU CONTROL
Yc=-13.093
Yc=-11.844
ATTITUDE ERROR
TRANSFER
C
MANUAL ALIGN
MODE
ZERO ENCODER
COARSE ALIGN
FINE ALIGN
CDU MANUAL
ATTITUDE CONTROL
ENTRY
B
.040 ALUM
⑧
SECTION C-C
4 REQD ⑬
Yc=-18.000
ALUM PLUG
Yc=-11.813
⑤ 4 REQD
3/16 TO BE FREE OF THREAD
SECTION B-B
⑪ 4 REQD 1

1▷ HELI-COIL INSERT, 6-32 THD, INSTALLED
IN 9/16 DIA EPOXY PLUG.

2▷ MATERIAL: HONEYCOMB, 1/4 CELL SIZE . .004 FO
7.9 DENSITY CORE, .032 SKIN GAUGE. (ALU

3▷ MATERIAL: QQ-S-763 CL 303 OR 303 SE COND A
FINISH: MIL-F-14072 (SIG C) FIN E300 . PASSIVAT

BAND EDGES OF ITEM 1 USING HCA EPO

MASTER

NEXT ASSY	USED ON
APPLICATION	

UNLESS [illegible]
DIMENSIONS ARE [illegible]
TOLERANCES ON
FRACTIONS [illegible]
DO NOT SCALE [illegible]
MATERIAL

1014526 | B

APOLLO G&N Specification
PS-1014526B
3 January 1964
Class A Release
TDRR 05595

PROCUREMENT SPECIFICATION
FOR
IMU CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
2/25/64	A	06251	3 and 4	WR.	WAR
3/24/64	B	06815	5	WR	WR

This specification consists of page i to iii and 1 to 7 inclusive.

Apollo G&N Specification
PS-1014526
3 January 1964

PROCUREMENT SPECIFICATION
FOR
IMU CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the IMU Control Panel Assembly for use in APOLLO G&N equipment.

W Kupfer 3 Jan 64
MIT/IL DATE

W. S. Swingle 1/3/64
NASA/MSC APPROVAL DATE

APOLLO G&N Specification
PS-1014526
3 January 1964

PROCUREMENT SPECIFICATION
FOR
IMU CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 This specification establishes the requirements for the procurement of the IMU Control Panel Assembly, Drawing 1014526, hereafter called the panel.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014526	Final Test Method for IMU Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014524	IMU Control Panel Schematic Diagram (For Reference Only)
1014526	IMU Control Panel Assembly

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014526 C

SYM	DESCRIPTION	DATE	APPROVAL
A1	REVISED & REDRAWN	4 FEB 63	H Wheeler
B2	(B1) REVISED P/N ITEM 9 (B2) REMD ITEM 3 (2 REQD) & ITEM 11 4 REQD, & ITEM 7 1 REQD TDRR 00369	12 FEB 63	WK.
C6	(C1) REVISED NOTES (C2) RELOCATED IT 7, 8, 9 (C3) REMD IT 6, 12 (C4) ADDED IT 14 15, 16, 17 (C5) REVISED IT 2 (C6) REVISED DIMENSIONS TDRR 00584	5 MAR 63 3-13-63	WK.

1▷ ITEM 16 (REF) INSERT INSTALLED IN 9/16 DIA ALUM PLUG. 2024-T4

2▷ MATERIAL: HONEYCOMB, 3/16 CELL SIZE, .002 FOIL GAUGE, 3003-H19 ALUM 5.7 DENSITY CORE, .020 SKIN GAUGE, UNLESS OTHERWISE SPECIFIED, 2024-T3 ALUM

3▷ MATERIAL: QQ-S-763 CL 303 OR 303 SE COND A CF SST
FINISH: MIL-F-14072 (SIG C) FIN E300 PASSIVATE

4▷ FINISH: CHEMICAL FILM PER MIL-C-5541
APPLY COATS OF SEMI-GLOSS ENAMEL PER FED SPEC TT-E-529, CLASS A, MEDIUM GRAY, COLOR NO. 26231 OF FED-STD-595.

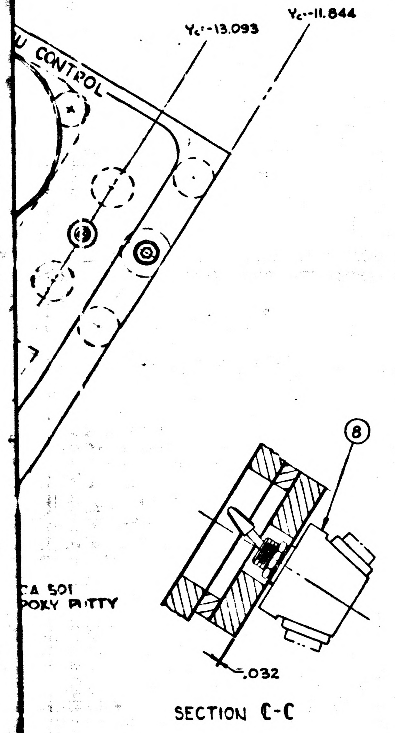
BAND EDGES OF ITEM 1 USING HCA 501 EPOXY PUTTY

BOND PER MIL-A-25463, TYPE II, CLASS 2

CHARACTERS & BORDER LINE TO BE SILK-SCREENED USING PER FED SPEC CLASS , WHITE, COLOR NO. 37875 OF FED-STD-595. (NO CLEAR FLAT OVERCOAT). CHARACTERS TO BE FUTURA DEMI-BOLD BORDER LINE TO BE 1/16 WIDE.

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00322 DATE 6 FEB 1963



SECTION C-C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1		CONNECTOR HUGHES ELECTRONTICS P/N WS5010BPDN001	17
8	1000140	INSERT, THREADED, SELF LOCKING	16
2	MS16633-4009	RING - RETAINING	15
2		PIN - CONNECTOR 3▷	14
4		SCREW, FL HD (ACSP #7925729-193)	13
			12
8	1006723-22	SCREW, BUTTON HD (6-32 × 3/8 LG)	11
1		INDICATOR WESTON INSTRUMENTS MODEL 1885 P/N BOS1212NE1	10
1		SWITCH ILLUMINATED CONTROLS INC DWG P91278	9
1		SWITCH	8
1		SWITCH	7
			6
4		SCREW - CAPTIVE 3▷	5
1		PLATE - SWITCH MATL: QQ-A-362 TEMPER T3 FIN: MIL-C-5541	4
			3
2		PIN - PANEL 3▷ 4▷	2
1		PANEL 2▷	1

LIST OF MATERIALS

MASTER

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ±.005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL SEE LIST OF MATL
HEAT TREATMENT
FINAL FINISH SEE LIST OF MATL

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG. NO. CONTRACT
DRAWN R LaDue DATE 15 Jan 63
CHECKED
APPROVAL H WHEELER
APPROVAL
NASA APPROVAL 4/4/63
MIT APPROVAL 4/4/63

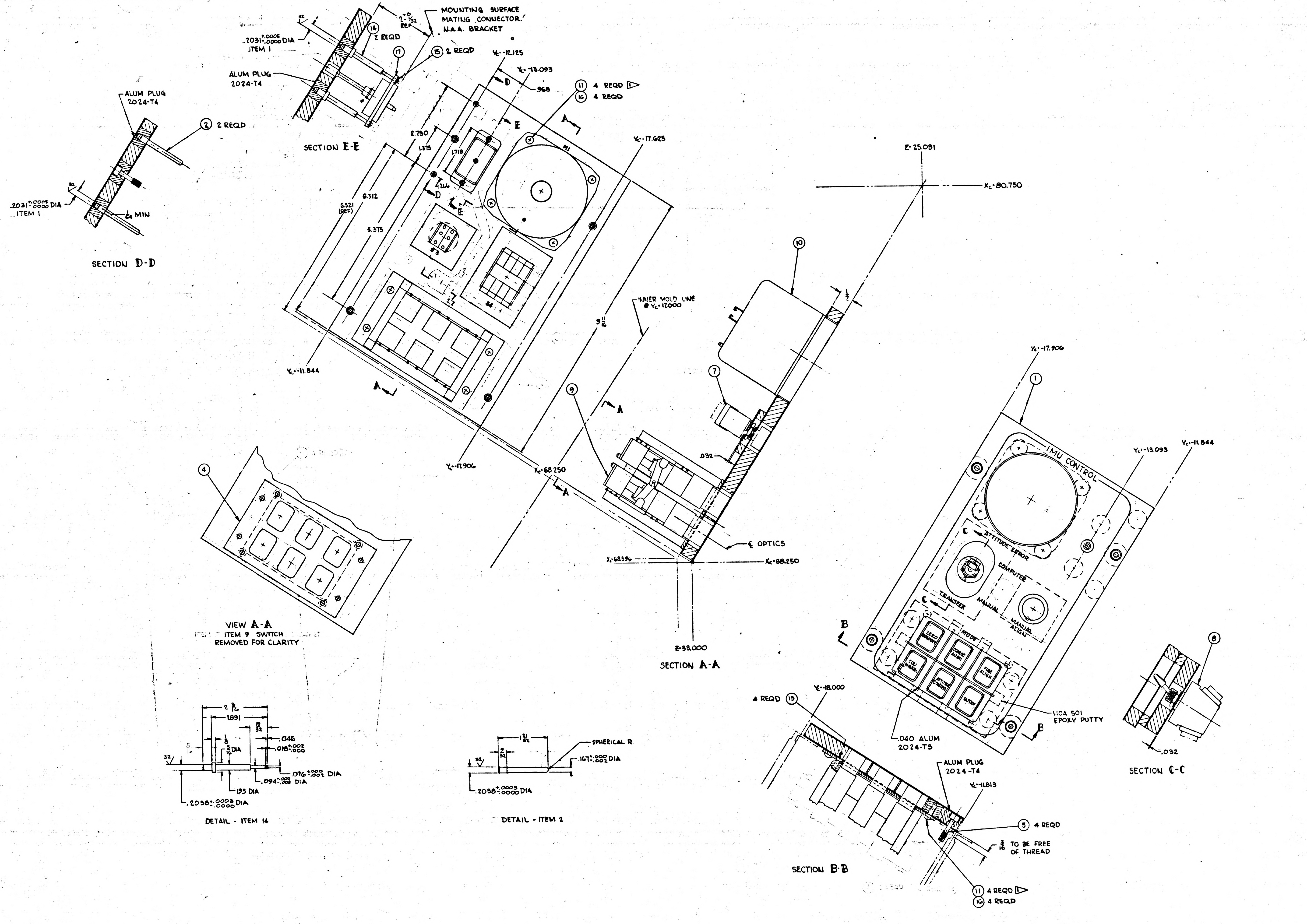
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

IMU CONTROL PANEL ASSEMBLY

CODE IDENT NO.
SIZE J
NASA DRAWING NO 1014526
SCALE 1/1
WT
SHEET OF

1014526 C

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY


MOUNTING SURFACE MATING CONNECTOR/ N.A.A. BRACKET
2-D 2-1/32 REF
.2031 +.0005 -.0000 DIA ITEM 1
(14) 2 REQD
(17)
(15) 2 REQD
ALUM PLUG 2024-T4
SECTION E-E
ALUM PLUG 2024-T4
(2) 2 REQD
.2031 +.0005 -.0000 DIA ITEM 1
1/64 MIN
SECTION D-D
Yc=-12.125
Yc=-13.093
.968
(11) 4 REQD 1
(16) 4 REQD
Yc=-17.625
2.750
1.375
1.718
6.312
6.521 (REF)
6.375
2.266
D
E
A
Yc=-11.844
Yc=-17.906
Xc=68.250
9 11/16
INNER MOLD LINE @ Yc=17.000
(10)
1/2
(7)
(9)
.032
Z=25.031
Xc=80.750
℄ OPTICS
Xc=68.396
Xc=68.250
Z=33.000
SECTION A-A
(4)
VIEW A-A
ITEM 9 SWITCH REMOVED FOR CLARITY
2 9/16
1.891
19/32
.046
1/8
3/16 DIA
.018 +.002 -.000
.076 +.000 -.002 DIA
.094 +.000 -.002 DIA
.193 DIA
.2038 +.0003 -.0000 DIA
DETAIL - ITEM 14
1 31/32
9/32
SPHERICAL R
.167 +.000 -.002 DIA
.2038 +.0003 -.0000 DIA
DETAIL - ITEM 2
Yc=-17.906
(1)
IMU CONTROL
ATTITUDE ERROR
COMPUTER
TRANSFER
MANUAL
MANUAL ALIGN
MODE
ZERO ENCODER
COARSE ALIGN
CDU MANUAL
ATTITUDE CONTROL
FINE ALIGN
ENTRY
Yc=-13.093
Yc=-11.844
C
B
HCA 501 EPOXY PUTTY
.040 ALUM 2024-T3
(8)
.032
SECTION C-C
4 REQD (13)
Yc=-18.000
ALUM PLUG 2024-T4
Yc=-11.813
(5) 4 REQD
3/16 TO BE FREE OF THREAD
(11) 4 REQD 1
(16) 4 REQD
SECTION B-B

1 ITEM 16(REF) IN
IN 9/16 DIA ALU

2 MATERIAL: HON
5.7 DENSITY

3 MATERIAL: QQ-S
FINISH - MIL-F-14

4 FINISH CHEMICA
APPLY COATS
TT-E-529, CLASS
OF FED-STD-5

BAND EDGES

BOND PER MI

CHARACTERS

WHITE, COLOR
FLAT OVERCOA
BORDER LINE

1014526	C

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014526C
3 January 1964
Class A Release
TDRR 05595

PROCUREMENT SPECIFICATION
FOR
IMU CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
2/25/64	A	06251	3 and 4	WR.	
3/24/64	B	06815	5	WR.	
3/17/64	C	06995	5	WR.	

This specification consists of page i to iii and 1 to 7 inclusive.

Apollo G&N Specification
PS-1014526
3 January 1964

PROCUREMENT SPECIFICATION
FOR
IMU CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the IMU Control Panel Assembly for use in ~~APOLLO G&N equipment.~~

W Kupfer 3 Jan 64
MIT/IL DATE

W. S. Swingle 1/3/64
NASA/MSC APPROVAL DATE

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014526
3 January 1964

PROCUREMENT SPECIFICATION
FOR
IMU CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 This specification establishes the requirements for the procurement of the IMU Control Panel Assembly, Drawing 1014526, hereafter called the panel.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014526	Final Test Method for IMU Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

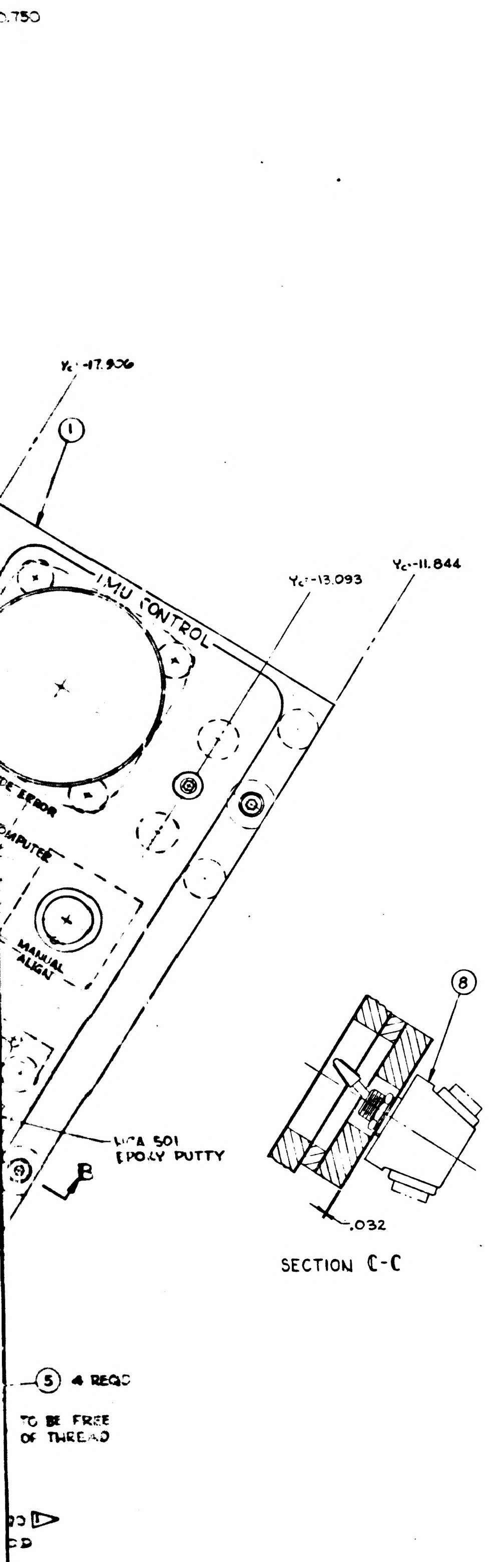
APOLLO G&N

1014524	IMU Control Panel Schematic Diagram (For Reference Only)
1014526	IMU Control Panel Assembly

1014526 D

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED & REDRAWN	4FEB 63	
B2	(B1) REVISED P/N ITEM 9 (B2) REMD ITEM 3 (2 REQD) & ITEM 11 4 REQD, & ITEM 7 1 REQD TDRR 00369	12 FEB 63	WK
C6	(C1) REVISED NOTES (C2) RELOCATED IT 7,8,9 (C3) REMD IT 6,12 (C4) ADDED IT 14 15,16,17 (C5) REVISED IT 2 (C6) REVISED DIMENSIONS TDRR 00584	5 MAR 63	3-13-63 WK
D1	(D1) REPLACED WITH CHANGE BY REV E TDRR 01305	14 MAY 63	22 May WK

(M)



1▷ ITEM 16 (REF) INSERT INSTALLED IN 9/16 DIA ALUM PLUG. 2024-T4

2▷ MATERIAL: HONEYCOMB, 3/16 CELL SIZE, .002 FOIL GAUGE, 3003-H19 ALUM 5.7 DENSITY CORE, .020 SKIN GAUGE, UNLESS OTHERWISE SPECIFIED, 2024-T3 ALUM

3▷ MATERIAL: QQ-S-763 CL 303 OR 303 SE COND A CF SST
FINISH: MIL-F-14072 (SIG C) FIN E300 PASSIVATE

4▷ FINISH: CHEMICAL FILM PER MIL-C-5541
APPLY COATS OF SEMI-GLOSS ENAMEL PER FED SPEC TT-E-529, CLASS A, MEDIUM GRAY, COLOR NO. 26231 OF FED-STD-595.

BAND EDGES OF ITEM 1 USING HCA 501 EPOXY PUTTY

BOND PER MIL-A-25463, TYPE II, CLASS 2

CHARACTERS & BORDER LINE TO BE SILK-SCREENED USING PER FED SPEC CLASS , WHITE, COLOR NO. 37875 OF FED-STD-595. (NO CLEAR FLAT OVERCOAT). CHARACTERS TO BE FUTURA DEMI-BOLD BORDER LINE TO BE 1/16 WIDE.

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00322 DATE 6 FEB 1963

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND No
1		CONNECTOR HUGHES ELECTRONTICS P/N WSS010BPDN001	17
8	1000140	INSERT, THREADED, SELF LOCKING	16
2	MS16633-4009	RING-RETAINING	15
2		PIN-CONNECTOR 3▷	14
4		SCREW, FL HD (ACSP #7925729-193)	13
			12
8	1006723-22	SCREW, BUTTON HD (6-32 × 3/8 LG)	11
1		INDICATOR WESTON INSTRUMENTS MODEL 1885 P/N BOS1212NE1	10
1		SWITCH ILLUMINATED CONTROLS INC DWG P91278	9
1		SWITCH	8
1		SWITCH	7
			6
4		SCREW-CAPTIVE 3▷	5
1		PLATE-SWITCH MATL: QQ-A-362 TEMPER T3 FIN: MIL-C-5541	4
			3
2		PIN-PANEL 3▷ 4▷	2
1		PANEL 2▷	1

LIST OF MATERIALS

(D) REPLACED WITH CHANGE BY REV E

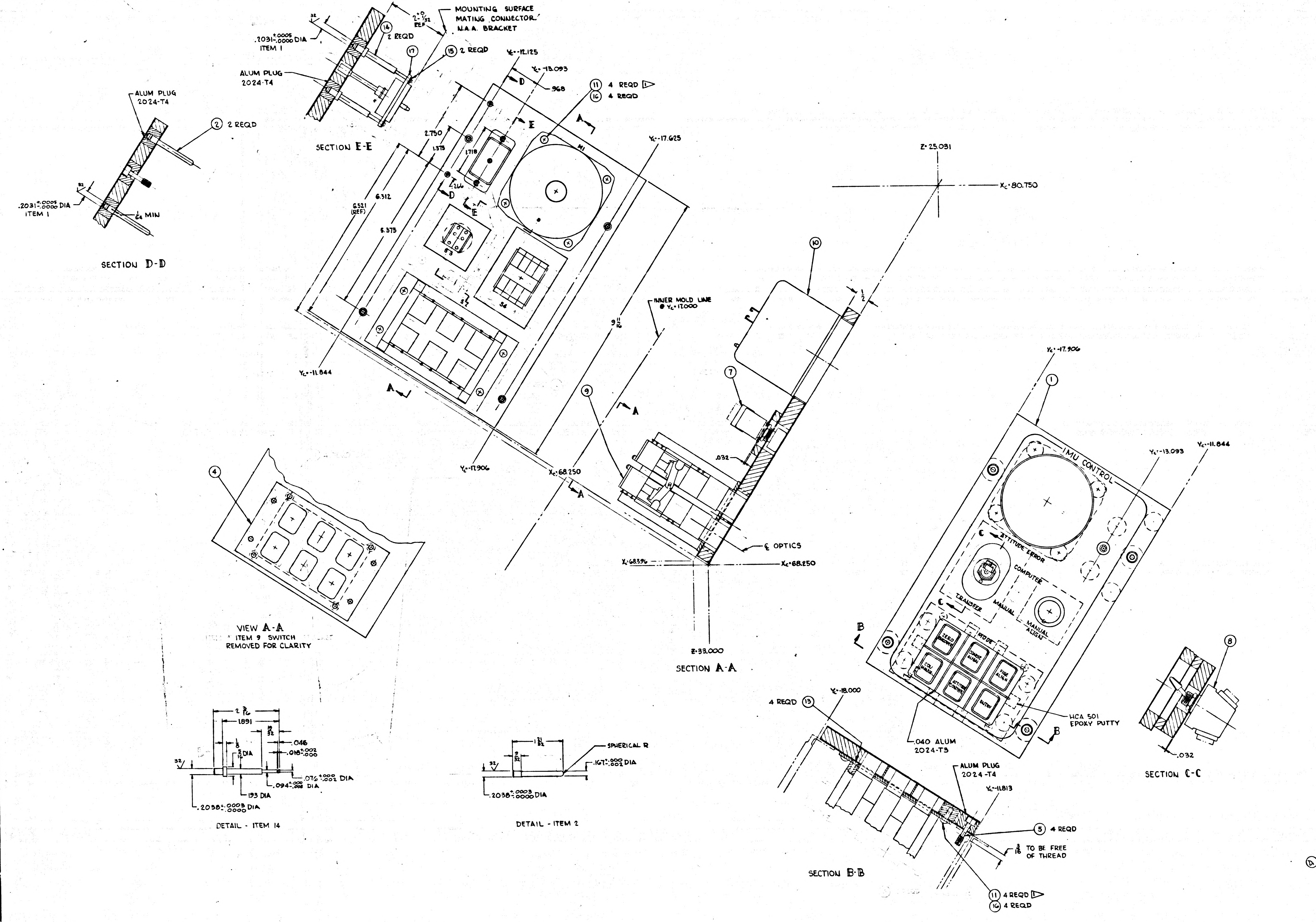
MASTER

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 2° DO NOT SCALE THIS DRAWING	MIT INSTRUMENTATION LAB CAMBRIDGE MASS DWG NO CONTRACT	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
APPLICATION		MATERIAL SEE LIST OF MATL	DRAWN R. LaDue DATE 15 Jan 63 CHECKED APPROVAL H. WHEELER APPROVAL	IMU CONTROL PANEL ASSEMBLY
		HEAT TREATMENT	NASA APPROVAL 4/4/63	CODE IDENT NO SIZE J NASA DRAWING NO 1014526
		FINAL FINISH SEE LIST OF MATL	MIT APPROVAL 4/4/63	SCALE 1/1 WT SHEET OF

1014526 D

INCHES

PHOTOGRAPHIC SCALE ONLY



MOUNTING SURFACE
MATING CONNECTOR
N.A.A. BRACKET
.2031 +.0005 -.0000 DIA ITEM 1
(14) 2 REQD
(15) 2 REQD
(17)
ALUM PLUG 2024-T4
SECTION E-E
ALUM PLUG 2024-T4
(2) 2 REQD
.2031 +.0005 -.0000 DIA ITEM 1
1/64 MIN
SECTION D-D
Yc-12.125
Yc-13.093
.968
(11) 4 REQD
(16) 4 REQD
M1
Yc-17.625
2.750
1.375
1.718
2.14
6.312
6.521 (REF)
5.375
S3
S4
S2
Yc-11.844
Yc-17.906
9 11/16
INNER MOLD LINE @ Yc-17.000
Xc-68.250
Z-25.031
Xc-80.750
(10)
(7)
(9)
.032
1/2
℄ OPTICS
Xc-68.396
Xc-68.250
Z-33.000
SECTION A-A
(4)
VIEW A-A
ITEM 9 SWITCH
REMOVED FOR CLARITY
Yc-17.906
(1)
IMU CONTROL
Yc-13.093
Yc-11.844
ATTITUDE ERROR
COMPUTER
TRANSFER
MANUAL
MANUAL ALIGN
MODE
ZERO ENCODER
COARSE ALIGN
FINE ALIGN
CDU
ATTITUDE CONTROL
RETURN
HCA 501 EPOXY PUTTY
.040 ALUM 2024-T3
(8)
.032
SECTION C-C
4 REQD (13)
Yc-18.000
ALUM PLUG 2024-T4
Yc-11.813
(5) 4 REQD
3/16 TO BE FREE OF THREAD
(11) 4 REQD
(16) 4 REQD
SECTION B-B
2 3/16
1.891
19/32
1/8
3/16 DIA
.046
.018 +.002 -.000
.076 +.000 -.002 DIA
.094 +.000 -.002 DIA
.193 DIA
.2038 +.0003 -.0000 DIA
DETAIL - ITEM 14
1 31/32
9/32
SPHERICAL R
.167 +.000 -.002 DIA
.2038 +.0003 -.0000 DIA
DETAIL - ITEM 2

1 ITEM 16 (REF) INSERT IN
IN 5/16 DIA ALUM PLU

2 MATERIAL: HONEYCOMB
5.7 DENSITY CORE,

3 MATERIAL: QQ-S-763 CL
FINISH: MIL-F-14072 (S1

4 FINISH: CHEMICAL FILM
APPLY COATS OF SE
TT-L-529, CLASS A, MEI
OF FED-STD-595.

BAND EDGES OF IT

BOND PER MIL-A-25

CHARACTERS & BORDE
PER FE
WHITE, COLOR NO. 378
FLAT OVERCOAT). CHAR
BORDER LINE TO

Ⓓ REPLACE TH CH
MM3

1014526 D

APOLLO G&N Specification
PS-1014526 D
3 January 1964
Class A Release
TDRR 05595

PROCUREMENT SPECIFICATION
FOR
IMU CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
2/25/64	A	06251	3 and 4	WK.	
3/24/64	B	06815	5	WK.	
3/17/64	C	06995	5	WK.	
[illegible]	D	10452	3 and 4	WK.	

This specification consists of page i to iii and 1 to [illegible] inclusive.

Apollo G&N Specification
PS-1014526
3 January 1964

PROCUREMENT SPECIFICATION
FOR
IMU CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the IMU Control Panel Assembly for use in APOLLO G&N equipment.

3 Jan 64
MIT/IL DATE

1/3/64
NASA/MSC APPROVAL DATE

APOLLO G&N Specification
PS-1014526
3 January 1964

PROCUREMENT SPECIFICATION
FOR
IMU CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 This specification establishes the requirements for the procurement of the IMU Control Panel Assembly, Drawing 1014526, hereafter called the panel.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014526	Final Test Method for IMU Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014524	IMU Control Panel Schematic Diagram (For Reference Only)
1014526	IMU Control Panel Assembly

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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1014526 E

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E₁	Ⓔ₁ REPLACES REV D WITH CHANGE TDRR 01305	14 MAY 63	WK

PICTURE INCOMPLETE

DRAWING FOR REFERENCE
1014524 SCHEMATIC DIAGRAM

Ⓔ₁ REPLACES REV D WITH CHANGE

MASTER

QTY REQD		PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
6			SWITCH (SPDT PUSH BUTTON)	
1		1014531	WIRE HARNESS	
8		1006783-22	SCREW-BUTTON HD HEX SOCKET	
1		1010336	INDICATOR	
6		1010268	LAMP	
1				
1				
1				
1				
1				
1			PUSH BUTTON	
1		1010484-001	SWITCH (3P DT TOGGLE)	
1		1010480 -001	SWITCH (DPDT PUSH BUTTON)	
2		MS16633-4009	RING-RETAINING	
4		1014503	SCREW-CAPTIVE	
2		1014530	PIN-CONNECTOR	
1		1014529	PLATE-SWITCH	
2		1014528	PIN-PANEL	
1		1014527	PANEL (INSEP)	

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN R. LaDue DATE 15 JAN 63
CHECKED
APPROVAL H. WHEELER
APPROVAL 5/13/63
NASA APPROVAL W J Rhine 5-22-63
MIT APPROVAL 24 May 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

IMU CONTROL PANEL ASSEMBLY

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 1014526
SCALE #
WT
SHEET OF

1014526 E

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014536
3 January 1964
Class A Release
TDRR 05591

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals MIT	Approvals NASA
1/[illegible]	A	[illegible]	3 and 4	[illegible]	[illegible]
[illegible]	B	[illegible]	3	[illegible]	[illegible]
[illegible]	C	[illegible]	3	[illegible]	[illegible]
[illegible]	D	[illegible]	3 and 4	[illegible]	[illegible]
[illegible]	E	[illegible]	6	[illegible]	

This specification consists of page i to iii and 1 to 7 inclusive.

Apollo G&N Specification
PS-1014536
3 January 1964

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the IMU Control Panel Assembly for use in APOLLO G&N equipment.

3 Jan 64
MIT/IL DATE

1/3/64
NASA/MSC APPROVAL DATE

INCHES
0 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014536
3 January 1964

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 This specification establishes the requirements for the procurement of the IMU Control Panel Assembly, Drawing 1014535, hereafter called the panel.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014536	Final Test Method for IMU Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014604	IMU Control Panel Schematic Diagram (For Reference Only)
1014535	IMU Control Panel Assembly

APOLLO G&N Specification
PS-1014520[illegible]
[illegible]
Class [illegible] Release
TDRR [illegible]

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
[illegible]	A	06251	3 and 4		
	B	06815	5		
[illegible]	C	06995	5		
0[illegible]/64	D	10154	3 and 4		

This specification consists of page i to iii and 1 to 7 inclusive.

Apollo G&N Specification
PB 1014526

3 January 1964

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the IMU Control Panel Assembly for use in APOLLO G&N equipment.

MIT/IL APPROVAL DATE

NASA/MSC APPROVAL 1/3/64 DATE

PREPARED BY	**TITLE**	**DATE**
AC Spark Plug		
EXAMINED BY	**TITLE**	**DATE**
AC Spark Plug		
APPROVED BY	**TITLE**	**DATE**
MIT/IL		
APPROVED BY	**TITLE**	**DATE**
MIT/IL		
APPROVED BY	**TITLE**	**DATE**
MIT/IL		

APOLLO G&N Specification
PS-1014520
3 January 1966

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 This specification establishes the requirements for the procurement of the IMU Control Panel Assembly, Drawing 1014520, hereafter called the panel.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014520	Final Test Method for IMU Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014524	IMU Control Panel Schematic Diagram (For Reference Only)
1014520	IMU Control Panel Assembly

3. REQUIREMENTS

3.1 GENERAL SPECIFICATION. Unless otherwise specified herein, all the requirements of Specification ND-1002210 shall apply as requirements of this specification.

3.2 DESCRIPTION. The panel shall initiate mode functions, allow transferring between computer and manual modes, measure IMU-CDU Difference signals from the inner, middle, and outer gimbals, and indicate when the Inertial Measurement Unit (IMU) and Coupling Display Units are in any of the following modes:

a. Zero Encoder
b. Coarse Align
c. Fine Align
d. CDU Manual
e. Attitude Control
f. Entry

3.3 FUNCTIONAL REQUIREMENTS

3.3.1 Electrical Inputs. The panel shall perform as specified herein with the following electrical inputs:

a. 0 to 3 vdc
b. 5.5±0.25V rms, 400 cps ±5%

3.3.2 Continuity and DC Resistance. Using Method 303 of Standard MIL-STD-202 continuity and dc resistance shall be in accordance with Table I (Reference Drawing 1014624).

TABLE I

CONTINUITY AND RESISTANCE

FROM P1 PIN	TO P1 PIN	SWITCH POSITIONS All Push Buttons Are In The Out Position Unless Otherwise Indicated								RESISTANCE (ohms)
		Transfer	Manual Align	Zero Encoder	Coarse Align	CDU Manual	Fine Align	Attitude Control	Entry	
78	6	Optional								100 meg min
↑	↑	↑		IN						1.0 max
					IN					1.0 max
						IN				1.0 max
							IN			1.0 max
	↓							IN		1.0 max
	6								IN	100 meg min
	34									100 meg min
	34			IN						1.4 max
	34			IN				IN		100 meg min
	36									100 meg min
	↑				IN					1.7 max
	↓			IN	IN					100 meg min
	36				IN			IN		100 meg min
	36									100 meg min
	↑					IN				2.0 max
				IN		IN				100 meg min
	↓				IN	IN				100 meg min
	36					IN		IN		100 meg min
	22									100 meg min
	↑						IN			2.5 max
				IN			IN			100 meg min
					IN		IN			100 meg min
	↓					IN	IN			100 meg min
	22						IN	IN		100 meg min
	46									100 meg min
	46							IN		1.0 max
	25									100 meg min
	↑								IN	2.3 max
				IN					IN	100 meg min
					IN				IN	100 meg min
		↓				IN			IN	100 meg min
↓	↓						IN		IN	100 meg min
78	46	Optional						IN	IN	100 meg min

TABLE I (Continued)

FROM P1 PIN	TO P1 PIN	SWITCH POSITIONS All Push Buttons Are in The Out Position Unless Otherwise Indicated								RESISTANCE (ohms)
		Transfer	Manual Align	Zero Encoder	Coarse Align	CDU Manual	Fine Align	Attitude Control	Entry	
78	9	Computer or Manual								0.5 max
↑	↑	↑		IN						100 meg min
					IN					↑
						IN				
							IN			
	↓							IN		
↓	9								IN	↓
78	98	Computer								100 meg min
↑	98	or Manual	IN							1.0 max
	10	Computer								100 meg min
	10	Computer	IN							100 meg min
	10	Manual	IN							0.4 max
	10	Manual								100 meg min
	12	Manual								100 meg min
	12	Manual	IN							100 meg min
↓	12	Computer	IN							1.0 max
78	12	Computer								100 meg min
98	12	Computer								1.0 max
↑	12	Computer	IN							1.0 max
	12	Manual	IN							100 meg min
	12	Manual								100 meg min
	10	Manual								1.0 max
	10	Manual	IN							1.0 max
↓	10	Computer	IN							100 meg min
98	10	Computer								100 meg min
66	27	Optional								100 meg min
64	27	Optional	IN							1.0 max
66	60	Computer								1.0 max
66	60	Manual								100 meg min
24	61	Computer								1.0 max
↑	61	Manual								100 meg min
	46	Manual								1.0 max
	46	Computer								100 meg min
	78	Computer								100 meg min
	78	Manual						IN		1.0 max
↓	78	Computer						IN		100 meg min
24	78	Manual								100 meg min
91	Panel*1									0.05 max

TABLE I (continued)

FROM P1 PIN	TO P1 PIN	SWITCH POSITIONS All Push Buttons Are In The Out Position Unless Otherwise Indicated Transfer	Manual Align	Zero Encoder	Coarse Align	CDU Manual	Fine Align	Attitude Control	Entry	RESISTANCE (ohms)
107	104									2-50 *2
107	92									
107	105									
107	94									
107	22									
107	106									
107	79									2-50 *2
1	2									2900 ± [illegible]
14	15									2900 ± [illegible]
29	28									2900 ± [illegible]

*1 Back skin of panel, but not mounting pads.
*2 Use Simpson 260 VOM on RX1 scale or equivalent.
*3 Use an Ohmmeter having a voltage output of less than 4 vdc.

3.3.3 Insulation Resistance. Using Method 302 of Standard MIL-STD-202, the insulation resistance measured from all existing pins except 91 of the panel shall be 100 megohms minimum with 150 to 200 vdc applied. The testing equipment short circuit current shall be limited to 6 ma.

3.3.4 Meter Deflection. The IMU-CDU DIFFERENCE meter, M_1, shall provide an indication as specified in Table II.

TABLE II

METER DEFLECTION

INPUT VDC	CONNECTOR P1 Pin	Pin	METER READING Inner	Middle	Outer
Shorted	1	2	0		
Shorted	14	15		0	
Shorted	29	28			0
1.76 to 2.64	1	2	+5		
	2	1	-5		
	14	15		+5	
	15	14		-5	
	29	28			+5
1.76 to 2.64	28	29			-5

TABLE II (continued)

VDC	INPUT CONNECTOR P1 + Pin	INPUT CONNECTOR P1 - Pin	METER READING Inner	METER READING Middle	METER READING Outer
0.40 to 0.48	1	2	+1		
↕	2	1	-1		
	14	15		+1	
	15	14		-1	
	20	28			+1
0.40 to 0.48	28	20			-1

3.4 PERFORMANCE AND PRODUCT CHARACTERISTICS

3.4.1 Lamp Illumination. With 5.50±0.25V, 400 cps±5% applied to the pins of P1 as specified in Table III, the illumination of each illuminated push button shall be 4 foot lamberts minimum, as determined by the average of five 0.015" nominal diameter areas equally spaced along the horizontal center line of the push button face. Only the illuminated surface of the push button which is on a plane parallel to the front surface of the IMU Control Panel shall be measured.

TABLE III

LAMPS

CONNECTOR P1 FROM PIN	CONNECTOR P1 TO PIN	LAMP DESIGNATION
107	104	DS_5 (Zero Encoder)
107	92	DS_6 (Coarse Align)
107	105	DS_7 (CDU Manual)
107	94	DS_8 (Fine Align)
107	22	DS_9 (Attitude Control)
107	79	DS_{10} (Entry)

3.4.2 Meter Illumination. The illumination of the IMU-CDU Difference meter numerals shall be greater than 0.5 foot-lamberts when measured on any portion of the numeral "0" using all three scales.

3.4.3 Service Life.

3.4.3.1 Operating Life. The panel shall meet performance specifications for at least 2000 hours of operation, excluding the supplier's test time of the completed unit.

3.4.3.2 Shelf Life. The panel shall have a shelf life of at least 3 years, without operation at ambient room temperature after final acceptance at the supplier's facility.

3.4.4 Reliability. Design objectives require maximum reliability of the panel during its period of useful life. Every effort shall be made to design and produce units capable of meeting or exceeding the maximum failure rate of 10 per million hours.

4. QUALITY ASSURANCE PROVISIONS

4.1 GENERAL SPECIFICATION. Unless otherwise specified herein, all the quality assurance provisions of Specification ND-1002210 shall form a part of this specification.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND 1002210.

6. NOTES. None.

Notice: When APOLLO G&N drawings, specifications or other data are used for any purpose other than in connection with a definitely related NASA procurement operation, NASA thereby incurs no responsibility nor any obligation whatsoever, and the fact that NASA may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation or conveying any rights or permission to manufacture, use or sell any patented invention that may in any way be related thereto.

WB:jp

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1014526 F

M

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E1	ⒺREPLACES REV D WITH CHANGE TDRR 01305	14 MAY 63	WK
F1	ⒻREPLACED BY REV G WITH CHANGE TDRR 02369	31 JULY 63	WK

PICTURE INCOMPLETE

DRAWING FOR REFERENCE
1014524 SCHEMATIC DIAGRAM

Ⓕ REPLACED BY REV.G WITH CHG
Ⓔ REPLACES REV D WITH CHANGE

QTY REQD		PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
6			SWITCH (SPDT PUSH BUTTON)	
1		1014531	WIRE HARNESS	
8		1006783-22	SCREW-BUTTON HD HEX SOCKET	
1		1010336	INDICATOR	
6		1010268	LAMP	
1				
1				
1				
1				
1				
1			PUSH BUTTON	
1		1010484-C01	SWITCH (3P DT TOGGLE)	
1		1010480-001	SWITCH (DPDT PUSH BUTTON)	
2		MS16633-4009	RING-RETAINING	
4		1014503	SCREW-CAPTIVE	
2		1014530	PIN-CONNECTOR	
1		1014529	PLATE-SWITCH	
2		1014528	PIN-PANEL	
1		1014527	PANEL (INSEP)	

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN R. LaDue DATE 15 JAN 63
CHECKED
APPROVAL H. WHEELER
APPROVAL 5/13/63
NASA APPROVAL W J Rhine 5-22-63
MIT APPROVAL 23 May 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

IMU CONTROL PANEL
ASSEMBLY

CODE IDENT NO. SIZE C NASA DRAWING NO. 1014526
SCALE # WT SHEET OF

MASTER

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014526 F
3 January 1964
Class A Release
TDRR 05595

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
2/25/64	A	06251	3 and 4	WK.	WJR
3/24/64	B	06815	5	WK	[illegible]
3/17/64	C	06995	5	WK.	[illegible]
6/5/64	D	10152	3 and 4	WK.	[illegible]
6/9/64	E	10071	6	WAK	
12/15/64	F	14809	1 thru 8 fdc/aw	W.K.	W.J.R.

This specification consists of page i
to iii and 1 to 8 inclusive.

PROCUREMENT SPECIFICATION
FOR
IMU CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 This specification establishes the requirements for the procurement of the IMU Control Panel Assembly, hereafter called the panel.

1.2 CLASSIFICATION. Unless otherwise specified, all types shall meet the requirements specified herein. Special requirements for the equipment covered by this specification shall be classified as follows:

- a. Type I: The special requirements for Part No. 1014526-011 shall be designated as Type I.
- b. Type II: The special requirements for Part No. 1015095-011 shall be designated as Type II.
- c. Type III: The special requirements for Part No. 1014628-011 shall be designated as Type III.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014526	Final Test Method for IMU Control Panel Assembly

3. REQUIREMENTS

3.1 GENERAL SPECIFICATION. Unless otherwise specified herein, all the requirements of Specification ND-1002210 shall apply as requirements of this specification.

3.2 DESCRIPTION. The panel shall initiate mode functions, allow transferring between computer and manual modes, measure IMU-CDU Difference signals from the inner, middle, and outer gimbals, and indicate when the Inertial Measurement Unit (IMU) and Coupling Display Units are in any of the following modes:

a. Zero Encoder
b. Coarse Align
c. Fine Align
d. CDU Manual
e. Attitude Control
f. Entry

3.3 FUNCTIONAL REQUIREMENTS

3.3.1 Electrical Inputs. The panel shall perform as specified herein with the following electrical inputs:

a. 0 to 3 vdc
b. 5.5±0.25V rms, 400 cps ±5%

3.3.2 Continuity and DC Resistance. Using Method 303 of Standard MIL-STD-202 continuity and dc resistance shall be in accordance with Table I. (Type I Reference Drawing: 1014524, Type II Reference Drawing 1015096, Type III Reference Drawing 1021737.)

TABLE I (continued)

FROM P1 PIN	TO P1 PIN	SWITCH POSITIONS All Push Buttons Are In The Out Position Unless Otherwise Indicated: Transfer	Manual Align	Zero Encoder	Coarse Align	CDU Manual	Fine Align	Attitude Control	Entry	RESISTANCE (ohms)
107	104									2-50 *2
107	92									↓
107	105									
107	94									
107	22									
107	108									
107	79									2-50 *2
1	2									2200 ± 220*3
14	15									2200 ± 220*3
29	28									2200 ± 220*3

*1 Back skin of panel, but not mounting pads.
*2 Use Simpson 260 VOM on RXl scale or quivalent.
*3 Use an Ohmmeter having a voltage output of less than 4 vdc.

3.3.3 Insulation Resistance. Using Method 302 of Standard MIL-STD-202, the insulation resistance measured from all existing pins except 91 of the panel shall be 100 megohms minimum with 150 to 200 vdc applied. The testing equipment short circuit current shall be limited to 6 ma.

3.3.4 Meter Deflection. The IMU-CDU DIFFERENCE meter, M_1, shall provide an indication as specified in Table II.

TABLF II

METER D LECTION

INPUT: VDC	CONNECTOR P_1: +Pin	-Pin	METER READING: Inner	Middle	Outer
Shorted	1	2	0		
Shorted	14	15		0	
Shorted	29	28			0
1.76 to 2.64	1	2	+5		
↕	2	1	-5		
	14	15		+5	
	15	14		-5	
	29	28			+5
1.76 to 2.64	28	29			-5

TABLE II (continued)

VDC	INPUT CONNECTOR P1 + Pin	INPUT CONNECTOR P1 - Pin	METER READING Inner	METER READING Middle	METER READING Outer
0.40 to 0.48	1	2	+1		
↑	2	1	-1		
│	14	15		+1	
│	15	14		-1	
↓	29	28			+1
0.40 to 0.48	28	29			-1

3.4 PERFORMANCE AND PRODUCT CHARACTERISTICS

3.4.1 Lamp Illumination. With 5.50±0.25V, 400 cps±5% applied to the pins of P1 as specified in Table III, the illumination of each illuminate push button shall be 4 foot lamberts minimum, as determined by the average of five 0.015 "nominal diameter areas equally spaced along the horizontal center line of the push button face. Only the illuminated surface of the push button which is on a plane parallel to the front surface of the IMU Control Panel shall be measured."

TABLE III

LAMPS

CONNECTOR P1 FROM PIN	CONNECTOR P1 TO PIN	LAMP DESIGNATION
107	104	DS_5 (Zero Encoder)
107	92	DS_6 (Coarse Align)
107	105	DS_7 (CDU Manual)
107	94	DS_8 (Fine Align)
107	22	DS_9 (Attitude Control)
107	79	DS_{10} (Entry)

3.4.2 Meter Illumination. The illumination of the IMU-CDU Difference meter numerals shall be greater than 0.5 foot-lamberts when measured on any portion of the numeral "O" using all three scales.

3.4.3 Service Life.

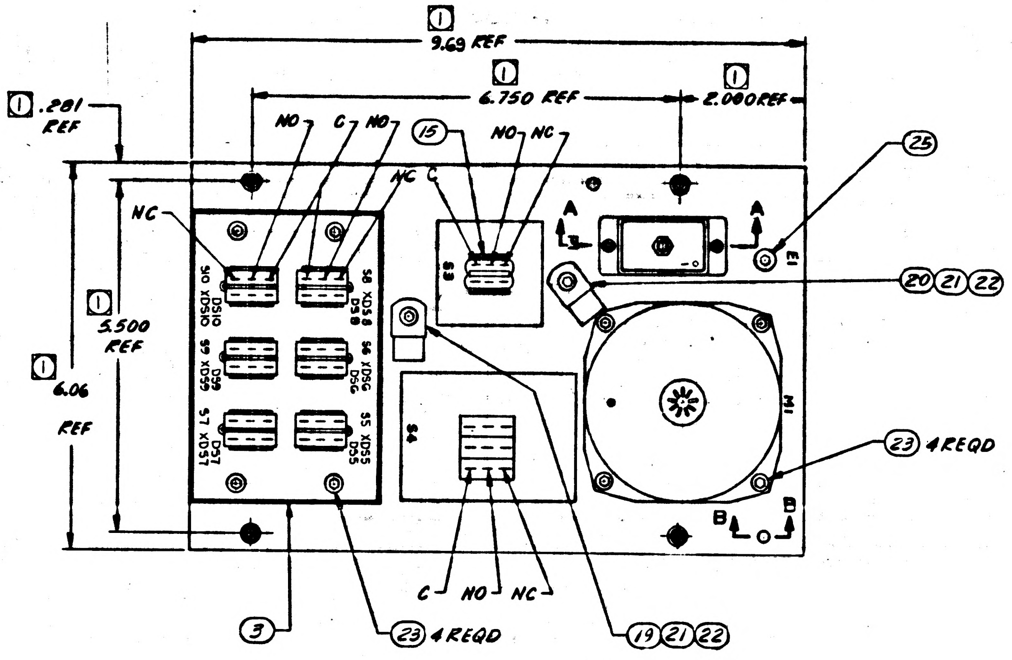
3.4.3.1 Operating Life. The panel shall meet performance specifications for at least 2000 hours of operation, excluding the supplier's test time of the completed unit.

3.4.3.2 Shelf Life. The panel shall have a shelf life of at least 3 years, without operation at ambient room temperature after final acceptance at the supplier's facility.

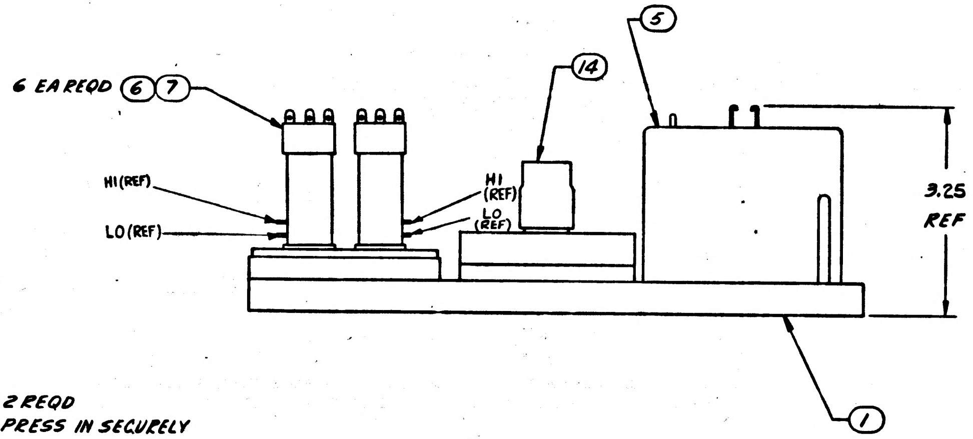
3.4.4 Reliability. Design objectives require maximum reliability of the panel during its period of useful life. Every effort shall be made to design and produce units capable of meeting or exceeding the maximum failure rate of 10 per million hours.

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE & TEST PER ATP-1014526.
3. INSPECT PER PS-1014526
4. SERIALIZE PER ND 1002023 & MARK WITH NASA P/N & REVISION LETTER.
5. SOLDER PER MIL-S-6872 (ES-2505-1 TYPE 2 FLUX) USING ITEM 29 AND ITEM 30.
6. ① DIMENSIONS CONTROLLED BY ICD MH01-01004-116.
7. VENDOR ITEM-SEE SPECIFICATION CONTROL DWG.

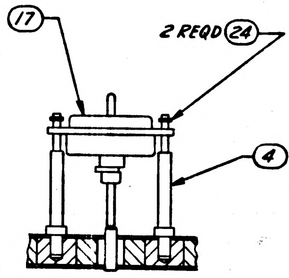
REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
G.		Ⓖ REPLACES REV F WITH FOLLOWING CHANGES: ADDED ITEMS 6, 8 THRU 13, 16, 19 THRU 22, 23 THRU 30, & PICTURE TDRR 02369		15 JULY 63	RL 7/31/63 W.C.



① 9.69 REF
① 6.750 REF
① 2.080 REF
① .281 REF
① 5.500 REF
① 6.06 REF
NO
C
NO
NC
NC
NO
NC
C
S10 XDS10 DS10
S8 XDS8 DS8
S9 XDS9 DS9
S6 XDS6 DS6
S7 XDS7 DS7
S5 XDS5 DS5
S8
S4
A
A
B
B
E1
M1
C
NO
NC
15
25
20 21 22
23 4 REQD
3
23 4 REQD
19 21 22

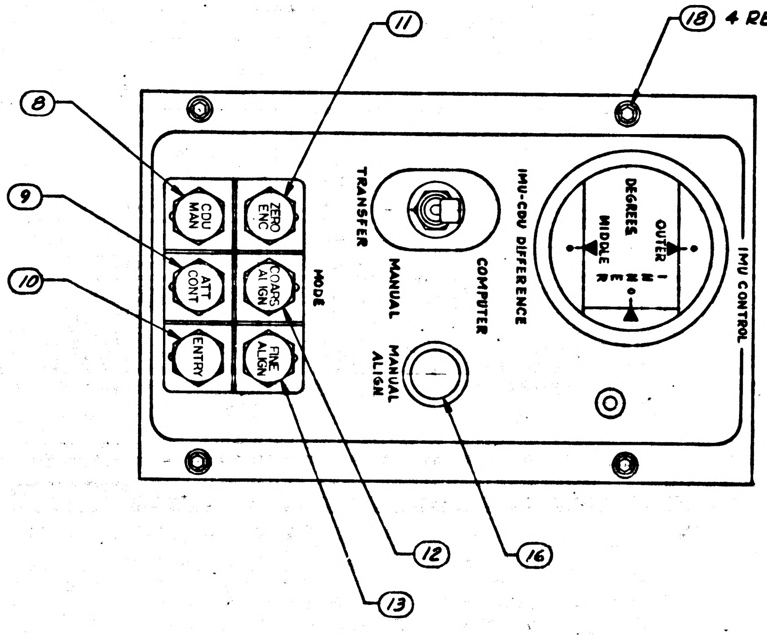


6 EA REQD 6 7
HI (REF)
LO (REF)
HI (REF)
LO (REF)
14
5
3.25 REF
1

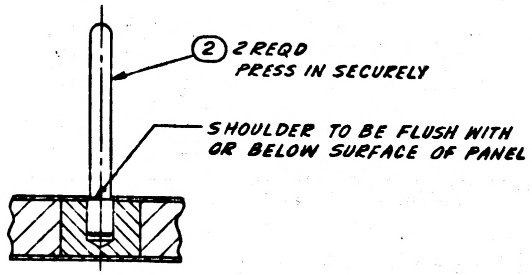


17
2 REQD 24
4 2 REQD PRESS IN SECURELY

PARTIAL SECTION A-A



8
9
10
11
18 4 REQD
CDU MAN
ZERO ENC
ATT CONT
COARSE ALIGN
ENTRY
FINE ALIGN
MODE
TRANSFER
MANUAL
COMPUTER
IMU-CDU DIFFERENCE
MANUAL ALIGN
OUTER
DEGREES
MIDDLE
INNER
IMU CONTROL
12
13
16



2 2 REQD PRESS IN SECURELY
SHOULDER TO BE FLUSH WITH OR BELOW SURFACE OF PANEL

PARTIAL SECTION B-B
SCALE-2:1

Ⓖ REPLACES REV F WITH CHANGE

SEE NOTE 7
SEE NOTE 7
SEE NOTE 7
SEE NOTE 7
SEE NOTE 7

			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			X		31	1014524	SCHEMATIC DIAGRAM
			AR		30	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
			AR		29	MIL-F-14256	FLUX (ES-2798)
						QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
			41		28	1010490-52	INSULATION-SLEEVING
			18		27	1010490-50	INSULATION-SLEEVING
			1		26	1014650-2	NAMEPLATE
			1		25	1006783-13	SCREW, BUTTON HD
			2		24	MS-16633-4009	RING, RETAINING, EXTERNAL
			8		23	1006783-22	SCREW, BUTTON HD
			2		22	1006783-19	SCREW, BUTTON HD
			2		21	1000223	WASHER-CABLE CLAMP
			1		20	1000220-6	CLAMP-CABLE
			1		19	1000220-5	CLAMP-CABLE
			4		18	1014503	SCREW-CAPTIVE, CAP
			1		17	1014531	WIRE HARNESS
			1		16	1010475	CAP, PUSHBUTTON
			1		15	1010480-1	SWITCH, PUSH BUTTON
			1		14	1010484-1	SWITCH, TOGGLE
			1		13	-6	
			1		12	-5	
			1		11	-4	
			1		10	-3	
			1		9	-2	
			1		8	1014651-1	CAP-ILLUMINATED, PUSH BUTTON
			6		7	1010268-2	LAMP, INCANDESCENT
			6		6	1010627-1	SWITCH, PUSH BUTTON
			1		5	1010336	METER, ELECTRICAL INDICATING
			2		4	1014530	PIN-CONNECTOR
			1		3	1014529	PLATE-SWITCH
			2		2	1014528	PIN-PANEL
			1		1	1014527	PANEL-IMU CONTROL (INSEP)

QUANTITY REQUIRED
LIST OF PARTS AND MATERIALS

1014526 G

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513		

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Goschke DATE 19 JUN 63
CHECKED W. Diehl 22 JUN 63
APPROVAL D.W. Mirling 24 June 63
APPROVAL 26 JUN 63
NASA APPROVAL Jack Bean
MIT APPROVAL 7-31-63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

IMU CONTROL PANEL ASSEMBLY

CODE IDENT NO.
SIZE E
1014526
SCALE FULL
WEIGHT
SHEET

APOLLO G&N Specification
PS-1014526 G
3 January 1964
Class A Release
TDRR 05595

PROCUREMENT SPECIFICATION
FOR
IMU CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
2/25/64	A	06251	3 and 4	WK.	WJR
3/24/64	B	06815	5	WK	[illegible]
?/17/64	C	06995	5	WK.	[illegible]
6/5/64	D	10152	3 and 4	WK	[illegible]
6/9/64	E	10071	6	WAK	
Ⓜ 12/15/64	F	14809	1 thru 8	W. K.	W. J. R.
3/2/65	G	17055	1 and 3	W. K.	W. J. R.

This specification consists of page i to iii and 1 to 8 inclusive.

PROCUREMENT SPECIFICATION
FOR
IMU CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 This specification establishes the requirements for the procurement of the IMU Control Panel Assembly, hereafter called the panel.

1.2 CLASSIFICATION. Unless otherwise specified, all types shall meet the requirements specified herein. Special requirements for the equipment covered by this specification shall be classified as follows:

a. Type I: The special requirements for Part No. 1014526-011, 1014526-021, 1014628-011, and 1015095-011 shall be designated as Type I.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

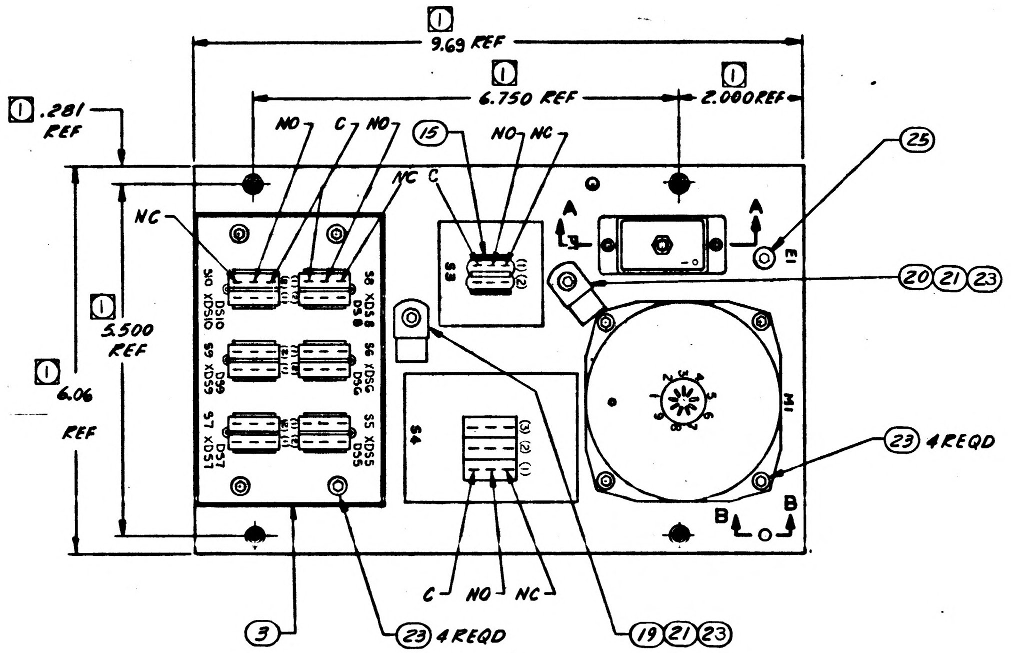
SPECIFICATIONS

APOLLO G&N

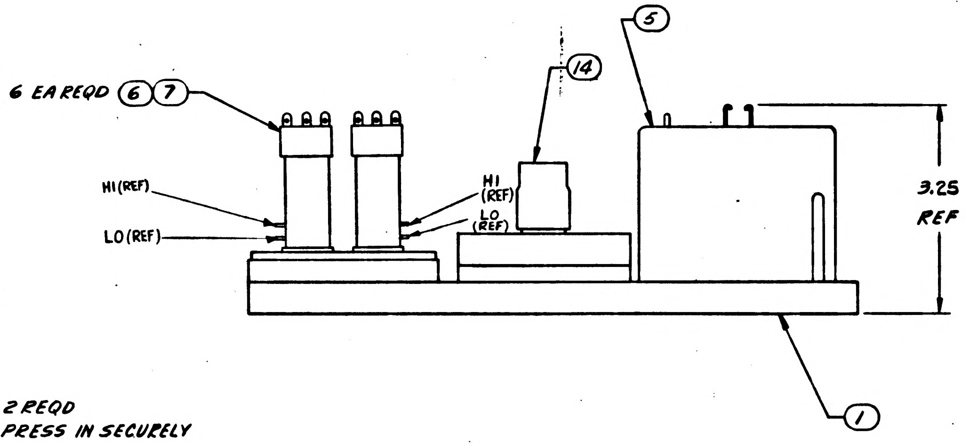
ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014526	Final Test Method for IMU Control Panel Assembly

NOTES

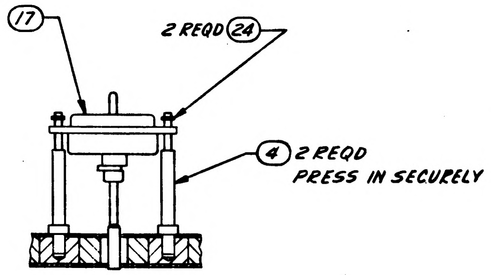
1. *INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.*
2. *ASSEMBLE & TEST PER ATP-1014526.*
3. *INSPECT PER PS-1014526*
4. *SERIALIZE PER ND 1002023 & MARK WITH NASA P/N & REVISION LETTER.*
5. *SOLDER PER MIL-S-6872 (ES-2505-1 TYPE 2 FLUX) USING ITEM 29 AND ITEM 30.*
6. Ⓘ DIMENSIONS CONTROLLED BY ICD MH01-01004-116.
7. VENDOR ITEM-SEE SPECIFICATION CONTROL DWG.
8. ITEM 27 USED ON ALL MULTIPLE CONNECTIONS OF ITEM 7 WITH ITEMS 6, 14 AND 15.
9. ITEM 28 USED ON ALL SINGLE CONNECTIONS OF ITEM 17 WITH ITEMS 6, 14 AND 15.
10. ITEM 32 USED ON ALL CONNECTIONS OF ITEM 17 WITH ITEM 5.



9.69 REF
6.750 REF
2.000 REF
.281 REF
5.500 REF
6.06 REF
NO
C
NO
NC
NC
C
15
NO
NC
25
S10 XDS10 DS10
S8 XDS8 DS8
S9 XDS9 DS9
S6 XDS6 DS6
S7 XDS7 DS7
S5 XDS5 DS5
S3
S4
(1) (2)
(3) (2) (1)
A
A
B
B
E1
M1
20 21 23
23 4 REQD
C NO NC
3
23 4 REQD
19 21 23

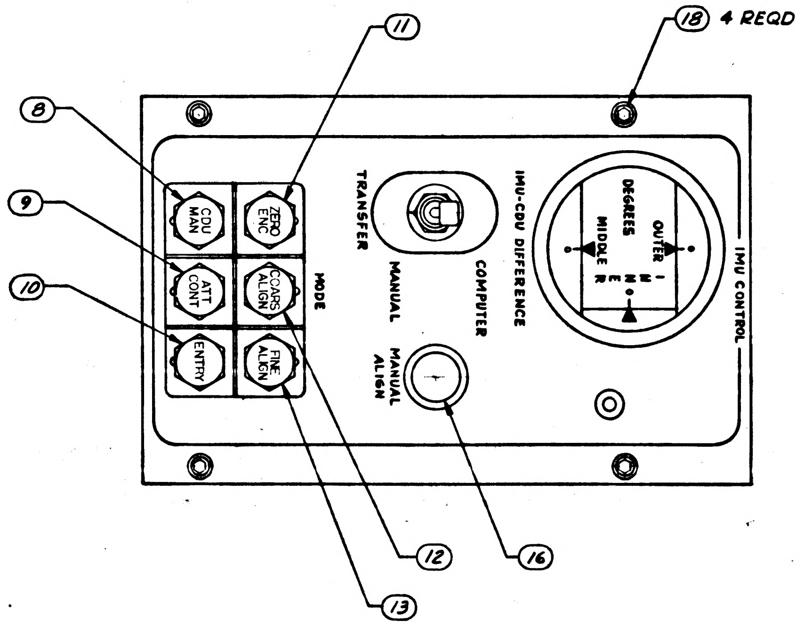


6 EA REQD 6 7
5
14
HI (REF)
LO (REF)
HI (REF)
LO (REF)
3.25 REF
1

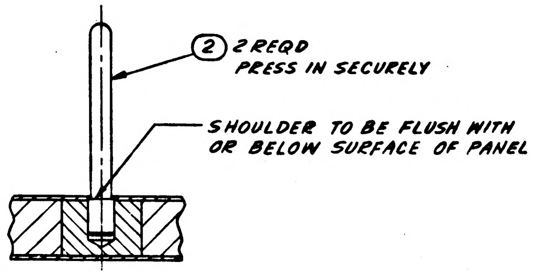


17
2 REQD 24
4 2 REQD PRESS IN SECURELY

PARTIAL SECTION A-A



11
18 4 REQD
8
9
10
CDU MAN
ZERO ENC
ATT CONT
COARS ALIGN
ENTRY
FINE ALIGN
MODE
TRANSFER
MANUAL
COMPUTER
IMU-CDU DIFFERENCE
DEGREES
OUTER
MIDDLE
INNER
MANUAL ALIGN
IMU CONTROL
12
16
13



2 2 REQD PRESS IN SECURELY
SHOULDER TO BE FLUSH WITH OR BELOW SURFACE OF PANEL

PARTIAL SECTION B-B
SCALE-2:1

RLVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
G.		ⒼREPLACES REV 'F' WITH FOLLOWING CHANGES: ADDED ITEMS 6, 8 THRU 13, 16, 19 THRU 22, 25 THRU 30, & PICTURE TDRR 02369		15 JULY 63	RL 7/31/63 W.K.
H6		REVISED PER TDRR NO. 03307		30 SEP 63	W.K.

ⒼREPLACES REV F WITH CHANGE

SEE NOTE 7 & 10				8		32	1010490-112	INSULATION-SLEEVING
				X		31	1014524	SCHEMATIC DIAGRAM
				AR		30	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
				AR		29	MIL-F-14256	FLUX (ES-2798)
							QQ-S-571	FLUX TYPE AR (ES-2115 TYPE 1 OR 2)
SEE NOTE 7 & 9				33		28	1010490-82	INSULATION-SLEEVING
SEE NOTE 7 & 8				18		27	1010490-80	INSULATION-SLEEVING
				1		26	1014650-2	NAMEPLATE
				1		25	1006783-21	SCREW, BUTTON HD
				2		24	MS-16633-4009	RING, RETAINING, EXTERNAL
				10		23	1006783-22	SCREW, BUTTON HD
				2		21	1011918-3	WASHER-CABLE CLAMP
				1		20	1000220-6	CLAMP-CABLE
SEE NOTE 7				1		19	1000220-5	CLAMP-CABLE
				4		18	1014503	SCREW-CAPTIVE, CAP
				1		17	1014531	WIRE HARNESS
				1		16	1010475	CAP, PUSHBUTTON
				1		15	1010480-1	SWITCH, PUSH BUTTON
SEE NOTE 7				1		14	1010484-1	SWITCH, TOGGLE
				1		13	-6	
				1		12	-5	
				1		11	-4	
				1		10	-3	
				1		9	-2	
				1		8	1014651-1	CAP-ILLUMINATED, PUSH BUTTON
				6		7	1010268-2	LAMP, INCANDESCENT
				6		6	1010627-1	SWITCH, PUSH BUTTON
SEE NOTE 7				1		5	1010336	METER, ELECTRICAL INDICATING
				2		4	1014530	PIN-CONNECTOR
				1		3	1014529	PLATE-SWITCH
				2		2	1014528	PIN-PANEL
				1		1	1014527	PANEL-IMU CONTROL (ASSEM.)
				011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513		

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Goschke DATE 19 JUN 63
CHECKED W. Diehl 22 JUN 63
APPROVAL D.W. Misling 24 JUN 63
APPROVAL [illegible] 26 JUN 63
NASA APPROVAL Jack Barnard
MIT APPROVAL [illegible] 31 July 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

IMU CONTROL PANEL ASSEMBLY

CODE IDENT NO.
SIZE E
1014526
SCALE FULL
WEIGHT
SHEET 1 OF 1

APOLLO G&N Specification
PS-1014526 H
3 January 1964
Class A Release
TDRR 05595

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
2/25/6	A	06251	3 and 4	WK.	WJR
[illegible]	B	06815	5	WK	[illegible]
[illegible]/17/6	C	06995	5	WK.	[illegible]
6/[illegible]/64	D	10152	3 and 4	WK	[illegible]
[illegible]	E	[illegible]	6	WAK	
Ⓜ 12/15/6	F	14809	1 thru 8	W. K.	W. J. R.
M 3/2/65	G	17055	1 and 3	W. K.	W. J. R.
6/23/65	H	20361	6 and 7	W. K.	J. B.

This specification consists of page i to iii and 1 to 8 inclusive.

TABLE I (continued)

FROM P1 PIN	TO P1 PIN	SWITCH POSITIONS — All Push Buttons Are In The Out Position Unless Otherwise Indicated: Transfer	Manual Align	Zero Encoder	Coarse Align	CDU Manual	Fine Align	Attitude Control	Entry	RESISTANCE (ohms)
107	104									2-50 *2
107	92									↑
107	105									
107	94									
107	22									
107	79									2-50 *2
1	2									2200±220*3
14	15									2200±220*3
29	28									2200±220*3

*1 Back skin of panel, but not mounting pads.
*2 Use Simpson 260 VOM on RXl scale or quivalent.
*3 Use an Ohmmeter having a voltage output of less than 4 vdc.

3.3.3 Insulation Resistance. Using Method 302 of Standard MIL-STD-202, the insulation resistance measured from all existing pins except 91 of the panel shall be 100 megohms minimum with 150 to 200 vdc applied. The testing equipment short circuit current shall be limited to 6 ma.

3.3.4 Meter Deflection. The IMU-CDU DIFFERENCE meter, M_1, shall provide an indication as specified in Table II.

TABLE II

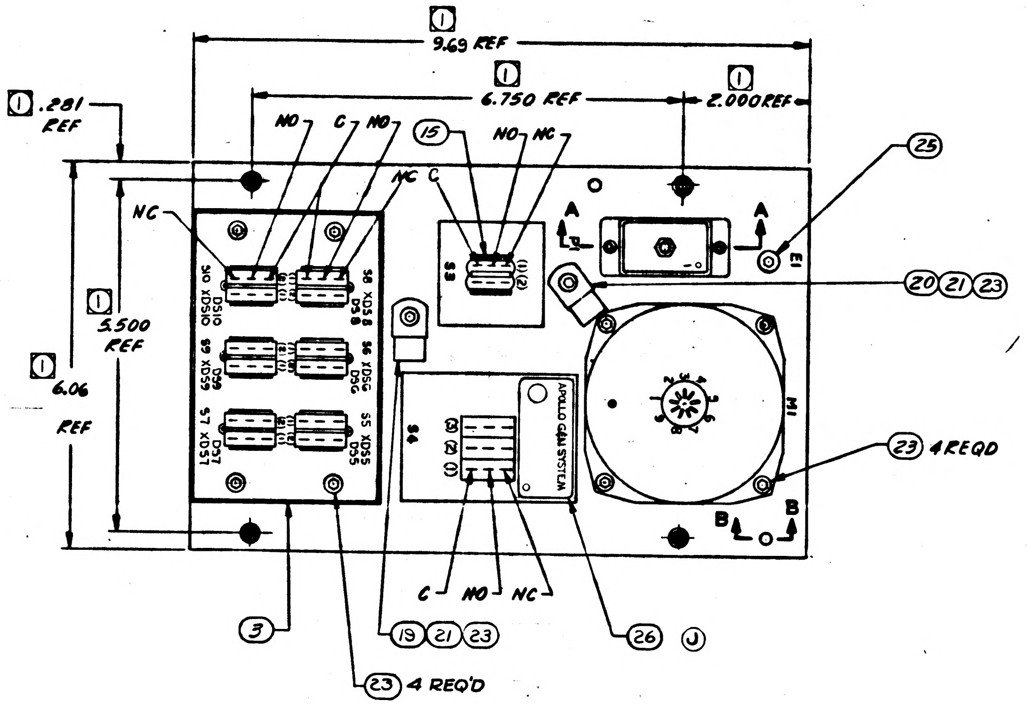
METER DEFLECTION

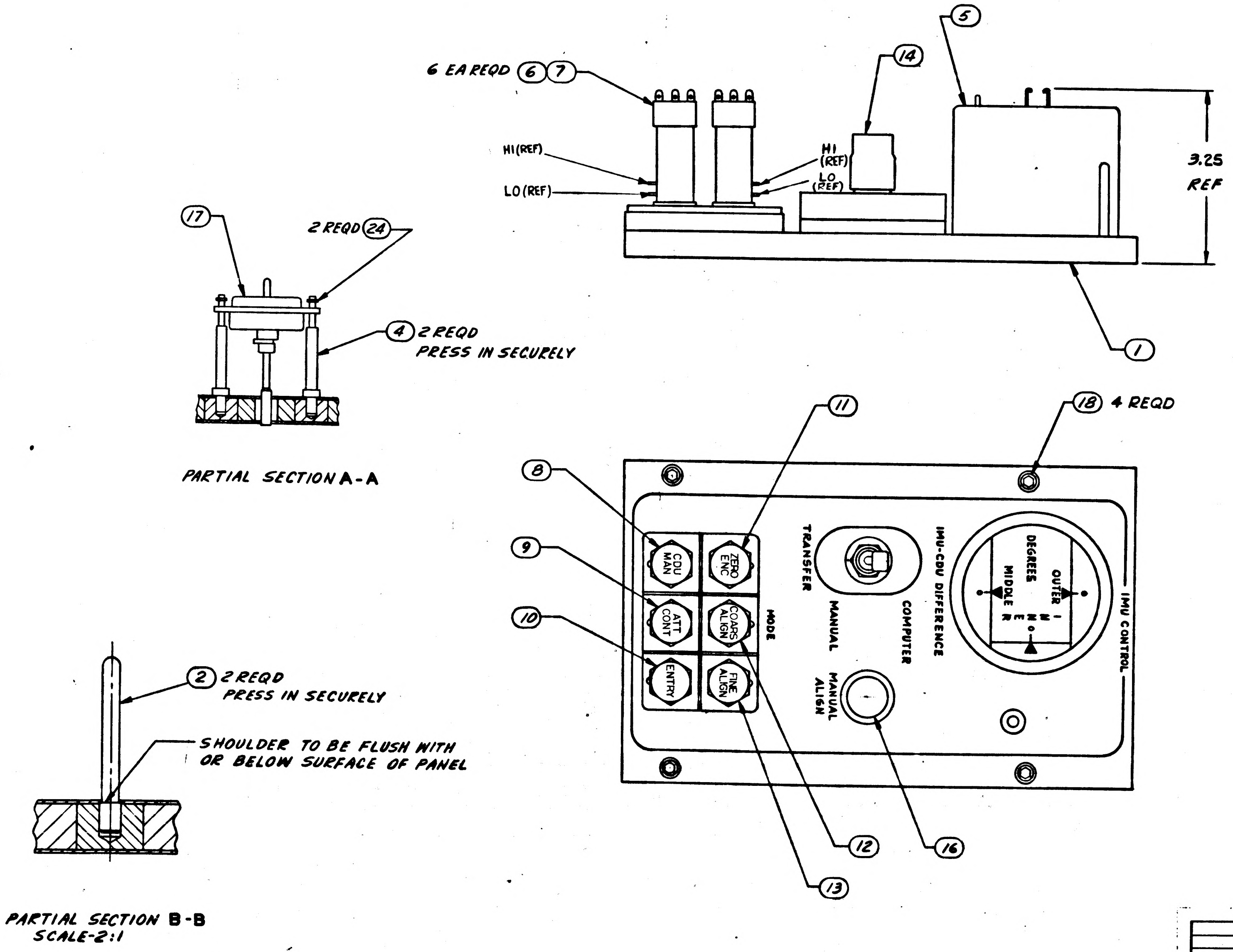
INPUT: VDC	INPUT: CONNECTOR P_1 +Pin	INPUT: CONNECTOR P_1 -Pin	METER READING: Inner	METER READING: Middle	METER READING: Outer
Shorted	1	2	0		
Shorted	14	15		0	
Shorted	29	28			0
1.76to 2.64	1	2	+5		
↕	2	1	-5		
	14	15		+5	
	15	14		-5	
	29	28			+5
1.76 to 2.64	28	29			-5

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE & TEST PER ATP-1014526.
3. INSPECT PER PS-1014526
4. SERIALIZE PER ND 1002023 & MARK WITH NASA P/N & REVISION LETTER.
5. SOLDER PER MIL-S-6872 (ES-2505-1 TYPE 2 FLUX) USING ITEM 29 AND ITEM 30.
6. ① DIMENSIONS CONTROLLED BY ICD MH01-01004-116.
7. VENDOR ITEM-SEE SPECIFICATION CONTROL DWG.
8. ITEM 27 USED ON ALL MULTIPLE CONNECTIONS OF ITEM 7 WITH ITEMS 6, 14 AND 15.
9. ITEM 28 USED ON ALL SINGLE CONNECTIONS OF ITEM 17 WITH ITEMS 6, 14 AND 15.
10. ITEM 32 USED ON ALL CONNECTIONS OF ITEM 17 WITH ITEM 5.

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
G.		Ⓖ REPLACES REV F WITH FOLLOWING CHANGES: ADDED ITEMS 6, 8 THRU 13, 16, 19 THRU 22, 25 THRU 30, & PICTURE TDRR 02369		15 JULY 63	RL 7/31/63
H6		REVISED PER TDRR NO. 03307		30 SEP 63	
J		REVISED PER TDRR NO. 04998		16 DEC 63	


① .281 REF
① 9.69 REF
① 6.750 REF
① 2.000 REF
① 5.500 REF
① 6.06 REF
NO
C
NO
NC
NC
C
NO
NC
15
25
20 21 23
23 4 REQD
A
A
B
B
S10 XDS10 DS10
S9 XDS9 DS9
S7 XDS7 DS7
S8 XDS8 DS8
S6 XDS6 DS6
S5 XDS5 DS5
S3
S4
E1
M1
APOLLO G&N SYSTEM
C
NO
NC
3
19 21 23
26 Ⓙ
23 4 REQ'D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14
5
HI (REF)
LO (REF)
HI (REF)
LO (REF)
3.25 REF
1
17
2 REQD 24
4 2 REQD PRESS IN SECURELY
11
18 4 REQD
8
9
10
CDU MAN
ZERO ENC
ATT CONT
COARS ALIGN
ENTRY
FINE ALIGN
MODE
TRANSFER
MANUAL
COMPUTER
IMU-CDU DIFFERENCE
MANUAL ALIGN
DEGREES
OUTER
INNER
MIDDLE
IMU CONTROL
12
13
16
2 2 REQD PRESS IN SECURELY
SHOULDER TO BE FLUSH WITH OR BELOW SURFACE OF PANEL

PARTIAL SECTION A-A

PARTIAL SECTION B-B
SCALE-2:1

Ⓖ REPLACES REV F WITH CHANGE

	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				011				
SEE NOTE 7&10				8		32	1010490-112	INSULATION-SLEEVING
				X		31	1014524	SCHEMATIC DIAGRAM
				AR		30	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
				AR		29	MIL-F-14256	FLUX (ES-2798)
							QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
SEE NOTE 7&9				33		28	1010490-82	INSULATION-SLEEVING
SEE NOTE 7&8				18		27	1010490-80	INSULATION-SLEEVING
				1		26	1014650-2	NAMEPLATE
				1		25	1006783-21	SCREW, BUTTON HD
				2		24	MS-16633-4009	RING, RETAINING, EXTERNAL
				10		23	1006783-22	SCREW, BUTTON HD
				2		21	1011918-3	WASHER-CABLE CLAMP
				1		20	1000220-6	CLAMP-CABLE
SEE NOTE 7				1		19	1000220-5	CLAMP-CABLE
				4		18	1014503	SCREW-CAPTIVE, CAP
				1		17	1014531	WIRE HARNESS
				1		16	1010475	CAP, PUSHBUTTON
				1		15	1010480-1	SWITCH, PUSH BUTTON
SEE NOTE 7				1		14	1010484-1	SWITCH, TOGGLE
				1		13	-6	
				1		12	-5	
				1		11	-4	
				1		10	-3	
				1		9	-2	
				1		8	1014651-1	CAP-ILLUMINATED, PUSH BUTTON
				6		7	1010268-2	LAMP, INCANDESCENT
SEE NOTE 7				6		6	1010627-1	SWITCH, PUSH BUTTON
				1		5	1010336	METER, ELECTRICAL INDICATING
				2		4	1014530	PIN-CONNECTOR
				1		3	1014529	PLATE-SWITCH
				2		2	1014528	PIN-PANEL
				1		1	1014527	PANEL-IMU CONTROL (SEP)

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513		

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Goschke DATE 19 JUN 63
CHECKED W. Diehl 22 JUN 63
APPROVAL D.W. Mieling 24 JUN 63
APPROVAL 24 JUN 63
7/1/63
NASA APPROVAL Jack Barnard
MIT APPROVAL 31 /63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

IMU CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E
1014526
SCALE FULL
WEIGHT
SHEET 1 OF 1

1014526

APOLLO G&N Specification
PS-1014526 J
3 January 1964
Class A Release
TDRR 05595

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
[illegible]/25/64	A	06251	3 and 4	WK.	WJR
[illegible]/24/64	B	06815	5	WK	[illegible]
[illegible]/17/64	C	06995	5	WK.	[illegible]
6/[illegible]/64	D	10152	3 and 4	WK.	[illegible]
[illegible]	E	10071	6	WAK	
Ⓜ 12/15/64	F	14809	1 thru 8 FD/au	W. K.	W. J. R.
Ⓜ 3/2/65	G	17055	1 and 3	W. K.	W. J. R.
Ⓜ 6/23/65	H	20361	6 and 7 [illegible] JH/AC	W. K.	J. B.
8/17/65	J	21600	1 JH/AC	W. K.	T. M.

This specification consists of page i to iii and 1 to 8 inclusive.

PROCUREMENT SPECIFICATION
FOR
IMU CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 This specification establishes the requirements for the procurement of the IMU Control Panel Assembly, hereafter called the panel.

1.2 CLASSIFICATION. Unless otherwise specified, all types shall meet the requirements specified herein. Special requirements for the equipment covered by this specification shall be classified as follows:

a. Type I: The special requirements for Part No. 1014526-011, 1014526-021, 1014526-031, 1014628-011, and 1015095-011 shall be designated as Type I.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

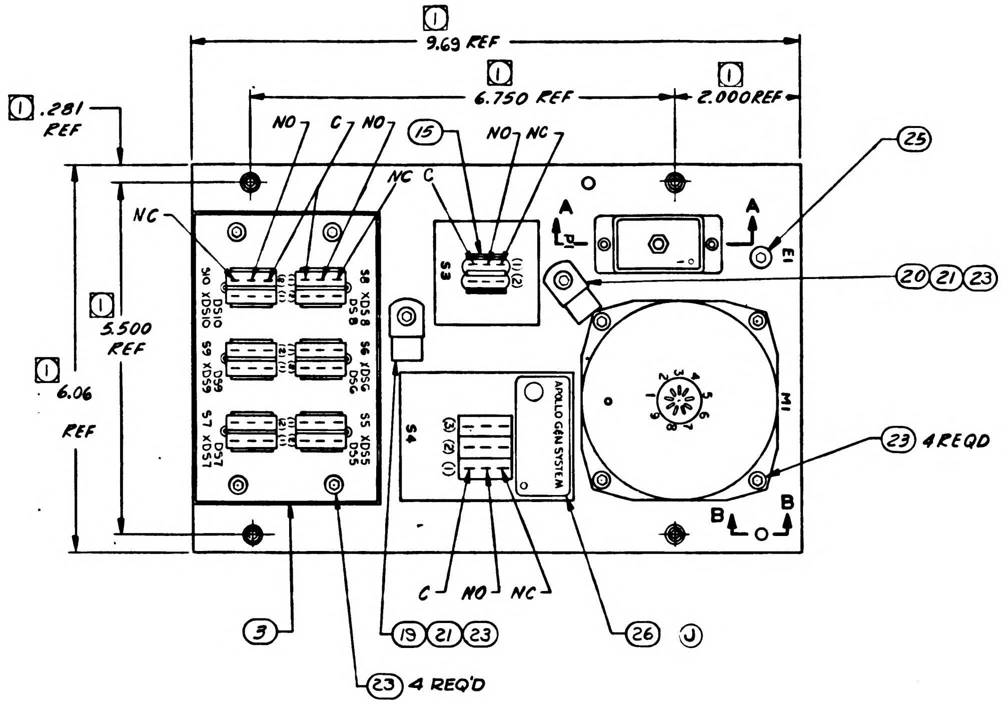
ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014526	Final Test Method for IMU Control Panel Assembly

NOTES

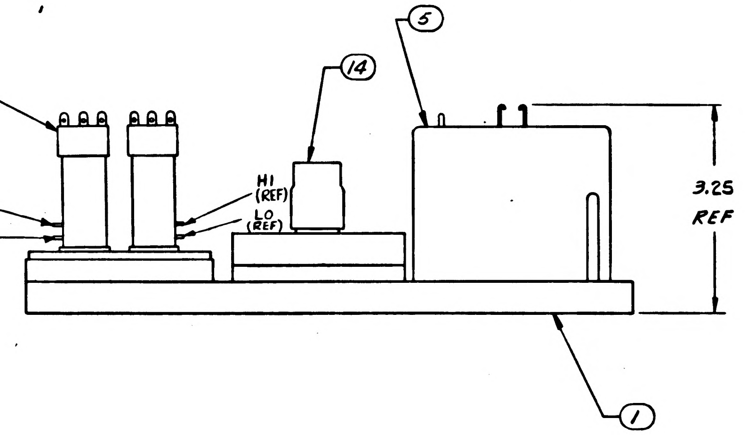
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS-1014526
4. SERIALIZE PER ND 1002023 & MARK WITH NASA P/N & REVISION LETTER.
5. SOLDER PER MIL-S-6872 (ES-2505-1 TYPE 2 FLUX) USING ITEM 29 AND ITEM 30.
6. $\boxed{1}$ DIMENSIONS CONTROLLED BY ICD MH01-01004-116.
7. VENDOR ITEM-SEE SPECIFICATION CONTROL DWG.
8.
9.
10.

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
G.		Ⓖ REPLACES REV "F" WITH FOLLOWING CHANGES: ADDED ITEMS 6, 8 THRU 13, 16, 19 THRU 22, 25 THRU 30, & PICTURE TDRR 02369		15 JULY 63	RL 7/31/63 WK
H6		REVISED PER TDRR NO. 03307		30 SEP 63	WK
J		REVISED PER TDRR NO. 04998		16 DEC 63	12/17
K		REVISED PER TDRR NO. 10366	—	15 JUL 64	JJJ AU



$\boxed{1}$ 9.69 REF
$\boxed{1}$ 6.750 REF
$\boxed{1}$ 2.000 REF
$\boxed{1}$ .281 REF
$\boxed{1}$ 5.500 REF
$\boxed{1}$ 6.06 REF
NO
C
NO
NC
NC
15
C
NO
NC
25
A
A
E1
20 21 23
S8
S4
M1
S10 XDS10 DS10
S8 XDS8 DS8
S9 XDS9 DS9
S6 XDS6 DS6
S7 XDS7 DS7
S5 XDS5 DS5
APOLLO GEN SYSTEM
23 4 REQD
B
B
C
NO
NC
3
19 21 23
26 J
23 4 REQ'D



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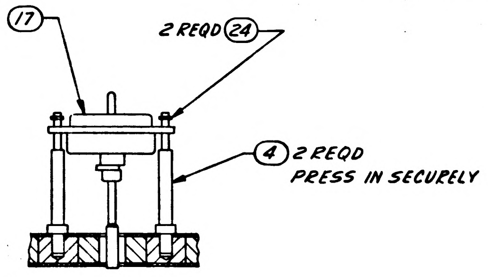
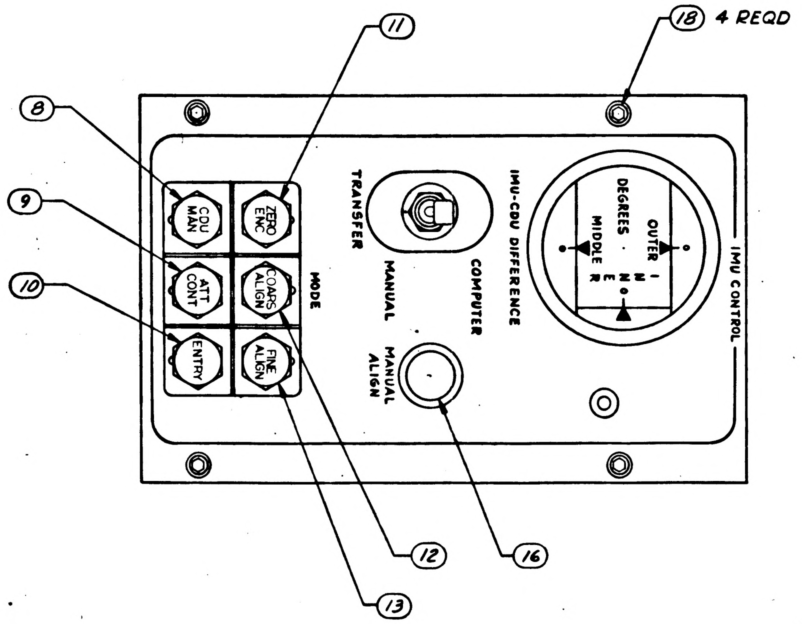
HI (REF)
LO (REF)
HI (REF)
LO (REF)
5
14
3.25 REF
1



17
2 REQD 24
4 2 REQD PRESS IN SECURELY

PARTIAL SECTION A-A



8
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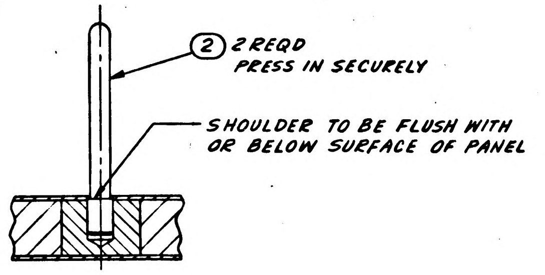
12
13
16
18 4 REQD
CDU MAN
ZERO ENC
ATT CONT
COARS ALIGN
ENTRY
FINE ALIGN
MODE
TRANSFER
COMPUTER
MANUAL
MANUAL ALIGN
IMU-CDU DIFFERENCE
IMU CONTROL
DEGREES
OUTER
INNER
MIDDLE



2 2 REQD PRESS IN SECURELY
SHOULDER TO BE FLUSH WITH OR BELOW SURFACE OF PANEL

PARTIAL SECTION B-B
SCALE-2:1

SEE NOTE 7

SEE NOTE 7

SEE NOTE 7

Ⓖ REPLACES REV F WITH CHANGE

QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
~~8~~		~~32~~	~~1010490-118~~	~~INSULATION-SLEEVING~~
X		31	1014524	SCHEMATIC DIAGRAM
AR		30	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
AR		29	MIL-F-14256	FLUX (ES-2798)
			QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
~~33~~		~~28~~	~~1010490-82~~	~~INSULATION-SLEEVING~~
~~18~~		~~27~~	~~1010490-80~~	~~INSULATION-SLEEVING~~
1		26	1014650-2	NAMEPLATE
1		25	1006783-21	SCREW, BUTTON HD
2		24	MS-16633-4009	RING, RETAINING, EXTERNAL
10		23	1006783-22	SCREW, BUTTON HD
2		21	1011918-3	WASHER-CABLE CLAMP
1		20	1000220-6	CLAMP-CABLE
1		19	1000220-5	CLAMP-CABLE
4		18	1014503	SCREW-CAPTIVE, CAP
1		17	1014531	WIRE HARNESS
1		16	1010475	CAP, PUSHBUTTON
1		15	1010480-1	SWITCH, PUSH BUTTON
1		14	1010484-1	SWITCH, TOGGLE
1		13	-6	
1		12	-5	
1		11	-4	
1		10	-3	
1		9	-2	
1		8	1014651-1	CAP-ILLUMINATED, PUSH BUTTON
6		7	1010268-2	LAMP, INCANDESCENT
6		6	1010627-1	SWITCH, PUSH BUTTON
1		5	1010336	METER, ELECTRICAL INDICATING
2		4	1014530	PIN-CONNECTOR
1		3	1014529	PLATE-SWITCH
2		2	1014528	PIN-PANEL
1		1	1014527	PANEL-IMU CONTROL (INSEP)

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
IC 14513		

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + − − −
DECIMALS + − − −
ANGLES + − − −
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Goschke DATE 19 JUN 63
CHECKED W. Diehl 22 JUN 63
APPROVAL D.W. Mieling 24 JUNE 63
APPROVAL 24 JUN 63
7/1/63
NASA APPROVAL
MIT APPROVAL 31 July 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

IMU CONTROL PANEL ASSEMBLY

CODE IDENT NO.
SIZE E
1014526
SCALE FULL
WEIGHT
SHEET 1 OF 1

K
1014526

APOLLO G&N Specification
PS-1014526 K
3 January 1964
Class A Release
TDRR 05595

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

Record of Revisions

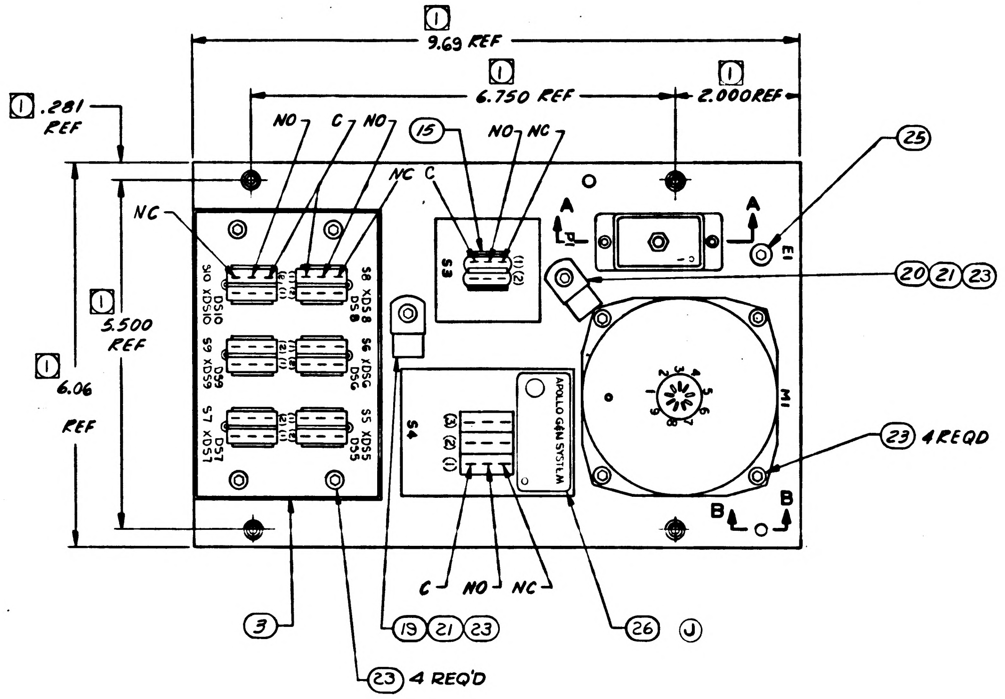
Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
2/25/64	A	06251	3 and 4	WK.	WAR
3/24/64	B	06815	5	WK	
3/17/64	C	06995	5	WK.	
6/6/64	D	10152	3 and 4	WK.	
6/9/64	E	10071	6	WAK	
Ⓜ 12/15/64	F	14809	1 thru 8 EOS/AC	W. K.	W.J.R.
Ⓜ 3/2/65	G	17055	1 and 3	W. K.	W.J.R.
Ⓜ 6/23/65	H	20361	6 and 7 JH/AC	W.K.	J. B.
Ⓜ 8/17/65	J	21600	1 JH/AC	W. K.	T. M.
2/10/66	K	26159	1 EOG/AC	W. K.	----

This specification consists of page i to iii and 1 to 8 inclusive.

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
G.		Ⓖ REPLACES REV 'F' WITH FOLLOWING CHANGES: ADDED ITEMS 6, 8 THRU 13, 16, 19 THRU 22, 25 THRU 30, & PICTURE TDRR 02369		15 JULY 63	RL 7/31/63 WK
H6		REVISED PER TDRR NO. 03307		30 SEP 63	WK
J		REVISED PER TDRR NO. 04998		16 DEC 63	
K		REVISED PER TDRR NO. 10366	—	15 JUL 64	JJJ AU
L	—	REVISED PER TDRR 10363	—	17 JUL 64	

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS-1014526
4. SERIALIZE PER ND 1002023 & MARK WITH NASA P/N & REVISION LETTER.
5. SOLDER PER MIL-S-6872 (ES-2505-1 TYPE 2 FLUX) USING ITEM 29 AND ITEM 30.
6. ⓵ DIMENSIONS CONTROLLED BY ICD MH01-01004-116.
7. VENDOR ITEM-SEE SPECIFICATION CONTROL DWG.
8.
9.
10.



⓵ .281 REF
⓵ 9.69 REF
⓵ 6.750 REF
⓵ 2.000 REF
⓵ 5.500 REF
⓵ 6.06 REF
NO C NO
NC
NC C
NO NC
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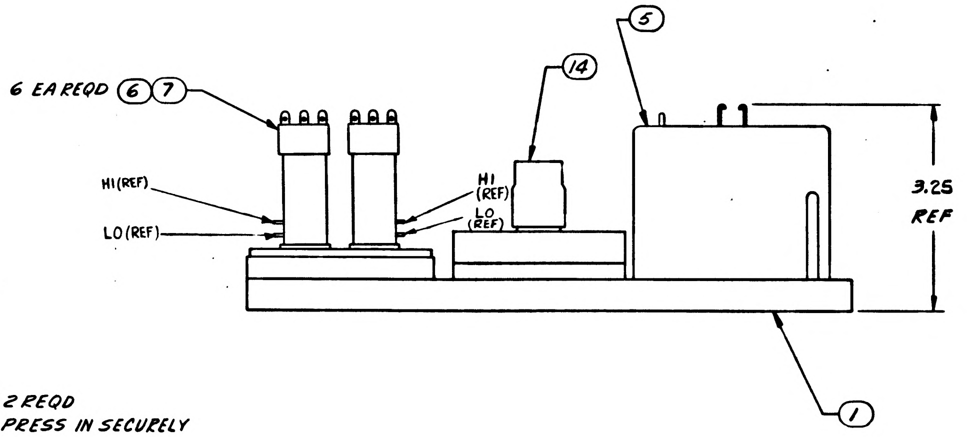
20 21 23
23 4 REQD
S10 XDS10 DS10
S8 XDS8 DS8
S9 XDS9 DS9
S6 XDS6 DS6
S7 XDS7 DS7
S5 XDS5 DS5
S3
S4
(1) (2)
(3) (2) (1)
APOLLO G&N SYSTEM
P1
E1
M1
A A
B B
C NO NC
3
19 21 23
26 J
23 4 REQ'D



6 EA REQD 6 7
14
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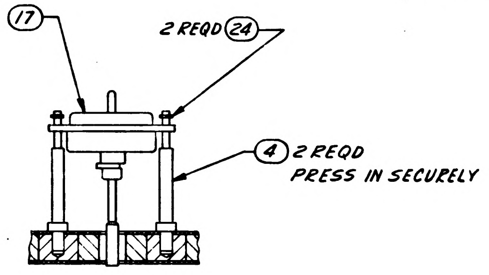
HI (REF)
LO (REF)
HI (REF)
LO (REF)
3.25 REF
1



17
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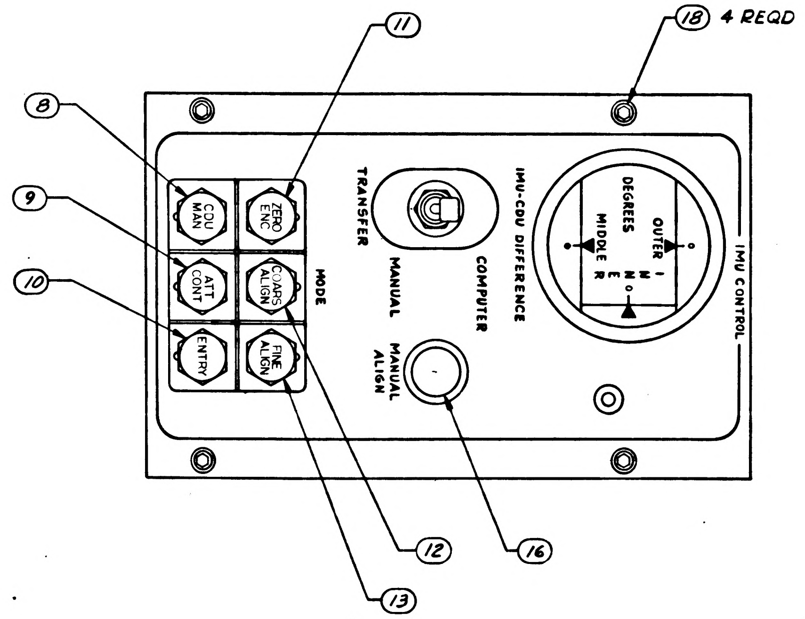
4 2 REQD PRESS IN SECURELY

PARTIAL SECTION A-A



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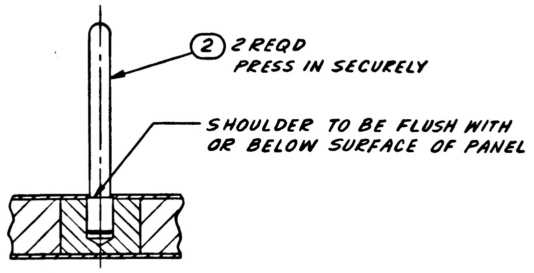
CDU MAN
ZERO ENC
ATT CONT
COARS ALIGN
ENTRY
FINE ALIGN
MODE
TRANSFER
MANUAL
COMPUTER
IMU-CDU DIFFERENCE
DEGREES
OUTER
MIDDLE
INNER
MANUAL ALIGN
IMU CONTROL



2 2 REQD PRESS IN SECURELY
SHOULDER TO BE FLUSH WITH OR BELOW SURFACE OF PANEL

PARTIAL SECTION B-B
SCALE-2:1

SEE NOTE 7

SEE NOTE 7

SEE NOTE 7

Ⓖ REPLACES REV F WITH CHANGE

QUANTITY REQUIRED							
			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			~~8~~		~~32~~	~~1010490-118~~	~~INSULATION-SLEEVING~~
			X		31	1014524	SCHEMATIC DIAGRAM
			AR		30	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
			AR		29	MIL-F-14256	FLUX (ES-2798)
						QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
			~~33~~		~~28~~	~~1010490-82~~	~~INSULATION-SLEEVING~~
			~~18~~		~~27~~	~~1010490-80~~	~~INSULATION-SLEEVING~~
			1		26	1014650-2	NAMEPLATE
			1		25	1006783-21	SCREW, BUTTON HD
			2		24	MS-16633-4009	RING, RETAINING, EXTERNAL
			10		23	1006783-22	SCREW, BUTTON HD
			2		21	1011918-3	WASHER-CABLE CLAMP
			1		20	1000220-6	CLAMP-CABLE
			1		19	1000220-5	CLAMP-CABLE
			4		18	1014503	SCREW-CAPTIVE, CAP
			1		17	1014531	WIRE HARNESS
			1		16	1010475	CAP, PUSHBUTTON
			1		15	1010480-1	SWITCH, PUSH BUTTON
			1		14	1010484-1	SWITCH, TOGGLE
			1		13	-6	
			1		12	-5	
			1		11	-4	
			1		10	-3	
			1		9	-2	
			1		8	1014651-1	CAP-ILLUMINATED, PUSH BUTTON
			6		7	1010624-2	LAMP, INCANDESCENT
			6		6	1010627-1	SWITCH, PUSH BUTTON
			1		5	1010336	METER, ELECTRICAL INDICATING
			2		4	1014530	PIN-CONNECTOR
			1		3	1014529	PLATE-SWITCH
			2		2	1014528	PIN-PANEL
			1		1	1014527	PANEL-IMU CONTROL (INSEP)

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513		

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Goschke DATE 19 JUN 63
CHECKED W. Diehl 22 JUN 63
APPROVAL D.W. Mierley 24 JUNE 63
APPROVAL 26 JUN 63
NASA APPROVAL Jack Barnard
MIT APPROVAL 31/63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

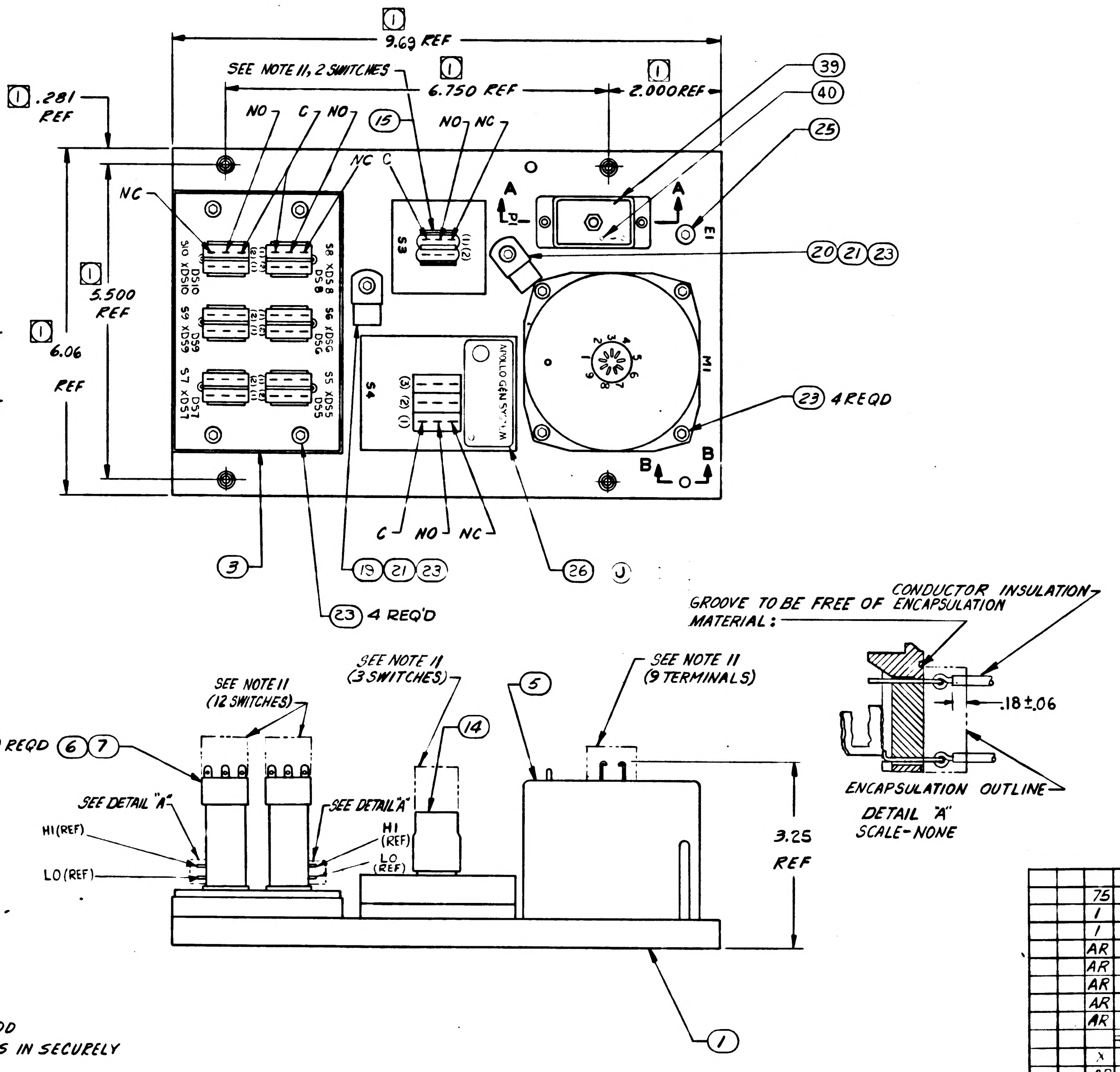
IMU CONTROL PANEL ASSEMBLY

CODE IDENT NO.
SIZE E
1014526
SCALE FULL
WEIGHT
SHEET 1 OF 1

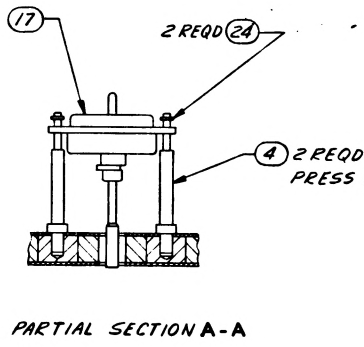
NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2
3. INSPECT PER PS-1014526
4. SERIALIZE PER ND 1002023 & MARK WITH NASA P/N & REVISION LETTER.
5. SOLDER PER MIL-S-6872 (ES-2505-1 TYPE 2 FLUX) USING ITEM 29 AND ITEM 30.
6. [1] DIMENSIONS CONTROLLED BY ICD MH01-01004-116.
7. VENDOR ITEM-SEE SPECIFICATION CONTROL DWG.
8.
9.
10
11. ENCAPSULATE THE WIRING OF 1014526-021 ASSEMBLY ACCORDING TO THE FOLLOWING:
    a. ENCAPSULATE WIRING TO SWITCHES AND TERMINALS PER ND 1002236 USING ITEMS (33) THRU (37) AS REQUIRED.
    b HEIGHTH TO BE CONTROLLED BY REQUIREMENT THAT THE INSULATION ON THE WIRE MUST BE IMBEDDED INTO THE ENCAPSULATION MATERIAL BY .18±.06. WIRES MUST BE UNIFORMLY CENTERED IN ENCAPSULING COMPOUND.
12. DO NOT USE INSULATION SLEEVING ON THE WIRE HARNESS FOR THE 1014526-021 ASSEMBLY.
13. INSTALL ITEM (40) INTO UNUSED (SPARE) HOLES OF THE ELECTRICAL CONNECTOR OF ITEM (17) PRIOR TO ENCAPSULATION.

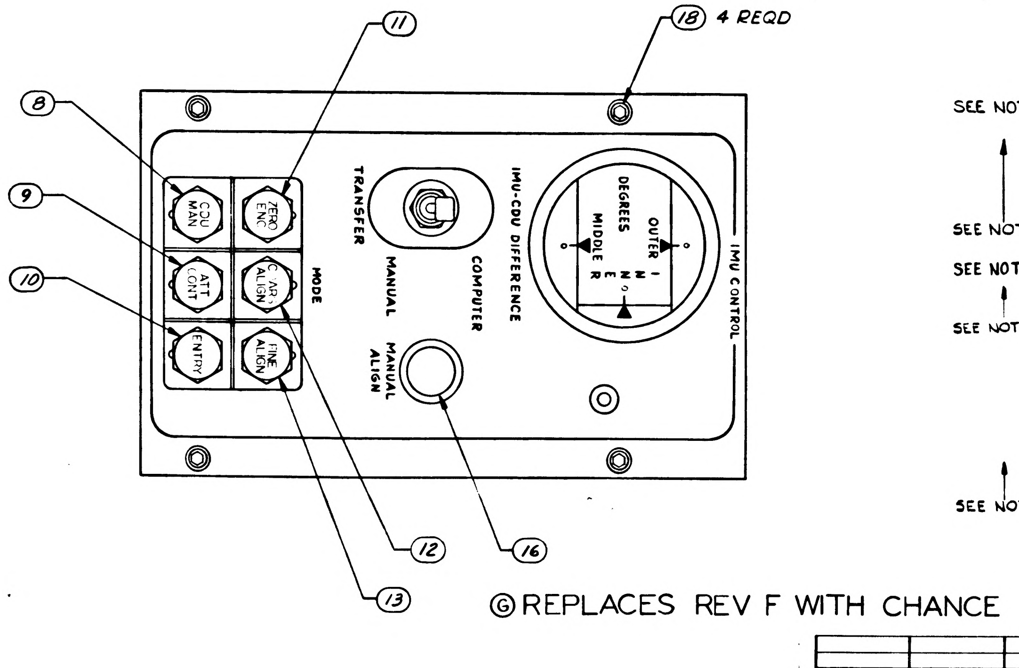
REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		Ⓖ REPLACES REV F WITH FOLLOWING CHANGES: ADDED ITEMS 6, 8 THRU 13, 16, 19 THRU 22, 25 THRU 30, & PICTURE TDRR 02369		15 JULY 63	RL
H₆		REVISED PER TDRR NO. 03307		30 SEP 63	
J		REVISED PER TDRR NO. 04998		65	
K		REVISED PER TDRR NO. 10366	—		
L	—	REVISED PER TDRR 10363	—	6	
M	—	REVISED PER TDRR 1039	—	3 VAR 65	


[1] 9.69 REF
[1] 6.750 REF
[1] 2.000 REF
[1] .281 REF
[1] 5.500 REF
[1] 6.06 REF
SEE NOTE 11, 2 SWITCHES
NO
C
NO
NC
NC
C
NO
NC
(15)
(39)
(40)
(25)
(20)(21)(23)
(23) 4 REQD
(3)
(23) 4 REQ'D
(19)(21)(23)
(26)
C
NO
NC
S3
S4
M1
E1
A
B
S10 XDS10
S9 XDS9
S7 XDS7
S8 XDS8
S6 XDS6
S5 XDS5
SEE NOTE 11 (12 SWITCHES)
SEE NOTE 11 (3 SWITCHES)
SEE NOTE 11 (9 TERMINALS)
6 EA REQD (6)(7)
(14)
(5)
SEE DETAIL "A"
SEE DETAIL "A"
HI (REF)
LO (REF)
HI (REF)
LO (REF)
3.25 REF
(1)
GROOVE TO BE FREE OF ENCAPSULATION MATERIAL:
CONDUCTOR INSULATION
.18±.06
ENCAPSULATION OUTLINE

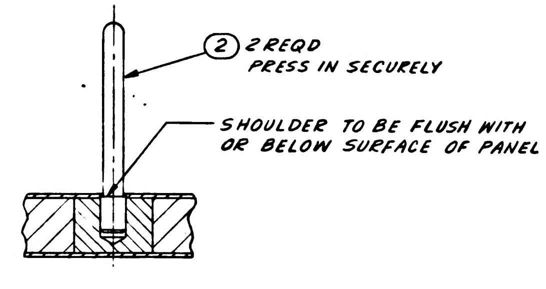
DETAIL "A"
SCALE-NONE


(17)
2 REQD (24)
(4) 2 REQD
PRESS IN SECURELY

PARTIAL SECTION A-A


(8)
(9)
(10)
(11)
(12)
(13)
(16)
(18) 4 REQD
CDU MAN
ZERO ENC
ATT CONT
C. AR ALIGN
ENTRY
FINE ALIGN
MODE
TRANSFER
MANUAL
COMPUTER
IMU-CDU DIFFERENCE
DEGREES
OUTER
INNER
MIDDLE
IMU CONTROL
MANUAL ALIGN

Ⓖ REPLACES REV F WITH CHANCE


(2) 2 REQD
PRESS IN SECURELY
SHOULDER TO BE FLUSH WITH OR BELOW SURFACE OF PANEL

PARTIAL SECTION B-B
SCALE-2:1

			QUANTITY REQUIRED 021	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				-				
			75	-		40	1010738-1	PINS, MALE
			1	-		39	1010812-3	GASKET
			1	-		38	1014650-23	NAMEPLATE
			AR	-		37	TT-M-261	METHY-ETHYL-KETONE
			AR	-		36	1012504-2	PRIMER, METAL
			AR	-		35	1012504-1	PRIMER, METAL
			AR	-		34	1012503-2	COMPOUND POLYURETHANE
			AR	-		33	1012503-1	COMPOUND POLYURETHANE
				~~8~~		~~32~~	~~1010490-118~~	~~INSULATION-SLEEVING~~
			X	X		31	1014524	SCHEMATIC DIAGRAM
			AR	AR		30	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
			AR	AR		29	MIL-F-14256	FLUX (ES-2798)
							QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
				~~33~~		~~28~~	~~1010490-82~~	~~INSULATION-SLEEVING~~
				~~18~~		~~27~~	~~1010490-80~~	~~INSULATION-SLEEVING~~
			—	1		26	1014650-2	NAMEPLATE
SEE NOTE 7			1	1		25	1006783-21	SCREW, BUTTON HD
			2	2		24	MS-16633-4009	RING, RETAINING, EXTERNAL
			10	10		23	1006783-22	SCREW, BUTTON HD
			2	2		21	1011918-3	WASHER-CABLE CLAMP
			1	1		20	1000220-6	CLAMP-CABLE
SEE NOTE 7			1	1		19	1000220-5	CLAMP-CABLE
			4	4		18	1014503	SCREW-CAPTIVE, CAP
SEE NOTE 12			1	1		17	1014531	WIRE HARNESS
			1	1		16	1010475	CAP, PUSHBUTTON
			1	1		15	1010480-1	SWITCH, PUSH BUTTON
SEE NOTE 7			1	1		14	1010484-1	SWITCH, TOGGLE
			1	1		13	-6	
			1	1		12	-5	
			1	1		11	-4	
			1	1		10	-3	
			1	1		9	-2	
			1	1		8	1014651-1	CAP-ILLUMINATED, PUSH BUTTON
			6	6		7	1010624-2	LAMP, INCANDESCENT
			6	6		6	1010627-1	SWITCH, PUSH BUTTON
SEE NOTE 7			1	1		5	1010336	METER, ELECTRICAL INDICATING
			2	2		4	1014530	PIN-CONNECTOR
			1	1		3	1014529	PLATE-SWITCH
			2	2		2	1014528	PIN-PANEL
			1	1		1	1014527	PANEL-IMU CONTROL [illegible]

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
14513		
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Daschke DATE 19 JUN 63
CHECKED W. Tiehl 22 JUN 63
APPROVAL D W Mieling 24 JUNE 63
APPROVAL 24 JUN 63
NASA APPROVAL Jack Barnard
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

IMU CONTROL PANEL ASSEMBLY

CODE IDENT NO
SIZE E
1014526
SCALE FULL
WEIGHT
SHEET

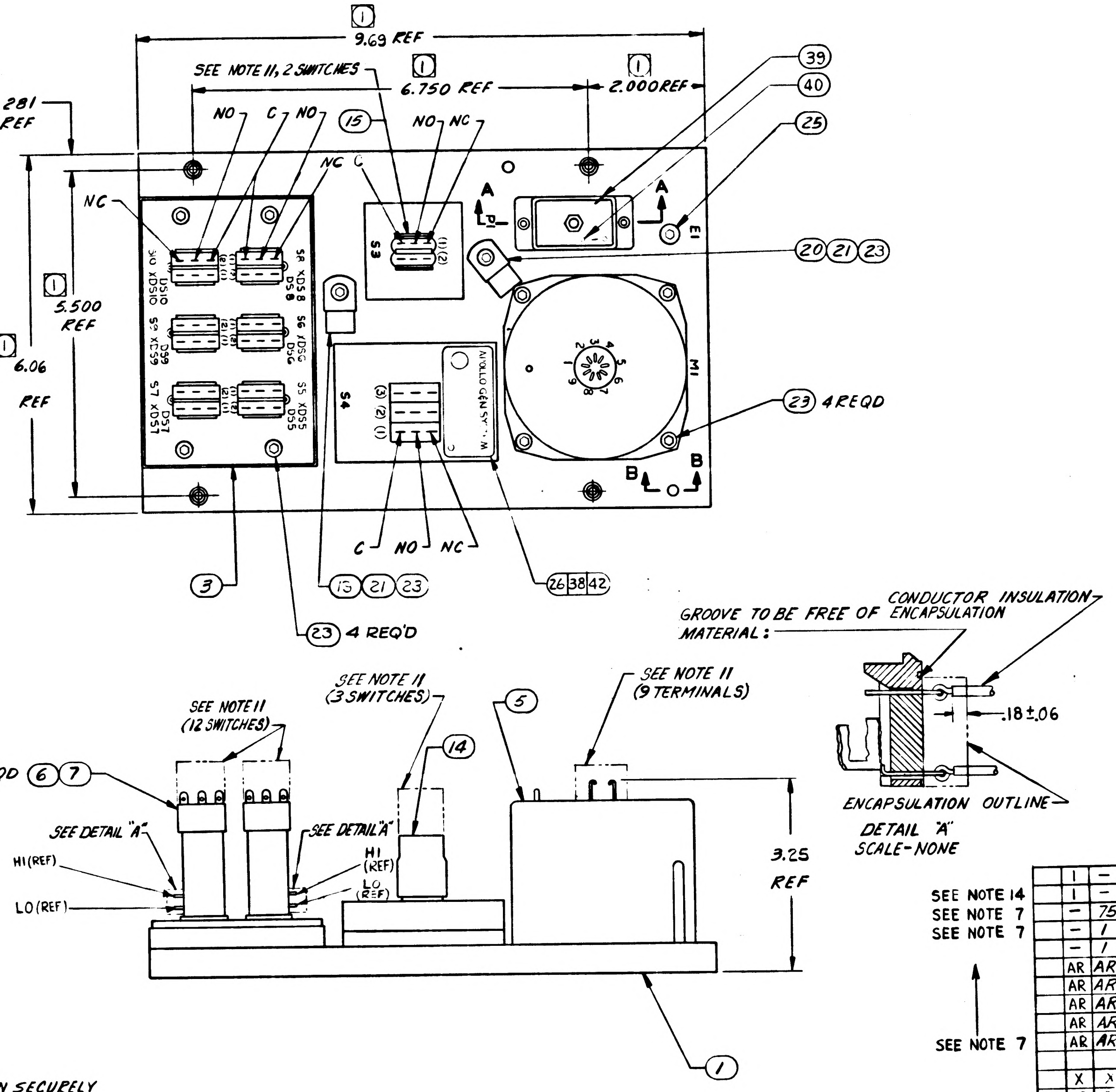
M
1014526

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2
3. INSPECT PER PS-1014526
4. SERIALIZE PER ND1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1 TYPE 2 FLUX) USING ITEM 29 AND ITEM 30.
6. ① DIMENSIONS CONTROLLED BY ICD MH01-01004-116.
7. VENDOR ITEM-SEE SPECIFICATION CONTROL DWG.
8
9
10
11. ENCAPSULATE THE WIRING OF 1014526-021 AND 1014526-031 ASSEMBLIES ACCORDING TO THE FOLLOWING:
    a. ENCAPSULATE WIRING TO SWITCHES AND TERMINALS PER ND1002236 USING ITEMS (33) THRU (37) AS REQUIRED.
    b. HEIGHTH TO BE CONTROLLED BY REQUIREMENT THAT THE INSULATION ON THE WIRE MUST BE IMBEDDED INTO THE ENCAPSULATION MATERIAL BY .18±.06. WIRES MUST BE UNIFORMLY CENTERED IN ENCAPSULING COMPOUND.
12. DO NOT USE INSULATION SLEEVING ON THE WIRE HARNESS FOR THE 1014526-021 ASSEMBLY.
13. INSTALL ITEM (40) INTO UNUSED (SPARE) HOLES OF THE ELECTRICAL CONNECTOR OF ITEM (17) PRIOR TO ENCAPSULATION.
14. CHANGE CONNECTOR KEYING OF ITEM (41) FROM "V" TO "N" FOR 1014526-031 CONFIGURATION ASSEMBLIES.

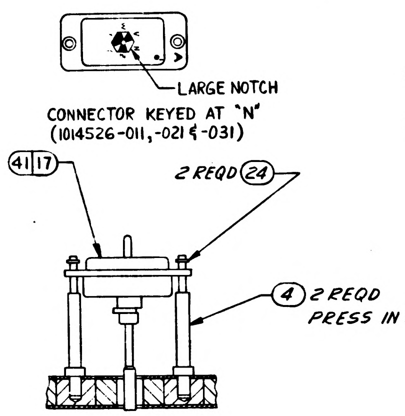
REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		Ⓖ REPLACES REV F WITH FOLLOWING CHANGES: ADDED ITEMS 6, 8 THRU 13, 16, 19 THRU 22, 25 THRU 30, & PICTURE TDRR 02369		15 JULY 63	TRL
H6		REVISED PER TDRR NO 03307		30 SEP 63	
J		REVISED PER TDRR NO. 04998		63	
K		REVISED PER TDRR NO. 10366	—	[illegible]	
L	—	REVISED PER TDRR 0363	—	65	
M	—	REVISED PER TDRR 7039	—	65	
N		REVISED PER TDRR 2 050	—	65	



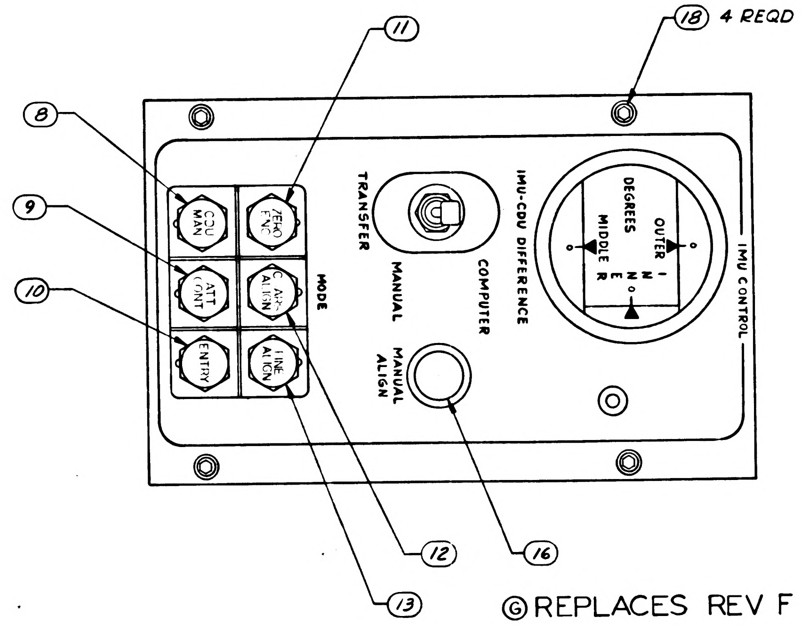
9.69 REF
① .281 REF
SEE NOTE 11, 2 SWITCHES
6.750 REF
2.000 REF
① 5.500 REF
① 6.06 REF
NO
C
NC
(15)
(39)
(40)
(25)
(20)(21)(23)
(23) 4 REQD
(3)
(13)(21)(23)
(23) 4 REQ'D
(26)(38)(42)
S3
S4
S5 XDS5 DS5
S6 XDS6 DS6
S7 XDS7 DS7
S8 XDS8 DS8
S9 XDS9 DS9
S10 XDS10 DS10
P1
E1
M1
A
B
APOLLO GEN SYSTEM
6 EA REQD (6)(7)
SEE NOTE 11 (12 SWITCHES)
SEE NOTE 11 (3 SWITCHES)
SEE NOTE 11 (9 TERMINALS)
SEE DETAIL "A"
HI (REF)
LO (REF)
(14)
(5)
(1)
3.25 REF
GROOVE TO BE FREE OF ENCAPSULATION MATERIAL:
CONDUCTOR INSULATION
.18±.06
ENCAPSULATION OUTLINE

DETAIL "A"
SCALE-NONE

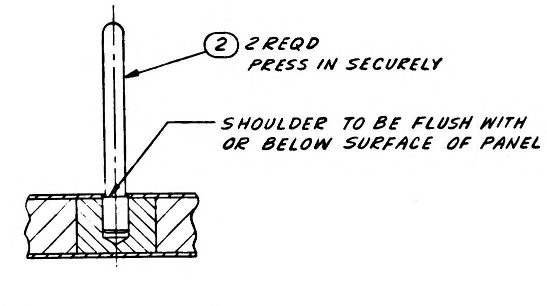


LARGE NOTCH
CONNECTOR KEYED AT "N" (1014526-011, -021 & -031)
(41)(17)
2 REQD (24)
(4) 2 REQD PRESS IN SECURELY

PARTIAL SECTION A-A



(8)
(9)
(10)
(11)
(12)
(13)
(16)
(18) 4 REQD
CDU MAN
ZERO ENC
ATT CONT
C. AXIS ALIGN
ENTRY
FINE ALIGN
MODE
TRANSFER
MANUAL
COMPUTER
IMU-CDU DIFFERENCE
DEGREES
OUTER
INNER
MIDDLE
MANUAL ALIGN
IMU CONTROL



(2) 2 REQD PRESS IN SECURELY
SHOULDER TO BE FLUSH WITH OR BELOW SURFACE OF PANEL

PARTIAL SECTION B-B
SCALE 2:1

Ⓖ REPLACES REV F WITH CHANCE

		031	021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
		1	—	—		42	1014650-25	NAMEPLATE
SEE NOTE 14		1	—	—		41	1015035	WIRE HARNESS
SEE NOTE 7		—	75	—		40	1010738-1	PINS, MALE
SEE NOTE 7		—	1	—		39	1010812-3	GASKET
		—	1	—		38	1014650-23	NAMEPLATE
		AR	AR	—		37	TT-M-261	METHY-ETHYL-KETONE
		AR	AR	—		36	1012504-2	PRIMER, METAL
		AR	AR	—		35	1012504-1	PRIMER, METAL
		AR	AR	—		34	1012503-2	COMPOUND POLYURETHANE
SEE NOTE 7		AR	AR	—		33	1012503-1	COMPOUND POLYURETHANE
				~~8~~		~~32~~	~~1010490-112~~	~~INSULATION-SLEEVING~~
		X	X	X		31	1014524	SCHEMATIC DIAGRAM
		AR	A	AR		30	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
		AR	AR	AR		29	MIL-F-14256	FLUX (ES-2798)
							QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
				~~33~~		~~28~~	~~1010490-82~~	~~INSULATION-SLEEVING~~
				~~18~~		~~27~~	~~1010490-80~~	~~INSULATION-SLEEVING~~
		—	—	1		26	1014650-2	NAMEPLATE
SEE NOTE 7		1	1	1		25	1006783-21	SCREW, BUTTON HD
		2	2	2		24	MS-16633-4009	RING, RETAINING, EXTERNAL
		10	10	10		23	1006783-22	SCREW, BUTTON HD
		2	2	2		21	1011918-3	WASHER-CABLE CLAMP
		1	1	1		20	1000220-6	CLAMP-CABLE
SEE NOTE 7		1	1	1		19	1000220-5	CLAMP-CABLE
		4	4	4		18	1014503	SCREW-CAPTIVE, CAP
SEE NOTE 12		—	1	1		17	1014531	WIRE HARNESS
		1	1	1		16	1010475-1	CAP, PUSHBUTTON
		1	1	1		15	1010480-1	SWITCH, PUSH BUTTON
SEE NOTE 7		1	1	1		14	1010484-1	SWITCH, TOGGLE
		1	1	1		13	-6	
		1	1	1		12	-5	
		1	1	1		11	-4	
		1	1	1		10	-3	
		1	1	1		9	-2	
		1	1	1		8	1014651-1	CAP-ILLUMINATED, PUSH BUTTON
	Ⓛ	6	6	6		7	1010624-2	LAMP, INCANDESCENT
		6	6	6		6	1010627-1	SWITCH, PUSH BUTTON
SEE NOTE 7		1	1	1		5	1010336	METER, ELECTRICAL INDICATING
		2	2	2		4	1014530	PIN-CONNECTOR
		1	1	1		3	1014529	PLATE-SWITCH
		2	2	2		2	1014528	PIN-PANEL
		1	1	1		1	1014527	PANEL-IMU CONTROL

QUANTITY REQUIRED
LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Deschke 19 JUN 63
CHECKED W. Diehl 22 JUN 63
APPROVAL D.W. Mielling 24 JUNE 63
APPROVAL A. Rodel 24 JUN 63
NASA APPROVAL Jack Lawrence
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

IMU CONTROL PANEL
ASSEMBLY

CODE IDENT NO
SIZE E
1014526
SCALE FULL
WEIGHT
SHEET

APOLLO G&N Specification
PS-1014526
3 January 1964
Class A Release
TDRR 05595

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page i
to iii and 1 to 7 inclusive.

Apollo G&N Specification
PS-1014526
3 January 1964

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the IMU Control Panel Assembly for use in APOLLO G&N equipment.

3 Jan 64	
MIT/IL	DATE
1/3/64	
NASA/MSC APPROVAL	DATE

APOLLO G&N Specification
PS-1014526
3 January 1964

PROCUREMENT SPECIFICATION

FOR

IMU CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 This specification establishes the requirements for the procurement of the IMU Control Panel Assembly, Drawing 1014526, hereafter called the panel.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014526	Final Test Method for IMU Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

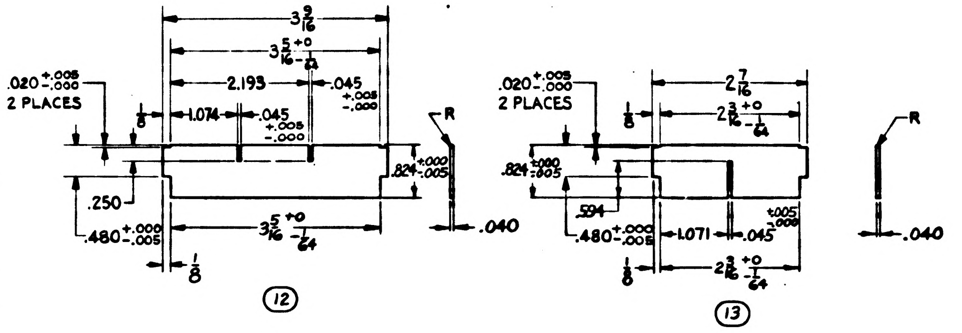
DRAWINGS

APOLLO G&N

1014524	IMU Control Panel Schematic Diagram (For Reference Only)
1014526	IMU Control Panel Assembly

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
F		UPGRADED FOR CLASS A RELEASE TDRR 01127		26 MAY 63	

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.



3 9/16
3 5/16 +0 −1/64
2.193
.045
.020 +.005 −.000 2 PLACES
1.074
.045 +.005 −.000
R
.824 +.000 −.005
.250
.480 +.000 −.005
3 5/16 +0 −1/64
1/8
.040
⑫
2 7/16
2 3/16 +0 −1/64
.020 +.005 −.000 2 PLACES
.594
1.071
.045 +.005 −.000
2 3/16 +0 −1/64
⑬

▷ MATERIAL:

ITEMS 1, 3, 5, 7 & 15: HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.

ITEMS 2, 6 & 16: .020 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104).

ITEMS 4 & 8: .032 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104).

ITEMS 9, 10, 11 & 17: AL ALY PER QQ-A-268, TEMPER T-4 (TY 2024-T4). (ES-2104)

ITEMS 12 & 13: .040 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104).

ADHESIVE:

ADHESIVE FOR METALLIC SANDWICH CONSTRUCTION IS TO BE PER MIL-A-25463 (ASG), TYPE II, CLASS 2.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND 1002178 USING EPOXY PUTTY PER ND 1002177

FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591).

APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589)

APPLY ND 1002125 LUSTERLESS ENAMEL, COLOR NO. 36231 OF FED. STD. 595, TO FRONT AND OUTER EDGES OF PANEL, ALSO TO INNER EDGES OF OPENINGS IN PANEL PER ND 1002110.

UNLESS OTHERWISE SPECIFIED:

ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 125√.
ALL EDGES ON SURFACE "U" MUST BE .030 TO .040R.

MUST BE FREE FROM BURRS.

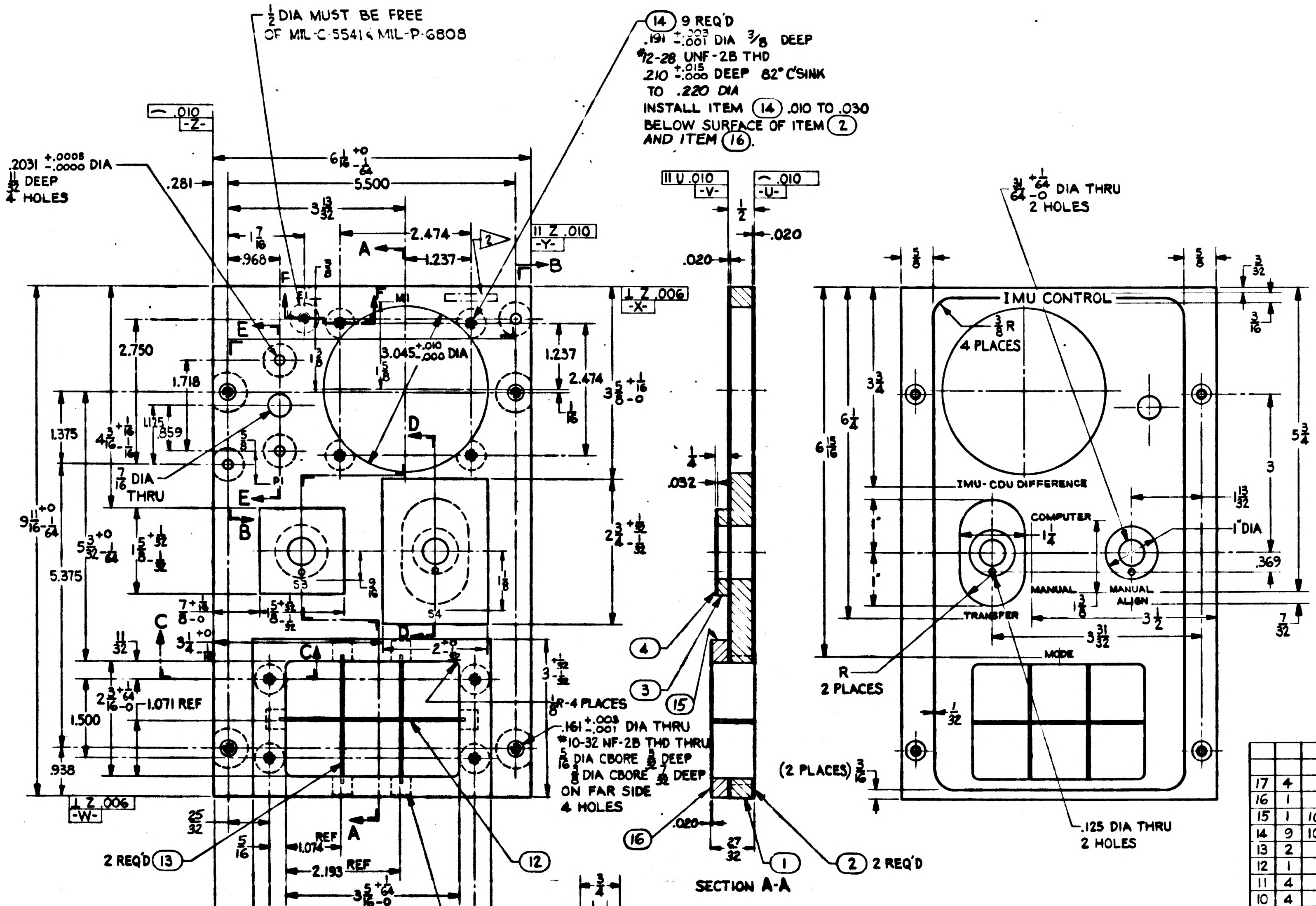
2▷ MARKING:

CHARACTERS AND BORDER LINE ON FRONT OF PANEL TO BE SILK SCREENED PER ND 1002112 USING ND 1002111 LUSTERLESS ENAMEL, COLOR NO. 37875 OF FED. STD. 595. CHARACTERS 1/8 HIGH FUTURA DEMI BOLD PER ND 1002122. CENTRALIZE AS SHOWN.

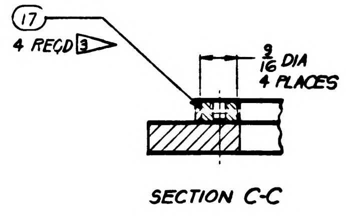
CHARACTERS ON REAR OF PANEL, EXCEPT PIECEMARK NO., TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND 1002019. COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

IDENTIFY USING NO 1014527 AND REVISION LETTER. TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER MIL-STD-130 (ES-267) COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

3▷ TOLERANCE FOR LOCATION OF ITEMS ⑨ ⑩ ⑪ & ⑰ IS +1/32 −1/32. HOLE LOCATIONS SHALL BE AS SPECIFIED.

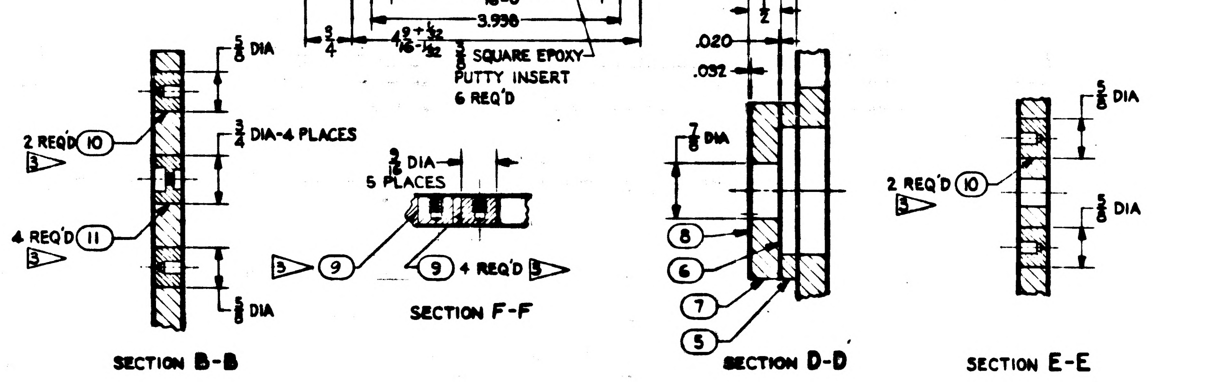


1/2 DIA MUST BE FREE OF MIL-C-5541 & MIL-P-6808
⑭ 9 REQ'D
.191 +.003 −.001 DIA 3/8 DEEP
#12-28 UNF-2B THD
.210 +.015 −.000 DEEP 82° C'SINK
TO .220 DIA
INSTALL ITEM ⑭ .010 TO .030 BELOW SURFACE OF ITEM ② AND ITEM ⑯.
.2031 +.0005 −.0000 DIA
11/32 DEEP
4 HOLES
.010 -Z-
.281
6 1/16 +0 −1/64
5.500
3 13/32
1 7/16
.968
2.474
1.237
A
B
.010 -Y-
.006 -X-
.010 -V-
.010 -U-
1/2
.020
.020
E
F
3/8
3.045 +.010 −.000 DIA
1 5/8
1.237
2.474
2.750
1.718
1 3/8
3 5/8 +1/16 −0
1/16
1.125
.859
1.375
4 3/16 +1/16 −1/16
5/8
7/16 DIA THRU
P1
D
E
B
9 11/16 −1/64
5.375
5 3/32 +0 −1/64
1 5/32
53
54
2 3/8 +1/32 −1/32
1 1/8
9/16
7 +1/8 −0
5 +1/8
3 1/4 +0
11/32
C
C
2 1/4 +1/16 −0
1.071 REF
1.500
.938
R-4 PLACES
.161 +.003 −.001 DIA THRU
10-32 NF-2B THD THRU
5/16 DIA CBORE 1/8 DEEP
5/8 DIA CBORE 1/32 DEEP
ON FAR SIDE
4 HOLES
.006 -W-
25/32
5/16
1.074 REF
2.193 REF
3 5/16 +1/64
3.938
4 9/16 +1/32 −1/32
3/4
A
3/8 SQUARE EPOXY-PUTTY INSERT 6 REQ'D
2 REQ'D ⑬
⑫
1/4
.032
④
③
⑮
⑯
.020
27/32
①
② 2 REQ'D
(2 PLACES) 5/8
SECTION A-A
31/64 +1/64 −0 DIA THRU 2 HOLES
5/8
5/8
3/32
3/16
IMU CONTROL
3/8 R 4 PLACES
3 3/4
6 1/4
6 15/16
5 3/4
3
1 13/32
1" DIA
.369
IMU-CDU DIFFERENCE
COMPUTER
1 1/4
MANUAL
MANUAL ALIGN
TRANSFER
1 5/8
3 1/2
3 31/32
7/32
MODE
R 2 PLACES
1/32
.125 DIA THRU 2 HOLES



⑰ 4 REQ'D 3▷
9/16 DIA 4 PLACES

SECTION C-C



5/8 DIA
2 REQ'D ⑩ 3▷
3/4 DIA-4 PLACES
4 REQ'D ⑪ 3▷
5/8 DIA
SECTION B-B
3/8 DIA 5 PLACES
3▷ ⑨
⑨ 4 REQ'D 3▷
SECTION F-F
3/4
1/2
.020
.032
7/8 DIA
⑧
⑥
⑦
⑤
SECTION D-D
5/8 DIA
2 REQ'D ⑩ 3▷
5/8 DIA
SECTION E-E

ITEM NO.	NO. REQ'D	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
17	4	-16	INSERT - CORE
16	1	-15	FACE - PAD
15	1	1014527 -14	CORE - PAD
14	9	1000115 - 3	INSERT - THREADED, SELF-LOCKING
13	2	-13	
12	1	-12	STRIP - BARRIER
11	4	-11	
10	4	-10	
9	5	-9	INSERT - CORE
8	1	-8	FACE -
7	1	-7	CORE -
6	1	-6	FACE -
5	1	-5	CORE -
4	1	-4	FACE -
3	1	-3	CORE - PAD
2	2	-2	FACE - PANEL
1	1	1014527 - 1	CORE - HONEYCOMB, PANEL

LIST OF PARTS OR MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ 1/64	+.005	+ 2°
− 1/64	−.005	− 2°

DO NOT SCALE THIS DRAWING
MATERIAL 1▷
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 22 FEB '63
CHECKED MAJKOWSKI 14 MAR 63
APPROVAL Earl Scholl 14 MAR 63
APPROVAL 14 MAR 63
NASA APPROVAL 6-19-67
MIT APPROVAL 19 Jul 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL - IMU CONTROL
(INSEPARABLE)

CODE IDENT NO
SIZE E
1014527
SCALE 1:1
SHEET

F 1014527

INCHES
PHOTOGRAPHIC SCALE ONLY

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
F		UPGRADED FOR CLASS A RELEASE TDRR 01627		28 MAY 63	WJ
G 12		REVISED PER TDRR NO. 03308		4 OCT 63	WC

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

1▷ MATERIAL:

ITEMS 1, 3, 5, 7 & 15: HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.
ITEMS 2, 6 & 16: .020 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104).
ITEMS 4 & 8: .032 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104).
ITEMS 9, 10, 11, 17 & 18: AL ALY PER QQ-A-268, TEMPER T-4 (TY 2024-T4). (ES-2104)
ITEMS 12 & 13: .040 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104).

ADHESIVE:

ADHESIVE FOR METALLIC SANDWICH CONSTRUCTION IS TO BE PER MIL-A-25463 (ASG), TYPE II, CLASS 2.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND 1002178 USING EPOXY PUTTY PER ND 1002177

FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591).

APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589)

APPLY ND 1002113 LUSTERLESS ENAMEL, COLOR NO. 36231 OF FED. STD. 595, TO FRONT AND OUTER EDGES OF PANEL, ALSO TO INNER EDGES OF OPENINGS IN PANEL PER ND 1002110.

UNLESS OTHERWISE SPECIFIED:

ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 125√.
ALL EDGES ON SURFACE "U" MUST BE .030 TO .040R.

MUST BE FREE FROM BURRS.

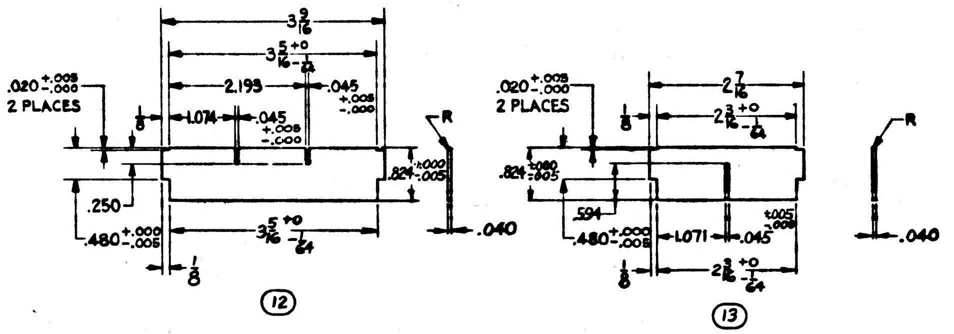
2▷ MARKING:

CHARACTERS AND BORDER LINE ON FRONT OF PANEL TO BE SILK SCREENED PER ND 1002112 USING ND 1002111 LUSTERLESS ENAMEL, COLOR NO. 37875 OF FED. STD. 595. CHARACTERS 1/8 HIGH FUTURA DEMI BOLD PER ND 1002122. CENTRALIZE AS SHOWN.

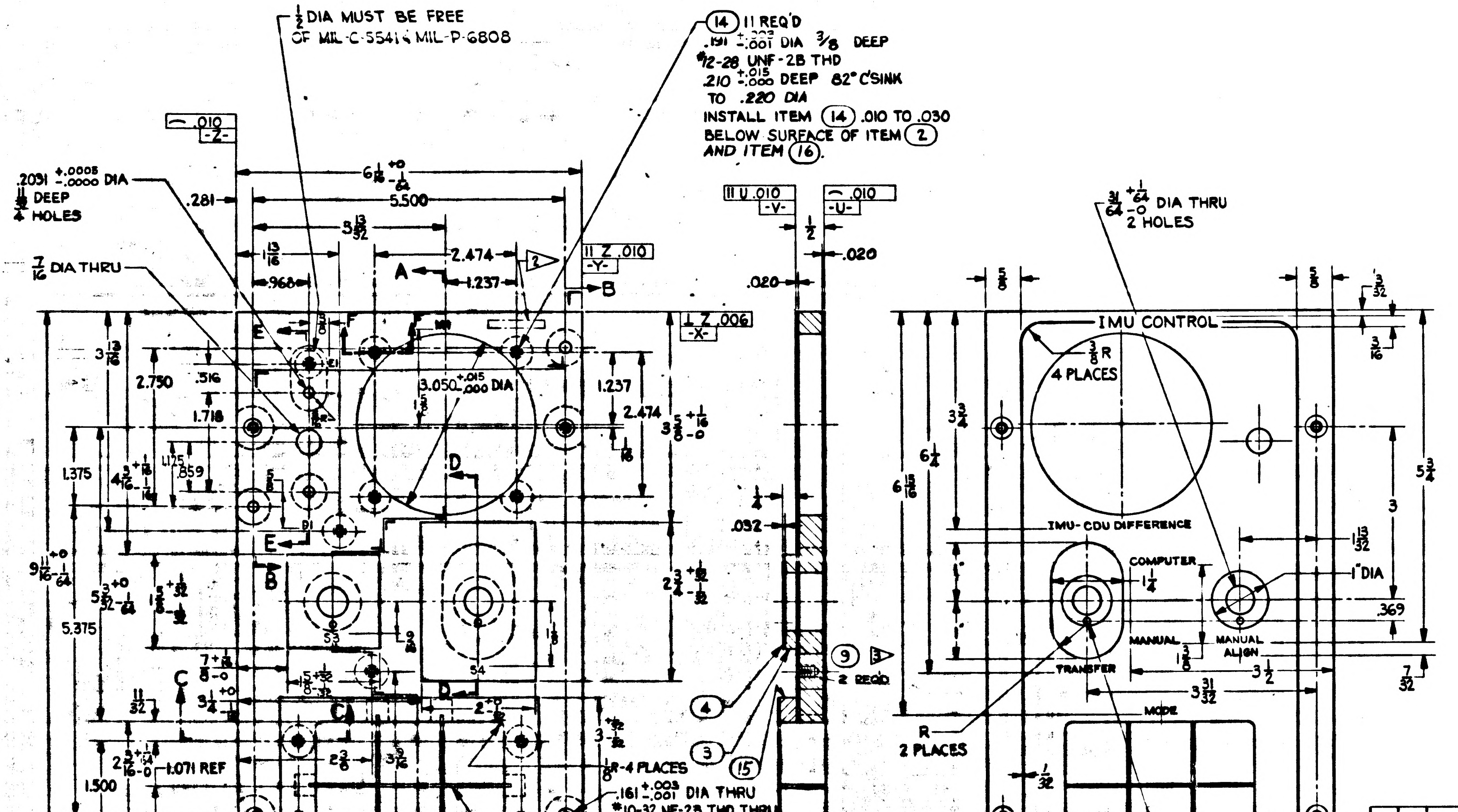
CHARACTERS ON REAR OF PANEL, EXCEPT PIECEMARK NO., TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND 1002019. COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

IDENTIFY USING № 1014527 AND REVISION LETTER. TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER MIL-STD-130 (ES-267) COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

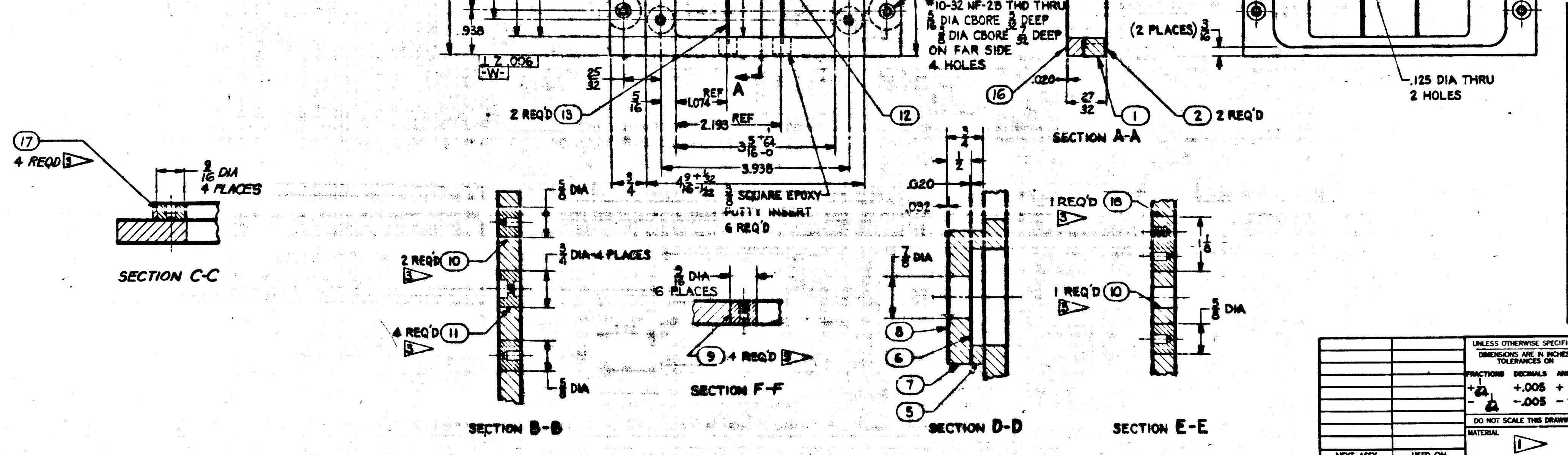
3▷ TOLERANCE FOR LOCATION OF ITEMS ⑨ ⑩ ⑪ ⑰ & ⑱ IS +1/32 -1/32. HOLE LOCATIONS SHALL BE AS SPECIFIED.



.020 +.005 -.000 2 PLACES
3 3/16
3 5/16 +0 -1/64
2.193
.045 +.005 -.000
1.074
.250
.480 +.000 -.005
.824 +.000 -.005
R
.040
1/8
⑫
2 7/16
2 3/16 +0 -1/64
.594
1.071
⑬



1/2 DIA MUST BE FREE OF MIL-C-5541 & MIL-P-6808
⑭ 11 REQ'D
.191 +.003 -.001 DIA 3/8 DEEP
#12-28 UNF-2B THD
.210 +.015 -.000 DEEP 82° C'SINK
TO .220 DIA
INSTALL ITEM ⑭ .010 TO .030
BELOW SURFACE OF ITEM ②
AND ITEM ⑯.
.2031 +.0005 -.0000 DIA
11/16 DEEP
4 HOLES
7/16 DIA THRU
6 1/16 +0 -1/64
5.500
5 13/32
2.474
1.237
3.050 +.015 -.000 DIA
2.750
1.718
1.375
5.375
9 11/16 +0 -1/64
.968
.281
A
B
C
D
E
-X-
-Y-
-Z-
-U-
-V-
.020
.032
31/64 +1/64 -0 DIA THRU 2 HOLES
IMU CONTROL
3/8 R 4 PLACES
IMU-CDU DIFFERENCE
COMPUTER
MANUAL
MANUAL ALIGN
TRANSFER
MODE
1" DIA
.369
5 3/4
6 1/4
6 15/16
3 3/4
R- 2 PLACES
⑨ 2 REQ'D
④
③
⑮



1/8 R-4 PLACES
.161 +.003 -.001 DIA THRU
#10-32 NF-2B THD THRU
5/16 DIA CBORE 5/32 DEEP
3/8 DIA CBORE 7/32 DEEP
ON FAR SIDE
4 HOLES
1.071 REF
1.500
.938
-W-
2 REQ'D ⑬
⑫
⑯
.020
27/32
①
② 2 REQ'D
SECTION A-A
(2 PLACES) 3/16
.125 DIA THRU 2 HOLES
3.938
2.193 REF
1.074
3/4 SQUARE EPOXY PUTTY INSERT 6 REQ'D
⑰ 4 REQ'D
9/16 DIA 4 PLACES
SECTION C-C
5/8 DIA
3/4 DIA-4 PLACES
2 REQ'D ⑩
4 REQ'D ⑪
5/8 DIA
SECTION B-B
3/8 DIA 6 PLACES
⑨ 4 REQ'D
SECTION F-F
7/8 DIA
⑧
⑥
⑦
⑤
SECTION D-D
1 REQ'D ⑱
1 REQ'D ⑩
5/8 DIA
SECTION E-E

ITEM NO.	NO. REQ'D	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
18	1	-17	INSERT-CORE
17	4	-16	INSERT-CORE
16	1	-15	FACE-PAD
15	1	1014527-14	CORE-PAD
14	11	1000115-3	INSERT-THREADED, SELF-LOCKING
13	2	-13	
12	1	-12	STRIP-BARRIER
11	4	-11	
10	3	-10	
9	6	-9	INSERT-CORE
8	1	-8	FACE-
7	1	-7	CORE-
6	1	-6	FACE-
5	1	-5	CORE-
4	1	-4	FACE-
3	1	-3	CORE-PAD
2	2	-2	FACE-PANEL
1	1	1014527-1	CORE-HONEYCOMB, PANEL

LIST OF PARTS OR MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+2°
-1/64	-.005	-2°

DO NOT SCALE THIS DRAWING

MATERIAL 1▷

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 22 FEB 63
CHECKED MALIKOWSKI 14 MAR 63
APPROVAL Earl Scholl 14 MAR 63
APPROVAL 14 MAR 63
NASA APPROVAL 6-19-63
MIT APPROVAL 19 Jun 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL-IMU CONTROL
(INSEPARABLE)

CODE IDENT NO.
SIZE E
1014527
SCALE 1:1
SHEET 1 OF 1

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
F		UPGRADED FOR CLASS A RELEASE TDRR 01627		20 MAY 63	
G		REVISED PER TDRR NO. 03308		4 OCT 63	
H		REVISED PER TDRR NO. 04067		28 OCT 63	

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

1 MATERIAL:

ITEMS 1, 3, 5, 7 & 15: HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.

ITEMS 2, 6 & 16: .020 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104). 1

ITEMS 4 & 8: .032 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104). 1

ITEMS 9, 10, 11, 17 & 18: AL ALY PER QQ-A-268, TEMPER T-4 (TY 2024-T4). (ES-2104) 1 (H6)

ITEMS 12 & 13: .040 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104). 1

ADHESIVE:

ADHESIVE FOR METALLIC SANDWICH CONSTRUCTION IS TO BE PER MIL-A-25463 (ASG), TYPE II, CLASS 2.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND 1002178 USING EPOXY PUTTY PER ND 1002177

FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591). 1 (H7)

APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589)

(H4) APPLY TT-E-527 LUSTERLESS ENAMEL, COLOR NO. 36231 OF FED. STD. 595, TO FRONT AND OUTER EDGES OF PANEL, ALSO TO INNER EDGES OF OPENINGS IN PANEL PER ND 1002110. 2

UNLESS OTHERWISE SPECIFIED:

ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 125/√.
ALL EDGES ON SURFACE "U" MUST BE .030 TO .040R.

MUST BE FREE FROM BURRS.

2 MARKING:

CHARACTERS AND BORDER LINE ON FRONT OF PANEL TO BE SILK SCREENED PER ND 1002112 USING ND 1002111 LUSTERLESS ENAMEL, COLOR NO. 37875 OF FED. STD. 595. CHARACTERS 1/8 HIGH FUTURA DEMI BOLD PER ND 1002122. CENTRALIZE AS SHOWN.

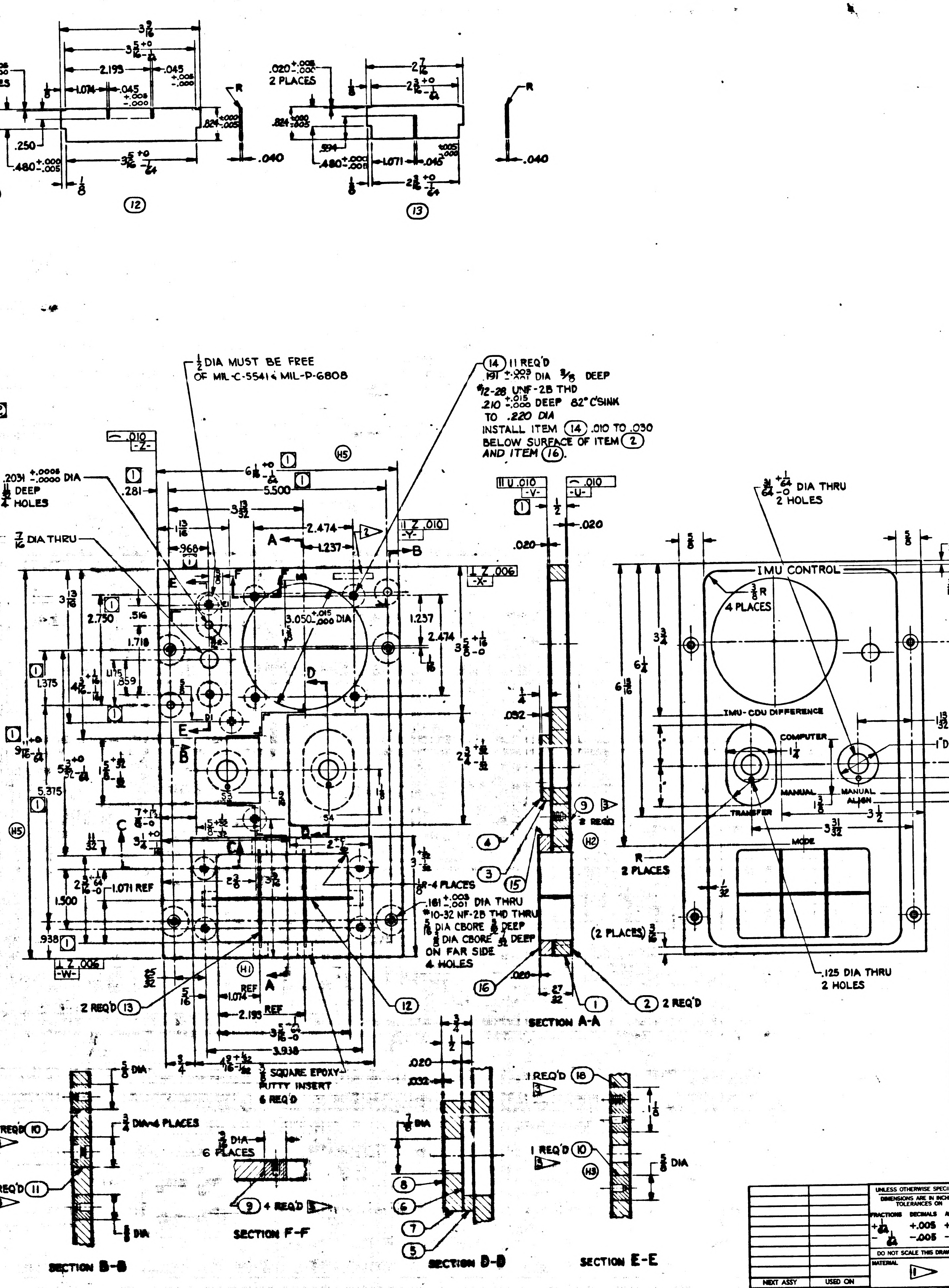
CHARACTERS ON REAR OF PANEL, EXCEPT PIECEMARK NO., TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND 1002019. COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

IDENTIFY USING No 1014527 AND REVISION LETTER. TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER MIL-STD-130 (ES-2611) COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

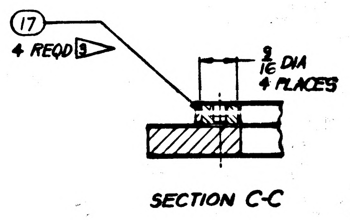
3 TOLERANCE FOR LOCATION OF ITEMS ⑨ ⑩ ⑪ ⑰ & ⑱ IS +1/32 -1/64. ~~HOLE LOCATIONS SHALL BE AS SPECIFIED.~~

1 CONTROLLED BY ICD MH01-01004-116. (H8)

2 CONTROLLED BY ICD MH01-01046-416.



⑫
⑬
.020 +.005 -.000 2 PLACES
.040
R
1/2 DIA MUST BE FREE OF MIL-C-5541 & MIL-P-6808
⑭ 11 REQ'D .191 +.003 -.001 DIA 3/16 DEEP #12-28 UNF-2B THD .210 +.015 -.000 DEEP 82° CSINK TO .220 DIA INSTALL ITEM ⑭ .010 TO .030 BELOW SURFACE OF ITEM ② AND ITEM ⑯.
.2031 +.0005 -.0000 DIA 11/32 DEEP 4 HOLES
7/16 DIA THRU
3.050 +.015 -.000 DIA
(H5)
R-4 PLACES .161 +.003 -.001 DIA THRU #10-32 NF-2B THD THRU 5/16 DIA CBORE 1/8 DEEP 3/8 DIA CBORE 1/8 DEEP ON FAR SIDE 4 HOLES
1.071 REF
2 REQ'D ⑬
⑫
3/8 SQUARE EPOXY-PUTTY INSERT 6 REQ'D
SECTION A-A
② 2 REQ'D
③ ④ ⑮ ⑯ ①
⑨ 3 2 REQ'D
(2 PLACES)
IMU CONTROL
3/8 R 4 PLACES
IMU-CDU DIFFERENCE
COMPUTER
MANUAL
MANUAL ALIGN
TRANSFER
MODE
R 2 PLACES
33/64 +1/64 -0 DIA THRU 2 HOLES
.125 DIA THRU 2 HOLES
1 DIA
2 REQ'D ⑩
4 REQ'D ⑪
SECTION B-B
6 PLACES
⑨ 4 REQ'D 3
SECTION F-F
1 REQ'D ⑱
1 REQ'D ⑩
⑧ ⑥ ⑦ ⑤
SECTION D-D
SECTION E-E
(H1) (H2) (H3)



⑰
4 REQ'D 3
9/16 DIA 4 PLACES

SECTION C-C

18	1	-17	INSERT-CORE
17	4	-16	INSERT-CORE
16	1	-15	FACE-PAD
15	1	1014527-14	CORE-PAD
14	11	1000115-3	INSERT-THREADED, SELF-LOCKING
13	2	-13	
12	1	-12	STRIP-BARRIER
11	4	-11	
10	3	-10	
9	6	-9	INSERT-CORE
8	1	-8	FACE-
7	1	-7	CORE-
6	1	-6	FACE-
5	1	-5	CORE-
4	1	-4	FACE-
3	1	-3	CORE-PAD
2	2	-2	FACE-PANEL
1	1	1014527-1	CORE-HONEYCOMB, PANEL
ITEM NO.	NO. REQ'D	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
LIST OF PARTS OR MATERIALS			

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +1/64 -1/64
DECIMALS +.005 -.005
ANGLES +2° -2°
DO NOT SCALE THIS DRAWING
MATERIAL 1
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 22 FEB 63
CHECKED MALIKOWSKI 14 MAR 63
APPROVAL Earl Scholl 14 MAR 63
APPROVAL 14 MAR 63
NASA APPROVAL 6-19-63
MIT APPROVAL 19 Jun 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL-IMU CONTROL
(INSEPARABLE)

CODE IDENT NO.
SIZE E
1014527
SCALE 1:1
SHEET 1 OF 1

1014527

INCHES
PHOTOGRAPHIC SCALE ONLY

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

1 MATERIAL:

ITEMS 1, 3, 5, 7 & 15: HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.

ITEMS 2, 6 & 16: .020 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104). 1

ITEMS 4 & 8: .032 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104). 1

ITEMS 9, 10, 11, 17 & 18: AL ALY PER QQ-A-268, TEMPER T-4 (TY 2024-T4). (ES-2104) 1

ITEMS 12 & 13: .040 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104). 1

(H6)

ADHESIVE:

ADHESIVE FOR METALLIC SANDWICH CONSTRUCTION IS TO BE PER MIL-A-25463 (ASG), TYPE II, CLASS 2.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND 1002178 USING EPOXY PUTTY PER ND 1002177

FINISH: CHEMICAL FILM ~~PER~~ MIL-C-5541 (ES-591). 1 (H7)

~~APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589)~~

(H4) APPLY TT-E-527 LUSTERLESS ENAMEL, COLOR NO. 36231 OF FED. STD. 595, TO FRONT AND OUTER EDGES OF PANEL, ALSO TO INNER EDGES OF OPENINGS IN PANEL PER ND 1002110. 2

UNLESS OTHERWISE SPECIFIED:

ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.

SURFACE ROUGHNESS MUST NOT EXCEED 125√.

ALL EDGES ON SURFACE "U" MUST BE .030 TO .040 R.

MUST BE FREE FROM BURRS.

2 MARKING:

CHARACTERS AND BORDER LINE ON FRONT OF PANEL TO BE SILK SCREENED PER ND 1002112 USING ND 1002111 LUSTERLESS ENAMEL, COLOR NO. 37875 OF FED. STD. 595. CHARACTERS 1/8 HIGH FUTURA DEMI BOLD PER ND 1002122. CENTRALIZE AS SHOWN.

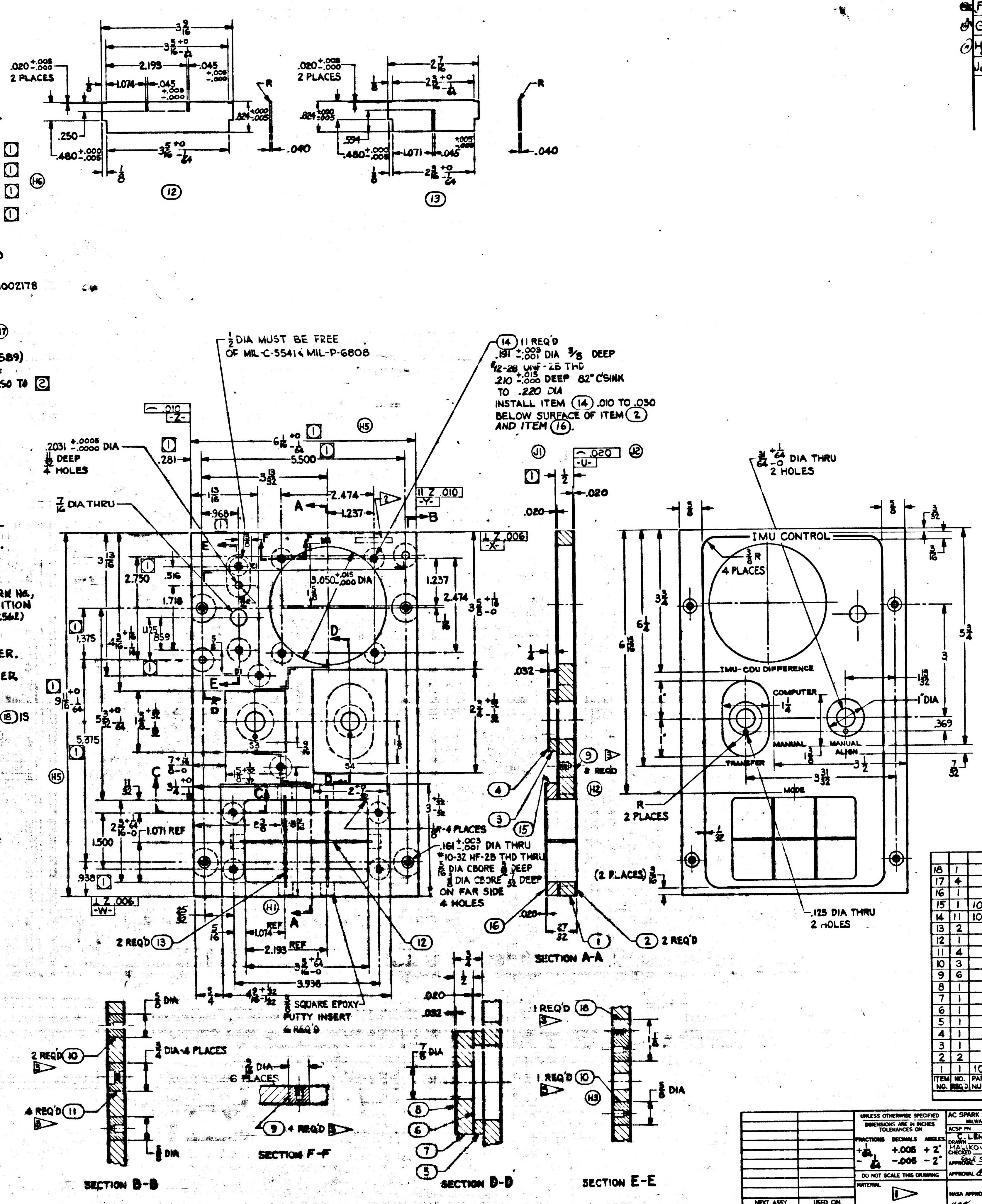
CHARACTERS ON REAR OF PANEL, EXCEPT PIECEMARK NO., TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND 1002019. COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

IDENTIFY USING NO 1014527 AND REVISION LETTER. TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER MIL-STD-130 (ES-267) COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

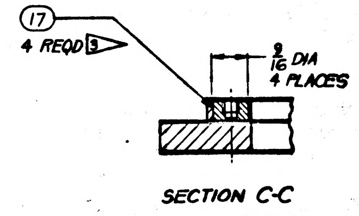
3 TOLERANCE FOR LOCATION ~~OF~~ ITEMS ⑨ ⑩ ⑪ ⑰ & ⑱ IS +1/32 -1/32. ~~HOLE LOCATIONS SHALL BE AS SPECIFIED.~~

1 CONTROLLED BY ICD MH01-01004-116. (H8)

2 CONTROLLED BY ICD MH01-01046-416.



⑫
⑬
.020 +.005 -.000 2 PLACES
.250
.480 +.000 -.005
.040
R
(H5)
(J1)
(J2)
(H1)
(H2)
(H3)
1/2 DIA MUST BE FREE OF MIL-C-5541 & MIL-P-6808
⑭ 11 REQ'D .191 +.003 -.001 DIA 3/8 DEEP 12-28 UNF-2B THD .210 +.015 -.000 DEEP 82° C'SINK TO .220 DIA
INSTALL ITEM ⑭ .010 TO .030 BELOW SURFACE OF ITEM ② AND ITEM ⑯.
.2031 +.0005 -.0000 DIA 11/32 DEEP 4 HOLES
7/16 DIA THRU
3.050 +.010 -.000 DIA
5.500
6 1/16
2.474
1.237
3.938
2.193
1.014
1.071 REF
1.375
1.500
2.750
5.375
.938
.281
.516
1.718
.859
.968
A
B
C
D
E
F
-X-
-Y-
-Z-
-U-
-W-
.161 +.003 -.001 DIA THRU *10-32 NF-2B THD THRU 5/16 DIA CBORE 1/8 DEEP 3/8 DIA CBORE 1/8 DEEP ON FAR SIDE 4 HOLES
4 PLACES
5/16 SQUARE EPOXY PUTTY INSERT 6 REQ'D
2 REQ'D ⑬
⑫
⑯
①
② 2 REQ'D
③
④
⑮
⑨ 3 2 REQ'D
(2 PLACES)
SECTION A-A
IMU CONTROL
3/8 R 4 PLACES
IMU-CDU DIFFERENCE
COMPUTER
MANUAL ALIGN
TRANSFER
MODE
1" DIA
31/64 +1/64 -0 DIA THRU 2 HOLES
.125 DIA THRU 2 HOLES
R 2 PLACES
.369
5/16 DIA
3/4 DIA-4 PLACES
2 REQ'D ⑩ 3
4 REQ'D ⑪
5/8 DIA
SECTION B-B
6 PLACES
⑨ 4 REQ'D 3
SECTION F-F
7/8 DIA
⑧
⑥
⑦
⑤
SECTION D-D
1 REQ'D ⑱ 3
1 REQ'D ⑩ 3
5/8 DIA
SECTION E-E



⑰
4 REQ'D 3
9/16 DIA 4 PLACES

SECTION C-C

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
F		UPGRADED FOR CLASS A RELEASE TDRR 01627		26 MAY 63	WK
G12		REVISED PER TDRR NO. 03308		4 OCT 63	WK
H8		REVISED PER TDRR NO. 04067		28 OCT 63	WK
J2		REVISED PER TDRR NO. 04801		25 NOV 63	WK

ITEM NO.	NO. REQ'D	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
18	1	-17	INSERT-CORE
17	4	-16	INSERT-CORE
16	1	-15	FACE-PAD
15	1	1014527-14	CORE-PAD
14	11	1000115-3	INSERT-THREADED, SELF-LOCKING
13	2	-13	
12	1	-12	STRIP-BARRIER
11	4	-11	
10	3	-10	
9	6	-9	INSERT-CORE
8	1	-8	FACE-
7	1	-7	CORE-
6	1	-6	FACE-
5	1	-5	CORE-
4	1	-4	FACE-
3	1	-3	CORE-PAD
2	2	-2	FACE-PANEL
1	1	1014527-1	CORE-HONEYCOMB, PANEL

LIST OF PARTS OR MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±1/64 DECIMALS +.005 -.005 ANGLES +2° -2°
DO NOT SCALE THIS DRAWING
MATERIAL 1
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 22 FEB 63
CHECKED MALIKOWSKI 14 MAR 63
APPROVAL Earl Scholl 14 MAR 63
APPROVAL 14 MAR 63
NASA APPROVAL 6-19-63
MIT APPROVAL 19 Jul 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL-IMU CONTROL
(INSEPARABLE)

CODE IDENT NO. | SIZE E | 1014527
SCALE 1:1 | SHEET 1 OF 1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

1 MATERIAL:
ITEMS 1, 3, 5, 7 & 15: HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.
ITEMS 2, 6 & 16: .020 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104). 1
ITEMS 4 & 8: .032 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104). 1
ITEMS 9, 10, 11, 17 & 18: AL ALY PER QQ-A-268, TEMPER T-4 (TY 2024-T4). (ES-2104) 1
ITEMS 12 & 13: .040 THK AL ALY PER QQ-A-355, TEMPER T-3 (TY 2024-T3) (ES-2104). 1

(H6)

ADHESIVE:
ADHESIVE FOR METALLIC SANDWICH CONSTRUCTION IS TO BE PER MIL-A-25463 (ASG), TYPE II, CLASS 2.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND 1002178 USING EPOXY PUTTY PER ND 1002177

FINISH: CHEMICAL FILM PER MIL-C-5541 (ES-591). 1 (H7)

APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589)

(H4) APPLY TT-E-527 LUSTERLESS ENAMEL, COLOR NO. 36231 OF FED. STD. 595, TO FRONT AND OUTER EDGES OF PANEL, ALSO TO INNER EDGES OF OPENINGS IN PANEL PER ND 1002110. 2

UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 125/.
ALL EDGES ON SURFACE "U" MUST BE .030 TO .040R.

MUST BE FREE FROM BURRS.

2 MARKING:
CHARACTERS AND BORDER LINE ON FRONT OF PANEL TO BE SILK SCREENED PER ~~ND 1002112~~ USING ND 1002111 LUSTERLESS ENAMEL, COLOR NO. 37875 OF FED. STD. 595. CHARACTERS 1/8 HIGH FUTURA DEMI BOLD PER ND 1002122. CENTRALIZE AS SHOWN.

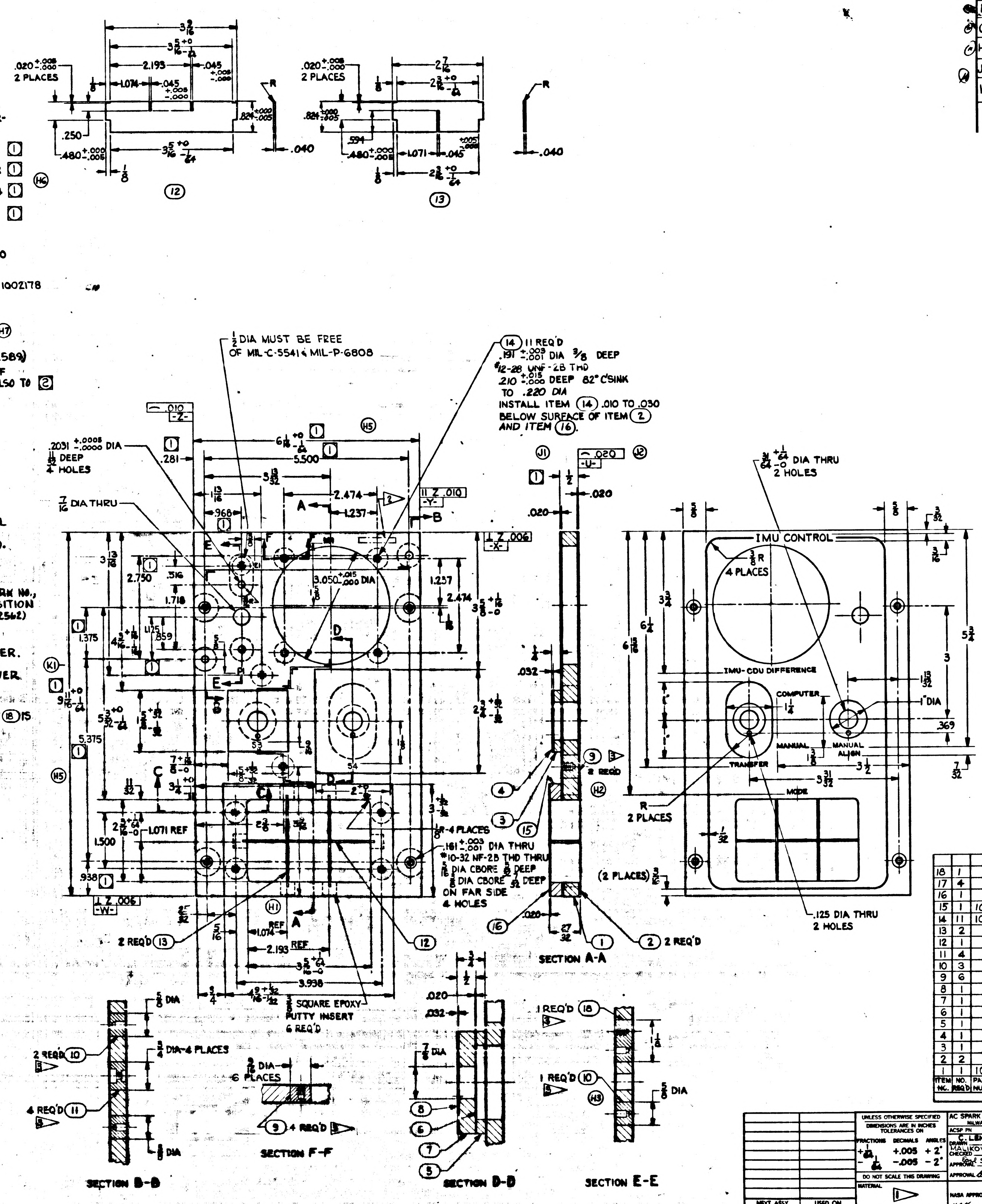
CHARACTERS ON REAR OF PANEL, EXCEPT PIECEMARK NO., TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND 1002019. COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

IDENTIFY USING NO 1014527 AND REVISION LETTER. TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER MIL-STD-130 (ES-267) COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

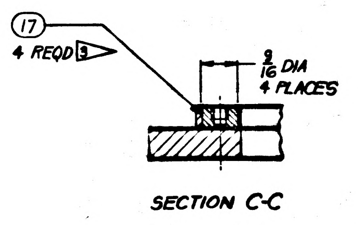
3 TOLERANCE FOR LOCATION ~~OF~~ ITEMS ⑨ ⑩ ⑪ ⑰ & ⑱ IS +1/32 -1/32. ~~HOLE LOCATIONS SHALL BE~~ AS SPECIFIED.

1 CONTROLLED BY ICD MH01-01004-116.
2 CONTROLLED BY ICD MH01-01046-416. (H8)

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
F		UPGRADED FOR CLASS A RELEASE TDRR 01627		20 MAY 63	
G		REVISED PER TDRR NO. 03308		4 OCT 63	
H		REVISED PER TDRR NO. 04067		28 OCT 63	
J		REVISED PER TDRR NO. 04801		25 NOV 63	
K		REVISED PER TDRR NO. 06544			



⑫
⑬
.020 +.008 -.000 2 PLACES
3 9/16
3 5/16 +0 -1/64
2.193
1.074
.045
.250
.480 +.000 -.005
.824 +.000 -.005
.040
2 7/16
2 3/16 +0 -1/64
.594
1.071
R
1/2 DIA MUST BE FREE OF MIL-C-5541 & MIL-P-6808
⑭ 11 REQ'D .191 +.003 -.001 DIA 3/8 DEEP
#12-28 UNF-2B THD .210 +.015 -.000 DEEP 82° C'SINK TO .220 DIA
INSTALL ITEM ⑭ .010 TO .030 BELOW SURFACE OF ITEM ② AND ITEM ⑯.
.2031 +.0005 -.0000 DIA 11/32 DEEP 4 HOLES
7/16 DIA THRU
6 1/8 +0 -1/64
5.500
2.474
1.237
3.050 +.015 -.000 DIA
IMU CONTROL
3/8 R 4 PLACES
IMU-CDU DIFFERENCE
COMPUTER
1" DIA
MANUAL
MANUAL ALIGN
TRANSFER
MODE
R 2 PLACES
3/64 +1/64 -0 DIA THRU 2 HOLES
.125 DIA THRU 2 HOLES
.161 +.003 -.001 DIA THRU #10-32 NF-2B THD THRU 3/8 DIA CBORE 3/8 DEEP 3/8 DIA CBORE 5/32 DEEP ON FAR SIDE 4 HOLES
1/8 R-4 PLACES
3/8 SQUARE EPOXY-PUTTY INSERT 6 REQ'D
2 REQ'D ⑬
2 REQ'D
⑫
3.938
SECTION A-A
(2 PLACES)
2 REQ'D
⑮ ③ ④ ⑨ ⑯ ① ②
SECTION B-B
2 REQ'D ⑩
4 REQ'D ⑪
5/8 DIA
3/4 DIA-4 PLACES
SECTION F-F
3/8 DIA-6 PLACES
⑨ 4 REQ'D
SECTION D-D
⑧ ⑥ ⑦ ⑤
SECTION E-E
1 REQ'D ⑱
1 REQ'D ⑩
5/8 DIA



⑰ 4 REQ'D
9/16 DIA 4 PLACES

SECTION C-C

ITEM NO.	NO. REQ'D	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
18	1	-17	INSERT-CORE
17	4	-16	INSERT-CORE
16	1	-15	FACE-PAD
15	1	1014527-14	CORE-PAD
14	11	1000115-3	INSERT-THREADED, SELF-LOCKING
13	2	-13	
12	1	-12	STRIP-BARRIER
11	4	-11	
10	3	-10	
9	6	-9	INSERT-CORE
8	1	-8	FACE-
7	1	-7	CORE-
6	1	-6	FACE-
5	1	-5	CORE-
4	1	-4	FACE-
3	1	-3	CORE-PAD
2	2	-2	FACE-PANEL
1	1	1014527-1	CORE-HONEYCOMB, PANEL

LIST OF PARTS OR MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +1/64 -1/64 DECIMALS +.005 -.005 ANGLES +2° -2°
DO NOT SCALE THIS DRAWING
MATERIAL 1
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 22 FEB '63
CHECKED MALIKOWSKI 14 MAR 63
APPROVAL Earl Scholl 14 MAR 63
APPROVAL 14 MAR 63
NASA APPROVAL 6-12-67
MIT APPROVAL 19 Jul 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL-IMU CONTROL
(INSEPARABLE)

CODE IDENT NO.
SIZE E
1014527
SCALE 1:1
SHEET 1 OF 1

K 1014527

PHOTOGRAPHIC SCALE ONLY
INCHES

D 1014529

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
D		UPGRADED FOR CLASS A RELEASE TDRR 01627		6-11 63	E.L.

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

UNLESS OTHERWISE SPECIFIED:

SURFACE ROUGHNESS MUST NOT EXCEED 125/

ALL CORNERS MUST BE .005 TO .015 RADIUS OR CHAMFER

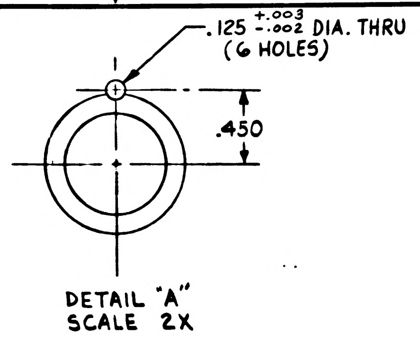
1 IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).

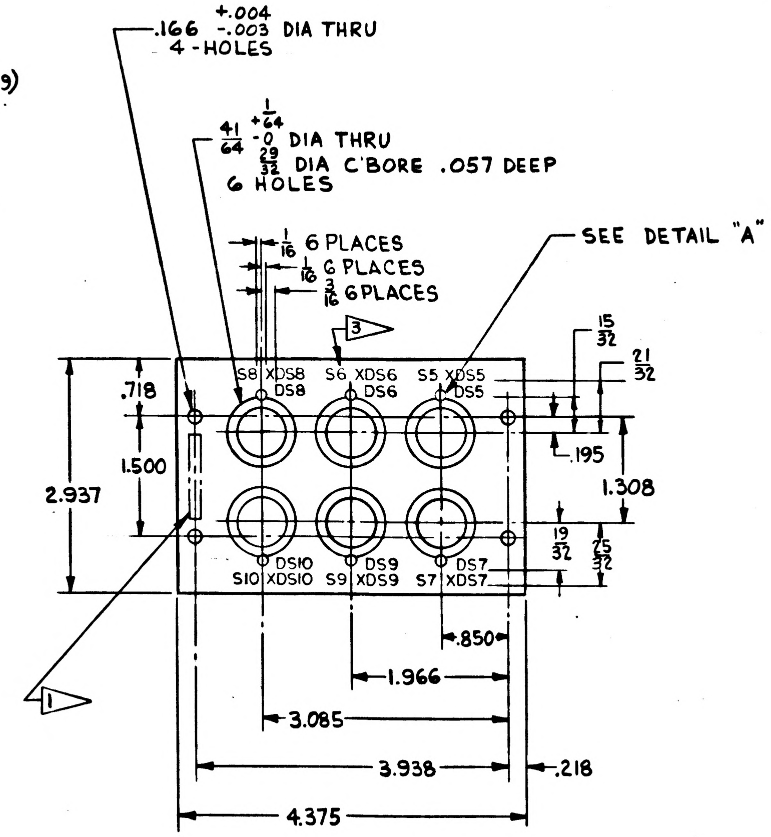
MUST BE FREE FROM BURRS

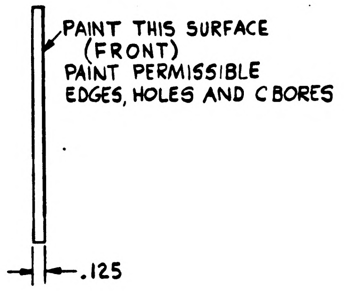
2 MATERIAL: ALUMINUM ALLOY PER QQ-A-362 TEMPER T3 (TYPE 2024-T3)(ES-2104).

FINISH: MIL-C-5541 (ES-591 CHEMICAL TREATMENT)
APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589)
APPLY ND-1002125 LUSTER LESS ENAMEL, COLOR NO 36231 OF FED STD 595 TO FRONT OF PLATE PER ND-1002110.

3 CHARACTERS ON REAR OF PANEL EXCEPT PIECEMARK NO. TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND-1002019. COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.


.125 +.003 -.002 DIA. THRU
(6 HOLES)
.450
DETAIL "A"
SCALE 2X


.166 +.004 -.003 DIA THRU
4-HOLES
41/64 +1/64 -0 DIA THRU
29/32 DIA C'BORE .057 DEEP
6 HOLES
1/16 6 PLACES
1/16 6 PLACES
3/16 6 PLACES
SEE DETAIL "A"
3
S8 XDS8 DS8
S6 XDS6 DS6
S5 XDS5 DS5
DS10 S10 XDS10
DS9 S9 XDS9
DS7 S7 XDS7
.718
1.500
2.937
15/32
21/32
.195
1.308
19/32
25/32
.850
1.966
3.085
3.938
.218
4.375
1


PAINT THIS SURFACE
(FRONT)
PAINT PERMISSIBLE
EDGES, HOLES AND C BORES
.125

1014526	1014526
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +1/64 -1/64
DECIMALS +.005 -.005
ANGLES + -
DO NOT SCALE THIS DRAWING
MATERIAL 2
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN W. MUNSON DATE 15 MAR 63
CHECKED MALCOWSKI 21 MAR 63
APPROVAL Earl Scholl 22 MAR 63
APPROVAL 22 MAR 63
NASA APPROVAL 6-19-63
MIT APPROVAL 19/6/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE - SWITCH

CODE IDENT NO.
SIZE D
1014529
SCALE FULL
SHEET

MIL 10770-P

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS TDRR 01629

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS A RELEASE		6-11 63	F.L.

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

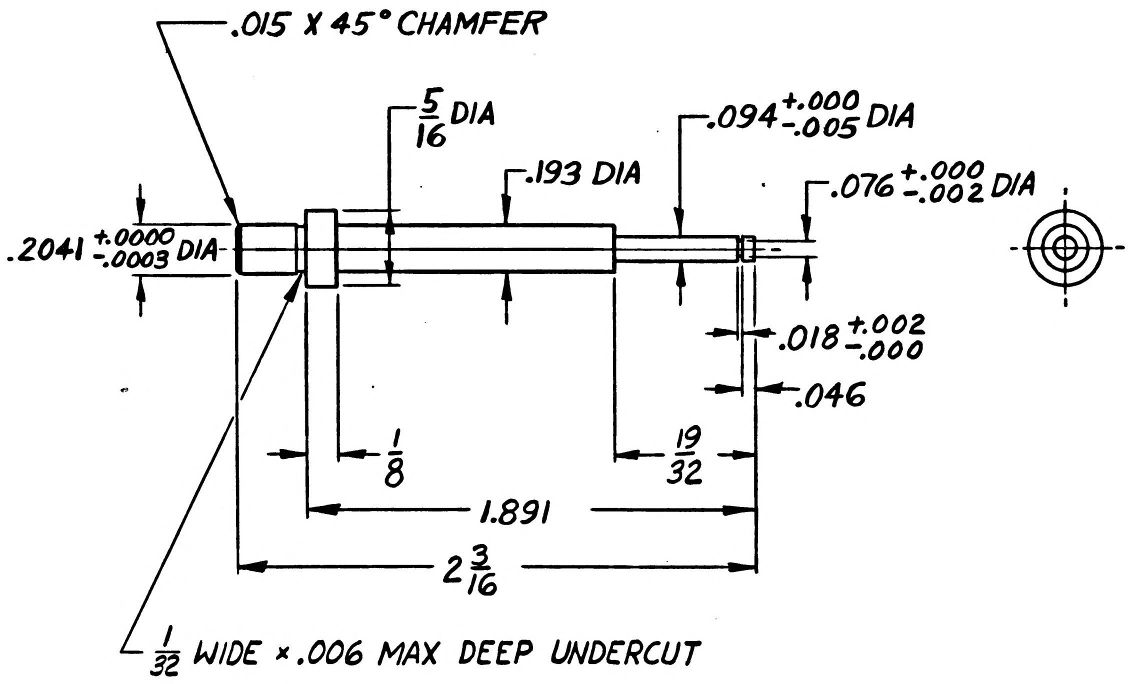
UNLESS OTHERWISE SPECIFIED:
ALL CORNERS TO HAVE .005 TO .015 R OR CHAMFER
SURFACE ROUGHNESS SHALL NOT EXCEED 63√

MARK 1014530 & REV. LETTER PER MIL-STD.-130(ES-267).

MUST BE FREE FROM BURRS

1 MATERIAL: QQ-S-763 CLASS 303 OR 303 SE, ANNEALED, CF (ES-380 SST)

FINISH: MIL-F-14072 (SIG C) FIN E 300 (ES-585 PASSIVATE)



.015 X 45° CHAMFER
5/16 DIA
.193 DIA
.094 +.000 -.005 DIA
.076 +.000 -.002 DIA
.2041 +.0000 -.0003 DIA
.018 +.002 -.000
.046
1/8
19/32
1.891
2 3/16
1/32 WIDE × .006 MAX DEEP UNDERCUT

1014578	1014578
1014526	1014526
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64 −1/64	+.005 −.005	+2° −2°

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN W. MUNSON DATE 14 MAR 63
CHECKED MALIKOWSKI 21 MAR 63
APPROVAL Earl Scholl 22 MAR 63
APPROVAL 22 MAR 63
NASA APPROVAL 6-18-63
MIT APPROVAL 19 June 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PIN - CONNECTOR

CODE IDENT NO. SIZE C 1014530
SCALE 2:1 SHEET

MIL 1077C-P

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G I PREFIX 50A2 B 1014531

PENNANT GENERAL NOTES

NOTE

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

MARK CONDUCTOR IDENTIFICATION PER ND1002019 (ES-2469).

3 TWIST CONDUCTORS 1 AND 2, 4 AND 5, 6 AND 7, 20 AND 21, 4 TURNS PER FOOT.

Y OR N IN TINNED COLUMN INDICATES YES OR NO.

INSPECT PER REQUIREMENTS OF DWG. 1014531

WIRE PER ND

SOLDER PER ND1002071 USING ND1002075 COMPOSITION SN60 TYPE AR.

LENGTHS SPECIFIED ARE FOR WIRES BEFORE ATTACHING TO AN ACCESSORY

UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES, AT TRUE POSITION (TP) WITHIN PLUS OR MINUS 1/4 - TRUE POSITION TOLERANCES ARE REGARDLESS OF FEATURE SIZE (RFS) - ENDS OF HOOKUP PLUS OR MINUS 1/8.

CONFIGURATION IS BASED ON 1 INCH SQUARE, TRUE POSITION GRID.

SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 2 INCHES, MAXIMUM.

SPIRALLING OF THE MARKINGS IS ALLOWED.

BREAKOUTS OF INDIVIDUAL OR GROUPS OF HOOK UP WIRES ARE MINIMUM CONFIGURATIONS.

CONDUCTOR INDIVIDUAL LENGTH COLUMN FOR REFERENCE ONLY.

INSTALL CRIMP STYLE TERMINALS IN ACCORDANCE WITH NAVORD INST9620

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014531
SCALE - NONE	REV LTR B	SHEET 2 OF 9

MIL 2084 4-63

G I PREFIX 50A2 B 1014531

PENNANT GENERAL NOTES

NOTE

BIND WIRES TOGETHER USING ND . FORM S OR Y LOCKSTITCH AT 1/2 INCH SPACING

IDENTIFY USING DWG. NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

PARTIAL REF. DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A2.

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014531
SCALE - NONE	REV LTR B	SHEET 3 OF 9

MIL 2084 4-63

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014526		A₁	Ⓐ₁ COMPLETELY REVISED PER MXC 200182	27 MAY63	LK
		B	Ⓑ CHANGED IN ACCORDANCE WITH MXC 200236	15 JUL 63	J. J. S.
		C	Ⓒ UPGRADED FOR CLASS A RELEASE INITIAL, TPRR 02421	5 AUG 63	WK
		B₁	COMPLETELY REVISED		

REV STATUS OF SHEETS									
REV	C	B	B	C	C	C	B	C	B
SHEET	1	2	3	4	5	6	7	8	9

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN DATE 9/3/63
CHECKED 10 APR 63
APPROVAL J. J. Moran 16 MAR 63
APPROVAL 16 APR 63
NASA APPROVAL 8/1/63
MIT APPROVAL
CONTRACT

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
IMU CONTROL PANEL

CODE IDENT NO.	SIZE	1014531	REV C
SCALE FULL		SHEET 1 OF 9	

G I PREFIX 50A2 B 1014531

OENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014531-001	WIRE ND1002105, 24AWG TYPE 1, WHITE, 41 FT 9 IN TOTAL LENGTH
	2	1	1010347-001	CONNECTOR, ELECTRICAL
	3	108	1010464-001	PINS, MALE
	4	1		IDENTIFICATION TAG
	5	1	1015902-49	LUG, TERMINAL
	6	1	1014531-002	WIRE ND1002105, 22AWG TYPE 1, WHITE, 6 IN TOTAL LENGTH

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014531
SCALE - NONE	REV LTR BC	SHEET 4 OF 9

MIL 2084 4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G I PREFIX 50A2 B 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	TERMINATION SPEC ITEM NO.	NO.
A 19	1	1050	P1-105	10	N	3	1	XDS~~3~~7-HI	25	Y		13
A 20	1	950	P1-107	10	N	3	1	M1-XDS-LO	25	Y		2
A 21	1	950	P1-108	10	N	3	1	M1-XDS-HI	25	Y		2
A 22	1	1100	M1-XDS-LO	25	Y		2	XDS~~4~~8-LO	25	Y		19
A 23	1	1100	P1- 22	25	Y		1	XDS~~5~~9-HI	25	Y		15
A 24	1	500	XDS~~2~~5-LO	25	Y		8	XDS~~2~~6-LO	25	Y		14
A 25	1	500	XDS~~2~~6-LO	25	Y		14	XDS~~4~~8-LO	25	Y		19
A 26	1	650	XDS~~1~~5-LO	25	Y		8	XDS~~3~~7-LO	25	Y		13
A 27	1	500	XDS~~7~~10-LO	25	Y		16	XDS~~5~~9-LO	25	Y		15
A 28	1	850	XDS~~5~~9-LO	25	Y		15	XDS~~3~~7-LO	25	Y		13
A 29	1	1200	S3- 2-C	25	Y		4	S5- 2-C	25	Y		9
A 30	1	900	P1- 37	10	N	3	1	S3- 1-C	25	Y		3
A 31	1	950	P1- 46	10	N	3	1	S4- 2-~~NC~~ NO	25	Y		6
A 32	1	1125	P1- 23	10	N	3	1	S8- 1-NC	25	Y		18
A 33	1	950	P1- 24	10	N	3	1	S4- 2-C	25	Y		6
A 34	1	1225	P1- 25	10	N	3	1	S10- 1-NC	25	Y		17
A 35	1	1175	P1- 34	10	N	3	1	S5- 1-NC	25	Y		9
A 36	1	1175	P1- 35	10	N	3	1	S6- 1-NC	25	Y		12

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014531
SCALE - NONE
REV LTR ~~B~~C
SHEET 6 OF 9

MIL 2085 - 4-63 WIR

G I PREFIX 50A2 B 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	TERMINATION SPEC ITEM NO.	NO.
A 37	1	1300	P1- 36	10	N	3	1	S7- 1-NC	25	Y		10
A 38	1	650	S10- 1-C	25	Y		17	S8- 1-NO	25	Y		18
A 39	1	1100	S7- 1-NO	25	Y		10	S8- 1-C	25	Y		18
A 40	1	600	S6- 1-NO	25	Y		12	S7- 1-C	25	Y		10
A 41	1	500	S5- 1-NO	25	Y		9	S6- 1-C	25	Y		12
A 42	1	600	S9- 1-NO	25	Y		11	S5- 1-C	25	Y		9
A 43	1	1225	S10- 1-NO	25	Y		17	P1- 9	25	N	3	1
A 44	1	750	S3- 2-NC	25	Y		4	S4- 1-C	25	Y		7
A 45	1	1175	P1- 6	10	N	3	1	S5- 2-NC	25	Y		9
A 46	1	500	S5- 2-NC	25	Y		9	S6- 2-NC	25	Y		12
A 47	1	600	S6- 2-NC	25	Y		12	S7- 2-NC	25	Y		10
A 48	1	1100	S7- 2-NC	25	Y		10	S8- 2-NC	25	Y		18
A 49	1	1125	S8- 2-NC	25	Y		18	S9- 2-NC	25	Y		11
A 50	1	500	S5- 2-C	25	Y		9	S6- 2-C	25	Y		12
A 51	1	600	S6- 2-C	25	Y		12	S7- 2-C	25	Y		10
A 52	1	1100	S7- 2-C	25	Y		10	S8- 2-C	25	Y		18
A 53	1	1125	S8- 2-C	25	Y		18	S9- 2-C	25	Y		11
A 54	1	500	S9- 2-C	25	Y		11	S9- 1-C	25	Y		11

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014531
SCALE - NONE
REV LTR B
SHEET 7 OF 9

MIL 2085 - 4-63 WIR

G I PREFIX 50A2 B 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	TERMINATION SPEC ITEM NO.	NO.
A 1	1	950	P1- 1	10	N	3	1	M1-~~PITCH~~ INNER (+)	25	Y		2
A 2	1	950	P1- 2	10	N	3	1	M1-~~PITCH~~ INNER (-)	25	Y		2
A 3	1	925	P1- 12	10	N	3	1	S4-1-~~NO~~ NC	25	Y		7
A 4	1	950	P1- 14	10	N	3	1	M1-~~YAW~~ MIDDLE (+)	25	Y		2
A 5	1	950	P1- 15	10	N	3	1	M1-~~YAW~~ MIDDLE (-)	25	Y		2
A 6	1	950	P1- 29	10	N	3	1	M1-~~ROLL~~ OUTER (+)	25	Y		2
A 7	1	950	P1- 28	10	N	3	1	M1-~~ROLL~~ OUTER (-)	25	Y		2
A 8	1	925	P1- 56	10	N	3	1	S3- 1-NC	25	Y		4
A 9	1	975	P1- 68	10	N	3	1	S4- 3-C	25	Y		5
A 10	1	975	P1- 69	10	N	3	1	S4- 3-~~NO~~ NC	25	Y		5
A 11	1	925	P1- 18	10	N	3	1	S4- 1-~~NC~~ NO	25	Y		7
A 12	1	900	P1- 78	10	N	3	1	S3- 2-C	25	Y		3
A 13	1	1050	P1- 79	10	N	3	1	XDS~~1~~10-HI	25	Y		16
A 14	1	950	P1- 81	10	N	3	1	S4- 2-~~NO~~ NC	25	Y		6
A 15	1	900	P1- 92	10	N	3	1	XDS~~2~~6-HI	25	Y		14
A 16	1	925	P1- 93	10	N	3	1	S3- 2-NC	25	Y		4
A 17	1	950	P1- 94	10	N	3	1	XDS~~4~~8-HI	25	Y		19
A 18	1	950	P1-104	10	N	3	1	XDS~~1~~5-HI	25	Y		8

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014531
SCALE - NONE
REV LTR ~~B~~C
SHEET 5 OF 9

MIL 2085 - 4-63 WIR

G I PREFIX 50A2 B 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	TERMINATION SPEC ITEM NO.	NO.
A 55	1	1350	S4- 2-~~NC~~ NO	25	Y		6	S9- 1-NC	25	Y		
A 56	6	600	P1- 91	10	N		1	E1			5	

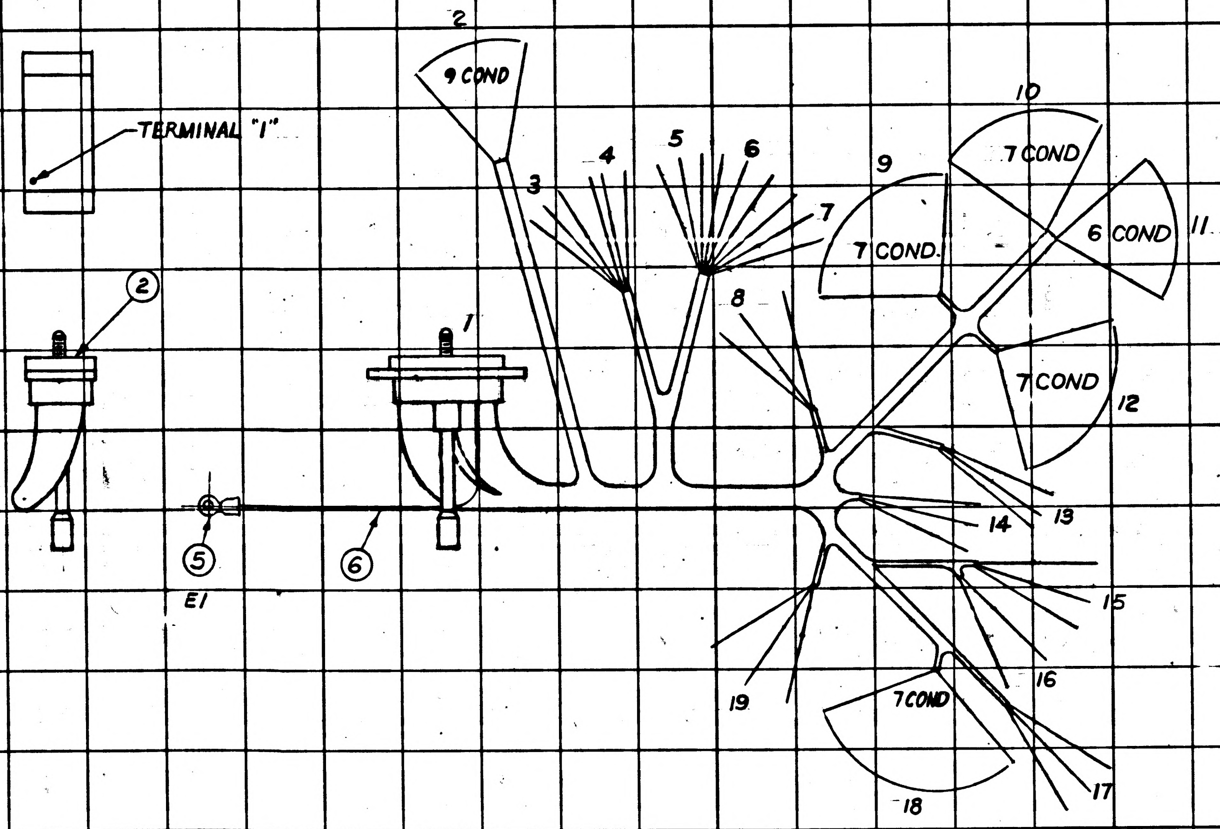
1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014531
SCALE - NONE
REV LTR ~~B~~C
SHEET 8 OF 9

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		SEE SHT 1 FOR REVISION RECORD TDRR 02621, INITIAL RELEASE REV. C		7 AUG 63	



TERMINAL "1"
2
1
5
E1
6
2
9 COND
3
4
5
6
7
8
9
7 COND.
10
7 COND
6 COND
11
7 COND
12
13
14
15
16
17
7 COND
18
19

MASTER

1014526	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Jaschke DATE 4/3/63
CHECKED Jaylor 10 APRIL 63
APPROVAL O. J. Moran 16 APRIL 63
APPROVAL 16 APR 63
NASA APPROVAL 5/7/63 5/7/63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
IMU CONTROL PANEL

CODE IDENT NO. SIZE D 1014531 B
SCALE FULL SHEET 9 OF 9

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

PENNANT NOTE	GENERAL NOTES
	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
	MARK CONDUCTOR IDENTIFICATION PER ND1002019 (ES-2469).
3	TWIST CONDUCTORS A1 AND A2, A4 AND A5, A6 AND A7, A20 AND A21, 4 TURNS PER FOOT.
	Y OR N IN TINNED COLUMN INDICATES YES OR NO.
	INSPECT PER REQUIREMENTS OF DWG. 1014531
	SOLDER PER MIL-S-6872 (ES-2502-1) USING ITEMS 7 AND 8.
	LENGTHS SPECIFIED ARE FOR WIRES BEFORE ATTACHING TO AN ACCESSORY
	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES, AT TRUE POSITION (TP) WITHIN PLUS OR MINUS 1/4 - TRUE POSITION TOLERANCES ARE REGARDLESS OF FEATURE SIZE (RFS) - ENDS OF HOOKUP PLUS OR MINUS 1/8.
	CONFIGURATION IS BASED ON 1 INCH SQUARE, TRUE POSITION GRID.
	SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 2 INCHES, MAXIMUM.
	SPIRALLING OF THE MARKINGS IS ALLOWED.
	BREAKOUTS OF INDIVIDUAL OR GROUPS OF HOOK UP WIRES ARE MINIMUM CONFIGURATIONS.
	CONDUCTOR INDIVIDUAL LENGTH COLUMN FOR REFERENCE ONLY.
	INSTALL CRIMP STYLE TERMINALS PER ND 1002206.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014531
SCALE - NONE
REV LTR E
SHEET 2 OF 9

PENNANT NOTE	GENERAL NOTES
	BIND WIRES TOGETHER USING MIL-T-713, TYPE P, CLASS 2 TAPE. FORM RUNNING LOCKSTITCH AT ½ INCH SPACING.
	IDENTIFY USING DWG. NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).
	PARTIAL REF. DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A2.

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP		CUT	
		WIRE	JACKET	WIRE	SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014531
SCALE - NONE
REV LTR E
SHEET 3 OF 9

APPLICATION

NEXT ASSY	USED ON
1014526	

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A1	Ⓐ COMPLETELY REVISED PER MXC 200182	27 MAY 63	LK
B	Ⓑ CHANGED IN ACCORDANCE WITH MXC 200236	15 JUL 63	J.J.S.
C	Ⓒ UPGRADED FOR CLASS A RELEASE INITIAL TDRR 02721	5 AUG 63	W/K
D4	REVISED PER TDRR NO. 04799	26 NOV 63	W/K
E10	REVISED PER TDRR NO. 04800	26 NOV 63	W/K

REV										
SHEET										
REV STATUS OF SHEETS	REV	E	E	E	E	E	E	B	E	E
	SHEET	1	2	3	4	5	6	7	8	9

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ACSP PN
DRAWN DATE 4/3/63
CHECKED 10 APRIL 63
APPROVAL 16 APRIL 63
APPROVAL 16 APR 63
NASA APPROVAL 5/7/63
MIT APPROVAL 5/7/63
CONTRACT

WIRING HARNESS "A"
IMU CONTROL PANEL

CODE IDENT NO.
SIZE A
1014531
REV E
SCALE FULL
SHEET 1 OF 9

LIST OF MATERIALS

PENNANT NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014531-001	WIRE ND1002105, 24AWG TYPE 1, WHITE, 41 FT 9 IN TOTAL LENGTH
	2	1	1010347-001	CONNECTOR, ELECTRICAL
	3	33	1010464-001	PINS, MALE
	4	1		IDENTIFICATION TAG
	5	1	1010638-6	LUG, TERMINAL
	6	1	1014531-002	WIRE ND1002105, 22AWG TYPE 1, WHITE, 6 IN TOTAL LENGTH
	7	AR	QQ-S-571, SN60	SOLDER (ES-2175 ALLOY 1)
	8	AR	QQ-S-571, AR	FLUX (ES-2175, TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014531
SCALE - NONE
REV LTR E
SHEET 4 OF 9

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G I PREFIX 50A2 B 1014531

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
A 19	1	1050	P1-105	10	N	3	1	XDS^{7}-HI	25	Y		13
A 20	1	950	P1-107	10	N	3	1	M1-XDS-8	25	Y		2
A 21	1	950	P1-108	10	N	3	1	M1-XDS-7	25	Y		2
A 22	1	1100	M1-XDS-8	25	Y		2	XDS^{8}-LO	25	Y		19
A 23	1	1100	P1- 22	25	Y	3	1	XDS^{9}-HI	25	Y		15
A 24	1	500	XDS^{5}-LO	25	Y		8	XDS^{6}-LO	25	Y		14
A 25	1	500	XDS^{6}-LO	25	Y		14	XDS^{8}-LO	25	Y		19
A 26	1	650	XDS^{5}-LO	25	Y		8	XDS^{7}-LO	25	Y		13
A 27	1	500	XDS^{10}-LO	25	Y		16	XDS^{9}-LO	25	Y		15
A 28	1	850	XDS^{9}-LO	25	Y		15	XDS^{7}-LO	25	Y		13
A 29	1	1200	S3- 2-C	25	Y		4	S5- 2-C	25	Y		9
A 30	1	900	P1- 37	10	N	3	1	S3- 1-C	25	Y		3
A 31	1	950	P1- 46	10	N	3	1	S4- 2- NO	25	Y		6
A 32	1	1125	P1- 23	10	N	3	1	S8- 1-NC	25	Y		18
A 33	1	950	P1- 24	10	N	3	1	S4- 2-C	25	Y		6
A 34	1	1225	P1- 25	10	N	3	1	S10- 1-NC	25	Y		17
A 35	1	1175	P1- 34	10	N	3	1	S5- 1-NC	25	Y		9
A 36	1	1175	P1- 35	10	N	3	1	S6- 1-NC	25	Y		12

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014531
SCALE - NONE
REV LTR E
SHEET 6 OF 9

MIL 2085 - 4-63 WIR

G I PREFIX 50A2 B 1014531

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
A 37	1	1300	P1- 36	10	N	3	1	S7- 1-NC	25	Y		10
A 38	1	650	S10- 1-C	25	Y		17	S8- 1-NO	25	Y		18
A 39	1	1100	S7- 1-NO	25	Y		10	S8- 1-C	25	Y		18
A 40	1	600	S6- 1-NO	25	Y		12	S7- 1-C	25	Y		10
A 41	1	500	S5- 1-NO	25	Y		9	S6- 1-C	25	Y		12
A 42	1	600	S9- 1-NO	25	Y		11	S5- 1-C	25	Y		9
A 43	1	1225	S10- 1-NO	25	Y		17	P1- 9	25	N	3	1
A 44	1	750	S3- 2-NC	25	Y		4	S4- 1-C	25	Y		7
A 45	1	1175	P1- 6	10	N	3	1	S5- 2-NC	25	Y		9
A 46	1	500	S5- 2-NC	25	Y		9	S6- 2-NC	25	Y		12
A 47	1	600	S6- 2-NC	25	Y		12	S7- 2-NC	25	Y		10
A 48	1	1100	S7- 2-NC	25	Y		10	S8- 2-NC	25	Y		18
A 49	1	1125	S8- 2-NC	25	Y		18	S9- 2-NC	25	Y		11
A 50	1	500	S5- 2-C	25	Y		9	S6- 2-C	25	Y		12
A 51	1	600	S6- 2-C	25	Y		12	S7- 2-C	25	Y		10
A 52	1	1100	S7- 2-C	25	Y		10	S8- 2-C	25	Y		18
A 53	1	1125	S8- 2-C	25	Y		18	S9- 2-C	25	Y		11
A 54	1	500	S9- 2-C	25	Y		11	S9- 1-C	25	Y		11

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014531
SCALE - NONE
REV LTR E
SHEET 7 OF 9

MIL 2085 - 4-63 WIR

G I PREFIX 50A2 B 1014531

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
A 1	1	950	P1- 1	10	N	3	1	M1- 3 (+)	25	Y		2
A 2	1	950	P1- 2	10	N	3	1	M1- 4 (-)	25	Y		2
A 3	1	925	P1- 12	10	N	3	1	S4-1- NC	25	Y		7
A 4	1	950	P1- 14	10	N	3	1	M1-1 (+)	25	Y		2
A 5	1	950	P1- 15	10	N	3	1	M1- 2 (-)	25	Y		2
A 6	1	950	P1- 29	10	N	3	1	M1- 5 (+)	25	Y		2
A 7	1	950	P1- 28	10	N	3	1	M1- 6 (-)	25	Y		2
A 8	1	925	P1- 56	10	N	3	1	S3- 1-NC	25	Y		4
A 9	1	975	P1- 68	10	N	3	1	S4- 3-C	25	Y		5
A 10	1	975	P1- 69	10	N	3	1	S4- 3- NC	25	Y		5
A 11	1	925	P1- 18	10	N	3	1	S4- 1- NO	25	Y		7
A 12	1	900	P1- 78	10	N	3	1	S3- 2-C	25	Y		3
A 13	1	1050	P1- 79	10	N	3	1	XDS^{10}-HI	25	Y		16
A 14	1	950	P1- 81	10	N	3	1	S4- 2- NC	25	Y		6
A 15	1	900	P1- 92	10	N	3	1	XDS^{6}-HI	25	Y		14
A 16	1	925	P1- 93	10	N	3	1	S3- 2-NC	25	Y		4
A 17	1	950	P1- 94	10	N	3	1	XDS^{8}-HI	25	Y		19
A 18	1	950	P1-104	10	N	3	1	XDS^{5}-HI	25	Y		8

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014531
SCALE - NONE
REV LTR E
SHEET 5 OF 9

MIL 2085 - 4-63 WIR

G I PREFIX 50A2 B 1014531

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
A 55	1	1350	S4- 2- NO	25	Y		6	S9- 1-NC	25	Y		11
A 56	6	600	P1- 91	10	N	3	1	E1			5	20

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

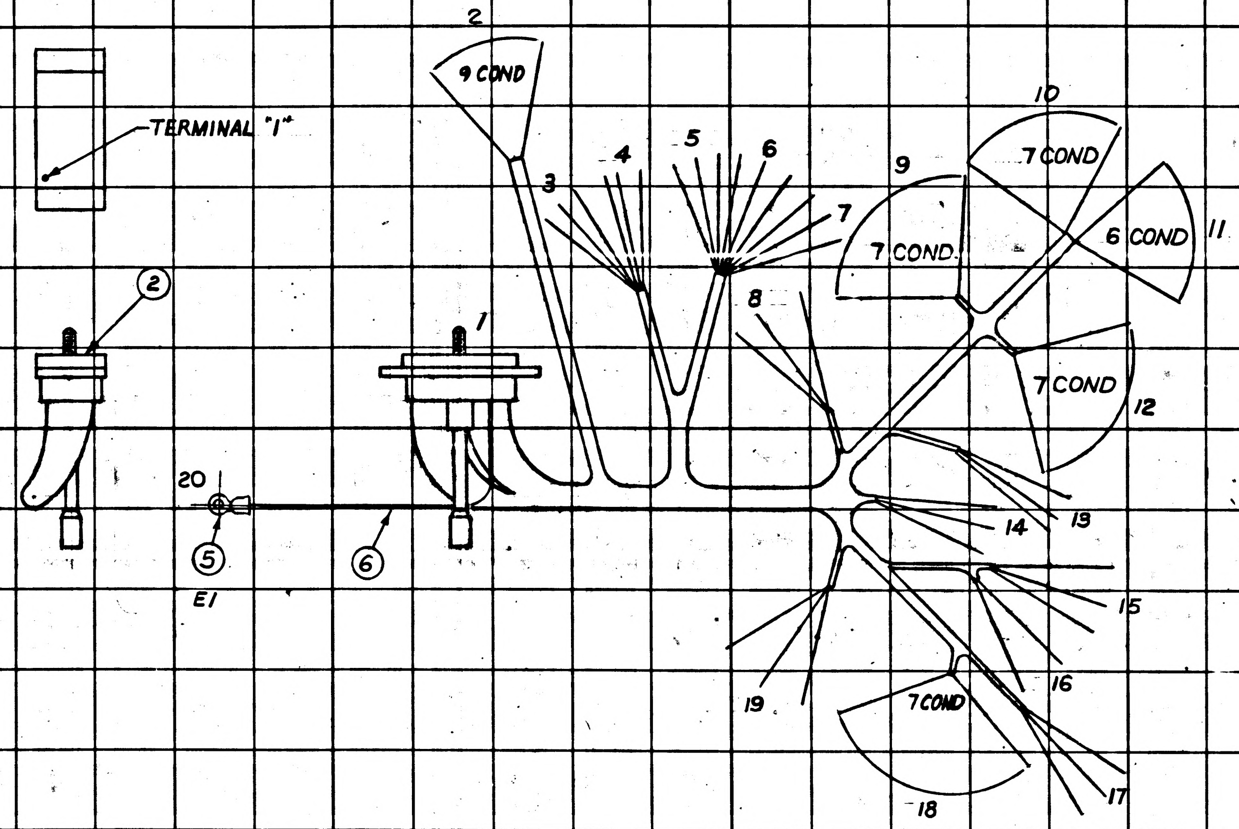
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014531
SCALE - NONE
REV LTR E
SHEET 8 OF 9

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
		SEE SHT 1 FOR REVISION RECORD TDRR 02421, INITIAL RELEASE REV. C		7 AUG 63	
D		SEE SHEET NO. 1		26 NOV 63	WK
E		SEE SHEET NO. 1		26 NOV 63	WK



TERMINAL "1"
2
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20
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E1
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9 COND
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7 COND.
10
7 COND
6 COND
11
7 COND
12
13
14
15
16
17
7 COND
18
19

MASTER

1014526	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Jeschke DATE 4/3/63
CHECKED Baylis 10 APRIL 63
APPROVAL O. J. Moran 16 APRIL 63
APPROVAL Kodel 16 APR 63
NASA APPROVAL 5/7/63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
IMU CONTROL PANEL

CODE IDENT NO.
SIZE D
1014531
SCALE FULL
SHEET 9 OF 9

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014526		A₁	Ⓐ COMPLETELY REVISED PER MXC 200182	27 MAY 63	LK
		B	Ⓑ CHANGED IN ACCORDANCE WITH MXC 200236	15 JUL 63	J.J.S.
		C	Ⓒ UPGRADED FOR CLASS A RELEASE INITIAL, TDRR 02421	5 AUG 63	WK
		D₄	REVISED PER TDRR NO. 04799	26 NOV 63	WK
		E₁₀	REVISED PER TDRR NO. 04800	26 NOV 63	WK
		F	REVISED PER TDRR NO. 05900	27 JAN 64	WK
		G	REVISED PER TDRR NO. 06725	10 MAR 64	WK.

REV STATUS OF SHEETS									
REV	G	E	E	G	F	E	B	E	E
SHEET	1	2	3	4	5	6	7	8	9

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN Gaschke DATE 4/3/63
CHECKED Baylor 10 APRIL 63
APPROVAL D. J. Moran 16 APRIL 63
APPROVAL [illegible] 16 APR 63
NASA APPROVAL [illegible] 7/7/63
MIT APPROVAL [illegible]
CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
IMU CONTROL PANEL

CODE IDENT NO.	SIZE		REV
	A	1014531	G
SCALE FULL		SHEET 1 OF 9	

G I PREFIX 50A2 B 1014531

PENNANT NOTE	GENERAL NOTES
	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
	MARK CONDUCTOR IDENTIFICATION PER ND1002019 (ES-2469).
3	TWIST CONDUCTORS A1 AND A2, A4 AND A5, A6 AND A7, A20 AND A21, 4 TURNS PER FOOT.
	Y OR N IN TINNED COLUMN INDICATES YES OR NO.
	INSPECT PER REQUIREMENTS OF DWG. 1014531
	SOLDER PER MIL-S-6872 (ES-2502-1) USING ITEMS 7 AND 8.
	LENGTHS SPECIFIED ARE FOR WIRES BEFORE ATTACHING TO AN ACCESSORY
	UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES, AT TRUE POSITION (TP) WITHIN PLUS OR MINUS 1/4 - TRUE POSITION TOLERANCES ARE REGARDLESS OF FEATURE SIZE (RFS) - ENDS OF HOOKUP PLUS OR MINUS 1/8.
	CONFIGURATION IS BASED ON 1 INCH SQUARE, TRUE POSITION GRID.
	SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 2 INCHES, MAXIMUM.
	SPIRALLING OF THE MARKINGS IS ALLOWED.
	BREAKOUTS OF INDIVIDUAL OR GROUPS OF HOOK UP WIRES ARE MINIMUM CONFIGURATIONS.
	CONDUCTOR INDIVIDUAL LENGTH COLUMN FOR REFERENCE ONLY.
	INSTALL CRIMP STYLE TERMINALS PER ND 1002206.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014531	
SCALE - NONE	REV LTR	~~B~~E	SHEET 2 OF 9

MIL 2084 4-63

G I PREFIX 50A2 B 1014531

PENNANT NOTE

GENERAL NOTES

BIND WIRES TOGETHER USING MIL-T-713, TYPE P, CLASS 2 TAPE. FORM RUNNING LOCKSTITCH AT $\frac{1}{2}$ INCH SPACING.

IDENTIFY USING DWG. NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

PARTIAL REF. DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A2.

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014531	
SCALE - NONE	REV LTR	~~B~~E	SHEET 3 OF 9

MIL 2084 4-63

G I PREFIX 50A2 B 1014531

LIST OF MATERIALS

PENNANT NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014531-001	WIRE ND1002105, 24AWG TYPE 1, WHITE, 41 FT 9 IN TOTAL LENGTH
	2	1	1010347-001	CONNECTOR, ELECTRICAL
	3	33	1010738-1	PINS, MALE
	4	1		IDENTIFICATION TAG
	5	1	1010638-6	LUG, TERMINAL
	6	1	1014531-002	WIRE ND1002105, 22AWG TYPE 1, WHITE, 6 IN TOTAL LENGTH
	7	AR	QQ-S-571, SN60	SOLDER (ES-2175 ALLOY 1)
	8	AR	QQ-S-571, AR	FLUX (ES-2175, TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014531	
SCALE - NONE	REV LTR	G	SHEET 4 OF 9

MIL 2084 4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G I PREFIX 50A2 B 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC 1 ITEM NO.	NO.
A 19	1	1050	P1-105	10	N	3	1	XDS^{7}-HI	25	Y		13
A 20	1	950	P1-107	10	N	3	1	M1-XDS-8	25	Y		2
A 21	1	950	P1-108	10	N	3	1	M1-XDS-7	25	Y		2
A 22	1	1100	M1-XDS-8	25	Y		2	XDS^{8}-LO	25	Y		19
A 23	1	1100	P1- 22	25	Y	3	1	XDS^{9}-HI	25	Y		15
A 24	1	500	XDS^{5}-LO	25	Y		8	XDS^{6}-LO	25	Y		14
A 25	1	500	XDS^{6}-LO	25	Y		14	XDS^{8}-LO	25	Y		19
A 26	1	650	XDS^{5}-LO	25	Y		8	XDS^{7}-LO	25	Y		13
A 27	1	500	XDS^{10}-LO	25	Y		16	XDS^{9}-LO	25	Y		15
A 28	1	850	XDS^{9}-LO	25	Y		15	XDS^{7}-LO	25	Y		13
A 29	1	1200	S3- 2-C	25	Y		4	S5- 2-C	25	Y		9
A 30	1	900	P1- 37	10	N	3	1	S3- 1-C	25	Y		3
A 31	1	950	P1- 46	10	N	3	1	S4- 2- NO	25	Y		6
A 32	1	1125	P1- 23	10	N	3	1	S8- 1-NC	25	Y		18
A 33	1	950	P1- 24	10	N	3	1	S4- 2-C	25	Y		6
A 34	1	1225	P1- 25	10	N	3	1	S10- 1-NC	25	Y		17
A 35	1	1175	P1- 34	10	N	3	1	S5- 1-NC	25	Y		9
A 36	1	1175	P1- 35	10	N	3	1	S6- 1-NC	25	Y		12

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014531

SCALE - NONE | REV LTR E | SHEET 6 OF 9

MIL 2085 - 4-63 WIR

G I PREFIX 50A2 B 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC 1 ITEM NO.	NO.
A 37	1	1300	P1- 36	10	N	3	1	S7- 1-NC	25	Y		10
A 38	1	650	S10- 1-C	25	Y		17	S8- 1-NO	25	Y		18
A 39	1	1100	S7- 1-NO	25	Y		10	S8- 1-C	25	Y		18
A 40	1	600	S6- 1-NO	25	Y		12	S7- 1-C	25	Y		10
A 41	1	500	S5- 1-NO	25	Y		9	S6- 1-C	25	Y		12
A 42	1	600	S9- 1-NO	25	Y		11	S5- 1-C	25	Y		9
A 43	1	1225	S10- 1-NO	25	Y		17	P1- 9	25	N	3	1
A 44	1	750	S3- 2-NC	25	Y		4	S4- 1-C	25	Y		7
A 45	1	1175	P1- 6	10	N	3	1	S5- 2-NC	25	Y		9
A 46	1	500	S5- 2-NC	25	Y		9	S6- 2-NC	25	Y		12
A 47	1	600	S6- 2-NC	25	Y		12	S7- 2-NC	25	Y		10
A 48	1	1100	S7- 2-NC	25	Y		10	S8- 2-NC	25	Y		18
A 49	1	1125	S8- 2-NC	25	Y		18	S9- 2-NC	25	Y		11
A 50	1	500	S5- 2-C	25	Y		9	S6- 2-C	25	Y		12
A 51	1	600	S6- 2-C	25	Y		12	S7- 2-C	25	Y		10
A 52	1	1100	S7- 2-C	25	Y		10	S8- 2-C	25	Y		18
A 53	1	1125	S8- 2-C	25	Y		18	S9- 2-C	25	Y		11
A 54	1	500	S9- 2-C	25	Y		11	S9- 1-C	25	Y		11

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014531

SCALE - NONE | REV LTR E | SHEET 7 OF 9

MIL 2085 - 4-63 WIR

G I PREFIX 50A2 B 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC 1 ITEM NO.	NO.
A 1	1	950	P1- 1	10	N	3	1	M1- 1 (+)	25	Y		2
A 2	1	950	P1- 2	10	N	3	1	M1- 2 (-)	25	Y		2
A 3	1	925	P1- 12	10	N	3	1	S4-1- NC	25	Y		7
A 4	1	950	P1- 14	10	N	3	1	M1-3 (+)	25	Y		2
A 5	1	950	P1- 15	10	N	3	1	M1-4 (-)	25	Y		2
A 6	1	950	P1- 29	10	N	3	1	M1- 5 (+)	25	Y		2
A 7	1	950	P1- 28	10	N	3	1	M1- 6 (-)	25	Y		2
A 8	1	925	P1- 56	10	N	3	1	S3- 1-NC	25	Y		4
A 9	1	975	P1- 68	10	N	3	1	S4- 3-C	25	Y		5
A 10	1	975	P1- 69	10	N	3	1	S4- 3- NC	25	Y		5
A 11	1	925	P1- 18	10	N	3	1	S4- 1- NO	25	Y		7
A 12	1	900	P1- 78	10	N	3	1	S3- 2-C	25	Y		3
A 13	1	1050	P1- 79	10	N	3	1	XDS^{10}-HI	25	Y		16
A 14	1	950	P1- 81	10	N	3	1	S4- 2- NC	25	Y		6
A 15	1	900	P1- 92	10	N	3	1	XDS^{6}-HI	25	Y		14
A 16	1	925	P1- 93	10	N	3	1	S3- 2-NC	25	Y		4
A 17	1	950	P1- 94	10	N	3	1	XDS^{8}-HI	25	Y		19
A 18	1	950	P1-104	10	N	3	1	XDS^{5}-HI	25	Y		8

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014531

SCALE - NONE | REV LTR F | SHEET 5 OF 9

MIL 2085 - 4-63 WIR

G I PREFIX 50A2 B 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC 1 ITEM NO.	NO.
A 55	1	1350	S4- 2- NO	25	Y		6	S9- 1-NC	25	Y		11
A 56	6	600	P1- 91	10	N	3	1	E1			5	20

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014531

SCALE - NONE | REV LTR E | SHEET 8 OF 9

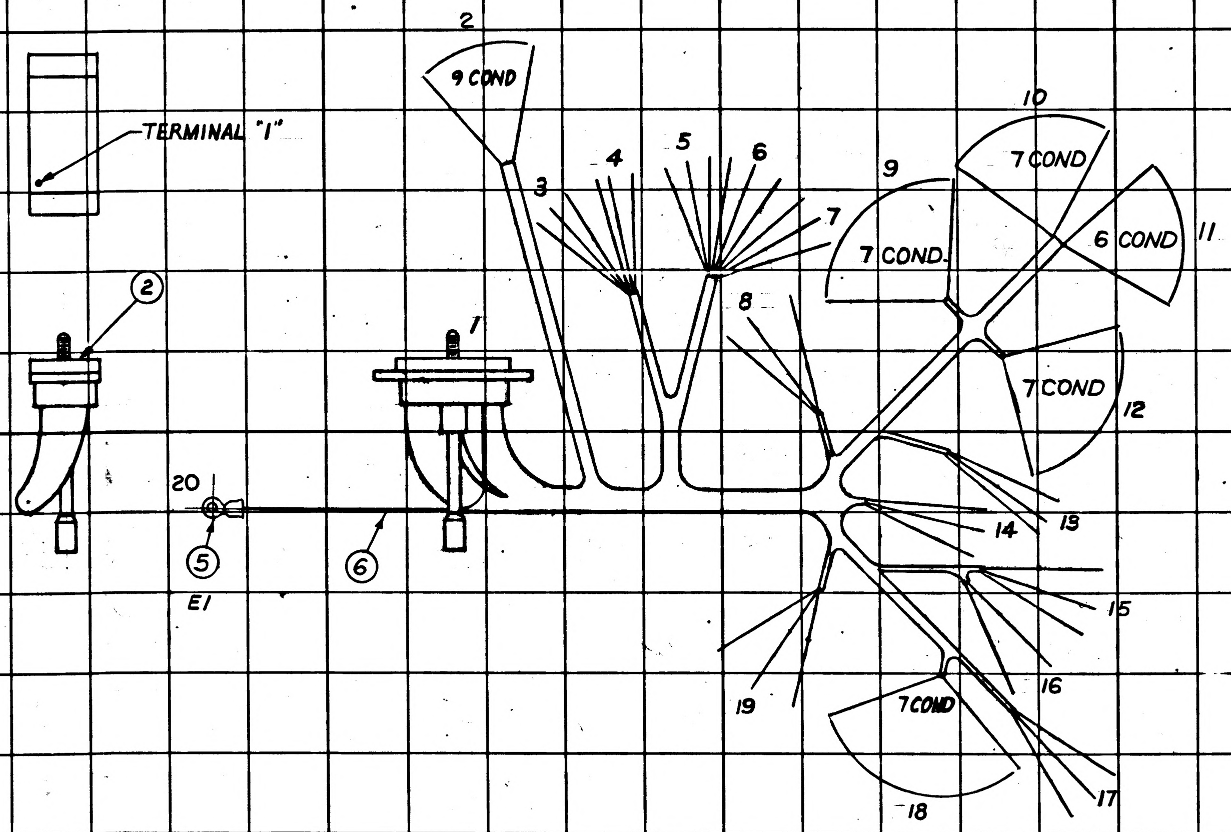
MIL 2085 - 4-63 WIR

INCHES

0 1 2

PHOTOGRAPHIC SCALE ONLY

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
SEE SHT 1 FOR REVISION RECORD TDRR 02421, INITIAL RELEASE REV. C				7 AUG 63	
D		SEE SHEET NO. 1		26 NOV 63	
E		SEE SHEET NO. 1		26 NOV 63	



TERMINAL "1"
②
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7 COND
6 COND
11
7 COND
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14
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16
17
7 COND
18
19
20
⑤
E1
⑥

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

1014526
NEXT ASSY | USED ON
APPLICATION

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Gackle DATE 4/3/63
CHECKED Taylor 10 APRIL 63
APPROVAL T. J. Moran 16 APRIL 63
APPROVAL 16 APR 63
NASA APPROVAL 5/7/63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
IMU CONTROL PANEL

CODE IDENT NO. | SIZE D | 1014531
SCALE FULL | SHEET 9 OF 9

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APPLICATION	
NEXT ASSY	USED ON
1014526	1014513

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A₁	(A₁) COMPLETELY REVISED PER MXC 200192	27 MAY 63	LK
B	(B) CHANGED IN ACCORD-ANCE WITH MXC 200[illegible]	15 [illegible] 63	
C	(C) UPGRADED FOR CLASS A [illegible] [illegible] TDRR [illegible]	[illegible]	WK
D₄	REVISED PER TDRR NO. 04799	26 NOV 63	WK
E₁₀	REVISED PER TDRR NO. 04800	26 [illegible]	WK
F	REVISED PER TDRR NO. 05900	27 JAN 64	WK
G	REVISED PER TDRR NO. 06725	10 MAR 64	WK
H	REVISED PER TDRR NO. 07387	[illegible] APR 64	[illegible]

REV									
SHEET									
REV STATUS REV	H	H	H	H	F	E	B	H	H
OF SHEETS SHEET	1	2	3	4	5	6	7	8	9

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN [illegible] DATE 4/3/63
CHECKED [illegible] 16 APRIL 63
APPROVAL [illegible] 16 APR 63
APPROVAL [illegible] 16 APR [illegible]

NASA APPROVAL
MIT APPROVAL
CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
IMU CONTROL PANEL

CODE IDENT NO
SIZE A
1014531
REV H

SCALE FULL
SHEET 1 OF 9

G I PREFIX 50A2 H 1014531

PENNANT GENERAL NOTES

NOTE

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

MARK CONDUCTOR IDENTIFICATION PER ND1002019(ES-2469).

3 TWIST CONDUCTORS A1 AND A2, A4 AND A5, A6 AND A7, A20 AND A21, 18 TURNS PER FOOT.

Y OR N IN TINNED COLUMN INDICATES YES OR NO.

INSPECT PER REQUIREMENTS OF DWG. 1014531

SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 7 AND 8.

LENGTHS SPECIFIED ARE FOR WIRES BEFORE ATTACHING TO AN ACCESSORY

UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES, AT TRUE POSITION (TP) WITHIN PLUS OR MINUS 1/4 - TRUE POSITION TOLERANCES ARE REGARDLESS OF FEATURE SIZE (RFS) - ENDS OF HOOKUP PLUS OR MINUS 1/8.

CONFIGURATION IS BASED ON 1 INCH SQUARE, TRUE POSITION GRID.

SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 2 INCHES, MAXIMUM.

SPIRALLING OF THE MARKINGS IS ALLOWED.

BREAKOUTS OF INDIVIDUAL OR GROUPS OF HOOK UP WIRES ARE MINIMUM CONFIGURATIONS.

CONDUCTOR INDIVIDUAL LENGTH COLUMN FOR REFERENCE ONLY.

INSTALL CRIMP STYLE TERMINALS PER ND1002206

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SIZE A
1014531
SCALE-NONE
REV LTR H
SHEET 2 OF 9

G I PREFIX 50A2 H 1014531

PENNANT GENERAL NOTES

NOTE

BIND WIRES TOGETHER USING MIL-T-713, TYPE P, CLASS 2 TAPE, FORM RUNNING LOCKSTITCH AT 1/2 INCH SPACING

IDENTIFY USING DWG. NO. AND REVISION LETTER PER ND1002019

PARTIAL REF. DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A2.

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SIZE A
1014531
SCALE-NONE
REV LTR H
SHEET 3 OF 9

G I PREFIX 50A2 H 1014531

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014531-001	WIRE ND1002105, 24AWG TYPE 1, WHITE, 41 FT 9 IN TOTAL LENGTH
	2	1	1010347-001	CONNECTOR, ELECTRICAL
	3	33	1010738- 1	PINS, MALE
	5	1	1010638- 6	LUG, TERMINAL
	6	1	1014531-002	WIRE ND1002105, 22AWG TYPE ~~1,~~ WHITE, 6 IN TOTAL LENGTH
	7	AR	QQ-S-571	SN60 SOLDER (ES-2175 ALLOY 1)
	8	AR	QQ-S-571	AR, FLUX (ES-2175, TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798)

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SIZE A
1014531
SCALE-NONE
REV LTR H
SHEET 4 OF 9

G I PREFIX 50A2 H 1014531

CONDUCTOR			FROM				TO			
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT 2	T N 2	TERMINATION SPEC 1 ITEM NO	NO	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT 2	T N 2	TERMINATION SPEC 1 ITEM NO	NO
A 55	1		1350S4- 2-NO	25Y		6	S9- 1-NC	25Y		11
A 56	6		325P1- 91	10N	3	1	E1	25Y	5	20

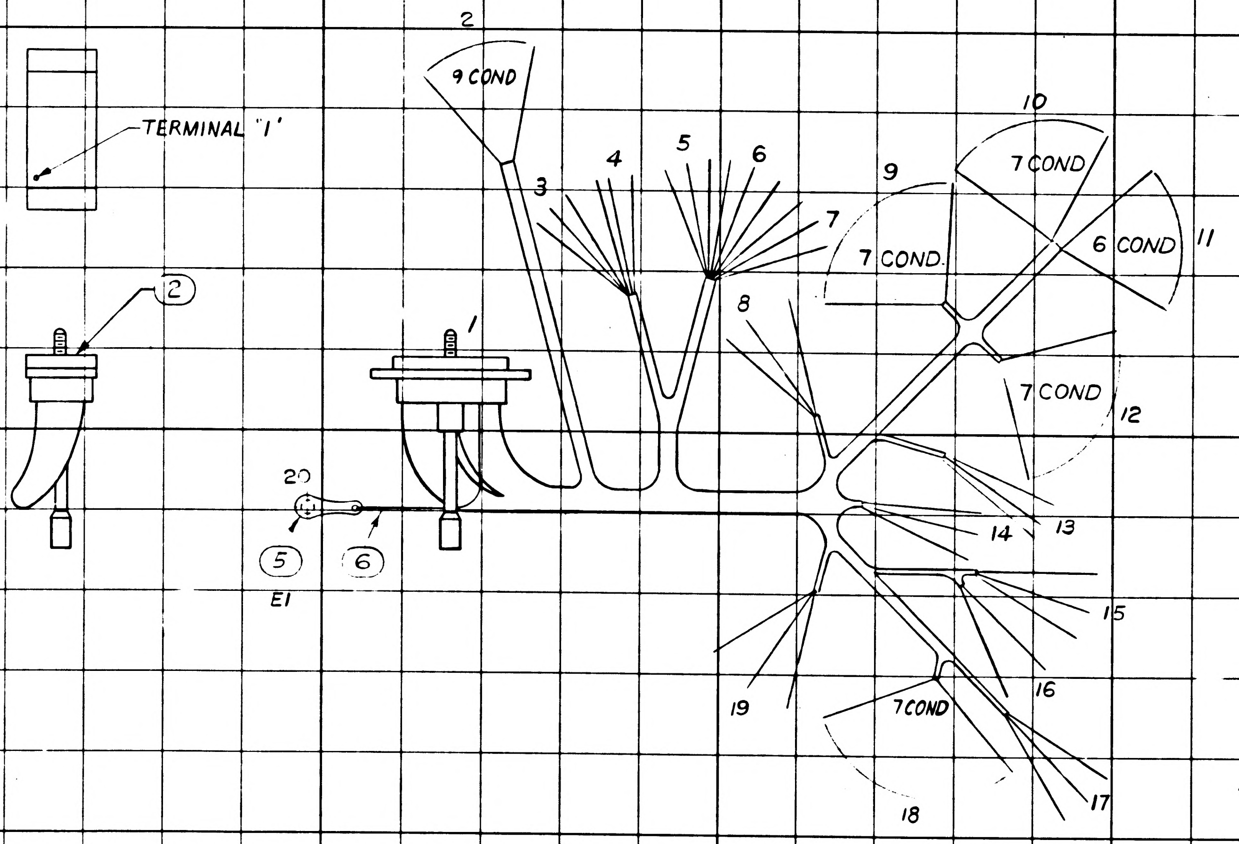
1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SIZE A
1014531
SCALE-NONE
REV LTR H
SHEET 8 OF 9

H 1014531

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHT 1 FOR REVISION RECORD TPRR 02421, INITIAL RELEASE REV C		7 AUG 63	WH
D		SEE SHEET NO. 1		26 NOV 63	WK
E		SEE SHEET NO. 1		26 NOV 63	WK



TERMINAL "1"
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7 COND.
10
7 COND
6 COND
11
7 COND
12
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14
15
16
17
7 COND
18
19

1014526	1014513
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ −	+ −	+ −
− −	− −	− −

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN Zschke DATE 4/3/63
CHECKED Taylor 10 APRIL 63
APPROVAL
APPROVAL 12 APR 63

NASA APPROVAL 8/7/63

MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
IMU CONTROL PANEL

CODE IDENT NO

SIZE D

1014531

SCALE FULL

SHEET 9 OF 9

APPLICATION	
NEXT ASSY	USED ON
1014526	1014513

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A_1	(A1) COMPLETELY REVISED PER MXC 200182	27 MAY 63	LK
B	(B) CHANGED IN ACCORDANCE WITH MXC 20023C	15 JUL 63	J.J.
C	(C) UPGRADED FOR CLASS A RELEASE INITIAL, TDRR 02421	5 AUG 63	WK
D4	REVISED PER TDRR NO. 04799	26 NOV 63	WK
E_{10}	REVISED PER TDRR NO. 04800	26 NOV 63	WK
F	REVISED PER TDRR NO. 05900	27 JAN 64	WK
G	REVISED PER TDRR NO. 06725	10 MAR 64	WK.
H	REVISED PER TDRR NO. 07387	10 APR 64	JJ
J	REVISED PER TDRR 07572	28 APR 64	JMP

(M)

REV STATUS OF SHEETS									
REV	J	H	H	J	J	J	E	H	J
SHEET	1	2	3	4	5	6	7	8	9

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN DATE 4/3/63
CHECKED 10 APRIL 63
APPROVAL 16 APRIL 63
APPROVAL 16 APR 63
NASA APPROVAL 7/1/63
MIT APPROVAL
CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
IMU CONTROL PANEL

CODE IDENT NO. | SIZE A | 1014531 | REV J
SCALE FULL | SHEET 1 OF 9

G I PREFIX 50A2 H 1014531

PENNANT NOTE GENERAL NOTES

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

MARK CONDUCTOR IDENTIFICATION PER ND1002019(ES-2469).

3 TWIST CONDUCTORS A1 AND A2, A4 AND A5, A6 AND A7, A20 AND A21, 18 TURNS PER FOOT.

Y OR N IN TINNED COLUMN INDICATES YES OR NO.

INSPECT PER REQUIREMENTS OF DWG. 1014531

SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 7 AND 8.

LENGTHS SPECIFIED ARE FOR WIRES BEFORE ATTACHING TO AN ACCESSORY

UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES, AT TRUE POSITION (TP) WITHIN PLUS OR MINUS 1/4 - TRUE POSITION TOLERANCES ARE REGARDLESS OF FEATURE SIZE (RFS) - ENDS OF HOOKUP PLUS OR MINUS 1/8.

CONFIGURATION IS BASED ON 1 INCH SQUARE, TRUE POSITION GRID.

SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 2 INCHES, MAXIMUM.

SPIRALLING OF THE MARKINGS IS ALLOWED.

BREAKOUTS OF INDIVIDUAL OR GROUPS OF HOOK UP WIRES ARE MINIMUM CONFIGURATIONS.

CONDUCTOR INDIVIDUAL LENGTH COLUMN FOR REFERENCE ONLY.

INSTALL CRIMP STYLE TERMINALS PER ND1002206

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014531
SCALE-NONE | REV LTR H | SHEET 2 OF 9

G I PREFIX 50A2 H 1014531

PENNANT NOTE GENERAL NOTES

BIND WIRES TOGETHER USING MIL-T-713, TYPE P, CLASS 2 TAPE, FORM RUNNING LOCKSTITCH AT 1/2 INCH SPACING

IDENTIFY USING DWG. NO. AND REVISION LETTER PER ND1002019

PARTIAL REF. DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A2.

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014531
SCALE-NONE | REV LTR H | SHEET 3 OF 9

G I PREFIX 50A2 J 1014531

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014531-001	WIRE ND1002105, 24AWG TYPE 1, WHITE, 42 FT 4 IN TOTAL LENGTH
	2	1	1010347-001	CONNECTOR, ELECTRICAL
	3	33	1010738- 1	PINS, MALE
	5	1	1010638- 6	LUG, TERMINAL
	6	1	1014531-002	WIRE ND1002105, 22AWG TYPE 1, WHITE, 6 IN TOTAL LENGTH
	7	AR	QQ-S-571	SN60 SOLDER (ES-2175 ALLOY 1)
	8	AR	QQ-S-571	AR, FLUX (ES-2175, TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014531
SCALE-NONE | REV LTR J | SHEET 4 OF 9

G I PREFIX 50A2 J 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2>	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2>	TIN	TERMINATION SPEC. 1> ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2>	TIN	TERMINATION SPEC 1> ITEM NO.	NO.
A 1	1	950	P1- 1	10	N	3	1	M1- 1 (+)	25	Y		2
A 2	1	950	P1- 2	10	N	3	1	M1- 2 (-)	25	Y		2
A 3	1	925	P1- 12	10	N	3	1	S4- 1-NC	25	Y		7
A 4	1	950	P1- 14	10	N	3	1	M1- 3 (+)	25	Y		2
A 5	1	950	P1- 15	10	N	3	1	M1- 4 (-)	25	Y		2
A 6	1	950	P1- 29	10	N	3	1	M1- 5 (+)	25	Y		2
A 7	1	950	P1- 28	10	N	3	1	M1- 6 (-)	25	Y		2
A 8	1	925	P1- 56	10	N	3	1	S3- 1-NC	25	Y		4
A 9	1	975	P1- 68	10	N	3	1	S4- 3-C	25	Y		5
A 10	1	975	P1- 69	10	N	3	1	S4- 3-NC	25	Y		5
A 11	1	925	P1- 18	10	N	3	1	S4- 1-NO	25	Y		7
A 12	1	900	P1- 78	10	N	3	1	S3- 2-C	25	Y		3
A 13	1	1100	P1- 79	10	N	3	1	XDS10-HI	25	Y		16
A 14	1	950	P1- 81	10	N	3	1	S4- 2-NC	25	Y		6
A 15	1	900	P1- 92	10	N	3	1	XDS6-HI	25	Y		14
A 16	1	925	P1- 93	10	N	3	1	S3- 2-NC	25	Y		4
A 17	1	950	P1- 94	10	N	3	1	XDS8-HI	25	Y		19
A 18	1	950	P1-104	10	N	3	1	XDS5-HI	25	Y		8

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A 1014531
SCALE - NONE REV LTR J SHEET 5 OF 9

MIL 2085 - 4-63 WIR

G I PREFIX 50A2 J 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2>	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2>	TIN	TERMINATION SPEC. 1> ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2>	TIN	TERMINATION SPEC 1> ITEM NO.	NO.
A 19	1	1150	P1-105	10	N	3	1	XDS7-HI	25	Y		13
A 20	1	950	P1-107	10	N	3	1	M1-XDS- 8	25	Y		2
A 21	1	950	P1-108	10	N	3	1	M1-XDS- 7	25	Y		2
A 22	1	1100	M1-XDS- 8	25	Y		2	XDS8-LO	25	Y		19
A 23	1	1200	P1- 22	25	Y	3	1	XDS9-HI	25	Y		15
A 24	1	500	XDS5-LO	25	Y		8	XDS6-LO	25	Y		14
A 25	1	500	XDS6-LO	25	Y		14	XDS8-LO	25	Y		19
A 26	1	750	XDS5-LO	25	Y		8	XDS7-LO	25	Y		13
A 27	1	650	XDS10-LO	25	Y		16	XDS9-LO	25	Y		15
A 28	1	1050	XDS9-LO	25	Y		15	XDS7-LO	25	Y		13
A 29	1	1200	S3- 2-C	25	Y		4	S5- 2-C	25	Y		9
A 30	1	900	P1- 37	10	N	3	1	S3- 1-C	25	Y		3
A 31	1	950	P1- 46	10	N	3	1	S4- 2-NO	25	Y		6
A 32	1	1125	P1- 23	10	N	3	1	S8- 1-NC	25	Y		18
A 33	1	950	P1- 24	10	N	3	1	S4- 2-C	25	Y		6
A 34	1	1225	P1- 25	10	N	3	1	S10- 1-NC	25	Y		17
A 35	1	1175	P1- 34	10	N	3	1	S5- 1-NC	25	Y		9
A 36	1	1175	P1- 35	10	N	3	1	S6- 1-NC	25	Y		12

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A 1014531
SCALE - NONE REV LTR J SHEET 6 OF 9

MIL 2085 - 4-63 WIR

G I PREFIX 50A2 E 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2>	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2>	TIN	TERMINATION SPEC. 1> ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2>	TIN	TERMINATION SPEC 1> ITEM NO.	NO.
A 37	1	1300	P1- 36	10	N	3	1	S7- 1-NC	25	Y		10
A 38	1	650	S10- 1-C	25	Y		17	S8- 1-NO	25	Y		18
A 39	1	1100	S7- 1-NO	25	Y		10	S8- 1-C	25	Y		18
A 40	1	600	S6- 1-NO	25	Y		12	S7- 1-C	25	Y		10
A 41	1	500	S5- 1-NO	25	Y		9	S6- 1-C	25	Y		12
A 42	1	600	S9- 1-NO	25	Y		11	S5- 1-C	25	Y		9
A 43	1	1225	S10- 1-NO	25	Y		17	P1- 9	25	N	3	1
A 44	1	750	S3- 2-NC	25	Y		4	S4- 1-C	25	Y		7
A 45	1	1175	P1- 6	10	N	3	1	S5- 2-NC	25	Y		9
A 46	1	500	S5- 2-NC	25	Y		9	S6- 2-NC	25	Y		12
A 47	1	600	S6- 2-NC	25	Y		12	S7- 2-NC	25	Y		10
A 48	1	1100	S7- 2-NC	25	Y		10	S8- 2-NC	25	Y		18
A 49	1	1125	S8- 2-NC	25	Y		18	S9- 2-NC	25	Y		11
A 50	1	500	S5- 2-C	25	Y		9	S6- 2-C	25	Y		12
A 51	1	600	S6- 2-C	25	Y		12	S7- 2-C	25	Y		10
A 52	1	1100	S7- 2-C	25	Y		10	S8- 2-C	25	Y		18
A 53	1	1125	S8- 2-C	25	Y		18	S9- 2-C	25	Y		11
A 54	1	500	S9- 2-C	25	Y		11	S9- 1-C	25	Y		11

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A 1014531
SCALE - NONE REV LTR E SHEET 7 OF 9

MIL 2085 - 4-63 WIR

G I PREFIX 50A2 H 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2>	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2>	TIN	TERMINATION SPEC. 1> ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2>	TIN	TERMINATION SPEC 1> ITEM NO.	NO.
A 55	1	1350	S4- 2-NO	25	Y		6	S9- 1-NC	25	Y		11
A 56	6	325	P1- 91	10	N	3	1	E1	25	Y	5	20

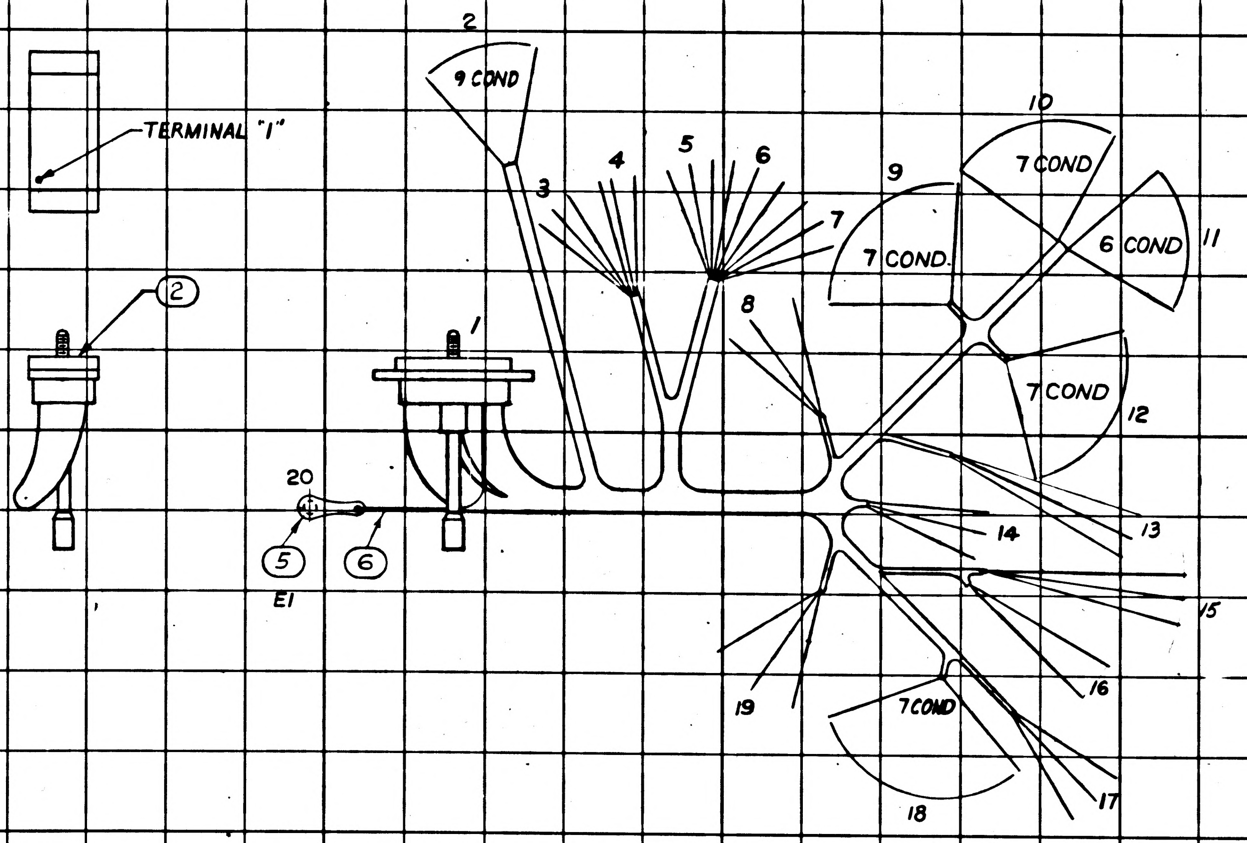
1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A 1014531
SCALE - NONE REV LTR H SHEET 8 OF 9

MIL 2085 - 4-63 WIR

1014531

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
SEE SHT 1 FOR REVISION RECORD TDRR 02421, INITIAL RELEASE REV. C				7 AUG 63	
D		SEE SHEET NO. 1		26 NOV 63	
E		SEE SHEET NO. 1		26 NOV 63	
J		SEE SHEET NO. 1.		20 APR 64	



TERMINAL "I"
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7 COND.
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7 COND
6 COND
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7 COND
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7 COND
18
19

1014526	1014513
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 4/3/63
CHECKED 10 APRIL 63
APPROVAL 16 APRIL 63
APPROVAL 16 APR 63
NASA APPROVAL 5/7/63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
IMU CONTROL PANEL

CODE IDENT NO.
SIZE D
1014531
SCALE FULL
SHEET 9 OF 9

G I PREFIX 50A2 H 1014531

PENNANT NOTE

GENERAL NOTES

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

MARK CONDUCTOR IDENTIFICATION PER ND1002019(ES-2469).

3 TWIST CONDUCTORS A1 AND A2, A4 AND A5, A6 AND A7, A20 AND A21, 18 TURNS PER FOOT.

Y OR N IN TINNED COLUMN INDICATES YES OR NO.

INSPECT PER REQUIREMENTS OF DWG. 1014531

SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 7 AND 8.

LENGTHS SPECIFIED ARE FOR WIRES BEFORE ATTACHING TO AN ACCESSORY

UNLESS OTHERWISE SPECIFIED - FEATURE CENTERLINES, AT TRUE POSITION (TP) WITHIN PLUS OR MINUS 1/4 - TRUE POSITION TOLERANCES ARE REGARDLESS OF FEATURE SIZE (RFS) - ENDS OF HOOKUP PLUS OR MINUS 1/8.

CONFIGURATION IS BASED ON 1 INCH SQUARE, TRUE POSITION GRID.

SPACING OF CONDUCTOR IDENTIFICATION SHALL BE EVERY 2 INCHES, MAXIMUM.

SPIRALLING OF THE MARKINGS IS ALLOWED.

BREAKOUTS OF INDIVIDUAL OR GROUPS OF HOOK UP WIRES ARE MINIMUM CONFIGURATIONS.

CONDUCTOR INDIVIDUAL LENGTH COLUMN FOR REFERENCE ONLY.

INSTALL CRIMP STYLE TERMINALS PER ND1002206

MANNED
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SIZE A
1014531
SCALE-NONE REV LTR H SHEET 2 OF 9

MIL 2084 4-63

G I PREFIX 50A2 K 1014531

PENNANT

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014531-001	WIRE ND1002105, 24AWG TYPE 1, WHITE, 42 FT 4 IN TOTAL LENGTH
	2	1	1010347-001	CONNECTOR, ELECTRICAL
	3	33	1010738- 1	PINS, MALE
	5	1	1010638- 6	LUG, TERMINAL
	6	1	1014531-002	WIRE ND1002105, 22AWG TYPE 1, WHITE, 6 IN TOTAL LENGTH
	7	AR	QQ-S-571	SN60 SOLDER (ES-2175 ALLOY 1)
	8	AR	QQ-S-571	AR, FLUX (ES-2175, TYPE 1 OR 2) OR MIL-F-14256 FLUX (ES-2798)
	9	52	1010476- 82	INSULATION SLEEVING
	10	8	1010476-112	INSULATION SLEEVING

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SIZE A
1014531
SCALE-NONE REV LTR K SHEET 4 OF 9

MIL 2084 4-63

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014526	1014513	A_1	Ⓐ COMPLETELY REVISED PER MXC 200182	27 MAY 63	LK
		B	Ⓑ CHANGED IN ACCORDANCE WITH MXC 200236	15 JUL 63	J.J.S.
		C	Ⓒ UPGRADED FOR CLASS A RELEASE INITIAL, TDRR 02421	5 AUG 63	WK
		D_4	REVISED PER TDRR NO. 04799	26 NOV 63	WK
		E_{10}	REVISED PER TDRR NO. 04800	26 NOV 63	WK
		F	REVISED PER TDRR NO. 05900	27 JAN 64	WK
		G	REVISED PER TDRR NO. 06725	10 MAR 64	WK.
		H	REVISED PER TDRR NO. 07387	10 APR 64	J.J.J.
		Ⓜ J	REVISED PER TDRR 07572	20 APR 64	JWP
		K	REVISED PER TDRR 10367	7 JUL 64	FL W.S.

REV STATUS OF SHEETS	REV	K	H	H	K	K	K	K	K	J
	SHEET	1	2	3	4	5	6	7	8	9

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 4/3/63
CHECKED 10 APRIL 63
APPROVAL V. J. Moran 16 APRIL 63
APPROVAL 16 APR 63
NASA APPROVAL 1/7/63
MIT APPROVAL
CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
IMU CONTROL PANEL

CODE IDENT NO. SIZE A 1014531 REV K
SCALE FULL SHEET 1 OF 9

G I PREFIX 50A2 H 1014531

PENNANT NOTE

GENERAL NOTES

BIND WIRES TOGETHER USING MIL-T-713, TYPE P, CLASS 2 TAPE, FORM RUNNING LOCKSTITCH AT 1/2 INCH SPACING

IDENTIFY USING DWG. NO. AND REVISION LETTER PER ND1002019

PARTIAL REF. DESIGNATIONS ARE SHOWN, FOR COMPLETE DESIGNATION PREFIX WITH 50A2.

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

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SIZE A
1014531
SCALE-NONE REV LTR H SHEET 3 OF 9

MIL 2084 4-63

G I PREFIX 50A2 K 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
A 19	1	1150	P1-105	10	N	3	1	XDS7-HI	25	Y	9	13
A 20	1	950	P1-107	10	N	3	1	M1-XDS- 8	25	Y	10	2
A 21	1	950	P1-108	10	N	3	1	M1-XDS- 7	25	Y	10	2
A 22	1	1100	M1-XDS- 8	25	Y		2	XDS8-LO	25	Y	9	19
A 23	1	1200	P1- 22	25	Y	3	1	XDS9-HI	25	Y	9	15
A 24	1	500	XDS5-LO	25	Y	9	8	XDS6-LO	25	Y	9	14
A 25	1	500	XDS6-LO	25	Y		14	XDS8-LO	25	Y		19
A 26	1	750	XDS5-LO	25	Y		8	XDS7-LO	25	Y	9	13
A 27	1	650	XDS10-LO	25	Y	9	16	XDS9-LO	25	Y	9	15
A 28	1	1050	XDS9-LO	25	Y		15	XDS7-LO	25	Y		13
A 29	1	1200	S3- 2-C	25	Y		4	S5- 2-C	25	Y	9	9
A 30	1	900	P1- 37	10	N	3	1	S3- 1-C	25	Y	9	3
A 31	1	950	P1- 46	10	N	3	1	S4- 2-NO	25	Y	9	6
A 32	1	1125	P1- 23	10	N	3	1	S8- 1-NC	25	Y	9	18
A 33	1	950	P1- 24	10	N	3	1	S4- 2-C	25	Y	9	6
A 34	1	1225	P1- 25	10	N	3	1	S10- 1-NC	25	Y	9	17
A 35	1	1175	P1- 34	10	N	3	1	S5- 1-NC	25	Y	9	9
A 36	1	1175	P1- 35	10	N	3	1	S6- 1-NC	25	Y	9	12

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
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HOUSTON, TEXAS
SIZE A
1014531
SCALE-NONE REV LTR K SHEET 6 OF 9

MIL 2085 - 4-65 WIR

G I PREFIX 50A2 K 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
A 55	1	1350	S4- 2-NO	25	Y		6	S9- 1-NC	25	Y	9	11
A 56	6	325	P1- 91	10	N	3	1	E1	25	Y	5	20

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
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HOUSTON, TEXAS
SIZE A
1014531
SCALE-NONE REV LTR K SHEET 8 OF 9

MIL 2085 - 4-65 WIR

G I PREFIX 50A2 K 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
A 1	1	950	P1- 1	10	N	3	1	M1- 1 (+)	25	Y	10	2
A 2	1	950	P1- 2	10	N	3	1	M1- 2 (-)	25	Y	10	2
A 3	1	925	P1- 12	10	N	3	1	S4- 1-NC	25	Y	9	7
A 4	1	950	P1- 14	10	N	3	1	M1- 3 (+)	25	Y	10	2
A 5	1	950	P1- 15	10	N	3	1	M1- 4 (-)	25	Y	10	2
A 6	1	950	P1- 29	10	N	3	1	M1- 5 (+)	25	Y	10	2
A 7	1	950	P1- 28	10	N	3	1	M1- 6 (-)	25	Y	10	2
A 8	1	925	P1- 56	10	N	3	1	S3- 1-NC	25	Y	9	4
A 9	1	975	P1- 68	10	N	3	1	S4- 3-C	25	Y	9	5
A 10	1	975	P1- 69	10	N	3	1	S4- 3-NC	25	Y	9	5
A 11	1	925	P1- 18	10	N	3	1	S4- 1-NO	25	Y	9	7
A 12	1	900	P1- 78	10	N	3	1	S3- 2-C	25	Y	9	3
A 13	1	1100	P1- 79	10	N	3	1	XDS10-HI	25	Y	9	16
A 14	1	950	P1- 81	10	N	3	1	S4- 2-NC	25	Y	9	6
A 15	1	900	P1- 92	10	N	3	1	XDS6-HI	25	Y	9	14
A 16	1	925	P1- 93	10	N	3	1	S3- 2-NC	25	Y	9	4
A 17	1	950	P1- 94	10	N	3	1	XDS8-HI	25	Y	9	19
A 18	1	950	P1-104	10	N	3	1	XDS5-HI	25	Y	9	8

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SIZE A
1014531
SCALE-NONE REV LTR K SHEET 5 OF 9

MIL 2085 - 4-65 WIR

G I PREFIX 50A2 K 1014531

CONDUCTOR			FROM					TO				
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.
A 37	1	1300	P1- 36	10	N	3	1	S7- 1-NC	25	Y	9	10
A 38	1	650	S10- 1-C	25	Y	9	17	S8- 1-NO	25	Y	9	18
A 39	1	1100	S7- 1-NO	25	Y	9	10	S8- 1-C	25	Y	9	18
A 40	1	600	S6- 1-NO	25	Y	9	12	S7- 1-C	25	Y	9	10
A 41	1	500	S5- 1-NO	25	Y	9	9	S6- 1-C	25	Y	9	12
A 42	1	600	S9- 1-NO	25	Y	9	11	S5- 1-C	25	Y	9	9
A 43	1	1225	S10- 1-NO	25	Y	9	17	P1- 9	25	N	3	1
A 44	1	750	S3- 2-NC	25	Y		4	S4- 1-C	25	Y	9	7
A 45	1	1175	P1- 6	10	N	3	1	S5- 2-NC	25	Y	9	9
A 46	1	500	S5- 2-NC	25	Y		9	S6- 2-NC	25	Y	9	12
A 47	1	600	S6- 2-NC	25	Y		12	S7- 2-NC	25	Y	9	10
A 48	1	1100	S7- 2-NC	25	Y		10	S8- 2-NC	25	Y	9	18
A 49	1	1125	S8- 2-NC	25	Y		18	S9- 2-NC	25	Y	9	11
A 50	1	500	S5- 2-C	25	Y		9	S6- 2-C	25	Y	9	12
A 51	1	600	S6- 2-C	25	Y		12	S7- 2-C	25	Y	9	10
A 52	1	1100	S7- 2-C	25	Y		10	S8- 2-C	25	Y	9	18
A 53	1	1125	S8- 2-C	25	Y		18	S9- 2-C	25	Y	9	11
A 54	1	500	S9- 2-C	25	Y		11	S9- 1-C	25	Y	9	11

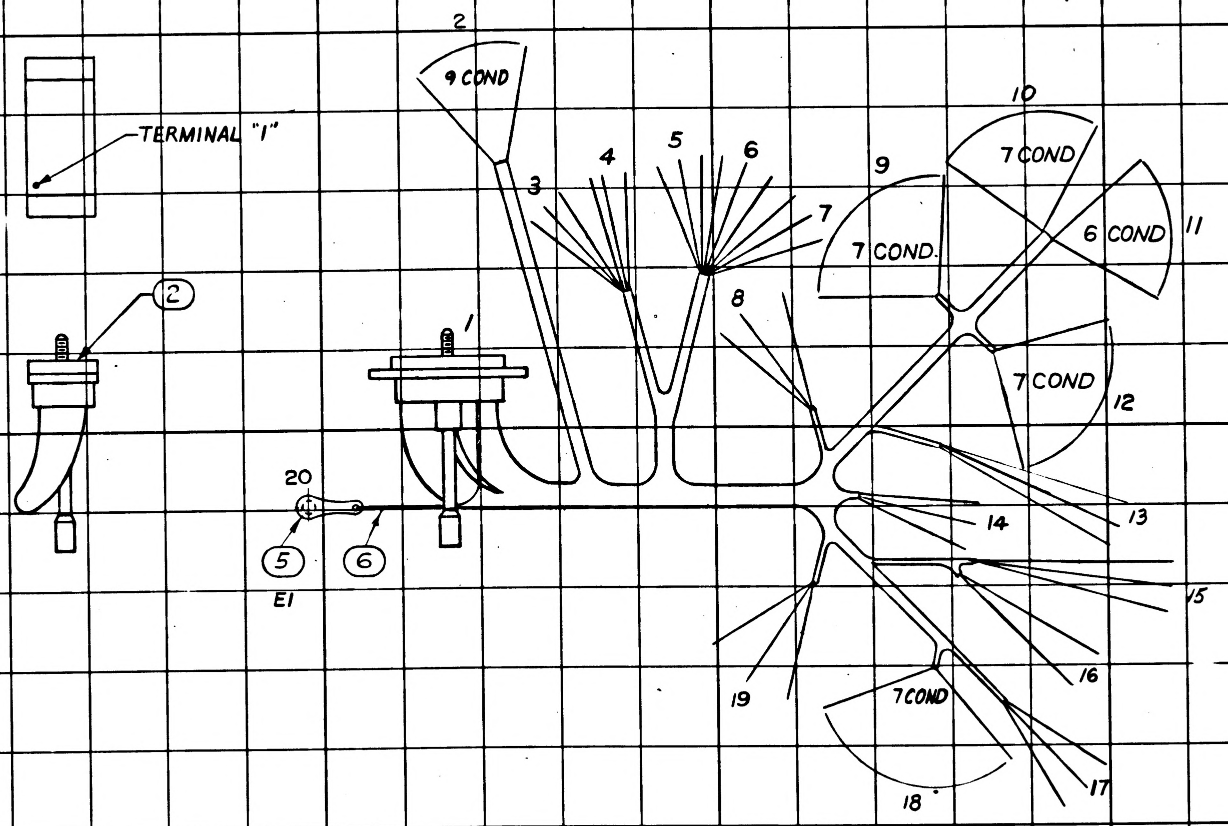
1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SIZE A
1014531
SCALE-NONE REV LTR K SHEET 7 OF 9

MIL 2085 - 4-65 WIR

1014531

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
SEE SHT 1 FOR REVISION RECORD TDRR 02421, INITIAL RELEASE REV. C				7 AUG 63	WR
D		SEE SHEET NO. 1		26 NOV 63	WK
E		SEE SHEET NO. 1		26 NOV 63	WK
J		SEE SHEET NO. 1.		20 APR 64	JW


TERMINAL "1"
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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

NEXT ASSY	USED ON
1014526	1014513

APPLICATION

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 4/3/63
CHECKED 10 APRIL 63
APPROVAL 16 APRIL 63
APPROVAL 16 APR 63
NASA APPROVAL 4/7/63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
IMU CONTROL PANEL

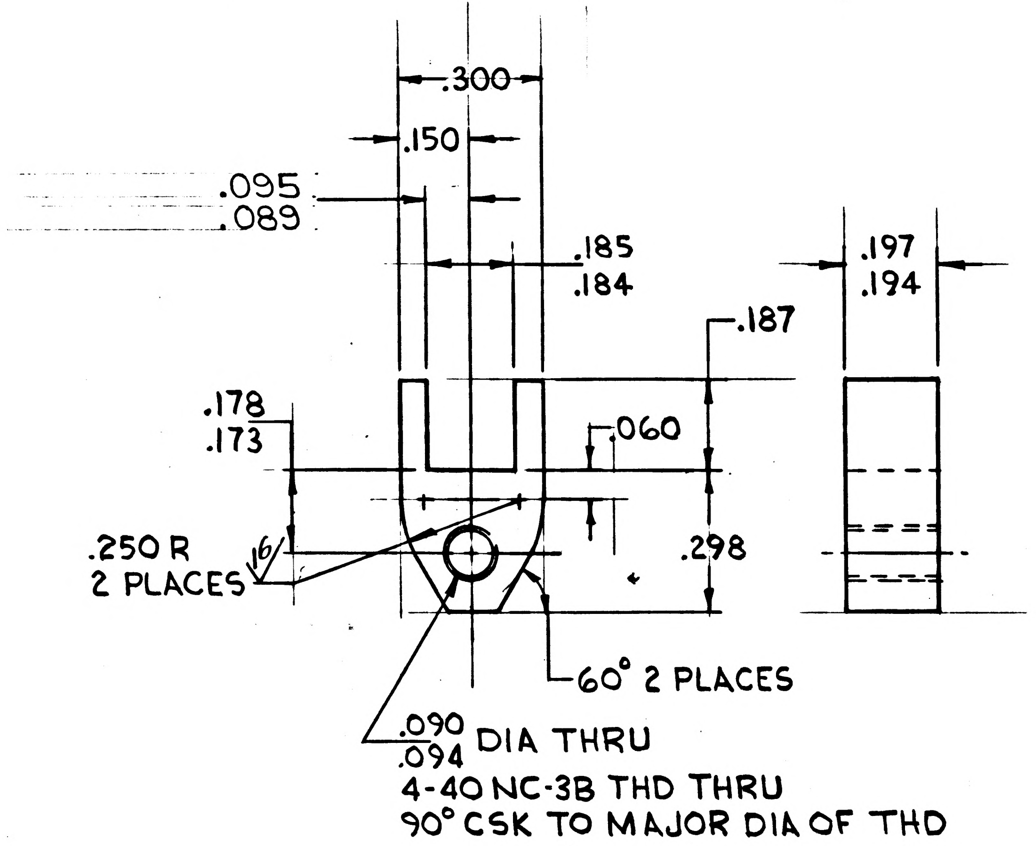
CODE IDENT NO.
SIZE D 1014531
SCALE FULL
SHEET 9 OF 9

1014533

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: QQ-S-763 CLASS 440C COND ACF (ES-373).
3. FINISH: MIL-F-14072 (SIG C) FINE 300 (ES-585).
4. HEAT TREAT TO 56-58 RC PER MIL-H-6875 (ES-2020).
5. UNLESS OTHERWISE SPECIFIED:
   - A. ALL CORNERS MUST NOT EXCEED .010R OR CHAMFER.
   - B. SURFACE ROUGHNESS SHALL NOT EXCEED $\sqrt{}^{32}$
6. MUST BE FREE FROM BURRS.
7. IDENTIFY USING PART NUMBER AND REVISION LETTER PER ND 1002019

REVISIONS TDRR 05718					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.



.300
.150
.095
.089
.185
.184
.197
.194
.187
.178
.173
.060
.250 R
2 PLACES
16
.298
60° 2 PLACES
.090
.094 DIA THRU
4-40 NC-3B THD THRU
90° CSK TO MAJOR DIA OF THD

1014558-011 NEXT ASSY	1014558-011 USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ±.02 3 PLACE DECIMALS ±.005 ANGLES ±1°	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
APPLICATION		DO NOT SCALE THIS DRAWING	ACSP PN
		MATERIAL SEE NOTE 2	DRAWN R.W. Heisel DATE 22 OCT 63
		CONTRACT NAS 9-497	CHECKED J. F. Petrasy 18 DEC 63
			APPROVAL Earl Mast 17 DEC 63
			APPROVAL M. J. Sivan 18 DEC 63
			NASA APPROVAL
			MIT APPROVAL W. Coffer 10 Jan 1964

MANNED
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HOUSTON, TEXAS

CAM, SECTOR

CODE IDENT NO.	SIZE	
	C	1014533
SCALE 4:1		SHEET 1 OF 1

MIL 1077C-P

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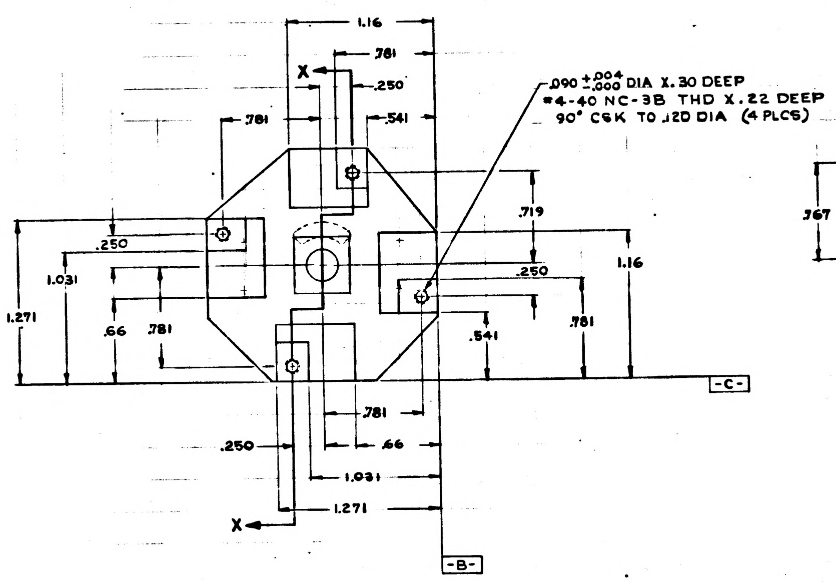
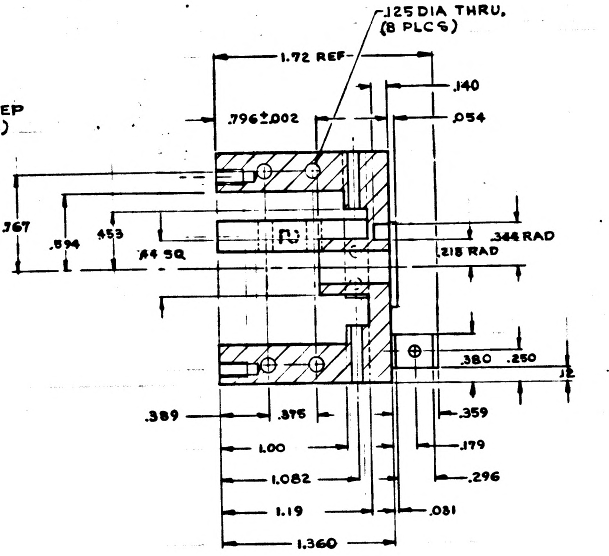
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
	INITIALCLASS A RELEASE TDRR NO. 13914		

NOTES:
1. INTERPRET DWG IN ACCORDANCE WITH STD PRESCRIBED BY MIL-D-70327
2. MATERIAL: QQ-A-225/6a, AL ALY, 2024, TEMPER T4 (ES-2104).
3. FINISH: ANODIZE IN ACCORDANCE WITH MIL-A-8625, TYPE I, (ES-385).
4. UNLESS OTHERWISE SPECIFIED:
   - a. ALL CORNERS TO BE .005 TO .015 RAD. OR CHAMFER.
   - b. SURFACE ROUGHNESS MUST NOT EXCEED 63√
   - c. REMOVE ALL BURRS
5. IDENTIFY USING DWG NO. AND REV. LETTER PER ND 1002019
6. MARK CHARACTERS PER ND1002019, .09 HIGH, COLOR WHITE, USING RUBBER STAMP, STENCIL, OR SILK SCREEN.

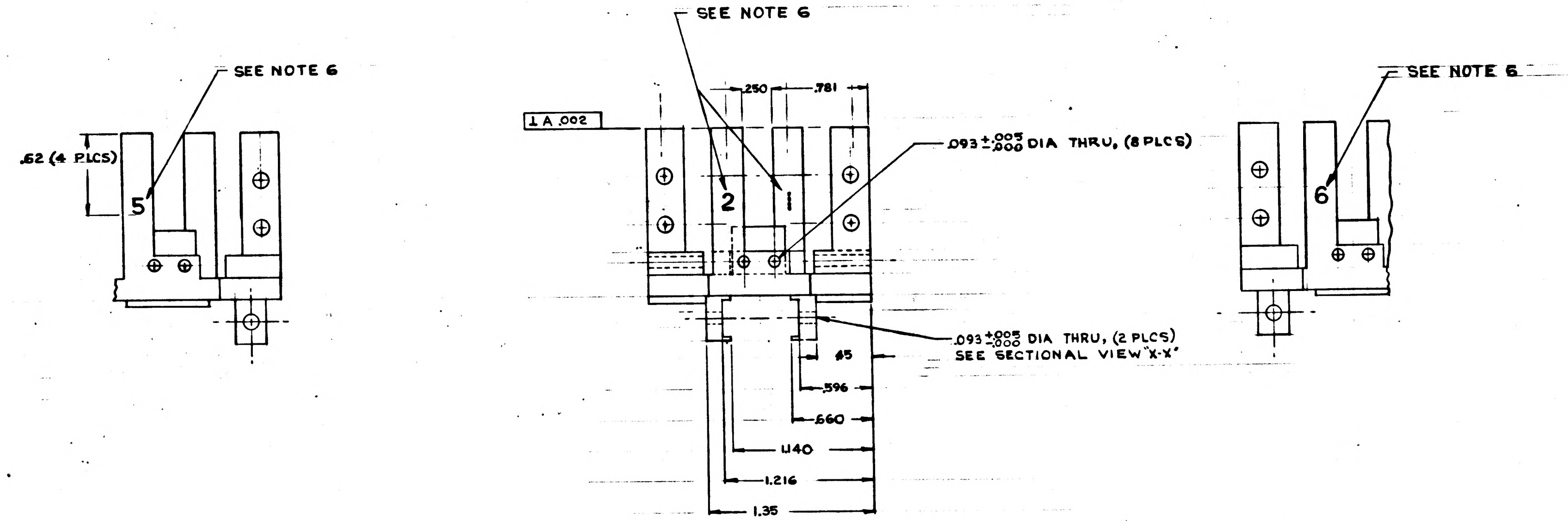


1.16
.781
X
.250
.541
.781
.090 +.004 −.000 DIA X.30 DEEP
#4-40 NC-3B THD X.22 DEEP
90° CSK TO .120 DIA (4 PLCS)
.719
.250
1.031
.250
1.16
1.271
.66
.781
.781
.541
-C-
.781
.250
.66
1.031
1.271
X
-B-

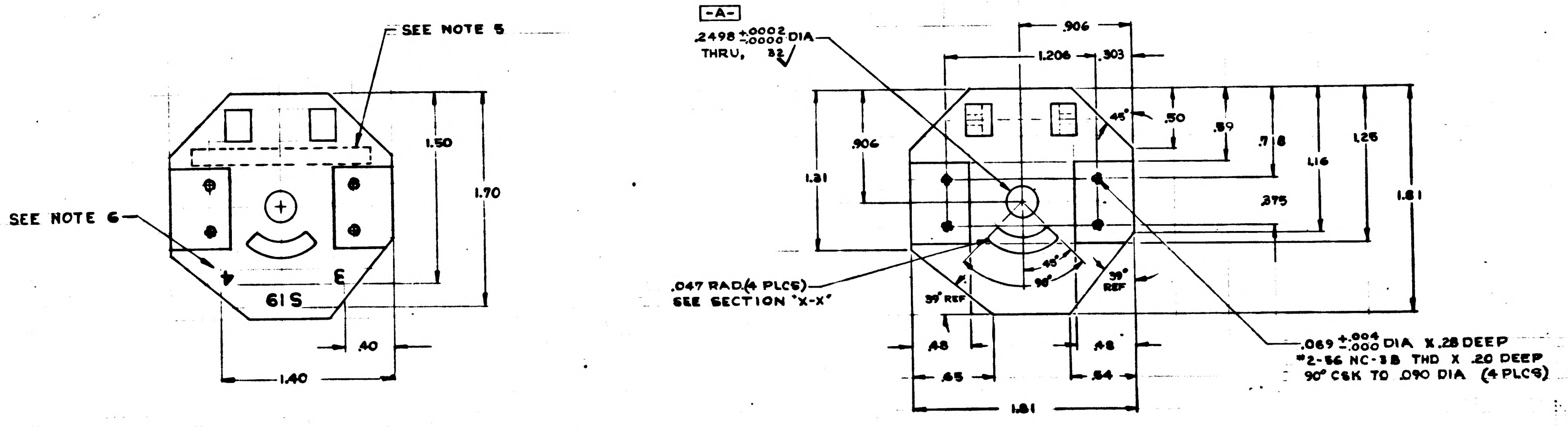


.125 DIA THRU, (8 PLCS)
1.72 REF
.140
.796±.002
.054
.767
.594
.453
.64 SQ
.344 RAD
.218 RAD
.380
.250
.12
.389
.375
.359
1.00
.179
1.082
.296
1.19
.031
1.360

SECTIONAL VIEW "X-X"



SEE NOTE 6
.62 (4 PLCS)
5
SEE NOTE 6
⊥ A .002
.250
.781
2
1
.093 +.005 −.000 DIA THRU, (8 PLCS)
.093 +.005 −.000 DIA THRU, (2 PLCS)
SEE SECTIONAL VIEW "X-X"
.65
.596
.660
1.140
1.216
1.35
SEE NOTE 6
6



SEE NOTE 5
1.50
1.70
SEE NOTE 6
4
3
61S
.40
1.40
-A-
.2498 +.0002 −.0000 DIA THRU, 32√
.906
1.206
.303
.906
45°
.50
.59
.718
1.16
1.25
1.31
.375
1.81
.047 RAD (4 PLCS)
SEE SECTION "X-X"
39° REF
90°
90°
39° REF
.069 +.004 −.000 DIA X.28 DEEP
#2-56 NC-3B THD X .20 DEEP
90° CSK TO .090 DIA (4 PLCS)
.48
.48
.65
.64
1.81

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

1015048-011	1015048-011
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
.XX DEC. ±.02 .XXX DEC. ±.005 ANGLES ±30'
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
HEAT TREATMENT ~
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO. CONTRACT NAS9-497
DRAWN DATE 17 AUG 64
CHECKED E. Metz 10-8-64
APPROVAL
APPROVAL
NASA APPROVAL 10-20-64
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

HOUSING

CODE IDENT NO. SIZE E NASA DRAWING NO. 1014537
SCALE 2/1 WT SHEET 1 OF 1

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

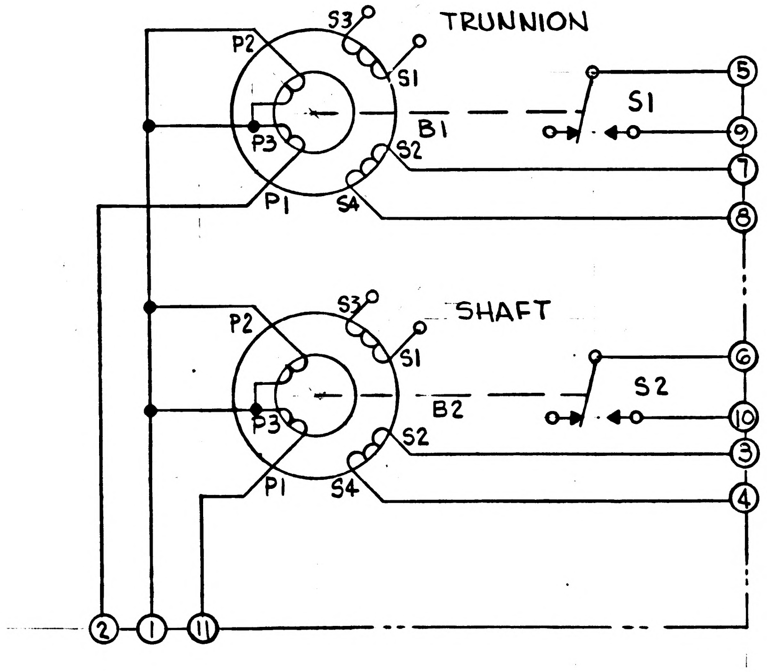
1014540 A

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A1	Ⓐ COMPLETELY REVISED TDRR 00962	23 APRIL 63	WK

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00601 DATE 20 MAR 63.



REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
B1		SYNCHRO			
B2		SYNCHRO			
S1		SWITCH			
S2		SWITCH			
TB1		TERMINAL BOARD			

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS — ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
HEAT TREATMENT —
FINAL FINISH —

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN R. LaDue DATE 10 JAN 62
CHECKED
APPROVAL H. Whaler
APPROVAL
NASA APPROVAL
MIT APPROVAL 20 Mar 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SEXTANT HAND CONTROLLER SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 1014540
SCALE —
WT
SHEET OF

DGC

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

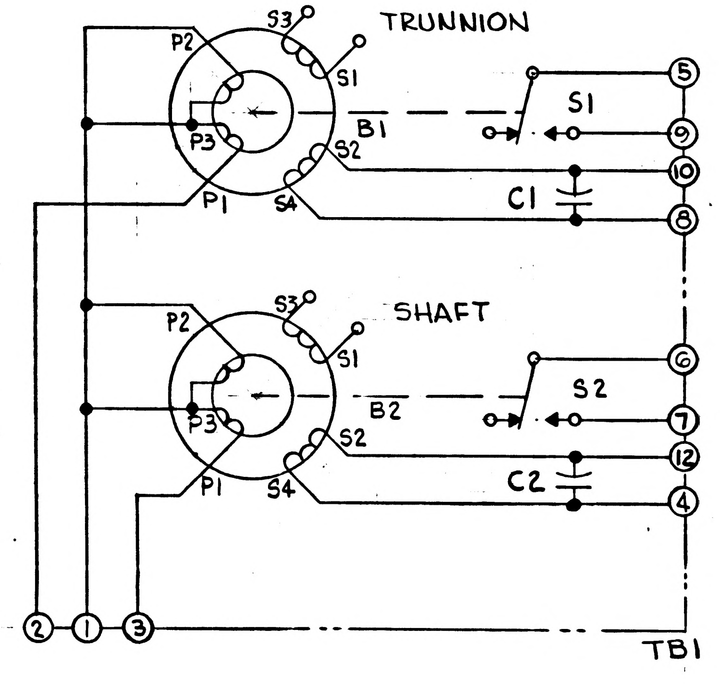
1014540 A

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1014540 B

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A1	(A1) COMPLETELY REVISED TDRR00962	23 APRIL 63	WK
B2	(B1) ADDED: C1 & C2, PART NO.'S & NOTES 3 & 4 (B2) TERMS 10 WAS 7, 7 WAS 10, 12 WAS 3, 3 WAS 11. UPGRADED FOR CLASS A RELEASE 02133	11 JUNE 63	24 July 63 WK



REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
B1	1010429	RESOLVER			
B2	1010429	RESOLVER			
S1	1010435-001	SWITCH			
S2	1010435-001	SWITCH			
TB1	1014564	TERMINAL BOARD			
C1	1010316-	CAPACITOR	NOTE 4	1%	100V
C2	1010316-	CAPACITOR	NOTE 4	1%	100V

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
3. PART NUMBERS ARE FOR REFERENCE ONLY
4. SELECT FROM 1010316-24 TO -26 INCLUSIVE SO THAT OUTPUT QUADRATURE VOLTAGE IS LESS THAN 300 MV.

MASTER

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014558	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS — ± #   DECIMALS ± #   ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO.
CONTRACT
DRAWN R. LaDue DATE 10 JAN 62
CHECKED F. J. Boehme
APPROVAL H. Whaley
APPROVAL D. Koso 7/22/63
NASA APPROVAL [illegible]
MIT APPROVAL WK 20 Jun 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SEXTANT HAND CONTROLLER
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 1014540
SCALE #
WT
SHEET
OF

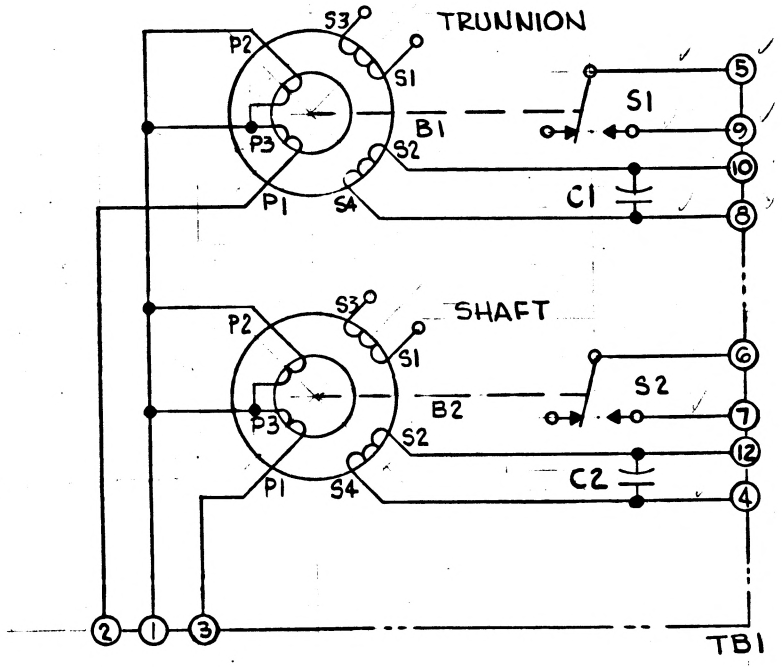
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1014540 C

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A₁	Ⓐ COMPLETELY REVISED TDRR 00962	23 APRIL 63	WK
B₂	Ⓑ ADDED: C1 & C2, PART NO.'S & NOTES 3 & 4 Ⓑ TERMS 10 WAS 7, 7 WAS 10, 12 WAS 3, 3 WAS 11. UPGRADED FOR CLASS A RELEASE 02133	11 JUNE 63	24 July 63 WK
C	REVISED PER TDRR NO. 04069	23 OCT. 63	WK



REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
B1	1010429	RESOLVER			
B2	1010429	RESOLVER			
S1	1010435-001	SWITCH			
S2	1010435-001	SWITCH			
TB1	1014564	TERMINAL BOARD			
C1	1010316-	CAPACITOR	NOTE 4	1%	100V
C2	1010316-	CAPACITOR	NOTE 4	1%	100V

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
3. PART NUMBERS ARE FOR REFERENCE ONLY
4. C1 AND C2 SELECTED, SEE ASSEMBLY DRAWING 1014558 FOR APPLICABLE DASH NUMBERS.

MASTER

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
1014558	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS — ± #   DECIMALS ± #   ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO.   CONTRACT
DRAWN R. LaDue   DATE 10 JAN 62
CHECKED F. J. Boehme
APPROVAL H. Whalen
APPROVAL D. A. Koso 7/22/63
NASA APPROVAL
MIT APPROVAL 20 Nov 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SEXTANT HAND CONTROLLER
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 1014540
SCALE #   WT   SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

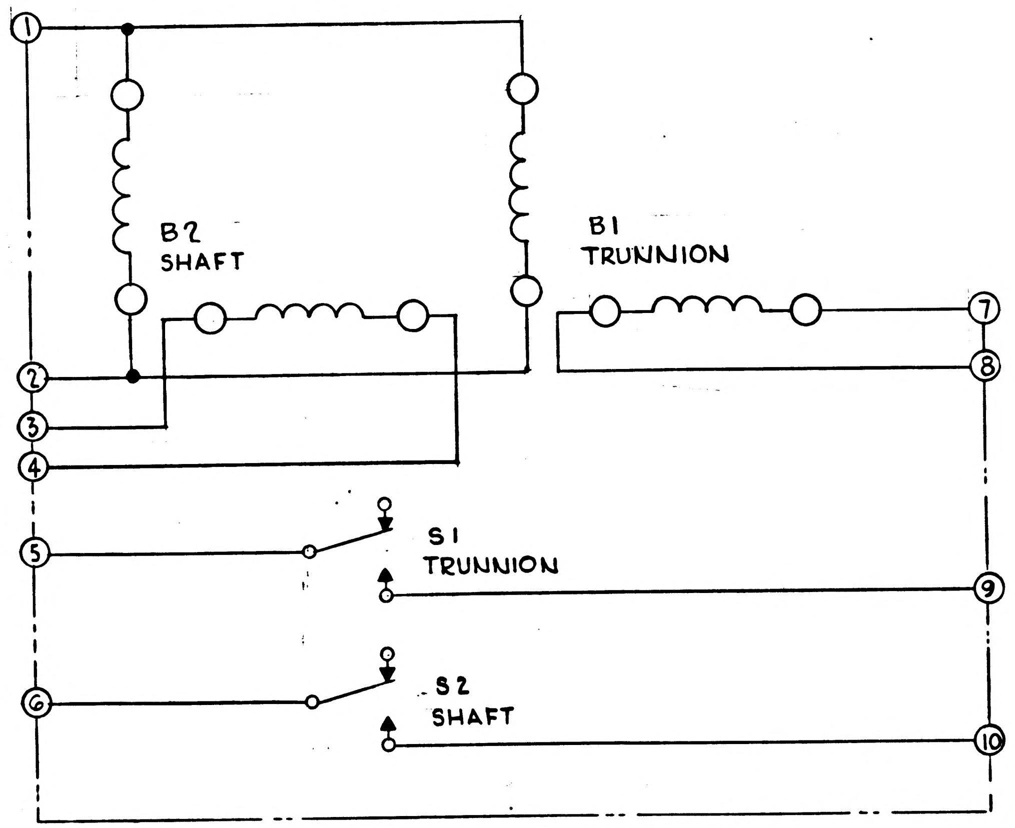
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1014540

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00601 **DATE** 20 MAR 63



REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
B1		SYNCHRO			
B2		SYNCHRO			
S1		SWITCH			
S2		SWITCH			
TB1		TERMINAL BOARD			

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± -//- DECIMALS ± -//- ANGLES ± -//-
DO NOT SCALE THIS DRAWING
MATERIAL -//-
HEAT TREATMENT -//-
FINAL FINISH -//-

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN R. LaDue DATE 10 JAN 62
CHECKED
APPROVAL H. Whaler
APPROVAL
NASA APPROVAL
MIT APPROVAL 20 Mar 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SEXTANT HAND CONTROLLER
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE C
NASA DRAWING NO. 1014540
SCALE -//-
WT
SHEET OF

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

1 MATERIAL: QQ-S-763 CLASS 303 OR 303SE COND A CF (ES-380).

FINISH: MIL-F-14072 (SIG C) FIN E 300 (ES-585).

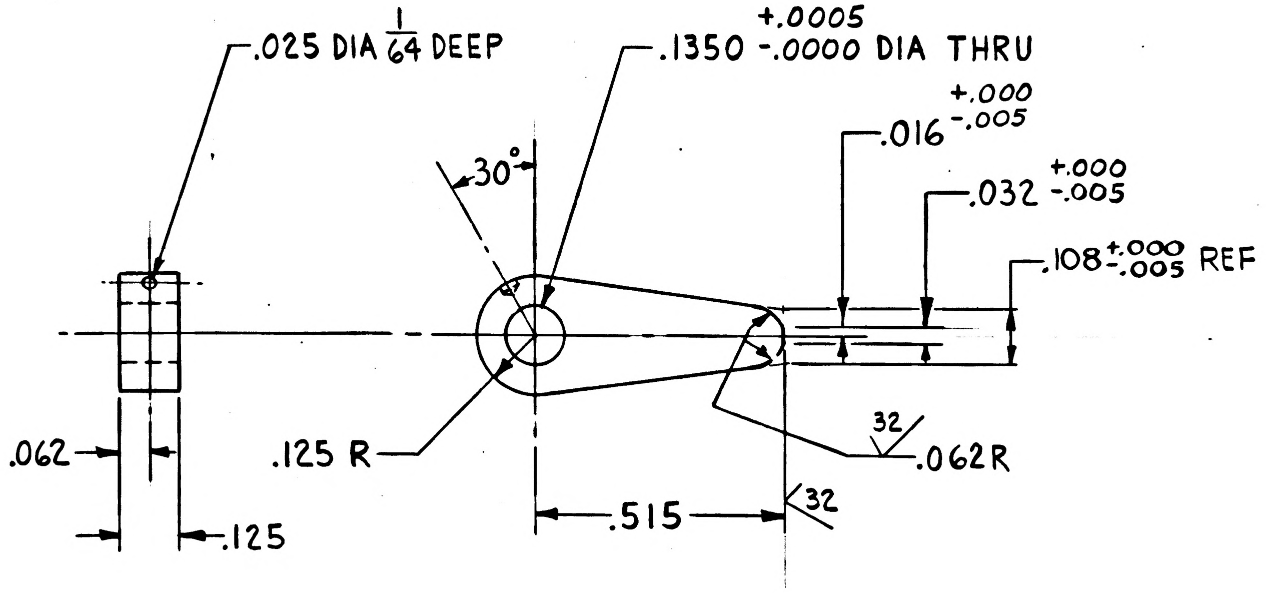
UNLESS OTHERWISE SPECIFIED:
SURFACE ROUGHNESS MUST NOT EXCEED 63.
ALL CORNERS MUST BE .005-.015 R OR CHAMFER.

MUST BE FREE FROM BURRS.

IDENTIFY USING DRAWING № AND REVISION LETTER PER MIL-STD-130 (ES-267)

REVISIONS TPRR C1383

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS 'A' RELEASE		2c MAY 63	



1014574	1014558
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ −	+.005	+1°
− −	−.005	−1°

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN J Koracin DATE 3 APR 63
CHECKED 19 APR 63
APPROVAL E. Mertz 17 APR 63
APPROVAL 19 APR 63
NASA APPROVAL
MIT APPROVAL 29 May

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ACTUATOR
TRUNNION SWITCH

CODE IDENT NO.
SIZE C
1014555
SCALE 4:1
SHEET

MIL 1077C-P

25 APR 63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014555 C

REVISIONS TDRR 01383					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS "A" RELEASE		20 MAY 63	

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

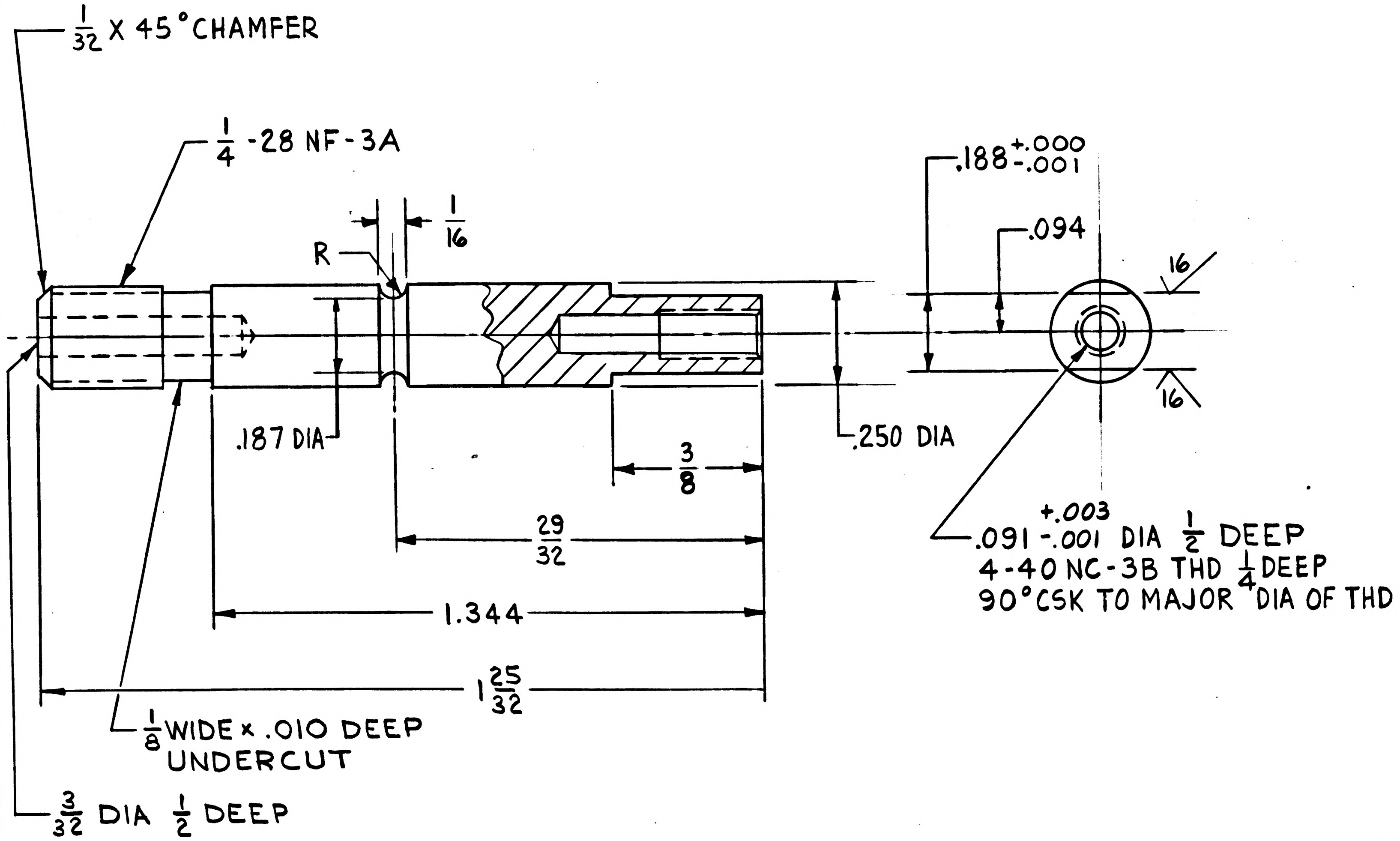
1 MATERIAL: QQ-S-763, CLASS 303 OR 303 SE, COND A CF (ES-380).

FINISH: MIL-F-14072 (SIG C) FIN E 300 (ES-585).

UNLESS OTHERWISE SPECIFIED:
ALL CORNERS MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 63.

MUST BE FREE FROM BURRS.

IDENTIFY USING DRAWING No AND REVISION LETTER PER MIL-STD-130 (ES-267)



1/32 X 45° CHAMFER
1/4 -28 NF-3A
R
1/16
.187 DIA
3/8
29/32
1.344
1 25/32
.250 DIA
.188 +.000 -.001
.094
16
16
.091 +.003 -.001 DIA 1/2 DEEP
4-40 NC-3B THD 1/4 DEEP
90° CSK TO MAJOR DIA OF THD
1/8 WIDE x .010 DEEP UNDERCUT
3/32 DIA 1/2 DEEP

1014558	1014558
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ 1/64	+.005	+ 1°
- 1/64	-.005	- 1°

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN F Koracin DATE 1 APR 63
MALIKOWSKI 4 APR 63
CHECKED
APPROVAL E. MERTZ 11 APR 63
APPROVAL A Wodel 11 APR 63
NASA APPROVAL
MIT APPROVAL 29 May 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SHAFT, HANDLE

CODE IDENT NO. SIZE C 1014557
SCALE 4:1 SHEET

MIL 1077C—P

Charleston 3.4.63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

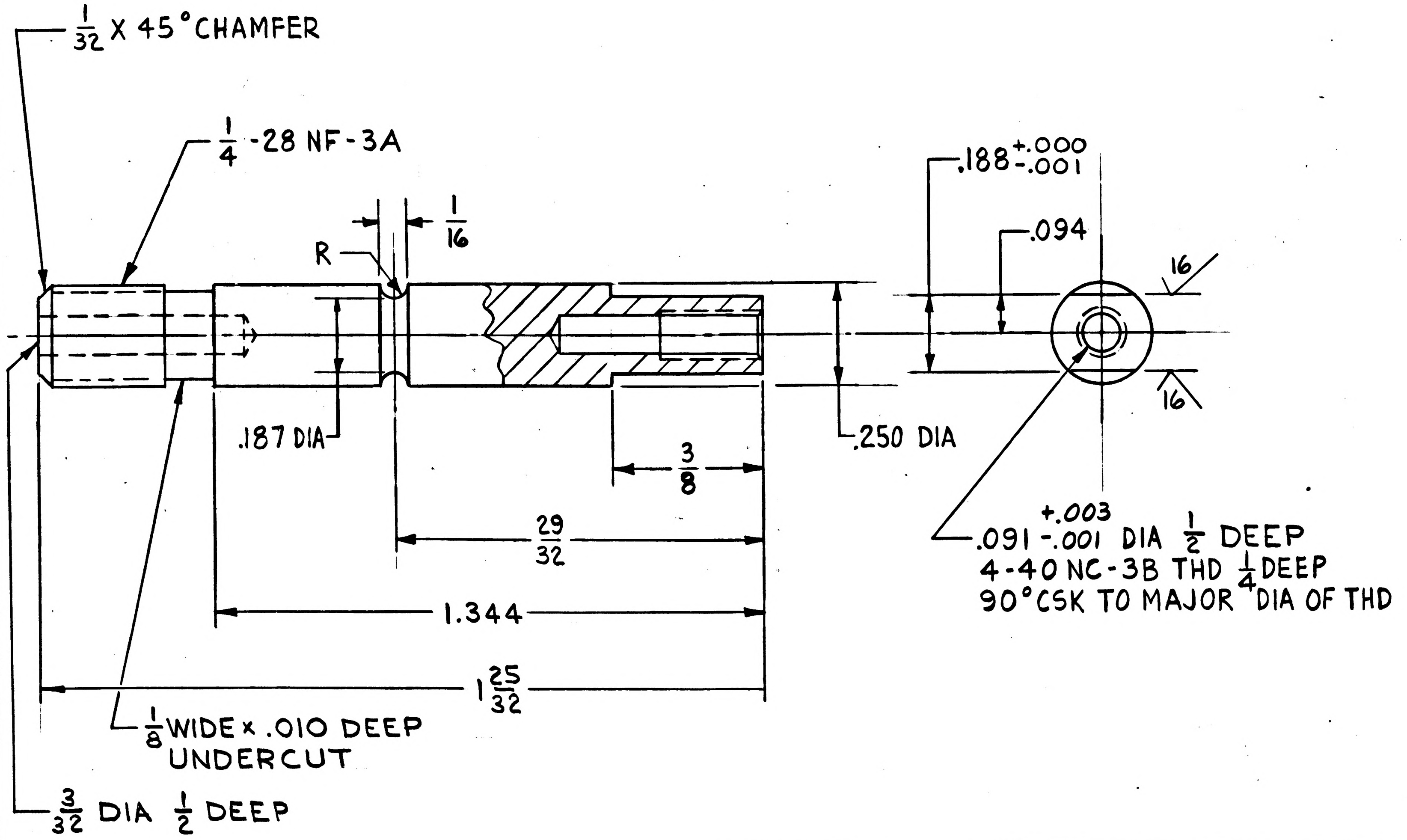
NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.
2. MATERIAL: QQ-S-763, CLASS 440C, COND A CF (ES-373).
3. FINISH: MIL-F-14072 (SIG C) FIN E 300 (ES-585).
4. UNLESS OTHERWISE SPECIFIED:
   A. ALL CORNERS MUST BE .005 TO .015R OR CHAMFER.
   B. SURFACE ROUGHNESS MUST NOT EXCEED 63.
5. MUST BE FREE FROM BURRS.
6. IDENTIFY USING DRAWING Nº AND REVISION LETTER PER MIL-STD-130 (ES-267)
7. HEAT TREAT TO 56-58 RC PER MIL-H-6875 (ES-2020).

REVISIONS TDRR 01383

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS "A" RELEASE		20 MAY 63	
D 4		REVISED PER TDRR NO. 03197		9/19/63	WK

Ⓜ



1/32 X 45° CHAMFER
1/4-28 NF-3A
R
1/16
.188 +.000 -.001
.094
16
16
.187 DIA
.250 DIA
3/8
29/32
1.344
1 25/32
.091 +.003 -.001 DIA 1/2 DEEP
4-40 NC-3B THD 1/4 DEEP
90° CSK TO MAJOR DIA OF THD
1/8 WIDE x .010 DEEP UNDERCUT
3/32 DIA 1/2 DEEP

NEXT ASSY	USED ON
1014558	1014558

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ 1/64	+.005	+ 1°
− 1/64	−.005	− 1°

DO NOT SCALE THIS DRAWING

MATERIAL
SEE NOTE 2

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN F Koracin DATE 1 APR 63
MALIKOWSKI 4 APR 63
CHECKED
APPROVAL E. MERTZ 11 APR 63
APPROVAL A Hodel 11 APR 63
NASA APPROVAL
MIT APPROVAL 29/May/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SHAFT, HANDLE

CODE IDENT NO.
SIZE C
1014557
SCALE 4:1
SHEET 1 OF 1

MIL 1077C—P

Charleston 3.4.63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

ATION ONLY
No. 00-179 DATE
6 MAR 1963

(11)

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A2	(A1) ADDED REF DESIGNATIONS TB1, B1, B2, S1, S2, & NOTE 11. (A2) ADDED ELEC SCHEMATIC PT NO. 1014540 TDRR 00602	19 MAR 63	WK.

QUAN	PART NO.	DESCRIPTION	MATERIAL	REMARKS
	1014540	SCHEMATC ELEC		
		NUT-FLUSH MOUNTED CLINCH		KAYNAR MFG CO K7000-02-6 ACSK 8599692-008
		NUT HEX		#2-56NC-3B ACSK 8599166-002
	1000093-1	SCREW BUTTON HD		#2-56NC-3A x 3/16 LG
	1000104-1	SCREW FLAT HD		#2-56NC-3A x 3/16 LG
	1000093-2	SCREW BUTTON HD		#2-56NC-3A x 1/4 LG
	1000093-6	SCREW BUTTON HD SELF LOCKING SOCKET HEX		#2-56NC-3A x 1/2 LG
		SCREW-CAP HD SELF LOCKING SOCKET HEX		LONG LOK #4-40NC-3A x 1/4 LG
		SCREW-SET SELF LOCKING SOCKET HEX		LONG LOK #2-56NC 3A x 3/16 LG
		SCREW-SET SELF LOCKING SOCKET HEX		LONG LOK #2-56NC 3A x 1/8 LG
	1000104-3	SCREW FLAT HD SELF LOCKING SOCKET HEX		
		NUT-SELF LOCKING		ACSK 8697507-002
	1000093-15	SCREW BUTTON HD SELF LOCKING SOCKET HEX		#4-40NC 3A x 3/8 LG
		WASHER FLAT	QQ-A-318 TEMPER H32	.156 O.D. .0621.D. .016 THK ACSK 8697292-100
		SCREW CAP HD SOCKET HEX		#0-80NF3A x 1/8 LG
		SPRING WASHER		ASSOCIATED SPRING CORP BRISTOL, CONN
		CLAMPS-MOUNTING		STERLING PT NO. C-2 PORT WASHINGTON L.I. NY
		SWITCH BASIC		MICRO 1HM1
		BEARING-FLANGED		SIAMCO PT NO. B165 36-11 33RD ST L.I.C. NY
		SPRING PLUNGER		VLIER ENG CORP 353-026-03 ALTERED 9/64 FLATS
		SYNCHRO RESOLVER		
		PLATE-BOTTOM	QQ-A-355 TEMPER T-3	
		COVER	QQ-A-355 TEMPER T-3	
		SUPPORT-PLUNGER		
		ACTUATOR		
		HANDLE		
		SHAFT & ACTUATOR		
		GEAR, SECTOR 72T 96P		
		GEAR, SECTOR WITH INTREGAL SHAFT 55T 96P		
		GEAR, SECTOR 55T 96P		
		SHAFT	QQ-S-763 CLASS 303 OR 303SE COND A CF	
12		TERMINAL STUD FEED THRU		ACSK 7926096-011
1		TERMINAL BOARD	MIL-P-18177	
		TERMINAL BOARD ASSY		
2		PIN-STRAIGHT		
4	1000104-3	SCREW-FLAT HD SELF LOCKING SOCKET HEX		#2-56NC-3A x 5/16 LG
1		PLATE-GIMBAL	QQ-A-355 TEMPER T-3	
1		GIMBAL	QQ-A-268 TEMPER T-4	
		GIMBAL ASSY		
2		PIN-STRAIGHT	QQ-S-763 CLASS 303 OR 303SE COND A, CF	1/16 DIA x 3/16 LG ACSK [illegible]186-080
5	1000104-4	SCREW FLAT HD SELF LOCKING SOCKET HEX		#2-56 NC-3A 3/8 LG
1		PLATE	QQ-A-355 TEMPER T-3	
1		HOUSING	QQ-A-268 TEMPER T-4	
		HOUSING ASSY		

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS 1/64 DECIMALS ±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH
SEE NOTES 1 & 2

M I T
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN J A LIMA DATE 3-4-63
CHECKED
APPROVAL 3-4-63
APPROVAL Tentative by TDRR # 00477
NASA APPROVAL 3/6/63
MIT APPROVAL

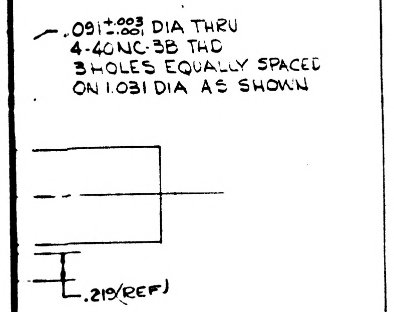
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

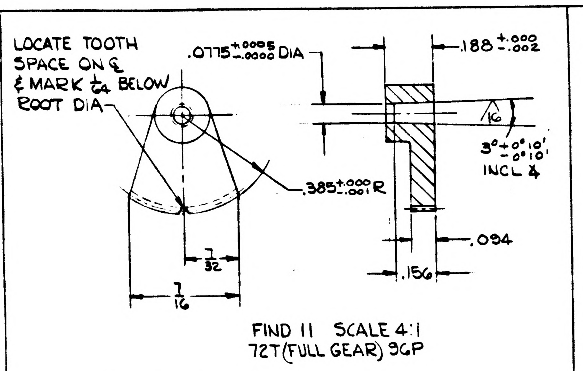
SEXTANT HAND CONTROLLER
ASSY

CODE IDENT NO.
SIZE
NASA DRAWING NO
1014558
SCALE 2:1
WT
SHEET OF

1014558 A

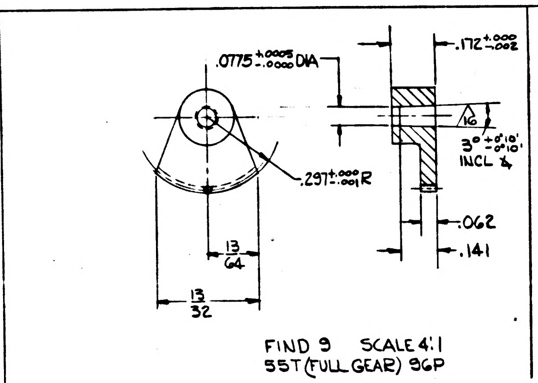
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY


.091 +.003/-.001 DIA THRU
4-40NC-3B THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA AS SHOWN
.219 (REF)

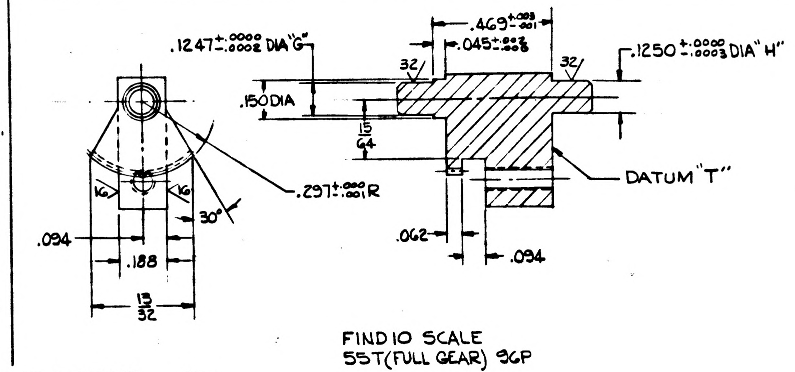

LOCATE TOOTH SPACE ON ℄ & MARK 1/64 BELOW ROOT DIA
.0775 +.0005/-.0000 DIA
.188 +.000/-.002
3° +0°10'/-0°10' INCL ∠
.385 +.000/-.001 R
.094
.156
1/32
1/16

FIND 11 SCALE 4:1
72T (FULL GEAR) 96P

PRES ∠ 20°
CHECKING PRES 6OZ
TOOTH TO TOOTH COMP ERROR .0004 MAX
TOTAL COMP ERROR .001


.0775 +.0005/-.0000 DIA
.172 +.000/-.002
3° +0°10'/-0°10' INCL ∠
.297 +.000/-.001 R
.062
.141
13/64
13/32

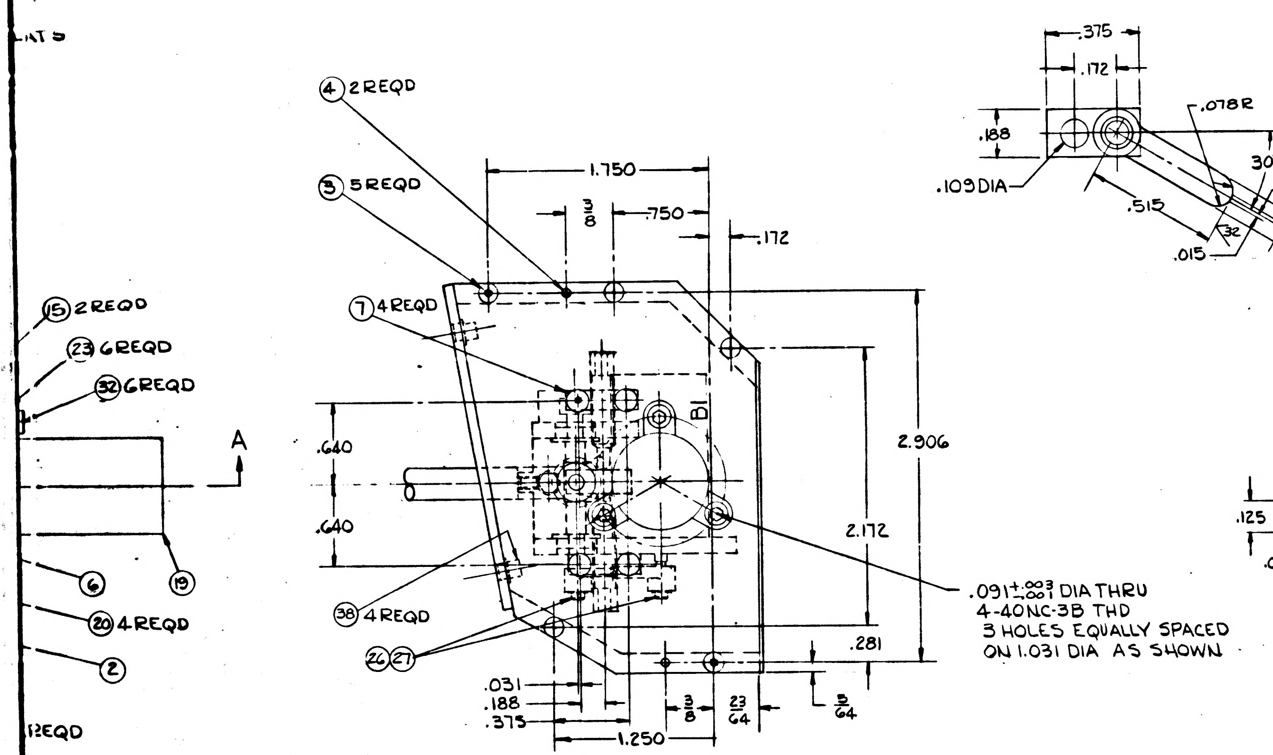
FIND 9 SCALE 4:1
55T (FULL GEAR) 96P

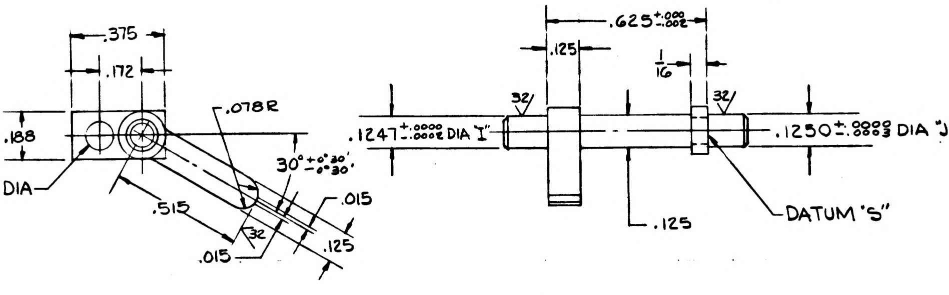

.1247 +.0000/-.0002 DIA "G"
.469 +.003/-.001
.045 +.002/-.000
.1250 +.0000/-.0003 DIA "H"
.150 DIA
15/64
DATUM "T"
.297 +.000/-.001 R
30°
1/16
.094
.062
.188
.094
13/32

FIND 10 SCALE
55T (FULL GEAR) 96P

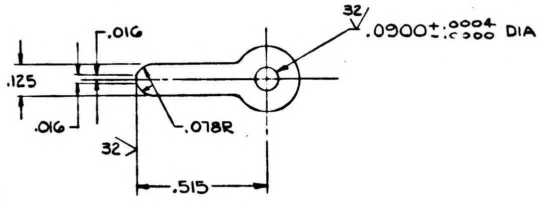
TOTAL COMP ERROR .001
PRES ∠ 20°
CHECKING PRES 4 OZ
TOOTH TO TOOTH COMP ERROR .0004 MAX
LOCATE TOOTH ON ℄ & MARK 1/64 BELOW ROOT DIA

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00479 DATE 6 MAR 1963


④ 2 REQD
⑤ 5 REQD
⑦ 4 REQD
⑮ 2 REQD
㉓ 6 REQD
㉜ 6 REQD
㊳ 4 REQD
⑳ 4 REQD
⑥
⑲
②
㉖㉗
A
B1
1.750
3/8
.750
.172
2.906
2.172
.640
.640
.281
.031
.188
.375
3/8
23/64
5/64
1.250
.091 +.003/-.001 DIA THRU
4-40NC-3B THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA AS SHOWN
2 REQD

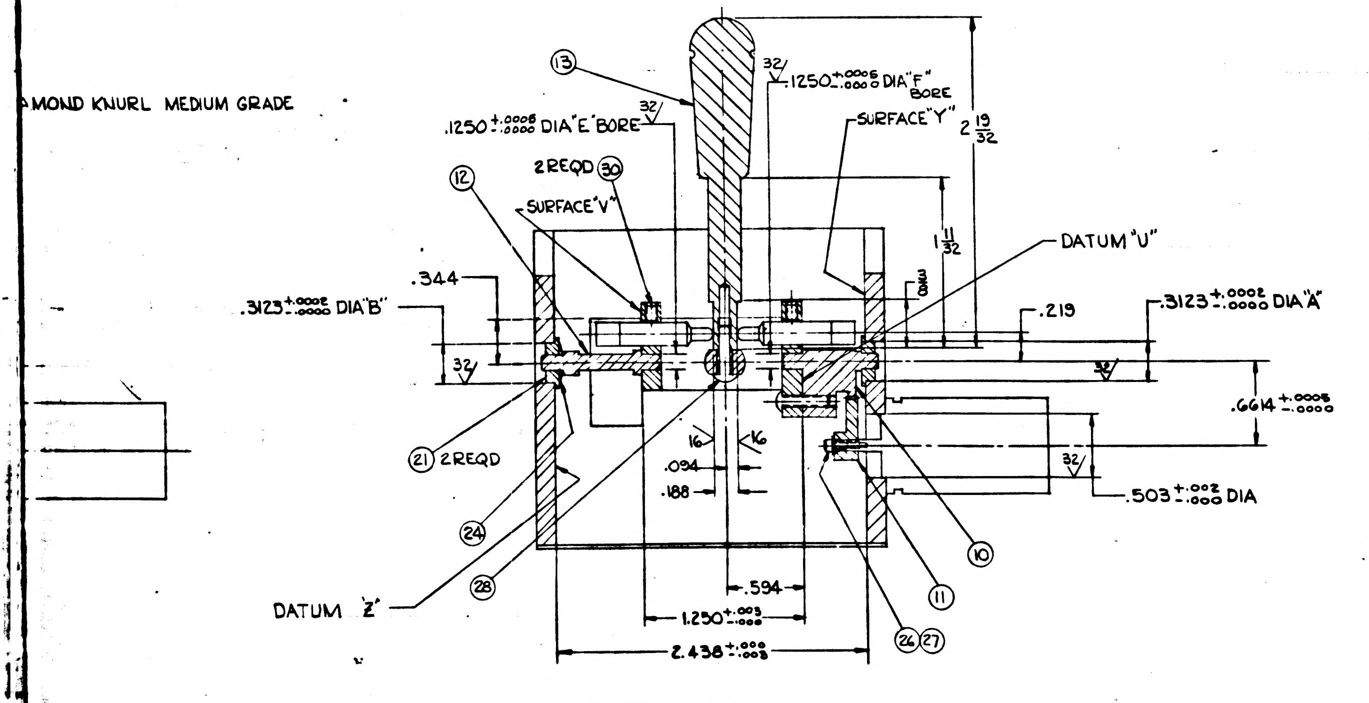

.375
.172
.188
.078 R
30° +0°30'/-0°30'
.109 DIA
.515
.015
.015
.125
.625 +.000/-.002
.125
1/16
.1247 +.0000/-.0002 DIA "I"
.1250 +.0000/-.0002 DIA "J"
.125
DATUM "S"

FIND 12 SCALE 4:1


.016
.125
.016
.0900 +.0004/-.0000 DIA
.078 R
.515

FIND 14 SCALE 4:1

NOTES
1. ALL ALUMINUM PARTS MIL-A-8625 TYPE I.
2. ALL STAINLESS STEEL PARTS MIL-F-14072 (S1GC) FIN E 300.
3. DIA'S A & B PERPENDICULAR TOLERANCE .002 DIA DATUM "Z".
4. SURFACE "Y" PARALLEL TOLERANCE .002 DATUM "Z".
5. DIA'S C & D PERPENDICULAR TOLERANCE .002 DIA DATUM "X".
6. SURFACE "W" PARALLEL TOLERANCE .002 DATUM "X".
7. DIA'S E & F PERPENDICULAR TOLERANCE .002 DIA DATUM "U".
8. SURFACE "V" PARALLEL TOLERANCE .002 DATUM "U".
9. DIA'S G & H PERPENDICULAR TOLERANCE .001 DIA DATUM "T".
10. DIA'S I & J PERPENDICULAR TOLERANCE .001 DIA DATUM "S".
11. MARK CHARACTERS AS SHOWN PER


AMOND KNURL MEDIUM GRADE
⑬
.1250 +.0005/-.0000 DIA "F" BORE
.1250 +.0005/-.0000 DIA "E" BORE
SURFACE "Y"
2 19/32
2 REQD ㉚
⑫
SURFACE "V"
1 11/32
DATUM "U"
.344
.3123 +.0002/-.0000 DIA "B"
.219
.3123 +.0002/-.0000 DIA "A"
.6614 +.0005/-.0000
㉑ 2 REQD
.094
.188
1/16
.503 +.002/-.000 DIA
㉔
㉘
⑩
⑪
㉖㉗
DATUM "Z"
.594
1.250 +.003/-.000
2.438 +.000/-.003

PARTIAL SECTION A-A

FIND NO.	QUAN		PART NO.	DESCRIPTION	MATERIAL	REMARKS
	X		1014540	SCHEMATC ELEC		
38	4			NUT-FLUSH MOUNTED CLINCH		KAYNAR MFG CO K7000-02-6 ACSK 8597692-008
37	4		----	NUT HEX		#2-56NC-3B ACSK 8599166-002
36	6		1000093-1	SCREW BUTTON HD		#2-56NC-3A x 3/16 LG
35	8		1000104-1	SCREW FLAT HD		#2-56NC-3A x 3/16 LG
34	2		1000093-2	SCREW BUTTON HD		#2-56NC-3A x 1/4 LG
33	4		1000093-6	SCREW BUTTON HD SELF LOCKING SOCKET HEX		#2-56NC-3A x 1/2 LG
32	6			SCREW-CAP HD SELF LOCKING SOCKET HEX		LONG LOK #4-40NC-3A x 1/4 LG
31	2			SCREW-SET SELF LOCKING SOCKET HEX		LONG LOK #2-56NC-3A x 3/16 LG
30	2			SCREW-SET SELF LOCKING SOCKET HEX		LONG LOK #2-56NC-3A x 1/8 LG
7	4		10100104-3	SCREW FLAT HD SELF LOCKING SOCKET HEX		
29	1			NUT-SELF LOCKING		ACSK 8697507-002
28	1		1000093-15	SCREW BUTTON HD SELF LOCKING SOCKET HEX		#4-40NC-3A x 3/8 LG
27	3			WASHER FLAT	QQ-A-318 TEMPER H32	ACSK 8597292-100
26	3			SCREW CAP HD SOCKET HEX		#0-80NF3A x 1/8 LG
24	1			SPRING WASHER		ASSOCIATED SPRING CORP BRISTOL CONN
23	6			CLAMPS · MOUNTING		STERLING PT NO. C-2 PORT WASHINGTON L.I. NY
22	2			SWITCH BASIC		MICRO 1HM1
21	4			BEARING-FLANGED		SIAMCO PT NO. 15K65 36-11 3RD ST L.I.C. NY
20	4			SPRING PLUNGER		VLIER ENG CORP 553-026-03 ALTERED 9/64 FLATS
19	2			SYNCHRO RESOLVER		
18	1			PLATE-BOTTOM	QQ-A-355 TEMPER T-3	
17	1			COVER	QQ-A-355 TEMPER T-3	
15	1			SUPPORT-PLUNGER		
14	1			ACTUATOR		
13	1			HANDLE		
12	1			SHAFT & ACTUATOR		
11	2			GEAR, SECTOR 72T 96P		
10	1			GEAR, SECTOR WITH INTREGAL SHAFT 55T 96P		
9	1			GEAR, SECTOR 55T 96P		
8	1			SHAFT	QQ-S-763 CLASS 303 OR 303SE COND A CF	
25		12		TERMINAL STUD FEED THRU		ACSK 792609-011
16		1		TERMINAL BOARD	MIL-P-18177	
	1			TERMINAL BOARD ASSY		
4		2		PIN-STRAIGHT		
7		4	1000104-3	SCREW-FLAT HD SELF LOCKING SOCKET HEX		#2-56NC-3A x 5/16 LG
6		1		PLATE-GIMBAL	QQ-A-355 TEMPER T-3	
5		1		GIMBAL	QQ-A-268 TEMPER T-4	
	1			GIMBAL ASSY		
4		2		PIN-STRAIGHT	QQ-S-763 CLASS 303 OR 303SE COND A, CF	[illegible] ACSK [illegible] 86-080
3		5	1000104-4	SCREW FLAT HD SELF LOCKING SOCKET HEX		#2-56NC-3A 3/8 LG
2		1		PLATE	QQ-A-355 TEMPER T-3	
1		1		HOUSING	QQ-A-268 TEMPER T-4	
	1			HOUSING ASSY		

LIST OF MATERIALS

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A2	(A1) ADDED: REF DESIGNATIONS TB1, B1, B2, S1, S2, & NOTE 11. (A2) ADDED: ELEC SCHEMATIC PT NO. 1014540 TDRR 00602	19 MAR 63	WK

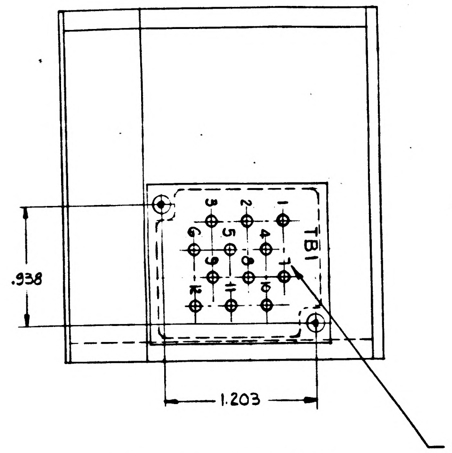
NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1° DO NOT SCALE THIS DRAWING	MIT INSTRUMENTATION LAB CAMBRIDGE MASS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
APPLICATION		MATERIAL	DRAWN JA LIMA DATE 3-4-63 CHECKED APPROVAL 3-4-63 Contained by TDRR# 00479	SEXTANT HAND CONTROLLER ASSY
		HEAT TREATMENT	NASA APPROVAL 3/6/63	CODE IDENT NO. / SIZE / NASA DRAWING NO. 1014558
		FINAL FINISH SEE NOTES 1 & 2	MIT APPROVAL	SCALE 2:1 / WT / SHEET OF

1014558 A

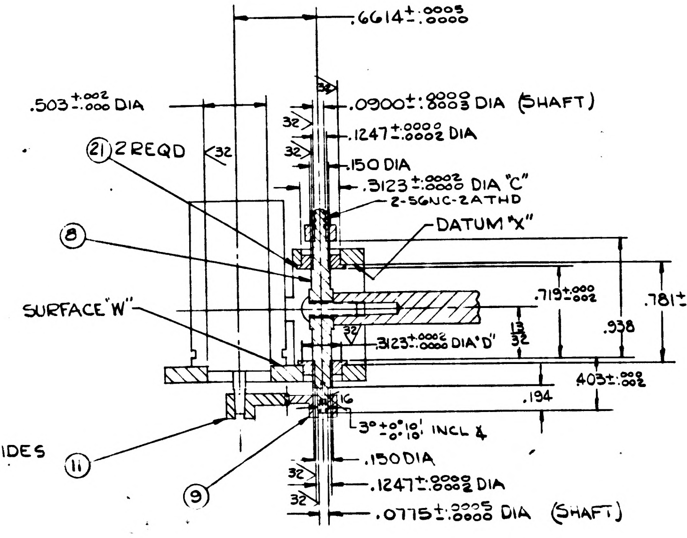
MASTER

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

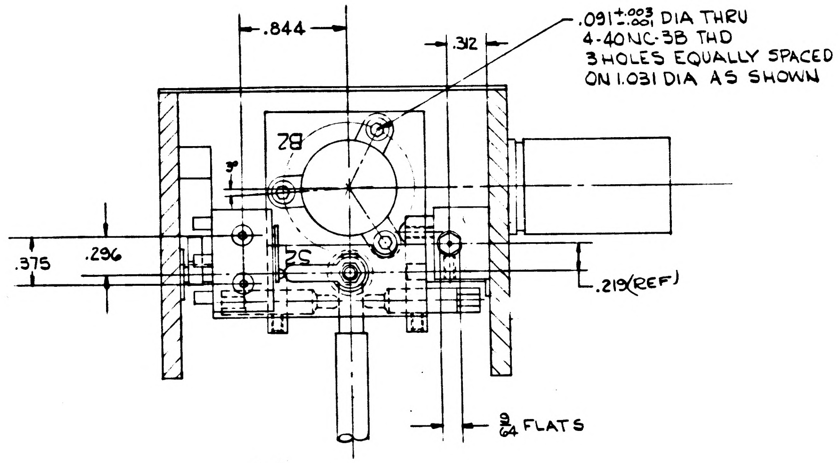
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

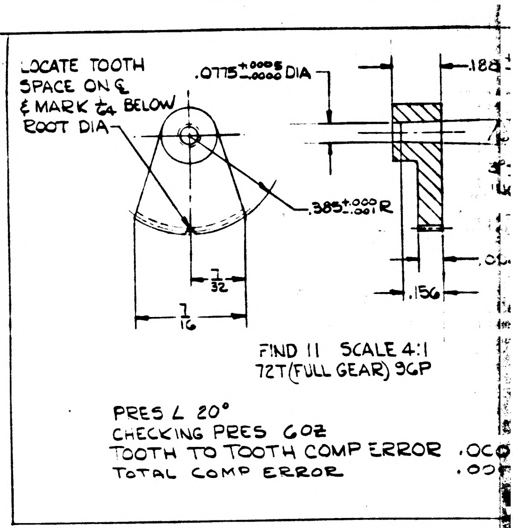

TB1
.938
1.203
MARK BOTH SIDES OF BOARD

PARTIAL VIEW B-B

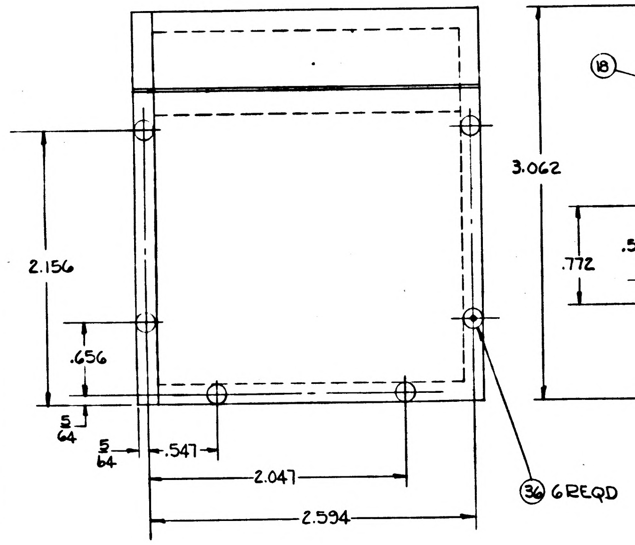

.6614 +.0005 -.0000
.503 +.002 -.000 DIA
.0900 +.0000 -.0003 DIA (SHAFT)
㉑ 2 REQD
.1247 +.0000 -.0002 DIA
.150 DIA
.3123 +.0002 -.0000 DIA "C"
2-56NC-2A THD
DATUM "X"
⑧
SURFACE "W"
.719 +.000 -.002
.781 +.002 -.000
.3123 +.0002 -.0000 DIA "D"
13/32
.938
.403 +.002 -.002
.194
3° +0°10' -0°10' INCL ∡
⑪
.150 DIA
.1247 +.0000 -.0002 DIA
⑨
.0775 +.0005 -.0000 DIA (SHAFT)
32

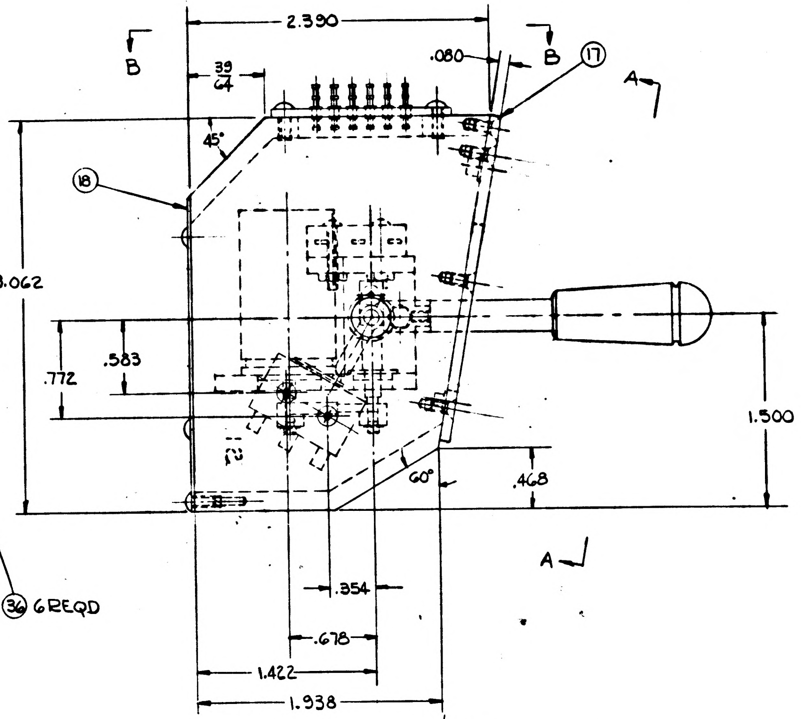
PARTIAL SECTION B-B

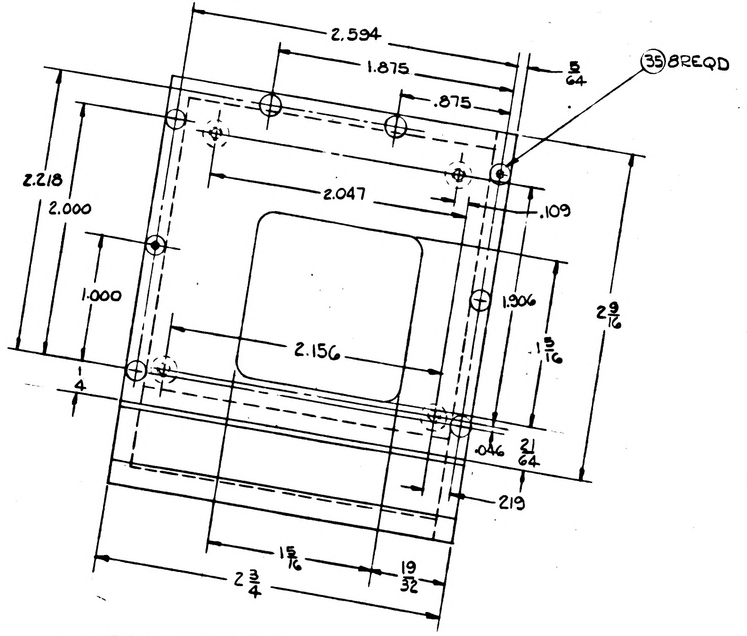

.844
.312
.091 +.003 -.001 DIA THRU
4-40NC-3B THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA AS SHOWN
B2
.375
.296
.219 (REF)
9/64 FLATS


LOCATE TOOTH
SPACE ON ℄
& MARK ℄ BELOW
ROOT DIA
.0775 +.0005 -.0000 DIA
.188
.385 +.000 -.001 R
7/32
7/16
.156
FIND 11 SCALE 4:1
72T (FULL GEAR) 96P

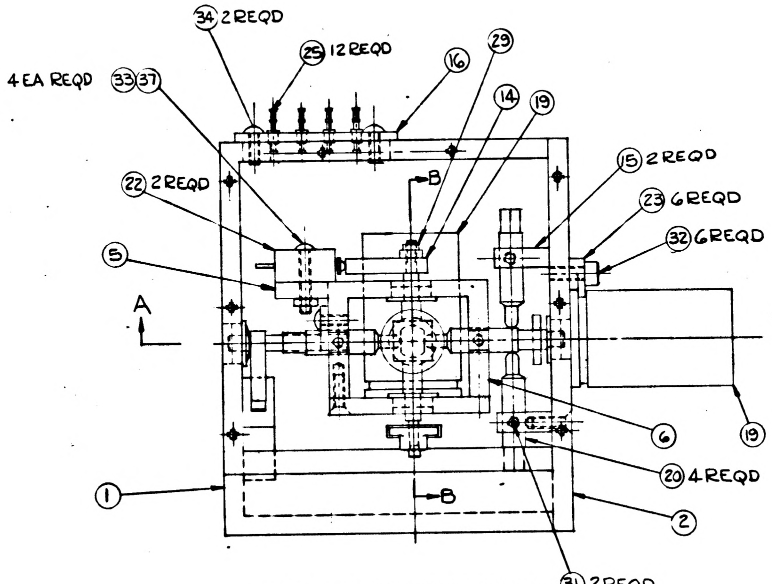
PRES ∠ 20°
CHECKING PRES 6OZ
TOOTH TO TOOTH COMP ERROR .00
TOTAL COMP ERROR .00


2.156
.656
5/64
5/64
.547
2.047
2.594
㊱ 6 REQD

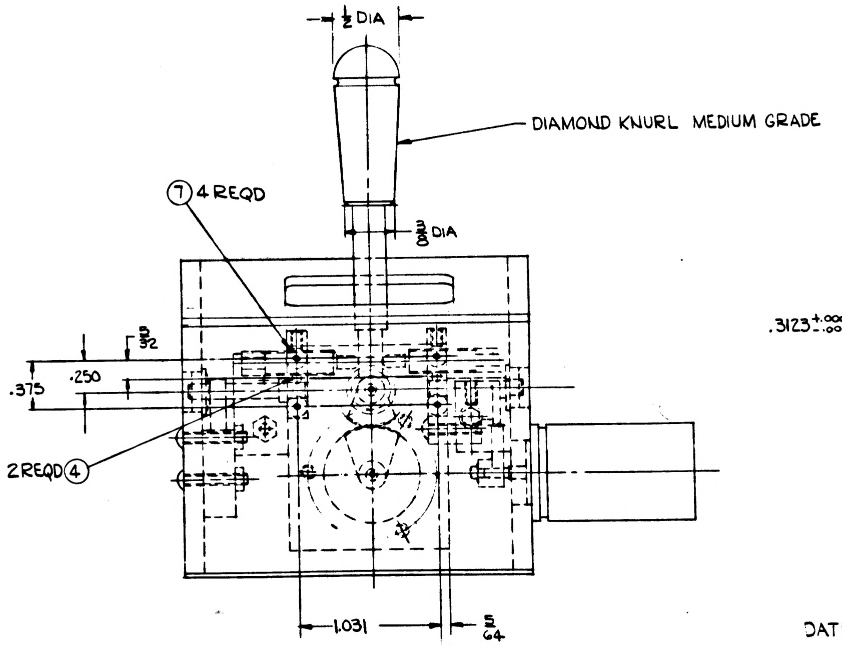

B
2.390
39/64
.080
B
⑰
A
45°
⑱
3.062
.772
.583
1.500
60°
.468
A
.354
.678
1.422
1.938

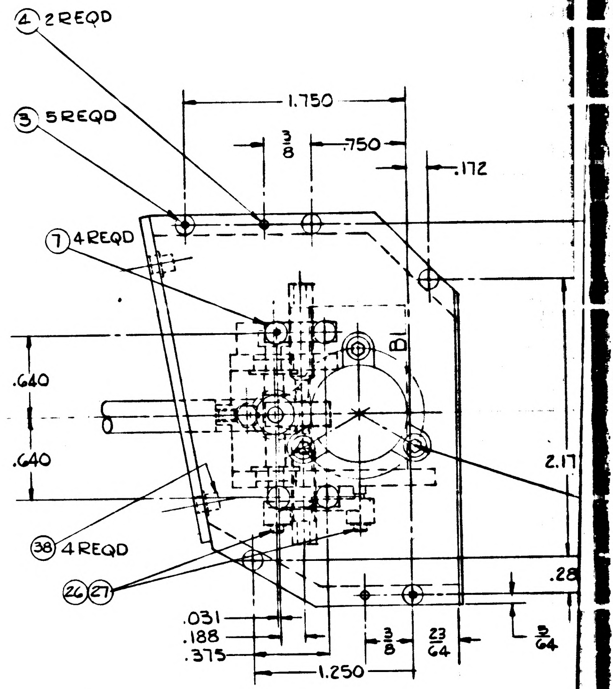

2.594
1.875
.875
5/64
㉟ 8 REQD
2.218
2.000
2.047
.109
1.000
1.306
2 9/16
1 3/16
2.156
4
.046
21/64
.219
1 5/16
2 3/4
19/32

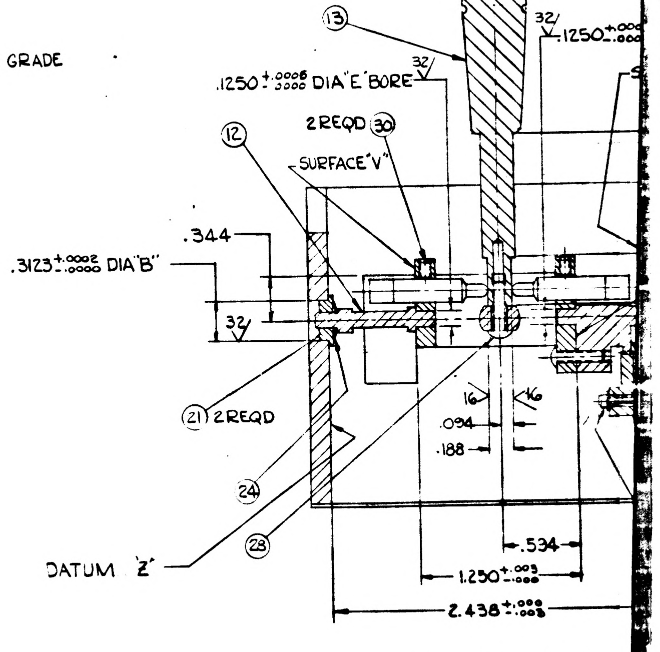
PARTIAL VIEW A-A


㉞ 2 REQD
㉕ 12 REQD
⑯
㉙
4 EA REQD ㉝㊲
⑭
⑲
㉒ 2 REQD
B
⑮ 2 REQD
㉓ 6 REQD
㉜ 6 REQD
⑤
A
A
⑥
⑲
⑳ 4 REQD
①
B
②
㉛ 2 REQD

VIEW WITH COVER REMOVED


1/2 DIA
DIAMOND KNURL MEDIUM GRADE
⑦ 4 REQD
3/8 DIA
5/32
.375
.250
2 REQD ④
1.031
5/64


④ 2 REQD
③ 5 REQD
1.750
3/8
.750
.172
⑦ 4 REQD
B1
.640
.640
㊳ 4 REQD
㉖㉗
.031
.188
.375
3/8
23/64
1.250
5/64


⑬
.1250 +.0005 -.0000 DIA "E" BORE
.1250
2 REQD ㉚
⑫
SURFACE "V"
.344
.3123 +.0002 -.0000 DIA "B"
32
㉑ 2 REQD
16
.094
.188
㉔
㉘
DATUM "Z"
.534
1.250 +.003 -.000
2.438 +.002 -.003

PARTIAL SECTION A-A

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014558
17 December 63
Class A Release
TDRR 05258

PROCUREMENT SPECIFICATION

FOR

SEXTANT HAND CONTROLLER ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
1/7/64	A	05326	2	WAK	

This specification consists of page i to iii and 1 to 4 inclusive.

PROCUREMENT SPECIFICATION

FOR

SEXTANT HAND CONTROLLER ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the Sextant Hand Controller Assembly for use in the APOLLO Guidance and Navigation Equipment.

L. Hatzel 12/17/63
MIT/IL DATE

William S. Dunning Jr. 12/17/63
NASA/MSC APPROVAL DATE

PROCUREMENT SPECIFICATION

FOR

SEXTANT HAND CONTROLLER ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the Sextant Hand Controller Assembly, Drawing 1014558, hereinafter called the controller.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of invitation for bids form a part of this specification to the extent specified herein.

SPECIFICATIONS

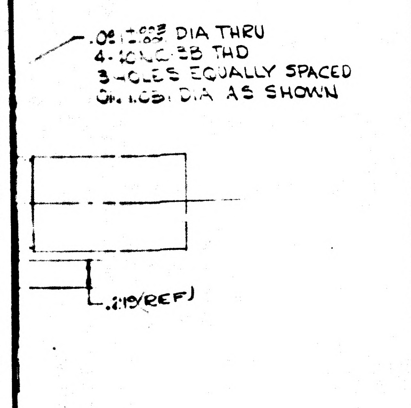
APOLLO G&N

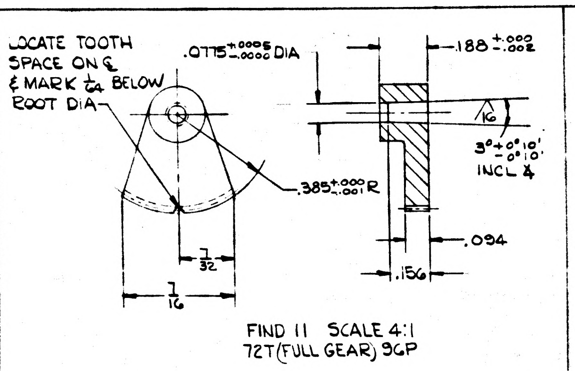
ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014558	Final Test Method for Sextant Hand Controller Assembly

DRAWINGS

APOLLO G&N

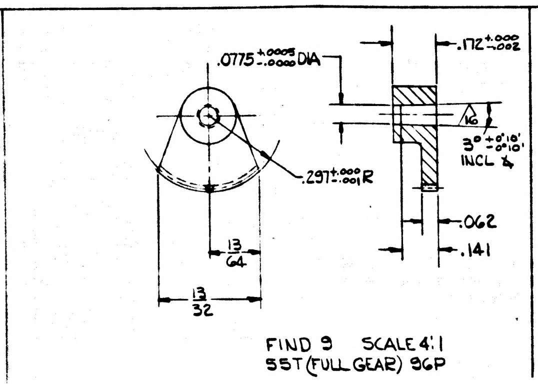
1014540	Sextant Hand Controller, Schematic Diagram (For Reference Only)
1014558	Sextant Hand Controller Assembly


.09 DIA THRU
4-40NC-3B THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA AS SHOWN
.115(REF)


LOCATE TOOTH SPACE ON ℄ & MARK 1/64 BELOW ROOT DIA
.0775 +.0005 -.0000 DIA
.188 +.000 -.002
3°+0°10' -0°10' INCL ∠
.385 +.000 -.001 R
1/32
1/16
.094
.156

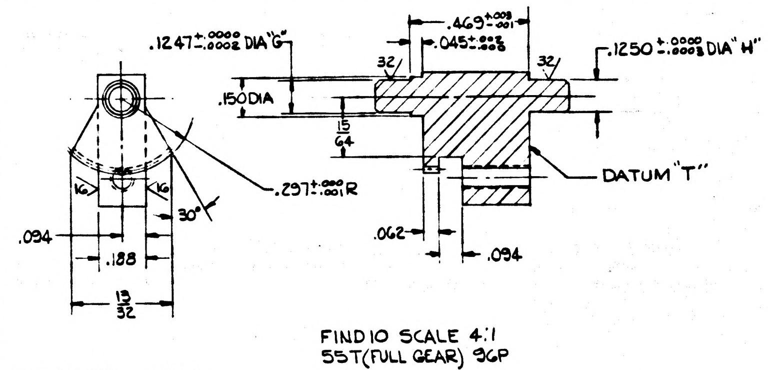
FIND 11 SCALE 4:1
72T (FULL GEAR) 96P

PRES ∠ 20°
CHECKING PRES 6OZ
TOOTH TO TOOTH COMP ERROR .0004 MAX
TOTAL COMP ERROR .001


.0775 +.0005 -.0000 DIA
.172 +.000 -.002
3°+0°10' -0°10' INCL ∠
.297 +.000 -.001 R
.062
.141
13/64
13/32

FIND 9 SCALE 4:1
55T (FULL GEAR) 96P

TOTAL COMP ERROR .001
PRES ∠ 20°
CHECKING PRES 4OZ
TOOTH TO TOOTH COMP ERROR .0004 MAX
LOCATE TOOTH ON ℄ & MARK 1/64 BELOW ROOT DIA

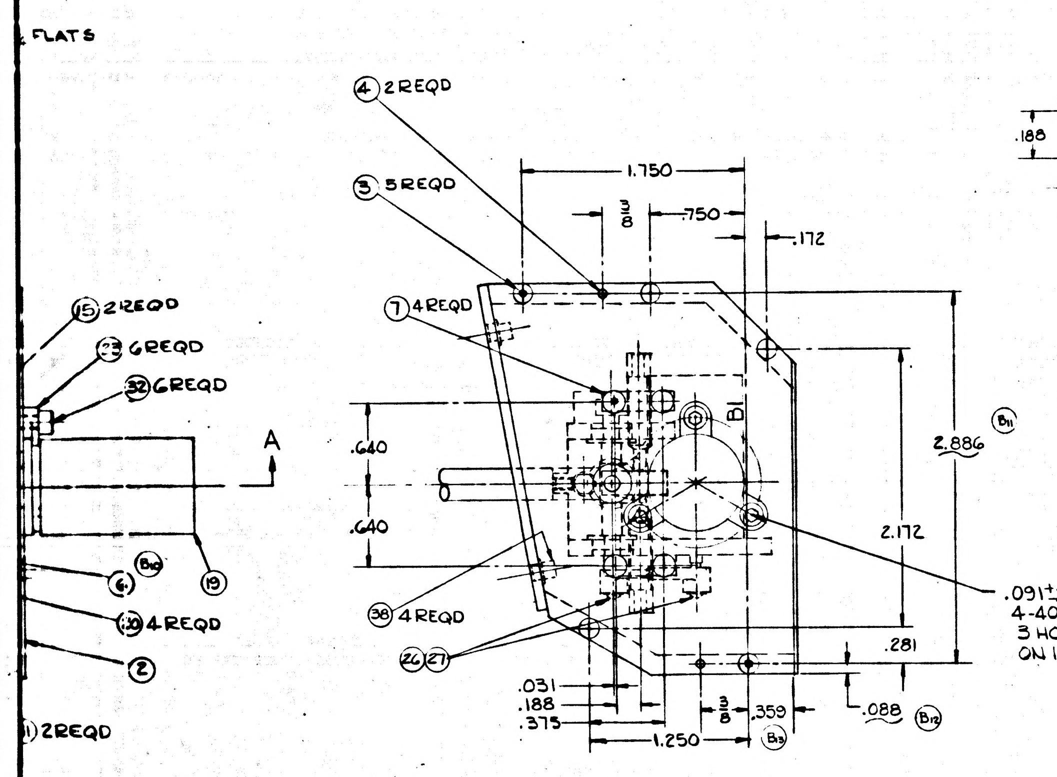

.1247 +.0000 -.0002 DIA "G"
.469 +.003 -.001
.045 +.003 -.000
32
.1250 +.0000 -.0003 DIA "H"
.150 DIA
15/64
DATUM "T"
.297 +.000 -.001 R
30°
.094
.188
13/32
.062
.094

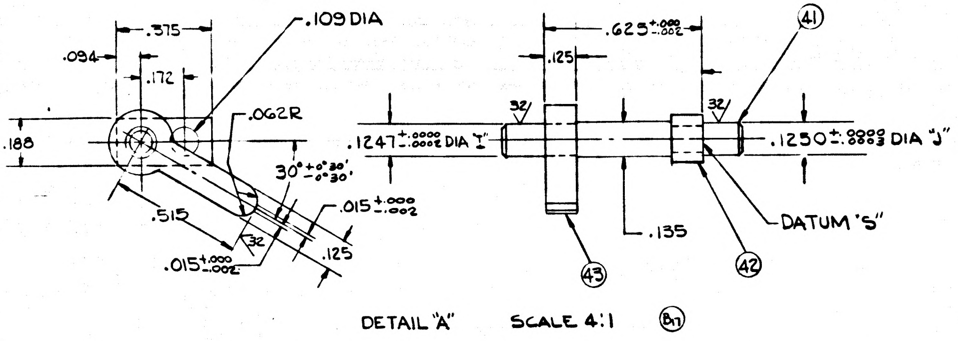
FIND 10 SCALE 4:1
55T (FULL GEAR) 96P

SYM	DESCRIPTION	DATE	APPROVAL
A2	(A1) ADDED: REF DESIGNATIONS TB1, B1, B2, S1, S2, & NOTE 11. (A2) ADDED: ELEC SCHEMATIC PT NO. 1014540 TDRR 00602	19 MAR 63	WK
B22	(B1) WAS 2.156 (B2) WAS .078 (B3) WAS 2.594 (B4) WAS 5/64 (B5) WAS 2 3/4 (B6) ADDED FIND 34 (B7) WAS 1.031 (B8) WAS 5/64 (B9) ADDED FIND 33 (B10) RELOCATED FIND 6 (B11) WAS 2.906 (B12) WAS 5/64 (B13) WAS 23/64 (B14) ADDED FIND 46 (B15) ADDED FIND 40 (B16) REVISED FIND 14 (B17) DETAIL "A" WAS FIND 12, ADDED FIND NO.S 41, 42, 43 & 44 (2 REQD) REVISED DIMENSIONS & PICTURE (B18) ADDED PART NO.S TO LIST OF MATL. (B19) ADDED 1 1/4 +0 -1/64 (B20) WAS 1 11/32 (B21) REMOVED 2 9/32 (B22) ADDED NOTE 12 (B22) REPLACED WITH CHANGE BY REV C TDRR 01304	12 APR 63	WK

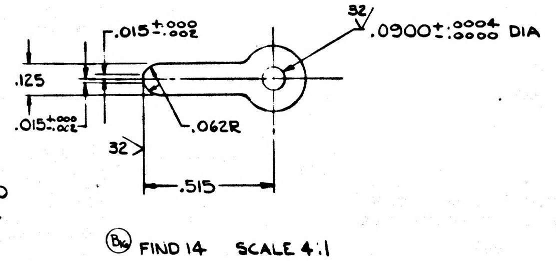
obsoleted

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00479 DATE 6 MAR 1963


FLATS
④ 2 REQD
⑤ 5 REQD
⑮ 2 REQD
㉓ 6 REQD
㉜ 6 REQD
⑦ 4 REQD
1.750
3/8
.750
.172
A
.640
.640
B1
2.886
2.172
.281
⑥
⑲
⑳ 4 REQD
②
㉝ 4 REQD
㉖㉗
.091 +.003 -.001 DIA THRU
4-40NC-3B THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA AS SHOWN
.031
.188
.375
1.250
3/8
.359
.088
㉑ 2 REQD


.375
.094
.172
.109 DIA
.062R
.188
30° +0°30' -0°30'
.515
.015 +.000 -.002
32
.125
.015 +.000 -.002
.625 +.000 -.002
.125
32
.1247 +.0000 -.0002 DIA "I"
32
.1250 +.0000 -.0003 DIA "J"
.135
DATUM "S"
㊶
㊷
㊸

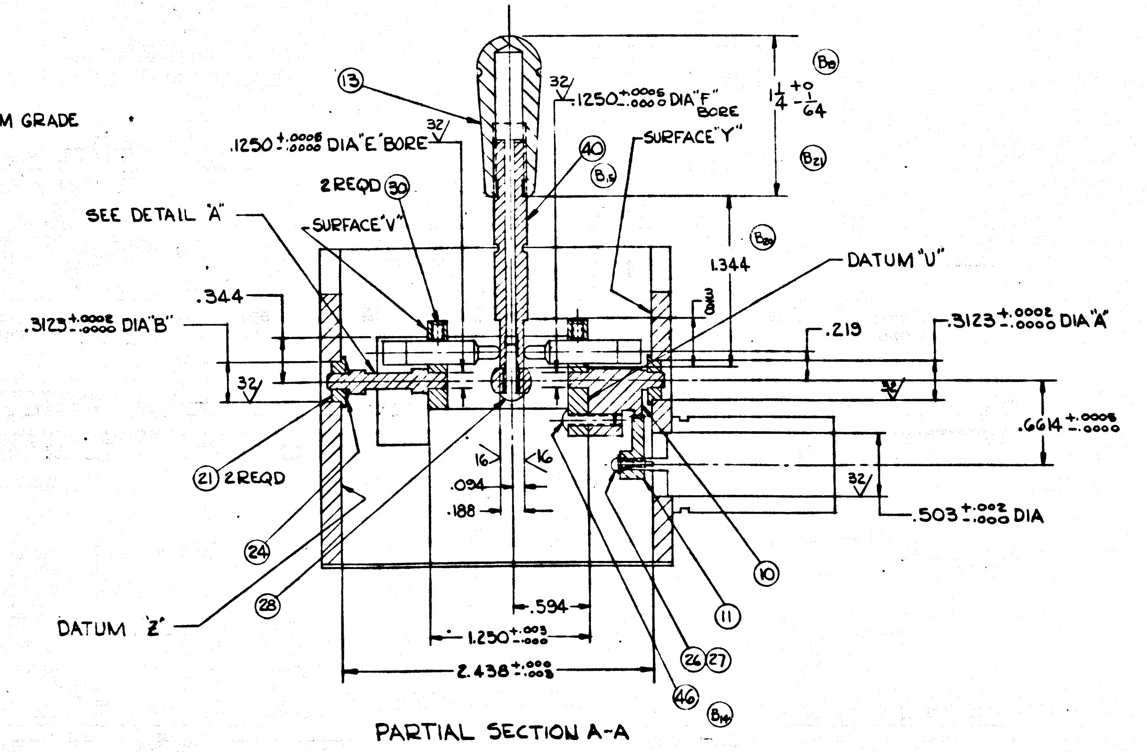
DETAIL "A" SCALE 4:1 (B17)


.015 +.000 -.002
32
.0900 +.0004 -.0000 DIA
.125
.015 +.000 -.002
.062R
32
.515

(B16) FIND 14 SCALE 4:1

NOTES

1. ALL ALUMINUM PARTS MIL-A-8625 TYPE I.
2. ALL STAINLESS STEEL PARTS MIL-F-14072(SIG C) FIN E 300.
3. DIA'S A&B PERPENDICULAR TOLERANCE .002 DIA DATUM "Z".
4. SURFACE "Y" PARALLEL TOLERANCE .002 DATUM "Z".
5. DIA'S C&D PERPENDICULAR TOLERANCE .002 DIA DATUM "X"
6. SURFACE "W" PARALLEL TOLERANCE .002 DATUM "X".
7. DIA'S E&F PERPENDICULAR TOLERANCE .002 DIA DATUM "U".
8. SURFACE "V" PARALLEL TOLERANCE .002 DATUM "U".
9. DIA'S G&H PERPENDICULAR TOLERANCE .001 DIA DATUM "T".
10. DIA'S I&J PERPENDICULAR TOLERANCE .001 DIA DATUM "S".
11. MARK CHARACTERS AS SHOWN PER
12. BOND FIND 39 TO FIND 17


DIAMOND KNURL MEDIUM GRADE
⑬
32
.1250 +.0005 -.0000 DIA "F" BORE
SURFACE "Y"
1 1/4 +0 -1/64
.1250 +.0005 -.0000 DIA "E" BORE
2 REQD ㉚
㊵
SEE DETAIL "A"
SURFACE "V"
1.344
DATUM "U"
.344
.3125 +.0002 -.0000 DIA "B"
.219
.3125 +.0002 -.0000 DIA "A"
32
.6614 +.0005 -.0000
㉑ 2 REQD
.094
.188
.503 +.002 -.000 DIA
㉔
⑩
㉘
⑪
.594
DATUM "Z"
1.250 +.003 -.000
2.438 +.003 -.008
㉖㉗
㊻

PARTIAL SECTION A-A

(B22) REPLACED WITH CHANGE BY REV C

FIND NO.	QUAN	PART NO.	DESCRIPTION	MATERIAL	REMARKS
	X	1014522	WIRING DIAGRAM		
	X	1014540	SCHEMATIC, ELEC		
37	4	MS-35649-24	NUT HEX		
36	6	1000093-1	SCREW BUTTON HD SELF-LOCKING SOCKET HEX		
46	1	1000093-4	SCREW BUTTON HD SELF-LOCKING SOCKET HEX		
45	1	1014521	WIRE LIST AA		
44	2		PIN, SPRING SPIROL		1/32 DIA x 3/16 LG ACSK 8597216-002
43	1	1014555	ACTUATOR		
42	1	1014577	PLATE-ACTUATOR		
41	1	1014556	SHAFT-ACTUATOR		
	1	1014574	SHAFT & ACTUATOR ASSY		
40	1	1014557	SHAFT-HANDLE	QQ-S-763 CLASS 303 OR 303SE COND A CF	
39	1		DIAPHRAGM	SILICON RUBBER MIL-R-5847 CLASS I GRADE 60	MINOR RUBBER CO. INC #22763
38	4	1000076-1	NUT-FLUSH MOUNTED CLINCH		KAYNAR MFG CO K7000-02-6 ACSK 8597698-[illegible]
17	1	1014562-001	COVER	QQ-A-355 TEMPER T-3	
	1	1014562	COVER & DIAPHRAGM		
35	8	1000104-1	SCREW FLAT HD		#2-56NC-3A x 3/16 LG
34	3	1000093-2	SCREW BUTTON HD		#2-56NC-3A x 1/4 LG
33	4	1000093-6	SCREW BUTTON HD SELF LOCKING SOCKET HEX		#2-56NC-3A x 1/2 LG
32	6		SCREW-CAP HD SELF LOCKING SOCKET HEX		LONG LOK #4-40NC-3A x [illegible] LG
31	2	1010413-	SCREW-SET SELF LOCKING SOCKET HEX		LONG LOK #2-56NC-3A x [illegible] LG
30	2	1010413-	SCREW-SET SELF LOCKING SOCKET HEX		LONG LOK #2-56NC-3A x 1/8 LG
7	4	10100104-3	SCREW FLAT HD SELF LOCKING SOCKET HEX		
29	1	MS21042-02	NUT-SELFLOCKING		ACSK 8697507-008
28	1	1000093-15	SCREW BUTTON HD SELF LOCKING SOCKET HEX		#4-40NC 3A x 3/8 LG
27	3	MS-15795-701	WASHER FLAT	QQ-A-318 TEMPER H32	.156 O.D. .062 I.D. .016 THK ACSK 8697292-100
26	3	1006783-1	SCREW BUTTON HEAD SOCKET HEX		#0-80NF3A x 1/8 LG
24	1		SPRING WASHER		ASSOCIATED SPRING CORP BRISTOL, CONN
23	6	1010415	CLAMPS-MOUNTING		STERLING PT NO. C-2 PORT WASHINGTON L.I. NY
22	2	1010435-001	SWITCH BASIC		MICRO 1HM1
21	4	1010418	BEARING-FLANGED		SIAMCO PT NO. BK5 36-11 3RD ST L.I.C. NY
20	4	1010419	SPRING PLUNGER		VLIER ENG CORP 553-026-03 ALTERED 9/64 FLATS
19	2		SYNCHRO RESOLVER		
18	1	1014563	PLATE-BOTTOM	QQ-A-355 TEMPER T-3	
15	2	1014576	SUPPORT-PLUNGER	QQ-A-355 TEMPER T-3	
14	1	1014566	ACTUATOR	QQ-S-763 CLASS 303 OR 303SE COND A CF	
13	1	1014575	HANDLE	QQ-A-268 TEMPER T4	
12					
11	2	1014573	GEAR, SECTOR 72T 96P		
10	1	1014572	GEAR, SECTOR WITH INTREGAL SHAFT 55T 96P		
9	1	1014571	GEAR, SECTOR 55T 96P		
8	1	1014570	SHAFT	QQ-S-763 CLASS 303 OR 303SE COND A CF	
25	12	SE14XC01	TERMINAL STUD FEED THRU	PER MIL-T-55155	ACSK 7926096-011
16	1	1014565	TERMINAL BOARD	MIL-P-18177	
	1	1014564	TERMINAL BOARD ASSY		
4	2	MS16555-601	PIN-STRAIGHT		
7	4	1000104-3	SCREW-FLAT HD SELF LOCKING SOCKET HEX		#2-56NC-3A x 5/16 LG
6	1	1014569	PLATE-GIMBAL	QQ-A-355 TEMPER T-3	
5	1	1014568	GIMBAL	QQ-A-268 TEMPER T-4	
	1	1014567	GIMBAL ASSY		
4	2	MS16555-601	PIN-STRAIGHT	QQ-S-763 CLASS 303 OR 303SE COND A, CF	1/16 DIA x 3/8 LG ACSK 8[illegible]186-080
3	5	1000104-4	SCREW FLAT HD SELF LOCKING SOCKET HEX		#2-56NC-3A 3/8 LG
2	1	1014561	PLATE	QQ-A-355 TEMPER T-3	
1	1	1014560	HOUSING	QQ-A-268 TEMPER T-4	
	1	1014559	HOUSING ASSY		

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH SEE NOTES 1 & 2
NEXT ASSY USED ON
APPLICATION

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN IA LIMA DATE 3-4-63
CHECKED
APPROVAL 3-4-63
Cancelled by TDRR # 00478
NASA APPROVAL 3/6/63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SEXTANT HAND CONTROLLER
ASSY

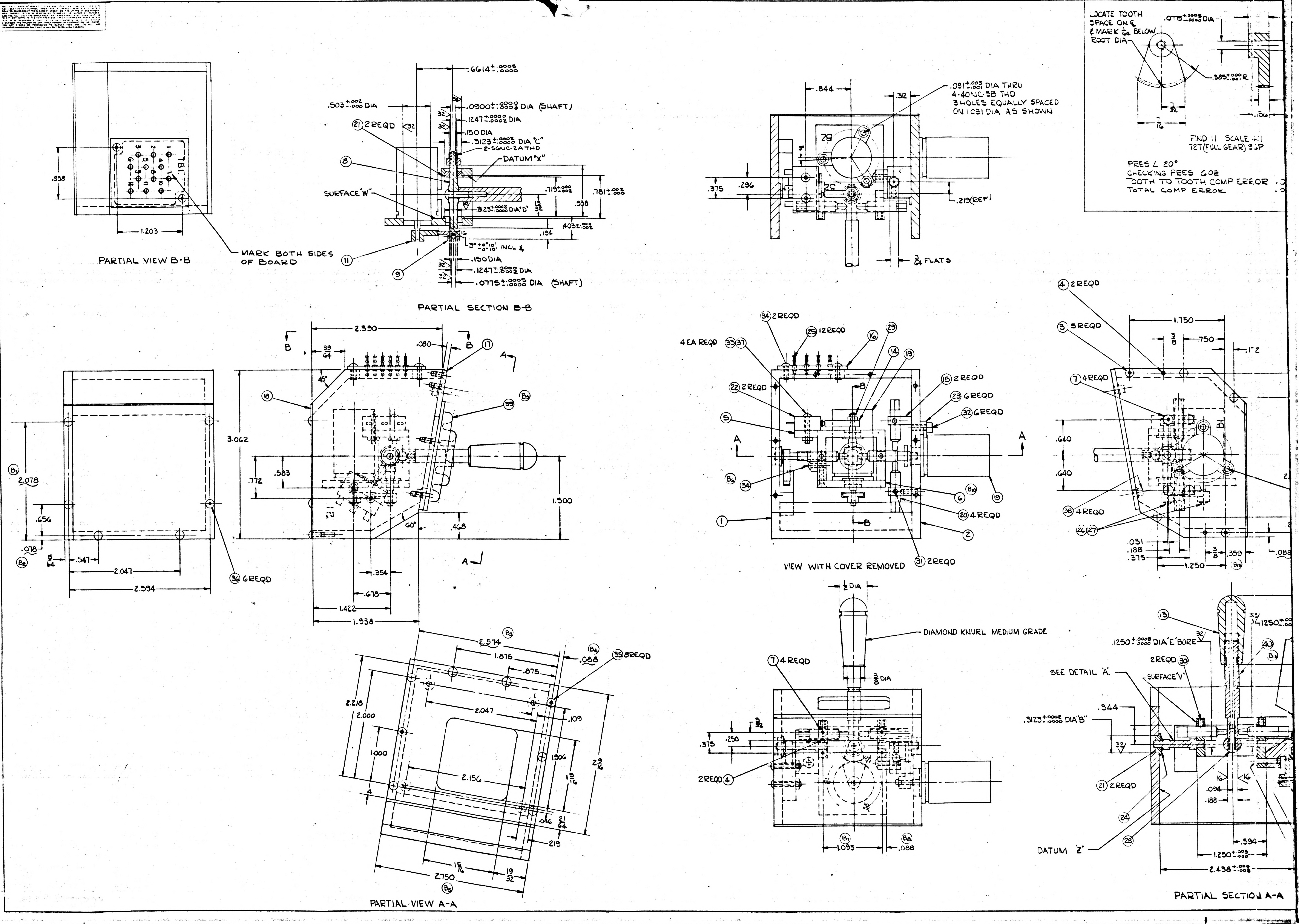
CODE IDENT NO. SIZE NASA DRAWING NO 1014558
SCALE 2:1 WT SHEET OF

1014558 D

MASTER

INCHES
PHOTOGRAPHIC SCALE ONLY

NOTICE: WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.


PARTIAL VIEW B-B
.938
1.203
TB1
MARK BOTH SIDES OF BOARD
PARTIAL SECTION B-B
.6614 +.0005 -.0000
.503 +.002 -.000 DIA
.0900 +.0000 -.0003 DIA (SHAFT)
.1247 +.0000 -.0002 DIA
.150 DIA
.3123 +.0002 -.0000 DIA "C"
2-56NC-2A THD
DATUM "X"
(21) 2 REQD
(8)
SURFACE "W"
.719 +.000 -.002
.781 +.002 -.000
.938
13/32
.3123 +.0002 -.0000 DIA "D"
.403 +.000 -.002
.194
3° +0°10' -0°10' INCL ∡
(11)
(9)
.150 DIA
.1247 +.0000 -.0002 DIA
.0775 +.0005 -.0000 DIA (SHAFT)
.844
.312
.091 +.003 -.001 DIA THRU
4-40NC-3B THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA AS SHOWN
B2
.375
.296
.219 (REF)
3/64 FLATS
LOCATE TOOTH SPACE ON ℄ & MARK 1/64 BELOW ROOT DIA
.0775 +.0005 -.0000 DIA
.385 +.000 -.001 R
7/32
7/16
.156
FIND 11 SCALE 4:1
72T (FULL GEAR) 96P
PRES ∠ 20°
CHECKING PRES 6 OZ
TOOTH TO TOOTH COMP ERROR
TOTAL COMP ERROR
2.390
39/64
.080
B
B
(17)
A
45°
(18)
(39)
(B9)
3.062
.772
.583
1.500
60°
.468
.354
.678
1.422
1.938
A
(B1)
2.078
.656
.078
5/64
.547
2.047
2.594
(B2)
(36) 6 REQD
(34) 2 REQD
(25) 12 REQD
(16)
(29)
(14)
(19)
4 EA REQD (33) (37)
(22) 2 REQD
(5)
(15) 2 REQD
(23) 6 REQD
(32) 6 REQD
A
A
B
B
(B6)
(34)
(1)
(6)
(B10)
(19)
(20) 4 REQD
(2)
(31) 2 REQD
VIEW WITH COVER REMOVED
(4) 2 REQD
(3) 5 REQD
1.750
3/8
.750
1.2
(7) 4 REQD
B1
.640
.640
(38) 4 REQD
(26) (27)
.031
.188
.375
1.250
3/8
.359
(B13)
.088
(B3)
2.574
1.875
.875
(B4)
.088
(35) 8 REQD
2.218
2.000
2.047
.109
1.000
1.906
2 9/16
1 3/16
2.156
4
.046
21/64
.219
1 5/16
19/32
2.750
(B5)
PARTIAL VIEW A-A
1/2 DIA
DIAMOND KNURL MEDIUM GRADE
3/8 DIA
(7) 4 REQD
3/32
.375
.250
2 REQD (4)
(B7)
(B8)
1.093
.088
(13)
.1250 +.0005 -.0000 DIA "E" BORE
2 REQD (30)
(40)
(B15)
SEE DETAIL "A"
SURFACE "V"
.344
.3123 +.0002 -.0000 DIA "B"
32
(21) 2 REQD
(24)
(28)
DATUM "Z"
16
16
.094
.188
.594
1.250 +.003 -.000
2.438 +.000 -.003
.1250
PARTIAL SECTION A-A

INCHES
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014558 B
17 December 63
Class A Release
TDRR 05258

PROCUREMENT SPECIFICATION

FOR

SEXTANT HAND CONTROLLER ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
1/7/64	A	05326	2	WJK	
5/19/64	B	08501	2	WK	

This specification consists of page i to iii and 1 to 4 inclusive.

PROCUREMENT SPECIFICATION

FOR

SEXTANT HAND CONTROLLER ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the Sextant Hand Controller Assembly for use in the APOLLO Guidance and Navigation Equipment.

12/17/63
MIT/IL DATE

12/17/63
NASA/MSC APPROVAL DATE

PROCUREMENT SPECIFICATION

FOR

SEXTANT HAND CONTROLLER ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the Sectant Hand Controller Assembly, Drawing 1014558,hereinafter called the controller.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of invitation for bids form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014558	Final Test Method for Sextant Hand Controller Assembly

DRAWINGS

APOLLO G&N

1014540	Sextant Hand Controller, Schematic Diagram (For Reference Only)
1014558	Sextant Hand Controller Assembly

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

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1014558 C

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
C.	Ⓒ REPLACES REV B WITH CHANGE B TDRR 01304	15 MAY 63	W.K.

PICTURE INCOMPLETE

QTY REQD		PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
4		1000104-3	SCREW-FLAT HD	
4		1014509	PLUNGER ASSY	
2			PIN-SPRING	
1		1014574	SHAFT & ACTUATOR ASSY	
1		1014557	SHAFT & HANDLE	
1		1014512	DIAPHRAGM	
1		1014562	COVER (INSEP ASSY)	
1		1014521	WIRE LIST	
4		MS35649-24	NUT-HEX	
10		1000093-1	SCREW-BUTTON HD, HEX SOCKET	
8		1000104-1	SCREW-FLAT HD	
3		1000093-2	SCREW-BUTTON HD, HEX SOCKET	
4		1000093-6	SCREW-BUTTON HD, HEX SOCKET	
6		NAS1352C04LL4	SCREW-CAP HD	
1			NUT-SELF LOCKING	
2		1000093-15	SCREW-BUTTON HD, HEX SOCKET	
4		MS15795-701	WASHER-FLAT	
4		1006783-1	SCREW-BUTTON HD, HEX SOCKET	
1		1014508	WASHER-SPRING	
6		1010415	CLAMP-MOUNTING	
2		1010435-001	SWITCH-BASIC	
4		1010418	BEARING-FLANGED	

LIST OF MATERIALS

Ⓒ REPLACES REV B WITH CHANGE

QTY REQD		PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2		1010429	SYNCHRO RESOLVER	
1		1014563	PLATE-BOTTOM	
2		1014576	SUPPORT-PLUNGER	
1		1014566	ACTUATOR	
1		1014575	HANDLE	
2		1014573	GEAR-SECTOR (72T 96P)	
1		1014572	GEAR-SECTOR-INTREGAL SHAFT	
1		1014571	GEAR-SECTOR (55T 96P)	
1		1014570	SHAFT	
4		1000104-3	SCREW-FLAT HD	
1		1014564	TERMINAL BOARD ASSY	
1		1014567	GIMBAL ASSY	
1		1014559	HOUSING ASSY	

LIST OF MATERIALS

1014558 C

DRAWINGS FOR REFERENCE
1014540 SCHEMATIC DIAGRAM
1014522 WIRING DIAGRAM

1014578	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± #   DECIMALS ± #   ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO.   CONTRACT
DRAWN J A LIMA DATE 3-4-63
CHECKED H L Parker MAY-13-63
APPROVAL
APPROVAL
NASA APPROVAL W J Rhine 5-22-63
MIT APPROVAL 22 May 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SEXTANT HAND CONTROLLER ASSEMBLY

CODE IDENT NO.   SIZE C   NASA DRAWING NO. 1014558
SCALE #   WT   SHEET   OF

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

PROCUREMENT SPECIFICATION

FOR

SEXTANT HAND CONTROLLER ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
1/7/64	A	05326	2	WK	
5/19/64	B	08501	2	WK	
8/12/64	C	11526	2	WK.	

This specification consists of page i to iii and 1 to 4 inclusive.

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FOR

SEXTANT HAND CONTROLLER ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the Sextant Hand Controller Assembly for use in the APOLLO Guidance and Navigation Equipment.

12/17/63
MIT/IL DATE

12/17/63
NASA/MSC APPROVAL DATE

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014558 C
17 December 63
Class A Release
TDRR 05258

PROCUREMENT SPECIFICATION

FOR

SEXTANT HAND CONTROLLER ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
1/7/64	A	05326	2	WJR	
5/19/64	B	08501	2	WJR	
8/12/64	C	11526	2	WR.	

This specification consists of page i to iii and 1 to 4 inclusive.

APOLLO G&N Specification
PS-1014558 B
17 December 63

PROCUREMENT SPECIFICATION
FOR
SEXTANT HAND CONTROLLER ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the Sectant Hand Controller Assembly, Drawing 1014558,hereinafter called the controller.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of invitation for bids form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014558	Final Test Method for Sextant Hand Controller Assembly

DRAWINGS

APOLLO G&N

1014540	Sextant Hand Controller, Schematic Diagram (For Reference Only)
1014558	Sextant Hand Controller Assembly

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

D 1014558

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
C1	Ⓒ REPLACES REV B WITH CHANGE B TDRR 01304	15 MAY 63	WK.
D	Ⓓ REPLACED WITH CHANGE BY REV E TDRR 02425	7 AUG 63	WK.

PICTURE INCOMPLETE

QTY REQD		PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO
4		1000104-3	SCREW-FLAT HD	
4	17	1014509 ✓	PLUNGER ASSY	
2		–	PIN-SPRING	
2	3			
1	4	1014574 ✓	SHAFT & ACTUATOR ASSY	
1	10	1014557 ✓	SHAFT & HANDLE	
1	15	1014512 ✓	DIAPHRAGM	
1	13	1014562 ✓	COVER (INSEP ASSY)	
1	39	1014521 ✓	WIRE LIST	
4	27	MS35649-24 ✓	NUT-HEX	
106	30	1000093-1 ×	SCREW-BUTTON HD, HEX SOCKET	
8	29	1000104-1 ×	SCREW-FLAT HD	
"3	28	1000093-2	SCREW-BUTTON HD, HEX SOCKET	
4	26	1000093-6 ×	SCREW-BUTTON HD, HEX SOCKET	
6	21	NAS1352C04LL4 ✓	SCREW-CAP HD	
1			NUT-SELF LOCKING	
2	25	1000093-15 ×	SCREW-BUTTON HD, HEX SOCKET	
4	24	MS15795-701 ✓	WASHER-FLAT	
4	23	1006783-1 ✓	SCREW-BUTTON HD, HEX SOCKET	
1	22	1014508 ×	WASHER-SPRING	
6	20	1010415 -1 ✓	CLAMP-MOUNTING	
2	19	1010435-001 ✓	SWITCH-BASIC	
4	18	1010418 ✓	BEARING-FLANGED	

LIST OF MATERIALS

Ⓓ REPLACED WITH CHANGE BY REV E

Ⓒ REPLACES REV B WITH CHANGE

QTY REQD		PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
2	16	1010429 ✓	SYNCHRO RESOLVER	
1	14	1014563 ✓	PLATE-BOTTOM	
2	12	1014576 ✓	SUPPORT-PLUNGER	
1	11	1014566 ✓	ACTUATOR	
1	9	1014575 ✓	HANDLE	
2	7	1014573 ✓	GEAR-SECTOR (72T 96P)	
1	6	1014572 ✓	GEAR-SECTOR-INTREGAL SHAFT	
1	5	1014571 ✓	GEAR-SECTOR (55T 96P)	
1	8	1014570 ✓	SHAFT	
4		1000104-3	SCREW-FLAT HD	
1	3	1014564 ✓	TERMINAL BOARD ASSY	
1	2	1014567 ✓	GIMBAL ASSY	
1	1	1014559 ✓	HOUSING ASSY	

LIST OF MATERIALS

DRAWINGS FOR REFERENCE
1014540 SCHEMATIC DIAGRAM
1014522 WIRING DIAGRAM

MASTER

1014578	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN J A LIMA DATE 3-4-63
CHECKED H S Parker MAY-13-63
APPROVAL 5/10/63
APPROVAL
NASA APPROVAL W J Rhine 5-22-63
MIT APPROVAL 22 May 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SEXTANT HAND CONTROLLER ASSEMBLY

CODE IDENT NO. | SIZE C | NASA DRAWING NO. 1014558
SCALE # | WT | SHEET OF

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014558 D
17 December 63
Class A Release
TDRR 05258

PROCUREMENT SPECIFICATION

FOR

SEXTANT HAND CONTROLLER ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
1/7/64	A	05326	2	WJK	
5/19/64	B	08501	2	WK	
8/12/64	C	11526	2	WK.	
3/2/65	D	17051	1	W.K.	W.J.R.

This specification consists of page i
to iii and 1 to 4 inclusive.

APOLLO G&N Specification
PS-1014558 D

PROCUREMENT SPECIFICATION

FOR

SEXTANT HAND CONTROLLER ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the Sextant Hand Controller Assembly, Drawing 1014558, hereinafter called the controller.

1.2 CLASSIFICATION. Unless otherwise specified, all types shall meet all the requirements specified herein. Special requirements for the equipment covered by this specification shall be classified as follows:

a. Type I: The special requirements for Part Numbers 1014558-011, 1014558-021, and 1014558-031 shall be designated as Type I.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of invitation for bids form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

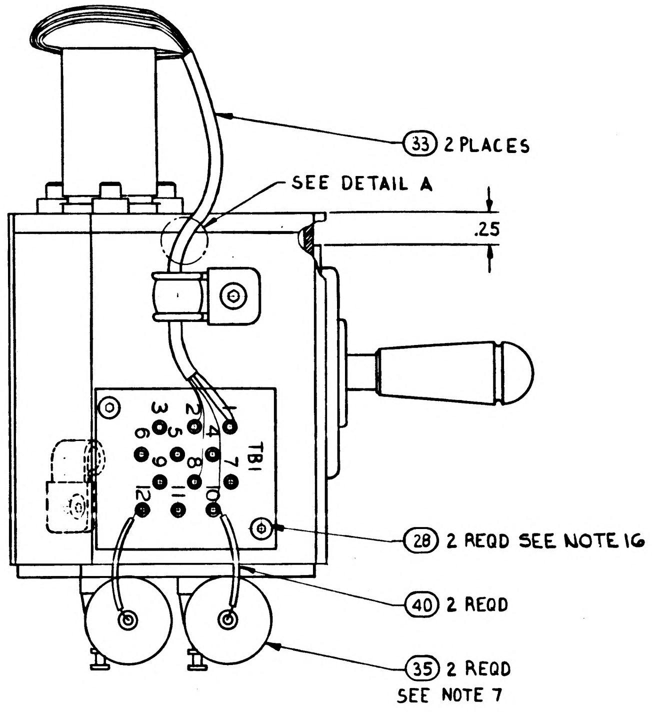
ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014558	Final Test Method for Sextant Hand Controller Assembly

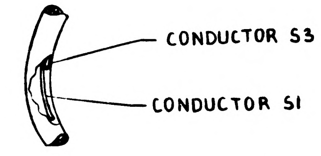
DRAWINGS

APOLLO G&N

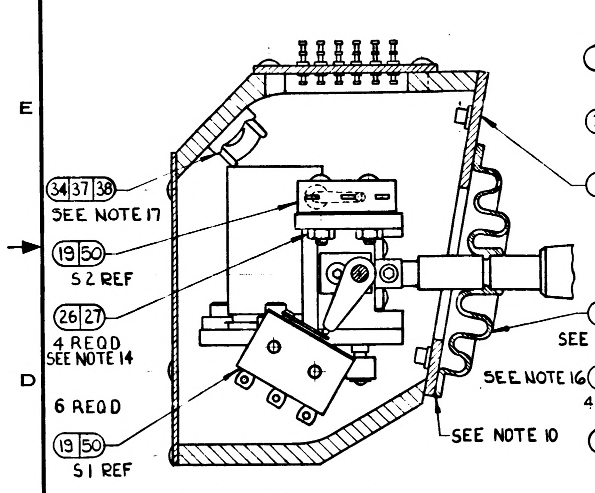
1014540	Sextant Hand Controller, Schematic Diagram (For Reference Only)
1014558	Sextant Hand Controller Assembly

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE AND TEST PER ATP-1014558.
3. SECURE ITEM 9 USING ITEM 46.
4. SECURE ITEM 23 USING ITEM 45.
5. BOND PER MIL-A-25457 A (ES-2531) USING ITEM 44.
6. SOLDER PER MIL-S-6872 A (ES-2505 -1) USING ITEM 41 AND 42.
7. BOND PER MIL-A-90676 (ES-2539 TYPE 1) USING ITEM 43.
8. SELECT FROM 1010316-24 THRU -26, SO THAT OUTPUT QUADRATURE VOLTAGE IS LESS THAN 300 MV.
9. CLIP CONDUCTORS S1 2" LONG AND S3 1.50" LONG (ITEM 16). PUSH INSULATION BACK .37" AND CLIP WIRES. PULL INSULATION OVER CLIPPED ENDS AND APPLY A DROP OF ITEM 47 TO SEVERED ENDS.
10. EDGE OF DIAPHRAGM TO BE FLUSH WITH BOTTOM EDGE OF ITEM 13.
11. INSPECT PER PS 1014558.
12. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).
13. SERIALIZE PER ND 1002023.
14. TORQUE: 2,5 IN LBS MAX.
15. BONDING MATERIAL NOT TO EXCEED THIS AREA.
16. TORQUE: 30 IN. LBS MAX.
17. TORQUE: 6.5 IN. LBS MAX.
18. TORQUE: 1.0 IN. LBS MAX.
19. VENDOR ITEM: SEE SPECIFICATION CONTROL DWG.

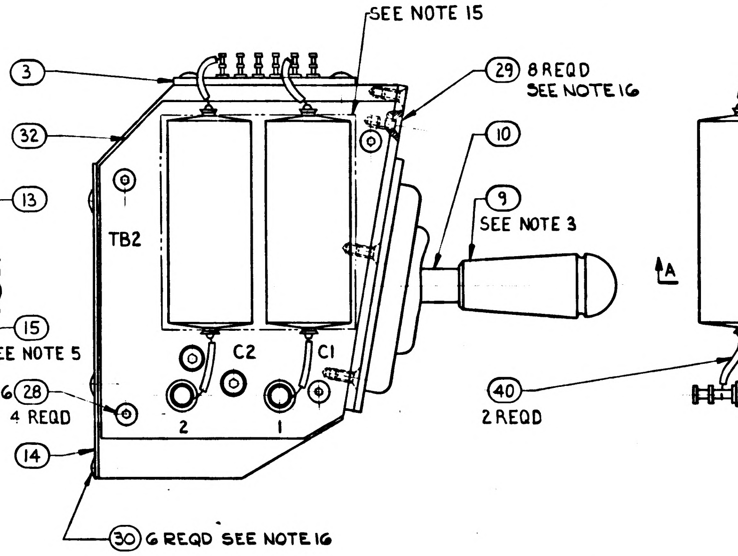

33 2 PLACES
SEE DETAIL A
.25
TB1
28 2 REQD SEE NOTE 16
40 2 REQD
35 2 REQD
SEE NOTE 7

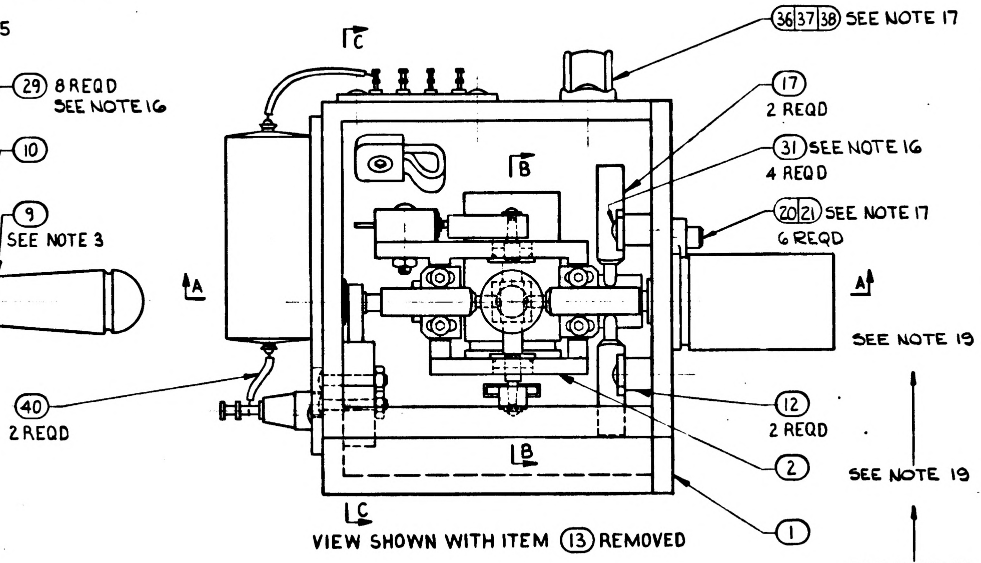

CONDUCTOR S3
CONDUCTOR S1

DETAIL A
2 PLACES
SEE NOTE 9 (REF)


34 37 38
SEE NOTE 17
19 50
S2 REF
26 27
4 REQD
SEE NOTE 14
6 REQD
19 50
S1 REF
13
15
SEE NOTE 5
SEE NOTE 10

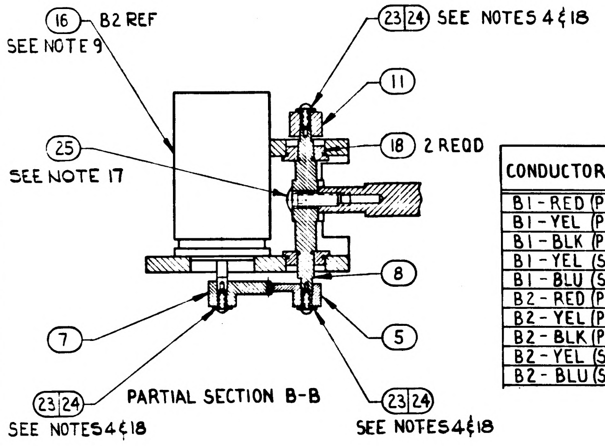
PARTIAL SECTION C-C


SEE NOTE 15
3
32
29 8 REQD
SEE NOTE 16
10
9
SEE NOTE 3
TB2
C2
C1
2
1
SEE NOTE 16 28
4 REQD
14
30 6 REQD SEE NOTE 16


36 37 38 SEE NOTE 17
C
17
2 REQD
31 SEE NOTE 16
4 REQD
20 21 SEE NOTE 17
6 REQD
B
A
A
40
2 REQD
12
2 REQD
2
1
B
C

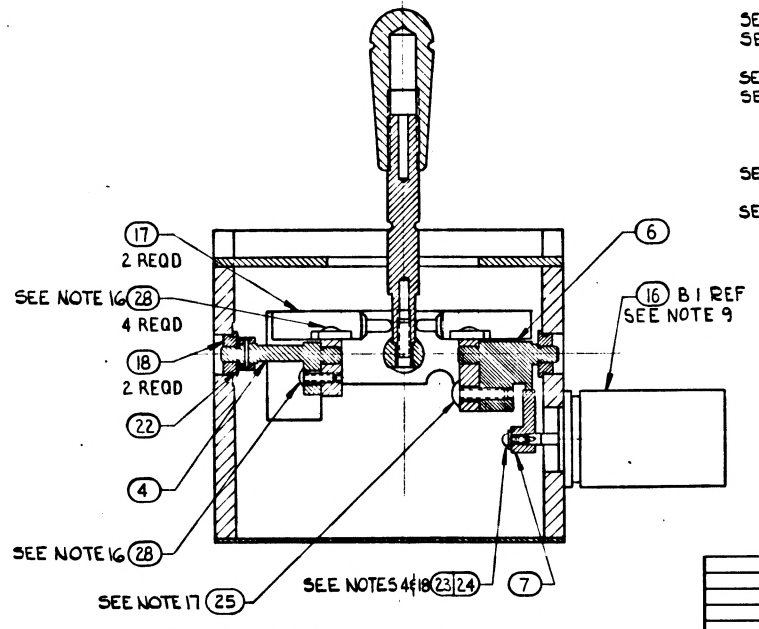
VIEW SHOWN WITH ITEM (13) REMOVED

SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19


16 B2 REF
SEE NOTE 9
23 24 SEE NOTES 4 & 18
11
18 2 REQD
25
SEE NOTE 17
8
7
5
23 24
SEE NOTES 4 & 18
23 24
SEE NOTES 4 & 18

PARTIAL SECTION B-B

CONDUCTOR	FROM	STRIP	TIN	TO	STRIP	TIN	ITEM NO	LENGTH
B1 - RED (P1)	B1-P1			TB1-2	.30	YES		5.00
B1 - YEL (P2)	B1-P2			TB1-1	.30	YES		5.00
B1 - BLK (P3)	B1-P3			TB1-1	.30	YES		5.00
B1 - YEL (S2)	B1-S2			TB1-10	.30	YES		5.00
B1 - BLU (S4)	B1-S4			TB1-8	.30	YES		5.00
B2 - RED (P1)	B2-P1			TB1-3	.30	YES		2.50
B2 - YEL (P2)	B2-P2			TB1-1	.30	YES		2.50
B2 - BLK (P3)	B2-P3			TB1-1	.30	YES		2.50
B2 - YEL (S2)	B2-S2			TB1-12	.30	YES		2.50
B2 - BLU (S4)	B2-S4			TB1-4	.30	YES		2.50


17
2 REQD
SEE NOTE 16 28
4 REQD
18
2 REQD
22
4
6
16 B1 REF
SEE NOTE 9
SEE NOTE 16 28
SEE NOTE 17 25
SEE NOTES 4 & 18 23 24
7

PARTIAL SECTION A-A

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD.
E5		(E1) REPLACES REV D WITH CHANGE (E2) ADDED: 10104514, 1010618-5 (4 REQD), 1006776-11, 1000220-4, 1010316 (2 REQD), 1000220-6, 1000223 (2 REQD) 1010618-13 (2 REQD), 1006776-18 1014540 & 1014522 (FOR REF) (E3) REMD 1000104-3 (8 REQD) (E4) 1010415-1 WAS 1010415, 1010608-1 WAS 1014508, 1010618-15 WAS 1000093-15, 1010618-6 WAS 1000093-6, 1010618-2 (11 REQD) WAS 1000093-2 (8 REQD), 1010628-1 WAS 1000104-1 1010618-1 (6 REQD) WAS 1000093-1 (10 REQD). (E5) ADDED 1010606 (2 REQD)		25 JULY 63	

QUANTITY REQUIRED					EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				011				
				2		50	1010606	INSULATOR SWITCH
				X		49	1014522	WIRING DIAGRAM
				X		48	1014540	SCHEMATIC DIAGRAM, ELEC
				AR		47		BLUE GLYPTAL (ES-7337-1)
				AR		46	MIL-S-40083 (ORD) CLASS 10	LIQUID LOCK (ES-2544-1)
				AR		45	MIL-S-40083 (ORD) CLASS 30	LIQUID LOCK (ES-2544-5)
				AR		44	MIL-25457-A	ADHESIVE - SILICONE RUBBER (ES-2531)
				AR		43	MIL-A-9067-C	EPOXY ADHESIVE (ES-2539-1)
				AR		42	MIL-F-14256	FLUX (ES-2798)
							QQ-S-571	FLUX - TYPE AR (ES-2175 TYPE 2)
				AR		41	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
				AR		40	1006776-18	INSULATION, SLEEVING ELEC
				1		39	1014521	WIRE LIST "AA"
				2		38	1010618-13	SCREW-BUTTON HD SELF LKG SOC HEX
				2		37	1000223	WASHER-CABLE CLAMP
				1		36	1000220-6	CLAMP-CABLE
				2		35	1010316	CAPACITOR, FIXED (SEE NOTE 8)
				1		34	1000220-4	CLAMP, CABLE
				AR		33	1006776-11	INSULATION, SLEEVING ELEC
				1		32	1014514	COMPONENT BOARD ASSEMBLY
				4		31	1010618-5	SCREW-BUTTON HD SELF LKG SOC HEX
				6		30	1010618-1	SCREW-BUTTON HD SELF LKG SOC HEX
				8		29	1010628-1	SCREW-FLAT HD SELF LKG SOC HEX
				11		28	1010618-2	SCREW-BUTTON HD SELF LKG SOC HEX
				4		27	MS-35649-24	NUT-HEX
				4		26	1010618-6	SCREW, BUTTON HD SELF LKG SOC HEX
				2		25	1010618-15	SCREW, BUTTON HD SELF LKG. SOC HEX
				4		24	MS-15795-701	WASHER-FLAT
				4		23	1006783-1	SCREW, BUTTON HD, SOC HEX
				1		22	1010608-1	WASHER-SPRING, CURVED
				6		21	NAS1352C04LL4	SCREW, CAP HD, SELF LKG. SOC HEX
				6		20	1010415-1	CLAMP-SYNCHRO MOUNTING
				2		19	1010435-001	SWITCH-SENSITIVE
				4		18	1010418	BUSHING-FLANGED
				4		17	1014509	SPRING PLUNGER ASSY
				2		16	1010429	SYNCHRO RESOLVER
				1		15	1014512	DIAPHRAGM-HAND CONTROLLER
				1		14	1014563	PLATE BOTTOM
				1		13	1014562	COVER ASSY, (INSEP)
				2		12	1014576	SUPPORT, PLUNGER
				1		11	1014566	ACTUATOR, SHAFT SWITCH
				1		10	1014557	SHAFT, HANDLE
				1		9	1014575	HANDLE
				1		8	1014570	SHAFT
				2		7	1014573	GEAR, SECTOR 72T FULL GEAR 96P
				1		6	1014572	GEAR, SECTOR 55T FULL GEAR 96P SHAFT
				1		5	1014571	GEAR, SECTOR 55T FULL GEAR 96P
				1		4	1014574	SHAFT, ACTUATOR ASSEMBLY
				1		3	1014564	TERMINAL BOARD ASSEMBLY
				1		2	1014567	GIMBAL ASSEMBLY-MATCHED MACHINED
				1		1	1014559	HOUSING ASSEMBLY-MATCHED MACHINED

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014578	1014578

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +− −−
DECIMALS ±.005 ±.02
ANGLES +− −−
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN G. Murray DATE 10 JUL 63
CHECKED C. Wilson 19 Jul 63
APPROVAL E. Metz 19 Jul 63
APPROVAL A. Pridal 19 July 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

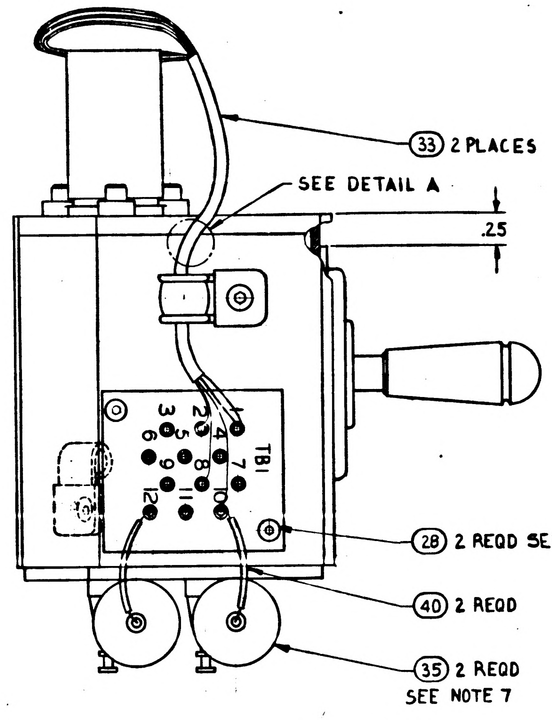
SEXTANT HAND CONTROLLER
ASSEMBLY

CODE IDENT NO.
SIZE E
1014558
SCALE 2:1
SHEET 1 OF 1

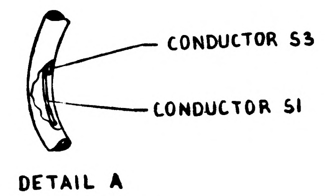
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE AND TEST PER ATP-1014558.
3. SECURE ITEM 9 USING ITEM 46.
4. SECURE ITEM 23 USING ITEM 45.
5. BOND PER MIL-A-25457 A (ES-2531) USING ITEM 44.
6. SOLDER PER MIL-S-6872 A (ES-2505-1) USING ITEM 41 AND 42.
7. BOND PER MIL-A-9067 (ES-2539 TYPE I) USING ITEM 43.
8. SELECT FROM 1010316-24 THRU -26, SO THAT OUTPUT QUADRATURE VOLTAGE IS LESS THAN 300 MV.
9. CLIP CONDUCTORS S1 2" LONG AND S3 1.50" LONG (ITEM 16). PUSH INSULATION BACK .37" AND CLIP WIRES. PULL INSULATION OVER CLIPPED ENDS AND APPLY A DROP OF ITEM 47 TO SEVERED ENDS.
10. EDGE OF DIAPHRAGM TO BE FLUSH WITH BOTTOM EDGE OF ITEM 13.
11. INSPECT PER PS 1014558.
12. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).
13. SERIALIZE PER ND 1002023.
14.
15. BONDING MATERIAL NOT TO EXCEED THIS AREA.
16. TORQUE: 3.4 TO 3.6 IN. LBS.
17. TORQUE: 6.3 TO 6.8 IN. LBS.
18. TORQUE: 0.8 TO 1.0 IN. LBS.
19. VENDOR ITEM: SEE SPECIFICATION CONTROL DWG.

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E	E5	(E1) REPLACES REV D WITH CHANGE (E2) ADDED: 1014514, 1010618-5 (4 REQD), 1006776-11, 1000220-4, 1010316 (2 REQD), 1000220-6, 1000223 (2 REQD), 1010618-13 (2 REQD), 1006776-18, 1014540 & 1014522 (FOR REF) (E3) REMD 1000104-3 (8 REQD) (E4) 1010415-1 WAS 1010415, 1010608-1 WAS 1014508, 1010618-15 WAS 1000093-15, 1010618-6 WAS 1000093-6, 1010618-2 (11 REQD) WAS 1000093-2 (3 REQD), 1010628-1 WAS 1000104-1, 1010618-1 (6 REQD) WAS 1000093-1 (10 REQD). (E5) ADDED 1010606 (2 REQD)	TDRR 02425	25 JULY 63	
	F7	(F1) NOTE 7 MIL-A-9067 WAS MIL-A-90676. (F2) REMD NOTE 14: TORQUE: 2.5 IN. LBS MAX (F3) NOTE 16 WAS 3.0 IN. LBS MAX (F4) NOTE 17 WAS 6.5 IN. LBS MAX (F5) NOTE 18 WAS 1.0 IN. LBS MAX (F6) IT. 44 WAS MIL-25457-A (F7) ADDED P/N 1010655-1 IT. 47	TDRR 03196	17 SEPT 63	

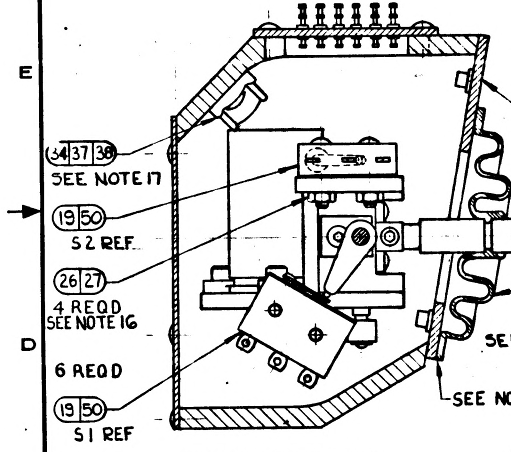


33 2 PLACES
SEE DETAIL A
.25
TB1
3 2 1
6 5 4
9 8 7
12 11 10
28 2 REQD SEE NOTE 16
40 2 REQD
35 2 REQD
SEE NOTE 7



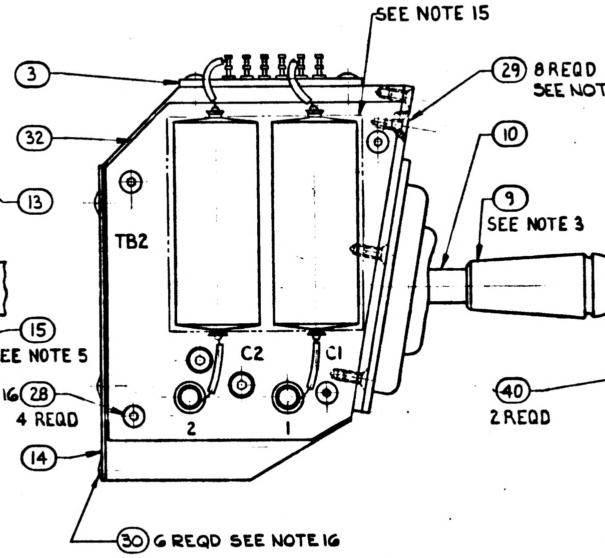
CONDUCTOR S3
CONDUCTOR S1

DETAIL A
2 PLACES
SEE NOTE 9 (REF)

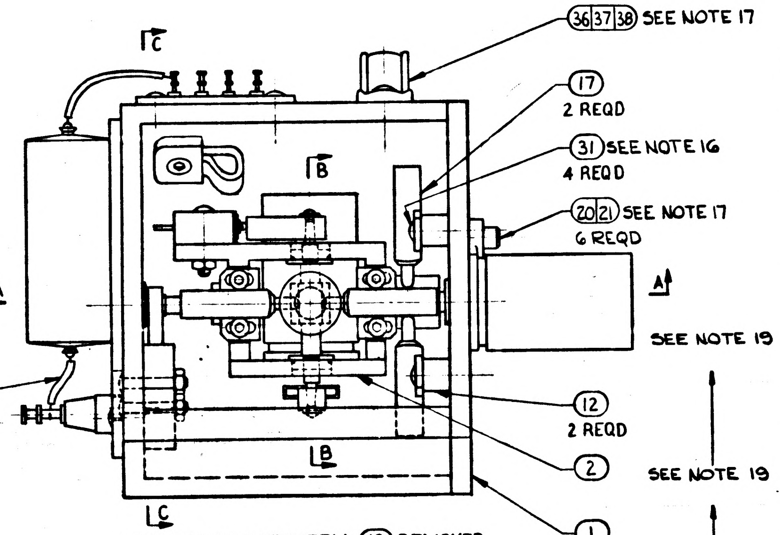


34 37 38
SEE NOTE 17
19 50
S2 REF.
26 27
4 REQD
SEE NOTE 16
6 REQD
19 50
S1 REF
13
15
SEE NOTE 5
SEE NOTE 10

PARTIAL SECTION C-C

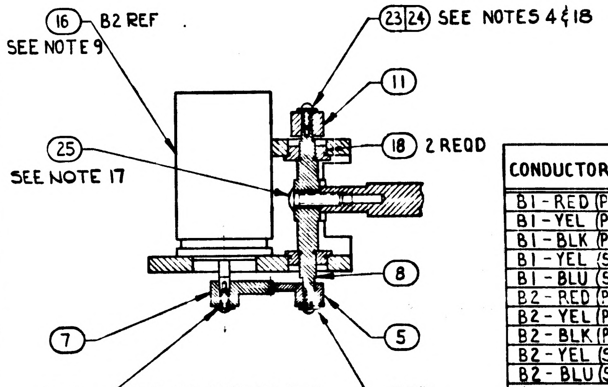


SEE NOTE 15
3
32
29 8 REQD SEE NOTE 16
10
9
SEE NOTE 3
TB2
C2
C1
2
1
SEE NOTE 16 28 4 REQD
14
30 6 REQD SEE NOTE 16



C
36 37 38 SEE NOTE 17
17 2 REQD
31 SEE NOTE 16 4 REQD
20 21 SEE NOTE 17 6 REQD
B
A
A
40 2 REQD
12 2 REQD
2
B
C
1

VIEW SHOWN WITH ITEM (13) REMOVED



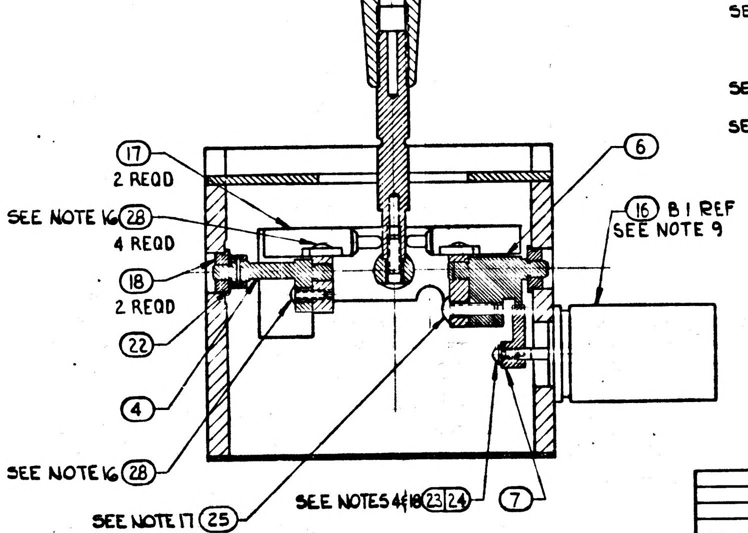
16 B2 REF
SEE NOTE 9
23 24 SEE NOTES 4 & 18
11
18 2 REQD
25
SEE NOTE 17
8
7
5

PARTIAL SECTION B-B

23 24 SEE NOTES 4 & 18

23 24 SEE NOTES 4 & 18

CONDUCTOR	FROM	STRIP	TIN	TO	STRIP	TIN	ITEM NO	LENGTH
B1-RED (P1)	B1-P1			TB1-2	.30	YES		5.00
B1-YEL (P2)	B1-P2			TB1-1	.30	YES		5.00
B1-BLK (P3)	B1-P3			TB1-1	.30	YES		5.00
B1-YEL (S2)	B1-S2			TB1-10	.30	YES		5.00
B1-BLU (S4)	B1-S4			TB1-8	.30	YES		5.00
B2-RED (P1)	B2-P1			TB1-3	.30	YES		2.50
B2-YEL (P2)	B2-P2			TB1-1	.30	YES		2.50
B2-BLK (P3)	B2-P3			TB1-1	.30	YES		2.50
B2-YEL (S2)	B2-S2			TB1-12	.30	YES		2.50
B2-BLU (S4)	B2-S4			TB1-4	.30	YES		2.50



17 2 REQD
SEE NOTE 16 28 4 REQD
18 2 REQD
22
4
SEE NOTE 16 28
SEE NOTE 17 25
SEE NOTES 4 & 18 23 24
7
6
16 B1 REF
SEE NOTE 9

PARTIAL SECTION A-A

SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19

QUANTITY REQUIRED							
011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2		50	1010606	INSULATOR SWITCH
X		49	1014522	WIRING DIAGRAM
X		48	1014540	SCHEMATIC DIAGRAM, ELEC
AR		47	1010655-1	BLUE GLYPTAL (ES-7337-1)
AR		46	MIL-S-40083 (ORD) CLASS 10	LIQUID LOCK (ES-2544-1)
AR		45	MIL-S-40083 (ORD) CLASS 30	LIQUID LOCK (ES-2544-5)
AR		44	MIL-25457	ADHESIVE-SILICONE RUBBER (ES-2531)
AR		43	MIL-A-9067	EPOXY ADHESIVE (ES-2539-1)
AR		42	MIL-F-14256 QQ-S-571	FLUX (ES-2798) FLUX-TYPE AR (ES-2175 TYPE 2)
AR		41	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY I)
AR		40	1006776-18	INSULATION, SLEEVING ELEC
1		39	1014521	WIRE LIST "AA"
2		38	1010618-13	SCREW-BUTTON HD SELF LKG SOC HEX
2		37	1000223	WASHER-CABLE CLAMP
1		36	1000220-6	CLAMP-CABLE
2		35	1010316	CAPACITOR, FIXED (SEE NOTE 8)
1		34	1000220-4	CLAMP, CABLE
AR		33	1006776-11	INSULATION, SLEEVING ELEC
1		32	1014514	COMPONENT BOARD ASSEMBLY
4		31	1010618-5	SCREW-BUTTON HD SELF LKG SOC HEX
6		30	1010618-1	SCREW-BUTTON HD SELF LKG SOC HEX
8		29	1010628-1	SCREW-FLAT HD SELF LKG SOC HEX
11		28	1010618-2	SCREW-BUTTON HD SELF LKG SOC HEX
4		27	MS-35649-24	NUT-HEX
4		26	1010618-6	SCREW, BUTTON HD SELF LKG SOC HEX
2		25	1010618-15	SCREW, BUTTON HD SELF LKG. SOC HEX
4		24	MS-15795-701	WASHER-FLAT
4		23	1006783-1	SCREW, BUTTON HD, SOC HEX
1		22	1010608-1	WASHER-SPRING, CURVED
6		21	NAS1352C04LL4	SCREW, CAP HD, SELF LKG. SOC HEX
6		20	1010415-1	CLAMP-SYNCHRO MOUNTING
2		19	1010435-001	SWITCH-SENSITIVE
4		18	1010418	BUSHING-FLANGED
4		17	1014509	SPRING PLUNGER ASSY
2		16	1010429	SYNCHRO RESOLVER
1		15	1014512	DIAPHRAGM-HAND CONTROLLER
1		14	1014563	PLATE BOTTOM
1		13	1014562	COVER ASSY, (INSEP)
2		12	1014576	SUPPORT, PLUNGER
1		11	1014566	ACTUATOR, SHAFT SWITCH
1		10	1014557	SHAFT, HANDLE
1		9	1014575	HANDLE
1		8	1014570	SHAFT
2		7	1014573	GEAR, SECTOR 72T FULL GEAR 96P
1		6	1014572	GEAR, SECTOR 55T FULL GEAR 96P SHAFT
1		5	1014571	GEAR, SECTOR 55T FULL GEAR 96P
1		4	1014574	SHAFT, ACTUATOR ASSEMBLY
1		3	1014564	TERMINAL BOARD ASSEMBLY
1		2	1014567	GIMBAL ASSEMBLY-MATCHED MACHINED
1		1	1014559	HOUSING ASSEMBLY-MATCHED MACHINED

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014578	1014578
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +− −−
DECIMALS ±.005 ±.02
ANGLES +− −−
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN G. Murray DATE 10 JUL 63
CHECKED C. Wilson 19 Jul 63
APPROVAL E. Mertz 19 Jul 63
APPROVAL 19 Jul 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

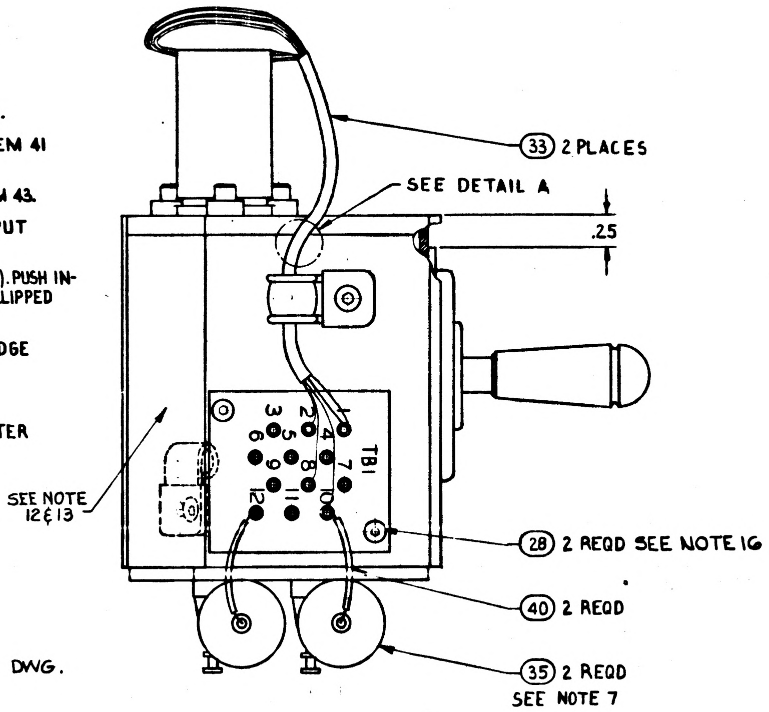
SEXTANT HAND CONTROLLER
ASSEMBLY

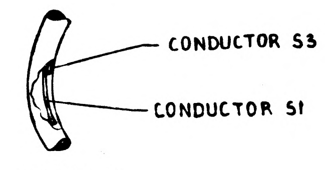
CODE IDENT NO.
SIZE E
1014558
SCALE 2:1
SHEET 1 OF 1

1014558

1014558

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE AND TEST PER ATP-1014558.
3. SECURE ITEM 9 USING ITEM 46.
4. SECURE ITEM 23 USING ITEM 45.
5. BOND PER MIL-A-25457 (ES-2531) USING ITEM 44.
6. SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEM 41 AND 42.
7. BOND PER MIL-A-9067 (ES-2539 TYPE I) USING ITEM 43.
8. SELECT FROM 1010316-24 THRU -26, SO THAT OUTPUT QUADRATURE VOLTAGE IS LESS THAN 300 MV.
9. CLIP CONDUCTORS S1 2" LONG AND S3 1.50" LONG (ITEM 16). PUSH INSULATION BACK .37" AND CLIP WIRES. PULL INSULATION OVER CLIPPED ENDS AND APPLY A DROP OF ITEM 47 TO SEVERED ENDS.
10. EDGE OF DIAPHRAGM TO BE FLUSH WITH BOTTOM EDGE OF ITEM 13.
11. INSPECT PER PS 1014558.
12. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).
13. SERIALIZE PER ND 1002023.
14.
15. BONDING MATERIAL NOT TO EXCEED THIS AREA.
16. TORQUE: 3.4 TO 3.6 IN. LBS.
17. TORQUE: 6.3 TO 6.8 IN. LBS.
18. TORQUE: 0.8 TO 1.0 IN. LBS.
19. VENDOR ITEM: SEE SPECIFICATION CONTROL DWG.

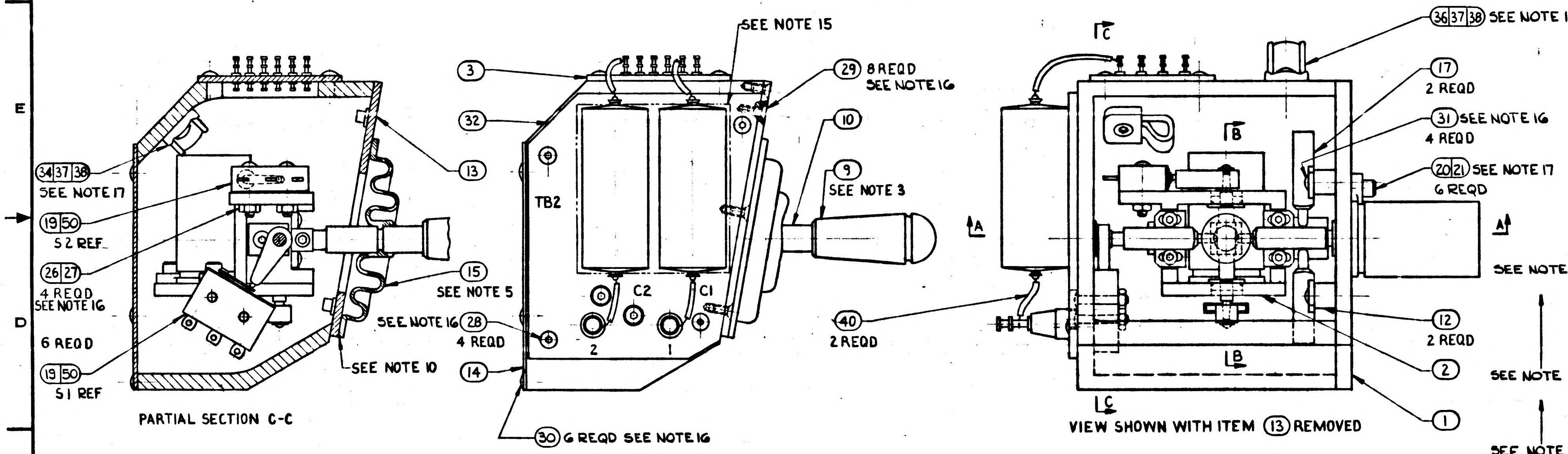

33 2 PLACES
SEE DETAIL A
.25
TB1
1 2 3 4 5 6 7 8 9 10 11 12
SEE NOTE 12 & 13
28 2 REQD SEE NOTE 16
40 2 REQD
35 2 REQD
SEE NOTE 7


CONDUCTOR S3
CONDUCTOR S1

DETAIL A
2 PLACES
SEE NOTE 9 (REF)

REVISIONS

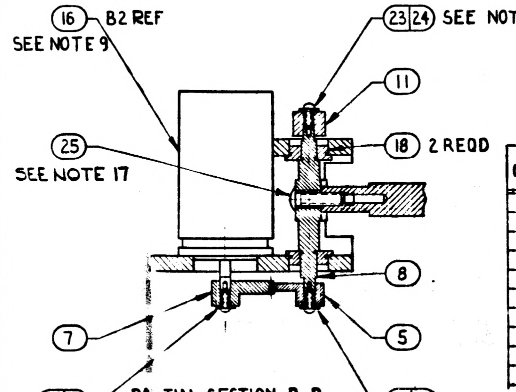
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E5		(E1) REPLACES REV D WITH CHANGE (E2) ADDED: 10104514, 1010618-5 (4 REQD), 1006776-11, 1000220-4, 1010316 (2 REQD), 1000220-6, 1000223 (2 REQD), 1010618-13 (2 REQD), 1006776-18 1014540 & 1014522 (FOR REF) (E3) REMD 1000104-3 (8 REQD) (E4) 1010415-1 WAS 1010415, 1010608-1 WAS 1014508, 1010618-15 WAS 1000093-15, 1010618-6 WAS 1000093-6, 1010618-2 (11 REQD) WAS 1000093-2 (8 REQD), 1010628-1 WAS 1000104-1, 1010618-1 (6 REQD) WAS 1000093-1 (10 REQD). (E5) ADDED 1010606 (2 REQD)	TDRR 02425	25 JULY 63	WK
F7		(F1) NOTE 7 MIL-A-9067 WAS MIL-A-90676. (F2) REMD NOTE 14; TORQUE: 2.5 IN. LBS MAX (F3) NOTE 16 WAS 30 IN. LBS MAX (F4) NOTE 17 WAS 6.5 IN. LBS MAX (F5) NOTE 18 WAS 1.0 IN. LBS MAX (F6) IT. 44 WAS MIL-25457-A (F7) ADDED P/N 1010655-1 IT. 47	TDRR 03196	17 SEPT 63	WK
G6		REVISED PER TDRR NO. 03575		3 OCT 63	WK


SEE NOTE 15
3
32
29 8 REQD SEE NOTE 16
13
34 37 38 SEE NOTE 17
19 50 S2 REF
26 27 4 REQD SEE NOTE 16
6 REQD
19 50 S1 REF
15 SEE NOTE 5
SEE NOTE 16 28 4 REQD
SEE NOTE 10
14
30 6 REQD SEE NOTE 16
TB2
C2
C1
2
1
10
9 SEE NOTE 3
40 2 REQD
C
B
A
36 37 38 SEE NOTE 17
17 2 REQD
31 SEE NOTE 16 4 REQD
20 21 SEE NOTE 17 6 REQD
12 2 REQD
2
1

PARTIAL SECTION C-C

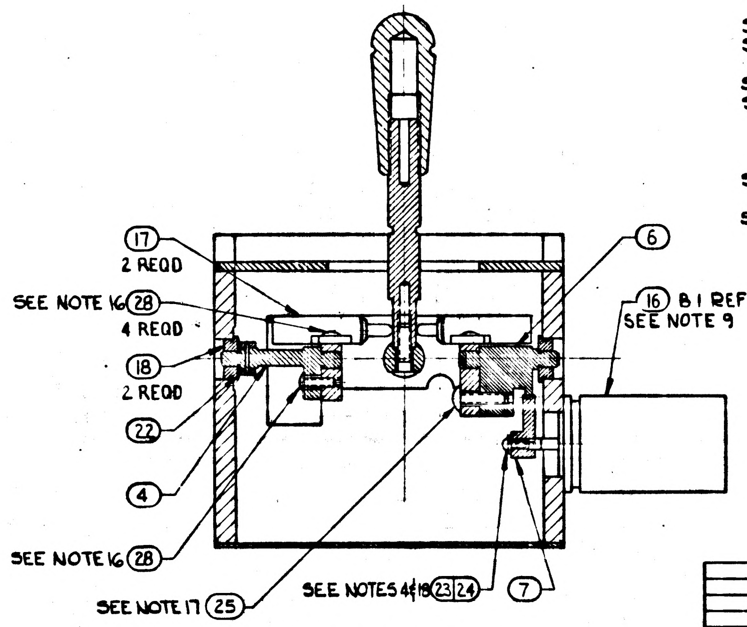
VIEW SHOWN WITH ITEM 13 REMOVED

SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19


16 B2 REF
SEE NOTE 9
23 24 SEE NOTES 4 & 18
11
18 2 REQD
25
SEE NOTE 17
8
7
5
23 24
SEE NOTES 4 & 18
23 24
SEE NOTES 4 & 18

PARTIAL SECTION B-B

CONDUCTOR	FROM	STRIP	TIN	TO	STRIP	TIN	ITEM NO	LENGTH
B1-RED (P1)	B1-P1			TB1-2	.30	YES		5.00
B1-YEL (P2)	B1-P2			TB1-1	.30	YES		5.00
B1-BLK (P3)	B1-P3			TB1-1	.30	YES		5.00
B1-YEL (S2)	B1-S2			TB1-10	.30	YES		5.00
B1-BLU (S4)	B1-S4			TB1-8	.30	YES		5.00
B2-RED (P1)	B2-P1			TB1-3	.30	YES		2.50
B2-YEL (P2)	B2-P2			TB1-1	.30	YES		2.50
B2-BLK (P3)	B2-P3			TB1-1	.30	YES		2.50
B2-YEL (S2)	B2-S2			TB1-12	.30	YES		2.50
B2-BLU (S4)	B2-S4			TB1-4	.30	YES		2.50


17 2 REQD
SEE NOTE 16 28 4 REQD
18 2 REQD
22
4
6
16 B1 REF
SEE NOTE 9
SEE NOTE 16 28
SEE NOTE 17 25
SEE NOTES 4 & 18 23 24
7

PARTIAL SECTION A-A

QUANTITY REQUIRED			011	EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			2		50	1010606	INSULATOR SWITCH
			X		49	1014522	WIRING DIAGRAM
			X		48	1014540	SCHEMATIC DIAGRAM, ELEC
			AR		47	1010655-1	BLUE GLYPTAL (ES-7337-1)
			AR		46	MIL-S-40083 (ORD) CLASS 10	LIQUID LOCK (ES-2544-1)
			AR		45	MIL-S-40083 (ORD) CLASS 30	LIQUID LOCK (ES-2544-5)
			AR		44	MIL-A-25457	ADHESIVE-SILICONE RUBBER (ES-2531)
			AR		43	MIL-A-9067	EPOXY ADHESIVE (ES-2539-1)
			AR		42	MIL-F-14256 QQ-S-571	FLUX (ES-2798) FLUX-TYPE AR (ES-2175 TYPE 2)
			AR		41	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY
			AR		40	1006776-18	INSULATION, SLEEVING ELEC
			1		39	1014521	WIRE LIST "AA"
			2		38	1010618-13	SCREW-BUTTON HD SELF LKG SOC HEX
			2		37	1011918-1	WASHER-CABLE CLAMP
			1		36	1000220-6	CLAMP-CABLE
			2		35	1010316	CAPACITOR, FIXED (SEE NOTE 8)
			1		34	1000220-4	CLAMP, CABLE
			AR		33	1006776-11	INSULATION, SLEEVING ELEC
			1		32	1014514	COMPONENT BOARD ASSEMBLY
			4		31	1010618-5	SCREW-BUTTON HD SELF LKG SOC HEX
			6		30	1010618-1	SCREW-BUTTON HD SELF LKG SOC HEX
			8		29	1010628-1	SCREW-FLAT HD SELF LKG SOC HEX
			11		28	1010618-2	SCREW-BUTTON HD SELF LKG SOC HEX
			4		27	MS-35649-24	NUT-HEX
			4		26	1010618-6	SCREW, BUTTON HD SELF LKG SOC HEX
			2		25	1010618-15	SCREW, BUTTON HD SELF LKG. SOC HEX
			4		24	MS-15795-701	WASHER-FLAT
			4		23	1006783-1	SCREW, BUTTON HD, SOC HEX
			1		22	1010608-1	WASHER-SPRING, CURVED
			6		21	NAS1352C04LL4	SCREW, CAP HD, SELF LKG. SOC HEX
			6		20	1010415-1	CLAMP-SYNCHRO MOUNTING
			2		19	1010435-001	SWITCH-SENSITIVE
			4		18	1010418	BUSHING-FLANGED
			4		17	1014509	SPRING PLUNGER ASSY
			2		16	1010429	SYNCHRO RESOLVER
			1		15	1014512	DIAPHRAGM-HAND CONTROLLER
			1		14	1014563	PLATE BOTTOM
			1		13	1014562	COVER ASSY (INSEP)
			2		12	1014576	SUPPORT, PLUNGER
			1		11	1014566	ACTUATOR, SHAFT SWITCH
			1		10	1014557	SHAFT, HANDLE
			1		9	1014575	HANDLE
			1		8	1014570	SHAFT
			2		7	1014573	GEAR, SECTOR 72T FULL GEAR 96P
			1		6	1014516	GEAR, SECTOR ASS'Y.
			1		5	1014571	GEAR, SECTOR 55T FULL GEAR 96P
			1		4	1014574	SHAFT, ACTUATOR ASSEMBLY
			1		3	1014564	TERMINAL BOARD ASSEMBLY
			1		2	1014567	GIMBAL ASSEMBLY-MATCHED MACHINED
			1		1	1014559	HOUSING ASSEMBLY-MATCHED MACHINED

LIST OF PARTS AND MATERIALS

1014558 G

NEXT ASSY	USED ON
1014578	1014578

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +- --
DECIMALS ±.005 ±.02
ANGLES +- --
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN G. Murray DATE 10 JUL 63
CHECKED C. Wilson 19 Jul 63
APPROVAL E. Metz 19 JUL 63
APPROVAL 19 JULY 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

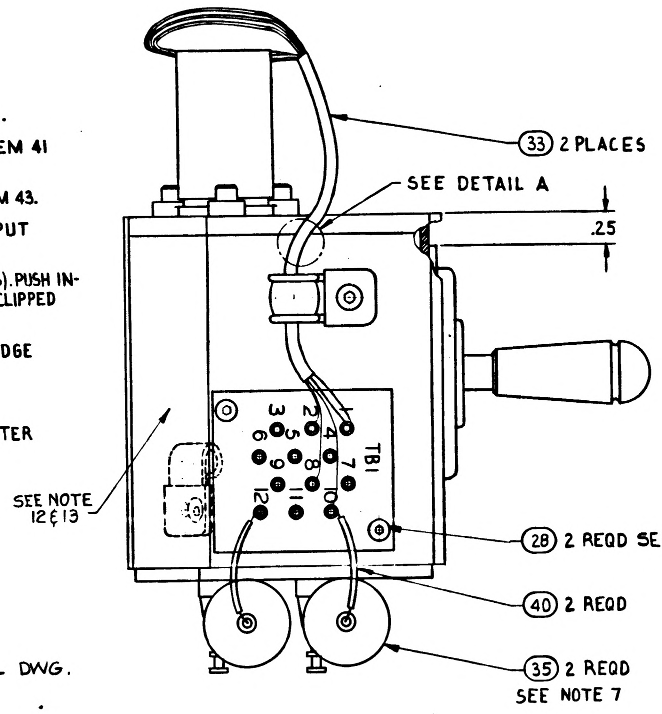
SEXTANT HAND CONTROLLER
ASSEMBLY

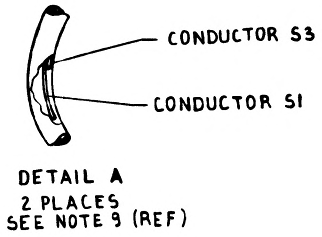
CODE IDENT NO.
SIZE E
1014558
SCALE 2:1
SHEET 1 OF 1

INCHES
PHOTOGRAPHIC SCALE ONLY

1014558 H

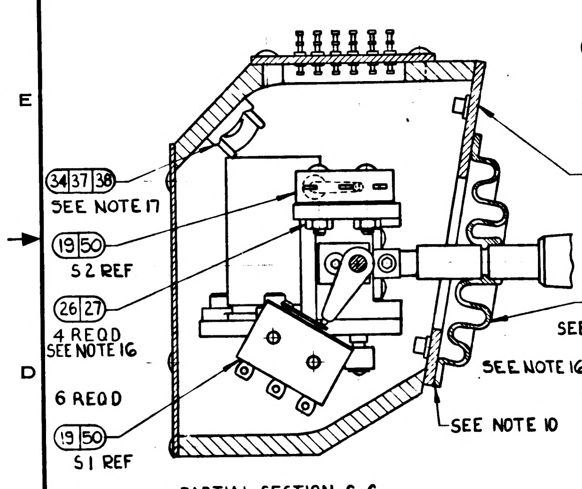
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE AND TEST PER ATP-1014558.
3. SECURE ITEM 9 USING ITEM 46.
4. SECURE ITEM 23 USING ITEM 45.
5. BOND PER MIL-A-25457 (ES-2531) USING ITEM 44.
6. SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEM 41 AND 42.
7. BOND PER MIL-A-9067 (ES-2539 TYPE I) USING ITEM 43.
8. SELECT FROM 1010316-24 THRU -27, SO THAT OUTPUT QUADRATURE VOLTAGE IS LESS THAN 300 MV.
9. CLIP CONDUCTORS S1 2" LONG AND S3 1.50" LONG (ITEM 16). PUSH INSULATION BACK .37" AND CLIP WIRES. PULL INSULATION OVER CLIPPED ENDS AND APPLY A DROP OF ITEM 47 TO SEVERED ENDS.
10. EDGE OF DIAPHRAGM TO BE FLUSH WITH BOTTOM EDGE OF ITEM 13.
11. INSPECT PER PS 1014558.
12. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).
13. SERIALIZE PER ND 1002023.
14.
15. BONDING MATERIAL NOT TO EXCEED THIS AREA.
16. TORQUE: 3.4 TO 3.6 IN. LBS.
17. TORQUE: 6.3 TO 6.8 IN. LBS.
18. TORQUE: 0.8 TO 1.0 IN. LBS.
19. VENDOR ITEM: SEE SPECIFICATION CONTROL DWG.


(33) 2 PLACES
SEE DETAIL A
.25
TB1
SEE NOTE 12 & 13
(28) 2 REQD SEE NOTE 16
(40) 2 REQD
(35) 2 REQD
SEE NOTE 7

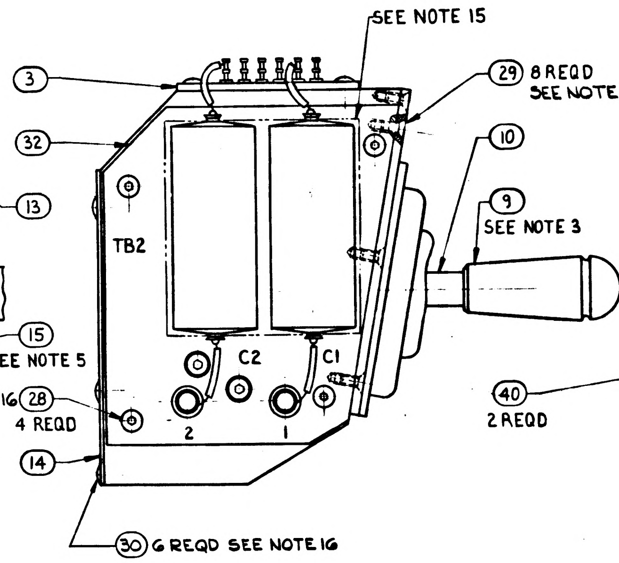

CONDUCTOR S3
CONDUCTOR S1

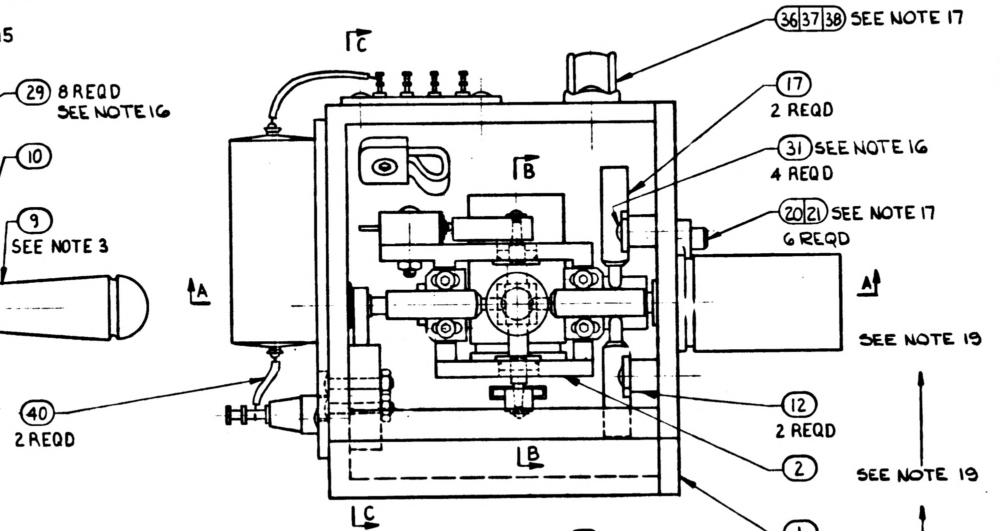
DETAIL A
2 PLACES
SEE NOTE 9 (REF)

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E	5	(E1) REPLACES REV D WITH CHANGE (E2) ADDED: 1010451-1, 1010618-5 (4 REQD), 1006776-11, 1000220-4, 1010316 (2 REQD), 1000220-6, 1000223 (2 REQD), 1010618-13 (2 REQD), 1006776-18, 1014540 & 1014522 (FOR REF) (E3) REMD 1000104-3 (8 REQD) (E4) 1010415-1 WAS 1010415, 1010608-1 WAS 1014508, 1010618-15 WAS 1000023-15, 1010618-6 WAS 1000093-6, 1010618-2 (11 REQD) WAS 1000093-2 (8 REQD), 1010628-1 WAS 1000104-1, 1010618-1 (6 REQD) WAS 1000093-1 (10 REQD). (E5) ADDED 1010606 (2 REQD)	TDRR 02425	25 JULY 63	WK
F	7	(F1) NOTE 7 MIL-A-9067 WAS MIL-A-90676. (F2) REMD NOTE 14; TORQUE: 2.5 IN. LBS MAX (F3) NOTE 16 WAS 3.0 IN. LBS MAX (F4) NOTE 17 WAS 6.5 IN. LBS MAX (F5) NOTE 18 WAS 1.0 IN. LBS MAX (F6) IT. 44 WAS MIL-25457-A (F7) ADDED P/N 1010655-1 IT. 47	TDRR 03196	17 SEPT 63	WK
G	6	REVISED PER TDRR NO. 03575		3 OCT 63	WK
H		REVISED PER TDRR NO. 04070		3 OCT 63	WK


(34)(37)(38) SEE NOTE 17
(19)(50) S2 REF
(26)(27) 4 REQD SEE NOTE 16
6 REQD
(19)(50) S1 REF
(13)
(15) SEE NOTE 5
SEE NOTE 16 (28) 4 REQD
SEE NOTE 10

PARTIAL SECTION C-C

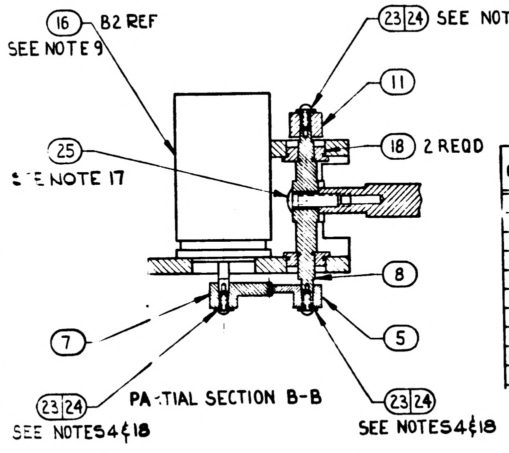

SEE NOTE 15
(3)
(32)
(29) 8 REQD SEE NOTE 16
(10)
(9) SEE NOTE 3
TB2
C2
C1
2
1
(14)
(30) 6 REQD SEE NOTE 16


(36)(37)(38) SEE NOTE 17
C
(17) 2 REQD
(31) SEE NOTE 16 4 REQD
B
(20)(21) SEE NOTE 17 6 REQD
A
A
SEE NOTE 19
(40) 2 REQD
(12) 2 REQD
(2)
B
SEE NOTE 19
C
(1)

VIEW SHOWN WITH ITEM (13) REMOVED

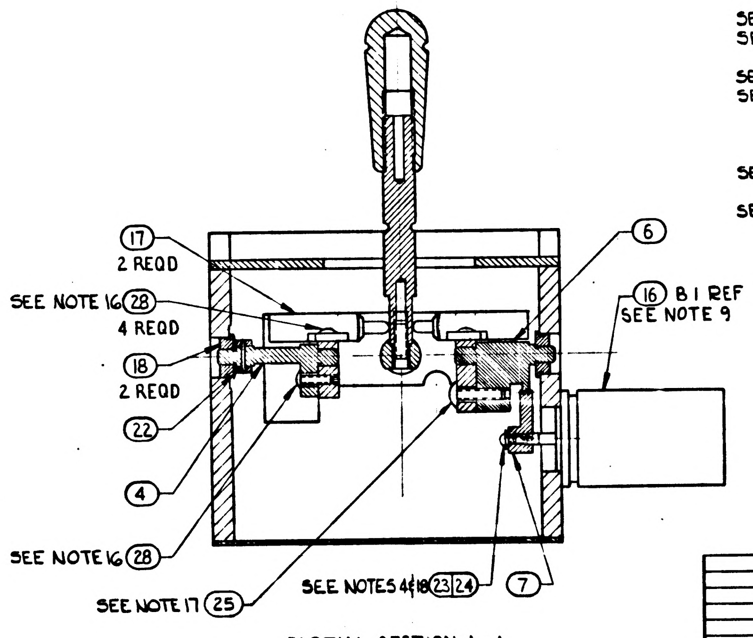
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19

			2		50	1010606	INSULATOR SWITCH
			X		49	1014522	WIRING DIAGRAM
			X		48	1014540	SCHEMATIC DIAGRAM, ELEC
			AR		47	1010655-1	BLUE GLYPTAL (ES-7337-1)
			AR		46	MIL-S-40083 (ORD) CLASS 10	LIQUID LOCK (ES-2544-1)
			AR		45	MIL-S-40083 (ORD) CLASS 30	LIQUID LOCK (ES-2544-5)
			AR		44	MIL-A-25457	ADHESIVE-SILICONE RUBBER (ES-2531)
			AR		43	MIL-A-9067	EPOXY ADHESIVE (ES-2539-1)
			AR		42	MIL-F-14256 QQ-S-571	FLUX (ES-2798) FLUX-TYPE AR (ES-2175 TYPE 2)
			AR		41	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY I)
			AR		40	1006776-18	INSULATION, SLEEVING ELEC
			1		39	1014521	WIRE LIST "AA"
			2		38	1010618-13	SCREW-BUTTON HD SELF LKG SOC HEX
			2		37	1011918-1	WASHER-CABLE CLAMP
			1		36	1000220-6	CLAMP-CABLE
			2		35	1010316	CAPACITOR, FIXED (SEE NOTE 8)
			1		34	1000220-4	CLAMP, CABLE
			AR		33	1006776-11	INSULATION, SLEEVING ELEC
			1		32	1014514	COMPONENT BOARD ASSEMBLY
			4		31	1010618-5	SCREW-BUTTON HD SELF LKG SOC HEX
			6		30	1010618-1	SCREW-BUTTON HD SELF LKG SOC HEX
			8		29	1010628-1	SCREW-FLAT HD SELF LKG SOC HEX
			11		28	1010618-2	SCREW-BUTTON HD SELF LKG SOC HEX
			4		27	MS-35649-24	NUT-HEX
			4		26	1010618-6	SCREW, BUTTON HD SELF LKG SOC HEX
			2		25	1010618-15	SCREW, BUTTON HD SELF LKG. SOC HEX
			4		24	MS-15795-701	WASHER-FLAT
			4		23	1006783-1	SCREW, BUTTON HD, SOC HEX
			1		22	1010608-1	WASHER-SPRING, CURVED
			6		21	NAS1352C04LL4	SCREW, CAP HD, SELF LKG. SOC HEX
			6		20	1010415-1	CLAMP-SYNCHRO MOUNTING
			2		19	1010435-001	SWITCH-SENSITIVE
			4		18	1010418	BUSHING-FLANGED
			4		17	1014509	SPRING PLUNGER ASSY
			2		16	1010429	SYNCHRO RESOLVER
			1		15	1014512	DIAPHRAGM-HAND CONTROLLER
			1		14	1014563	PLATE BOTTOM
			1		13	1014562	COVER ASSY, (INSEP)
			2		12	1014576	SUPPORT, PLUNGER
			1		11	1014566	ACTUATOR, SHAFT SWITCH
			1		10	1014557	SHAFT, HANDLE
			1		9	1014575	HANDLE
			1		8	1014570	SHAFT
			2		7	1014573	GEAR, SECTOR 72T FULL GEAR 96P
			1		6	1014516	GEAR, SECTOR ASS'Y.
			1		5	1014571	GEAR, SECTOR 55T FULL GEAR 96P
			1		4	1014574	SHAFT, ACTUATOR ASSEMBLY
			1		3	1014564	TERMINAL BOARD ASSEMBLY
			1		2	1014567	GIMBAL ASSEMBLY-MATCHED MACHINED
			1		1	1014559	HOUSING ASSEMBLY-MATCHED MACHINED
			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		


(16) B2 REF
SEE NOTE 9
(23)(24) SEE NOTES 4 & 18
(11)
(18) 2 REQD
(25)
SEE NOTE 17
(8)
(7)
(5)
(23)(24)
SEE NOTES 4 & 18
(23)(24)
SEE NOTES 4 & 18

PARTIAL SECTION B-B

CONDUCTOR	FROM	STRIP	TIN	TO	STRIP	TIN	ITEM NO	LENGTH
B1-RED (P1)	B1-P1			TB1-2	.30	YES		5.00
B1-YEL (P2)	B1-P2			TB1-1	.30	YES		5.00
B1-BLK (P3)	B1-P3			TB1-1	.30	YES		5.00
B1-YEL (S2)	B1-S2			TB1-10	.30	YES		5.00
B1-BLU (S4)	B1-S4			TB1-8	.30	YES		5.00
B2-RED (P1)	B2-P1			TB1-3	.30	YES		2.50
B2-YEL (P2)	B2-P2			TB1-1	.30	YES		2.50
B2-BLK (P3)	B2-P3			TB1-1	.30	YES		2.50
B2-YEL (S2)	B2-S2			TB1-12	.30	YES		2.50
B2-BLU (S4)	B2-S4			TB1-4	.30	YES		2.50


(17) 2 REQD
(6)
SEE NOTE 16 (28) 4 REQD
(16) B1 REF
SEE NOTE 9
(18) 2 REQD
(22)
(4)
SEE NOTE 16 (28)
SEE NOTE 17 (25)
SEE NOTES 4 & 18 (23)(24)
(7)

PARTIAL SECTION A-A

1014578	1014578
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +− DECIMALS ±.005 ±.02 ANGLES +−
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN G. Murray DATE 10 JUL 63
CHECKED C. Wilson 19 Jul 63
APPROVAL E. Mertz 19 Jul 63
APPROVAL 19 July 63
NASA APPROVAL
MIT APPROVAL

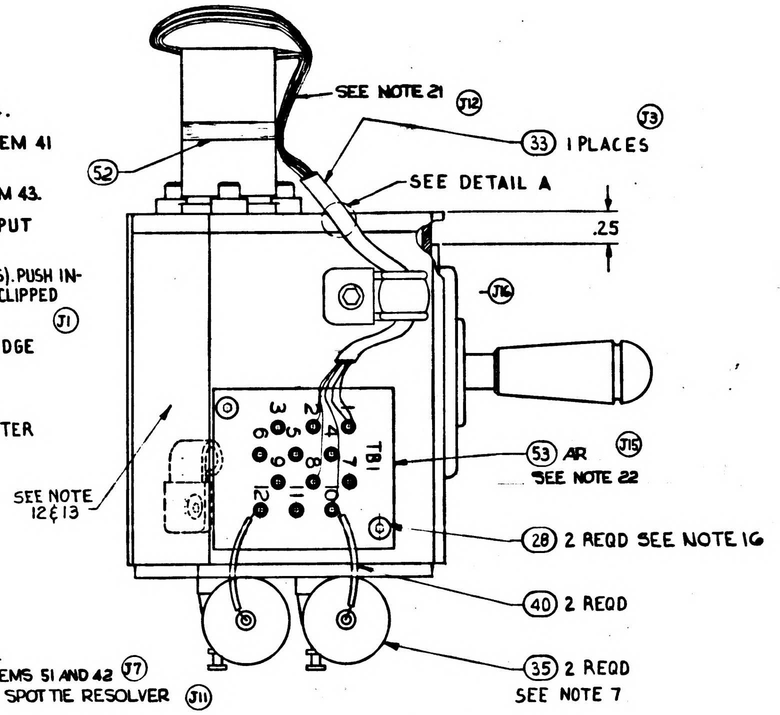
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

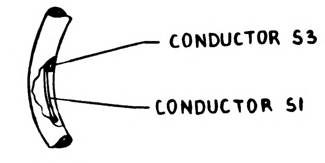
SEXTANT HAND CONTROLLER
ASSEMBLY

CODE IDENT NO.
SIZE E
1014558
SCALE 2:1
SHEET 1 OF 1

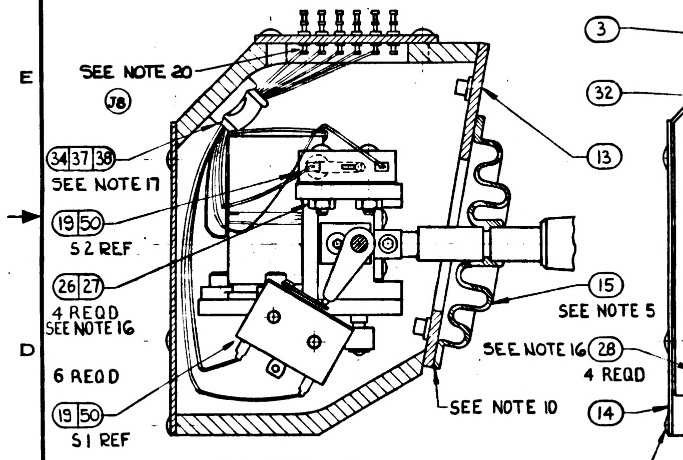
1014558K

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE AND TEST PER ATP-1014558.
3. SECURE ITEM 9 USING ITEM 46.
4. SECURE ITEM 23 USING ITEM 45.
5. BOND PER MIL-A-25457 (ES-2531) USING ITEM 44.
6. SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEM 41 AND 42.
7. BOND PER MIL-A-9067 (ES-2539 TYPE I) USING ITEM 43.
8. SELECT FROM 1010316-24 THRU -27, SO THAT OUTPUT QUADRATURE VOLTAGE IS LESS THAN 300 MV.
9. CLIP CONDUCTORS S1 4.00" LONG AND S3 3.50" LONG (ITEM 16). PUSH INSULATION BACK .37" AND CLIP WIRES. PULL INSULATION OVER CLIPPED ENDS AND APPLY A DROP OF ITEM 47 TO SEVERED ENDS. (J1)
10. EDGE OF DIAPHRAGM TO BE FLUSH WITH BOTTOM EDGE OF ITEM 13.
11. INSPECT PER PS 1014558.
12. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267).
13. SERIALIZE PER ND 1002023.
14.
15. BONDING MATERIAL NOT TO EXCEED THIS AREA.
16. TORQUE: 3.4 TO 3.6 IN. LBS.
17. TORQUE: 6.3 TO 6.8 IN. LBS.
18. TORQUE: 0.8 TO 1.0 IN. LBS.
19. VENDOR ITEM: SEE SPECIFICATION CONTROL DWG.
20. SOLDER ALL LEADS ON UNDERSIDE OF TB1 USING ITEMS 51 AND 42 (J7)
21. SPOT TIE RESOLVER WIRES TO RESOLVER BODY, AND SPOT TIE RESOLVER WIRES TOGETHER AS NECESSARY, USING ITEM 52. (J11)
22. DO NOT SHRINK UNTIL NEXT ASSEMBLY. (J14)

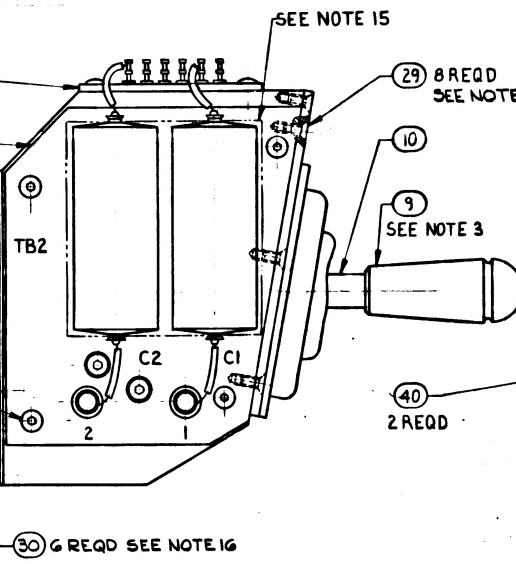

SEE NOTE 21 (J12)
(33) 1 PLACES (J3)
(52)
SEE DETAIL A
.25
(J16)
TB1
1 2 3 4 5 6 7 8 9 10 11 12
(53) AR (J15) SEE NOTE 22
SEE NOTE 12 & 13
(28) 2 REQD SEE NOTE 16
(40) 2 REQD
(35) 2 REQD SEE NOTE 7

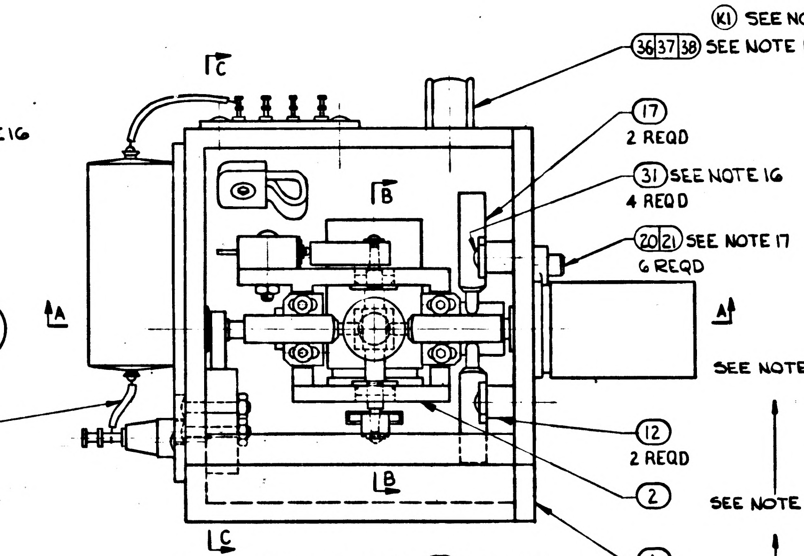

CONDUCTOR S3
CONDUCTOR S1

DETAIL A
SEE NOTE 9 (REF) (J4)

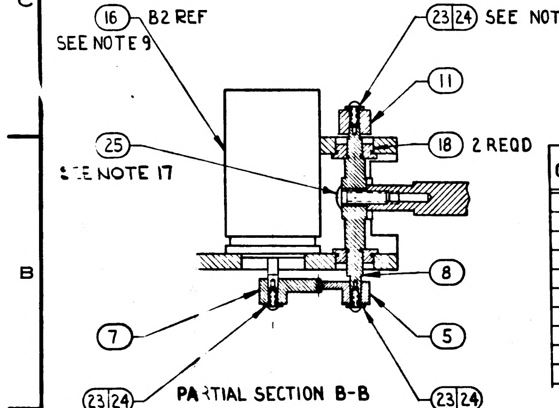

SEE NOTE 20 (J8)
(34)(37)(38) SEE NOTE 17
(19)(50) S2 REF
(26)(27) 4 REQD SEE NOTE 16
6 REQD
(19)(50) S1 REF
(13)
(15)
SEE NOTE 10
SEE NOTE 16 (28) 4 REQD

PARTIAL SECTION C-C


SEE NOTE 15
(3)
(32)
(29) 8 REQD SEE NOTE 16
(10)
(9) SEE NOTE 3
SEE NOTE 5
TB2
C2
C1
2
1
(14)
(30) 6 REQD SEE NOTE 16


C
C
B
B
A
A
(36)(37)(38) SEE NOTE 17 (J13)
(17) 2 REQD
(31) SEE NOTE 16 4 REQD
(20)(21) SEE NOTE 17 6 REQD
(40) 2 REQD
(12) 2 REQD
(2)
(1)

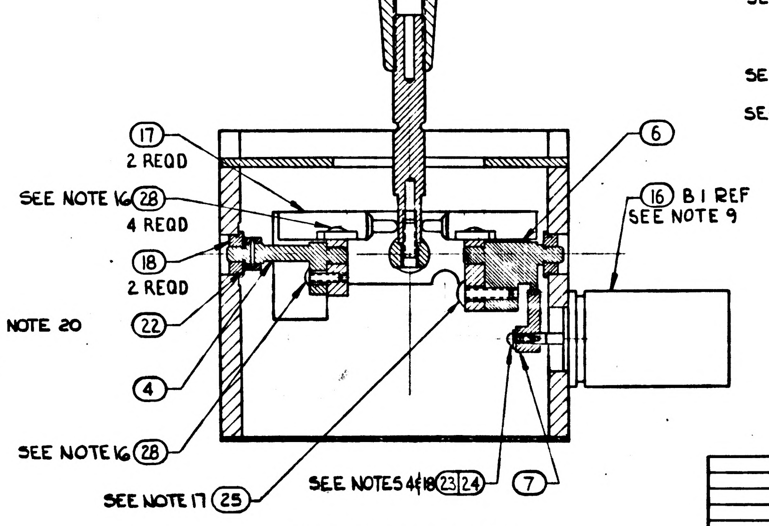
VIEW SHOWN WITH ITEM (13) REMOVED


(16) B2 REF SEE NOTE 9
(23)(24) SEE NOTES 4 & 18
(11)
(18) 2 REQD
(25) SEE NOTE 17
(8)
(7)
(5)
(23)(24) SEE NOTES 4 & 18
(23)(24) SEE NOTES 4 & 18

PARTIAL SECTION B-B

CONDUCTOR	FROM	STRIP	TIN	TO	STRIP	TIN	ITEM NO	LENGTH
B1-RED (P1)	B1-P1			TB1-2	.30	YES		8.00
B1-YEL (P2)	B1-P2			TB1-1	.30	YES		8.00
B1-BLK (P3)	B1-P3			TB1-1	.30	YES		8.00
B1-YEL (S2)	B1-S2			TB1-10	.30	YES		8.00
B1-BLU (S4)	B1-S4			TB1-8	.30	YES		8.00
B2-RED (P1)	B2-P1			TB1-3	.30	YES		5.25
B2-YEL (P2)	B2-P2			TB1-1	.30	YES		5.25
B2-BLK (P3)	B2-P3			TB1-1	.30	YES		5.25
B2-YEL (S2)	B2-S2			TB1-12	.30	YES		5.25
B2-BLU (S4)	B2-S4			TB1-4	.30	YES		5.25

(J9)
B2 rows: SEE NOTE 20 (J5)


(17) 2 REQD
(6)
SEE NOTE 16 (28) 4 REQD
(16) B1 REF SEE NOTE 9
(18) 2 REQD
(22)
(4)
SEE NOTE 16 (28)
SEE NOTE 17 (25)
SEE NOTES 4 & 18 (23)(24)
(7)

PARTIAL SECTION A-A

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E5		(E1) REPLACES REV D WITH CHANGE (E2) ADDED: 1010514, 1010618-5 (4 REQD), 1006776-11, 1000220-4, 1010316 (2 REQD), 1000220-6, 1000223 (2 REQD), 1010618-13 (2 REQD), 1006776-18, 1014540 & 1014522 (FOR REF) (E3) REMD 1000104-3 (8 REQD) (E4) 1010415-1 WAS 1010415, 1010608-1 WAS 1014508, 1010618-15 WAS 1000093-15, 1010618-6 WAS 1000093-6, 1010618-2 (11 REQD) WAS 1000093-2 (3 REQD), 1010628-1 WAS 1000104-1, 1010618-1 (6 REQD) WAS 1000093-1 (10 REQD). (E5) ADDED 1010606 (2 REQD)	TDRR 02425	25 JULY 63	WK
F7		(F1) NOTE 7 MIL-A-9067 WAS MIL-A-90676. (F2) REMD NOTE 14; TORQUE: 2.5 IN. LBS MAX (F3) NOTE 16 WAS 30 IN. LBS MAX (F4) NOTE 17 WAS 6.5 IN. LBS MAX (F5) NOTE 18 WAS 1.0 IN. LBS MAX (F6) IT. 44 WAS MIL-25457-A (F7) ADDED P/N 1010655-1 IT. 47	TDRR 03196	17 SEPT 63	WK
G6		REVISED PER TDRR NO. 03575		3 OCT 63	WK
H		REVISED PER TDRR NO. 04070		3 OCT 63	WK
J17		REVISED PER TDRR NO. 04838		3 DEC. 63	12/17
K		REVISED PER TDRR NO. 04999		16 DEC 63	12/17

(K1) SEE NOTE 2
(J10)
(J6)
SEE NOTE 19
(J2)
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19

			AR		54	MIL-M-7866	MOLYBDENUM DISULFIDE POWDER
			AR		53	1010490-082	INSULATION SLEEVING
			AR		52	MIL-T-713 TYPE P, CLASS 2	TAPE
			AR		51	QQ-S-571, SN 10	SOLDER
			2		50	1010606	INSULATOR SWITCH
			X		49	1014522	WIRING DIAGRAM
			X		48	1014540	SCHEMATIC DIAGRAM, ELEC
			AR		47	1010655-1	BLUE GLYPTAL (ES-7337-1)
			AR		46	MIL-S-40083 (ORD) CLASS 10	LIQUID LOCK (ES-2544-1)
			AR		45	MIL-S-40083 (ORD) CLASS 30	LIQUID LOCK (ES-2544-5)
			AR		44	MIL-A-25457	ADHESIVE-SILICONE RUBBER (ES-2531)
			AR		43	MIL-A-9067	EPOXY ADHESIVE (ES-2539-1)
			AR		42	MIL-F-14256 QQ-S-571	FLUX (ES-2798) FLUX-TYPE AR (ES-2175 TYPE 2)
			AR		41	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
			AR		40	1006776-18	INSULATION, SLEEVING ELEC
			1		39	1014521	WIRE LIST "AA"
			2		38	1010618-13	SCREW-BUTTON HD SELF LKG SOC HEX
			2		37	1011918-1	WASHER-CABLE CLAMP
			1		36	1000220-7	CLAMP-CABLE
			2		35	1010316	CAPACITOR, FIXED (SEE NOTE 8)
			1		34	1000220-4	CLAMP, CABLE
			AR		33	1006776-11	INSULATION, SLEEVING ELEC
			1		32	1014514	COMPONENT BOARD ASSEMBLY
			4		31	1010618-5	SCREW-BUTTON HD SELF LKG SOC HEX
			6		30	1010618-1	SCREW-BUTTON HD SELF LKG SOC HEX
			8		29	1010628-1	SCREW-FLAT HD SELF LKG SOC HEX
			11		28	1010618-2	SCREW-BUTTON HD SELF LKG SOC HEX
			4		27	MS-35649-24	NUT-HEX
			4		26	1010618-6	SCREW, BUTTON HD SELF LKG SOC HEX
			2		25	1010618-15	SCREW, BUTTON HD SELF LKG. SOC HEX
			4		24	MS-15795-701	WASHER-FLAT
			4		23	1006783-1	SCREW, BUTTON HD, SOC HEX
			1		22	1010608-1	WASHER-SPRING, CURVED
			6		21	NAS1352C04LL4	SCREW, CAP HD, SELF LKG. SOC HEX
			6		20	1010415-1	CLAMP-SYNCHRO MOUNTING
			2		19	1010435-001	SWITCH-SENSITIVE
			4		18	1010418	BUSHING-FLANGED
			4		17	1014509	SPRING PLUNGER ASSY
			2		16	1010429	SYNCHRO RESOLVER
			1		15	1014512	DIAPHRAGM-HAND CONTROLLER
			1		14	1014563	PLATE BOTTOM
			1		13	1014562	COVER ASSY, (INSEP)
			2		12	1014576	SUPPORT, PLUNGER
			1		11	1014566	ACTUATOR, SHAFT SWITCH
			1		10	1014557	SHAFT, HANDLE
			1		9	1014575	HANDLE
			1		8	1014570	SHAFT
			2		7	1014573	GEAR, SECTOR 72T FULL GEAR 96P
			1		6	1014516	GEAR, SECTOR ASS'Y.
			1		5	1014571	GEAR, SECTOR 55T FULL GEAR 96P
			1		4	1014574	SHAFT, ACTUATOR ASSEMBLY
			1		3	1014564	TERMINAL BOARD ASSEMBLY
			1		2	1014567	GIMBAL ASSEMBLY-MATCHED MACHINED
			1		1	1014559	HOUSING ASSEMBLY-MATCHED MACHINED
			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

NEXT ASSY	USED ON
1014578	1014578
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +− DECIMALS ±.005 ±.02 ANGLES +−
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN G. Murray DATE 10 JUL 63
CHECKED C. Wilson 19 Jul 63
APPROVAL E. Mertz 19 Jul 63
APPROVAL [illegible] 19 Jul 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

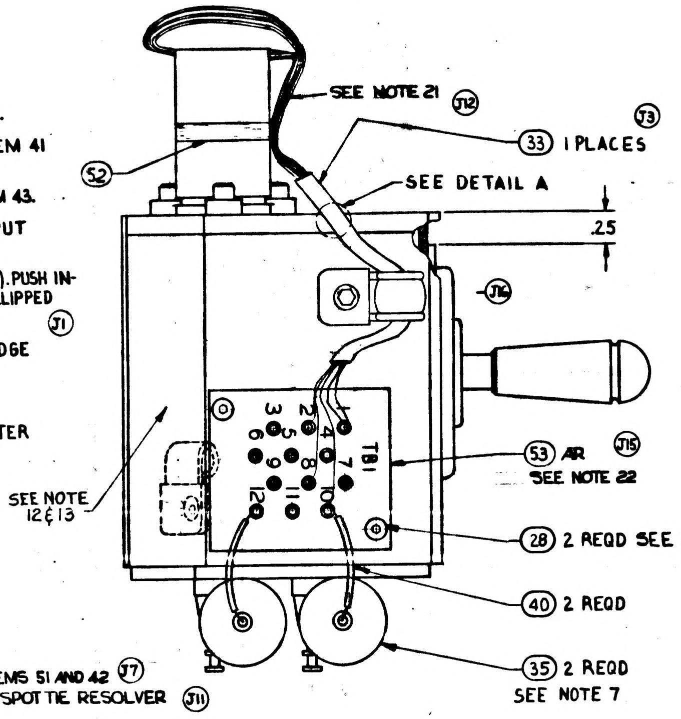
SEXTANT HAND CONTROLLER
ASSEMBLY

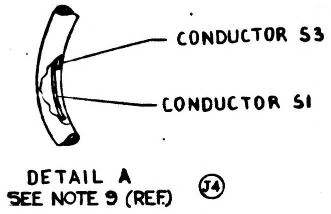
CODE IDENT NO.
SIZE E
1014558
SCALE 2:1
SHEET 1 OF 1

INCHES
PHOTOGRAPHIC SCALE ONLY

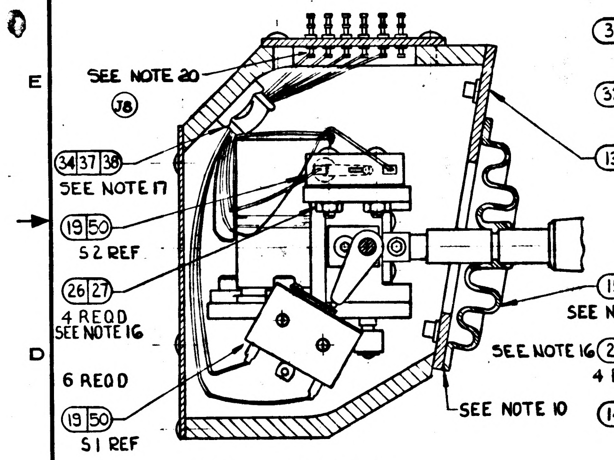
1014558

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE AND TEST PER ATP-1014558.
3. SECURE ITEM 9 USING ITEM 46.
4. SECURE ITEM 23 USING ITEM 45.
5. BOND PER MIL-A-25457 (ES-2531) USING ITEM 44.
6. SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEM 41 AND 42.
7. BOND PER MIL-A-9067 (ES-2539 TYPE I) USING ITEM 43.
8. SELECT FROM 1010316-24 THRU -27, SO THAT OUTPUT QUADRATURE VOLTAGE IS LESS THAN 300 MV.
9. CLIP CONDUCTORS S1 4.00" LONG AND S3 3.50" LONG (ITEM 16). PUSH INSULATION BACK .37" AND CLIP WIRES. PULL INSULATION OVER CLIPPED ENDS AND APPLY A DROP OF ITEM 47 TO SEVERED ENDS. (J1)
10. EDGE OF DIAPHRAGM TO BE FLUSH WITH BOTTOM EDGE OF ITEM 13.
11. INSPECT PER PS 1014558.
12. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER ND 1002019.
13. SERIALIZE PER ND 1002023.
14.
15. BONDING MATERIAL NOT TO EXCEED THIS AREA.
16. TORQUE: 3.4 TO 3.6 IN. LBS.
17. TORQUE: 6.3 TO 6.8 IN. LBS.
18. TORQUE: 0.8 TO 1.0 IN. LBS.
19. VENDOR ITEM: SEE SPECIFICATION CONTROL DWG.
20. SOLDER ALL LEADS ON UNDERSIDE OF TB1 USING ITEMS 51 AND 42 (J7)
21. SPOT TIE RESOLVER WIRES TO RESOLVER BODY AND SPOT TIE RESOLVER WIRES TOGETHER AS NECESSARY, USING ITEM 52. (J11)
22. DO NOT SHRINK UNTIL NEXT ASSEMBLY. (J14)

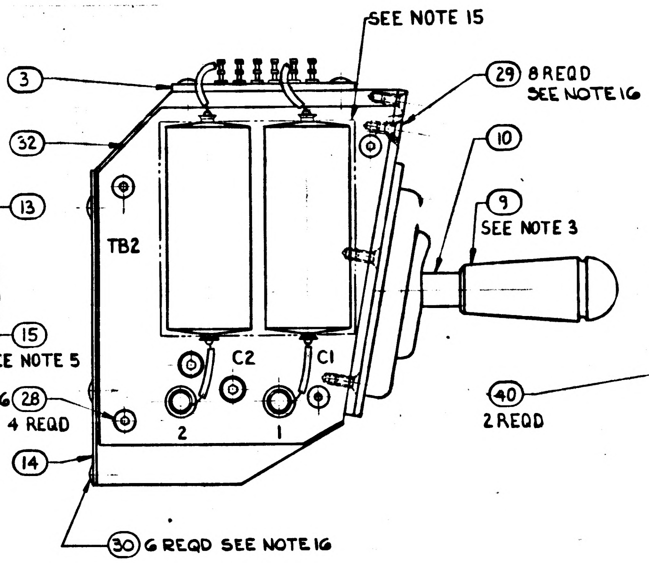

SEE NOTE 21 (J12)
(52)
(33) 1 PLACES (J3)
SEE DETAIL A
.25
(J16)
TB1
(53) AR (J15)
SEE NOTE 22
SEE NOTE 12 & 13
(28) 2 REQD SEE NOTE 16
(40) 2 REQD
(35) 2 REQD
SEE NOTE 7

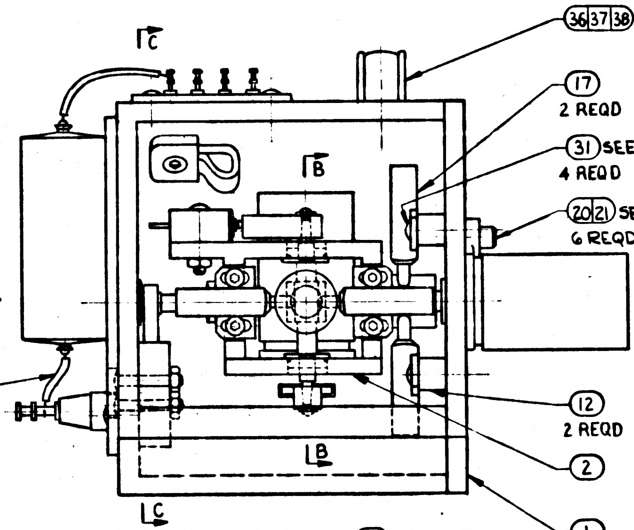

CONDUCTOR S3
CONDUCTOR S1

DETAIL A
SEE NOTE 9 (REF) (J4)

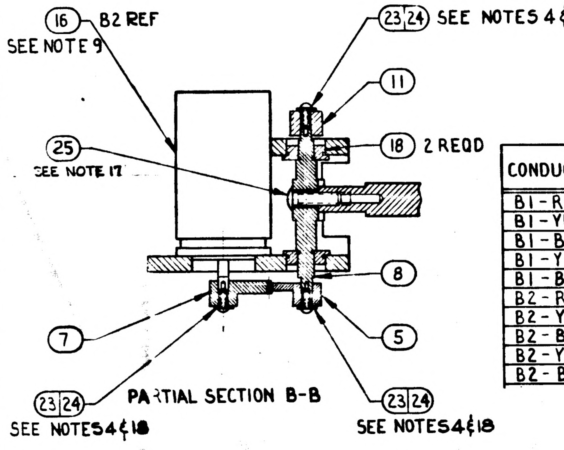

SEE NOTE 20
(J8)
(34)(37)(38)
SEE NOTE 17
(19)(50)
S2 REF
(26)(27)
4 REQD
SEE NOTE 16
6 REQD
(19)(50)
S1 REF
(13)
(15)
SEE NOTE 5
SEE NOTE 10

PARTIAL SECTION C-C


SEE NOTE 15
(3)
(32)
(29) 8 REQD
SEE NOTE 16
(10)
(9)
SEE NOTE 3
TB2
C2
C1
SEE NOTE 16 (28)
4 REQD
(14)
2
1
(40)
2 REQD
(30) 6 REQD SEE NOTE 16


C
B
A
A
(17)
2 REQD
(31) SEE NOTE 16
4 REQD
(20)(21) SEE NOTE 17
6 REQD
(12)
2 REQD
(2)
(1)
B
C

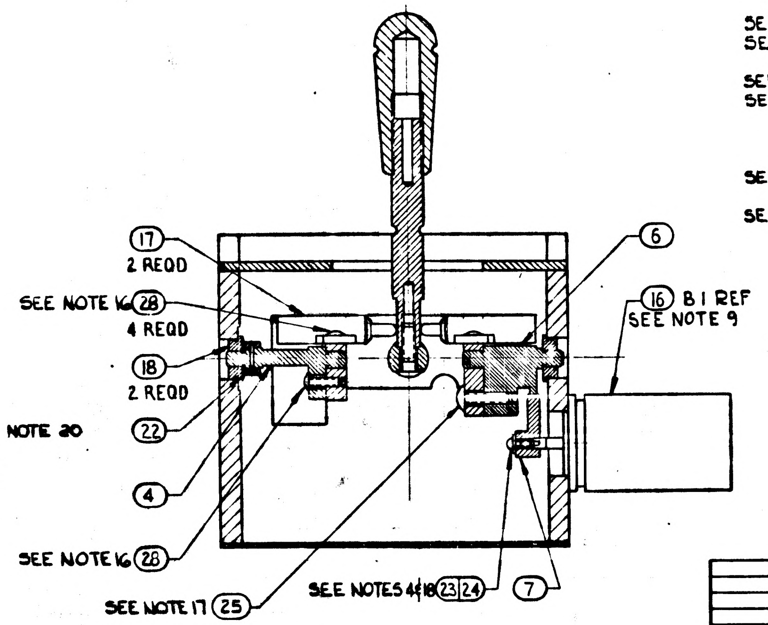
VIEW SHOWN WITH ITEM (13) REMOVED


(16) B2 REF
SEE NOTE 9
(23)(24) SEE NOTES 4 & 18
(11)
(18) 2 REQD
(25)
SEE NOTE 17
(8)
(7)
(5)
(23)(24)
SEE NOTES 4 & 18
(23)(24)
SEE NOTES 4 & 18

PARTIAL SECTION B-B

CONDUCTOR	FROM	STRIP	TIN	TO	STRIP	TIN	ITEM NO	LENGTH
B1-RED (P1)	B1-P1			TB1-2	.30	YES		8.00
B1-YEL (P2)	B1-P2			TB1-1	.30	YES		8.00
B1-BLK (P3)	B1-P3			TB1-1	.30	YES		8.00
B1-YEL (S2)	B1-S2			TB1-10	.30	YES		8.00
B1-BLU (S4)	B1-S4			TB1-8	.30	YES		8.00
B2-RED (P1)	B2-P1			TB1-3	.30	YES		5.25
B2-YEL (P2)	B2-P2			TB1-1	.30	YES		5.25
B2-BLK (P3)	B2-P3			TB1-1	.30	YES		5.25
B2-YEL (S2)	B2-S2			TB1-12	.30	YES		5.25
B2-BLU (S4)	B2-S4			TB1-4	.30	YES		5.25

(J9) SEE NOTE 20 (J5)


(6)
(17)
2 REQD
SEE NOTE 16 (28)
4 REQD
(18)
2 REQD
(22)
(4)
(16) B1 REF
SEE NOTE 9
SEE NOTE 16 (28)
SEE NOTE 17 (25)
SEE NOTES 4 & 18 (23)(24)
(7)

PARTIAL SECTION A-A

PICTORIAL VIEWS SHOWN ON SHEET 1 ARE FOR THE -011 ASSEMBLY.

L	L
SHEET 1	SHEET 2

REVISION STATUS OF SHEETS

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E5		(E1) REPLACES REV D WITH CHANGE (E2) ADDED: 1014514, 1010618-5 (4 REQD), 1006776-11, 1000220-4, 1010316 (2 REQD), 1000220-6, 1000223 (2 REQD), 1010618-13 (2 REQD), 1006776-18, 1014540 & 1014522 (FOR REF) (E3) REMD 1000104-3 (8 REQD) (E4) 1010415-1 WAS 1010415, 1010608-1 WAS 1014508, 1010618-15 WAS 1000093-15, 1010618-6 WAS 1000093-6, 1010618-2 (11 REQD) WAS 1000093-2 (8 REQD), 1010628-1 WAS 1000104-1, 1010618-1 (6 REQD) WAS 1000093-1 (10 REQD). (E5) ADDED 1010606 (2 REQD)	TDRR 02425	25 JULY 63	WK.
F7		(F1) NOTE 7 MIL-A-9067 WAS MIL-A-90676. (F2) REMD NOTE 14; TORQUE: 2.5 IN. LBS MAX (F3) NOTE 16 WAS 30 IN. LBS MAX (F4) NOTE 17 WAS 6.5 IN. LBS MAX (F5) NOTE 18 WAS 1.0 IN. LBS MAX (F6) IT. 44 WAS MIL-25457-A (F7) ADDED P/N 1010655-1 IT. 47	TDRR 03196	17 SEPT 63	WK
G6		REVISED PER TDRR NO. 03575		3 OCT 63	WK
H		REVISED PER TDRR NO. 04070		3 OCT 63	WK
J17		REVISED PER TDRR NO. 04838		3 DEC. 63	WK
K		REVISED PER TDRR NO. 04999		6 DEC 63	WK
L7		REVISED PER TDRR NO. 05719		23 JAN 64	WK

			021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			1	-		59	1014535	GEAR SECTOR 55T (FULL GEAR) 96P
			1	-		58	1014536	SHAFT, HANDLE
			4	-		57	1014509-021	SPRING PLUNGER ASSEMBLY
			1	-		56	1014533	CAM, SECTOR
SEE NOTE 19			1	-		55	1010617-4	NUT-HEX SELF LOCKING
(K1) SEE NOTE 2			AR	AR		54	MIL-M-7866	MOLYBDENUM DISULFIDE POWDER
(36)(37)(38) SEE NOTE 17 (J13)			AR	AR		53	1010490-082	INSULATION SLEEVING
(J10)			AR	AR		52	MIL-T-713 TYPE P, CLASS 2	TAPE
(J6)			AR	AR		51	QQ-S-571, SN 10	SOLDER
			2	2		50	1010606	INSULATOR SWITCH
			X	X		49	1014522	WIRING DIAGRAM
			X	X		48	1014540	SCHEMATIC DIAGRAM, ELEC
			AR	AR		47	1010655-1	BLUE GLYPTAL (ES-7337-1)
			AR	AR		46	MIL-S-40083 (ORD) CLASS 10	LIQUID LOCK (ES-2544-1)
			AR	AR		45	MIL-S-40083 (ORD) CLASS 30	LIQUID LOCK (ES-2544-5)
			AR	AR		44	MIL-A-25457	ADHESIVE-SILICONE RUBBER (ES-2531)
			AR	AR		43	MIL-A-9067	EPOXY ADHESIVE (ES-2539-1)
			AR	AR		42	MIL-F-14256 QQ-S-571	FLUX (ES-2798) FLUX - TYPE AR (ES-2175 TYPE 2)
			AR	AR		41	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
SEE NOTE 19			AR	AR		40	1006776-18	INSULATION, SLEEVING ELEC
			1	1		39	1014521	WIRE LIST "AA"
			2	2		38	1010618-13	SCREW-BUTTON HD SELF LKG SOC HEX
			2	2		37	1011918-1	WASHER-CABLE CLAMP
(J2)			1	1		36	1000220-7	CLAMP-CABLE
			2	2		35	1010316	CAPACITOR, FIXED (SEE NOTE 8)
			1	1		34	1000220-4	CLAMP, CABLE
SEE NOTE 19			AR	AR		33	1006776-11	INSULATION, SLEEVING ELEC
			1	1		32	1014514-011	COMPONENT BOARD ASSEMBLY
			4	4		31	1010618-5	SCREW-BUTTON HD SELF LKG SOC HEX
			6	6		30	1010618-1	SCREW-BUTTON HD SELF LKG SOC HEX
			8	8		29	1010628-1	SCREW-FLAT HD SELF LKG SOC HEX
SEE NOTE 19			11	11		28	1010618-2	SCREW-BUTTON HD SELF LKG SOC HEX
			4	4		27	MS-35649-24	NUT-HEX
SEE NOTE 19			4	4		26	1010618-6	SCREW, BUTTON HD SELF LKG SOC HEX
SEE NOTE 19			1	2		25	1010618-15	SCREW, BUTTON HD SELF LKG. SOC HEX
			4	4		24	MS-15795-701	WASHER-FLAT
SEE NOTE 19			1	4		23	1006783-1	SCREW, BUTTON HD, SOC HEX
SEE NOTE 19			1	1		22	1010608-1	WASHER-SPRING, CURVED
			6	6		21	NAS1352C04LL4	SCREW, CAP HD, SELF LKG. SOC HEX
			6	6		20	1010415-1	CLAMP-SYNCHRO MOUNTING
			2	2		19	1010435-001	SWITCH-SENSITIVE
SEE NOTE 19			4	4		18	1010418	BUSHING-FLANGED
			-	4		17	1014509-011	SPRING PLUNGER ASSY
SEE NOTE 19			2	2		16	1010429	SYNCHRO RESOLVER
			1	1		15	1014512	DIAPHRAGM-HAND CONTROLLER
			1	1		14	1014563	PLATE BOTTOM
			1	1		13	1014562	COVER ASSY (INSEP)
			2	2		12	1014576	SUPPORT, PLUNGER
			1	1		11	1014566	ACTUATOR, SHAFT SWITCH
			-	1		10	1014557	SHAFT, HANDLE
			1	1		9	1014575	HANDLE
			1	1		8	1014570	SHAFT
			2	2		7	1014573	GEAR, SECTOR 72T FULL GEAR 96P
			-	1		6	1014516	GEAR, SECTOR ASS'Y
			1	1		5	1014571	GEAR, SECTOR 55T FULL GEAR 96P
			1	1		4	1014574	SHAFT, ACTUATOR ASSEMBLY
			1	1		3	1014564	TERMINAL BOARD ASSEMBLY
			1	1		2	1014567	GIMBAL ASSEMBLY-MATCHED MACHINED
			1	1		1	1014559	HOUSING ASSEMBLY-MATCHED MACHINED

QUANTITY REQUIRED

LIST OF PARTS AND MATERIALS

1014578	1014578
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ −	±.005	+ −
− −	±.02	− −

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN G. Murray DATE 10 JUL 63
CHECKED C. Wilson 19 Jul 63
APPROVAL E. Mertz 19 Jul 63
APPROVAL 19 July 63
NASA APPROVAL
MIT APPROVAL 63

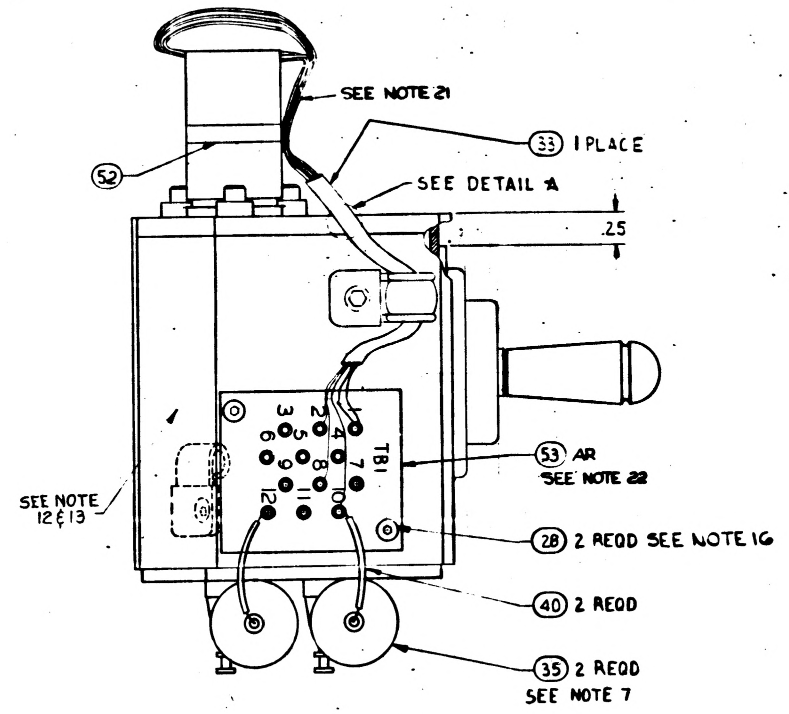
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

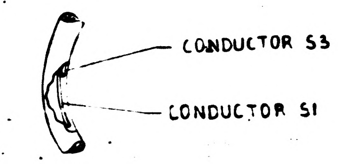
SEXTANT HAND CONTROLLER
ASSEMBLY

CODE IDENT NO.
SIZE E
1014558
SCALE 2:1
SHEET 1 OF 2

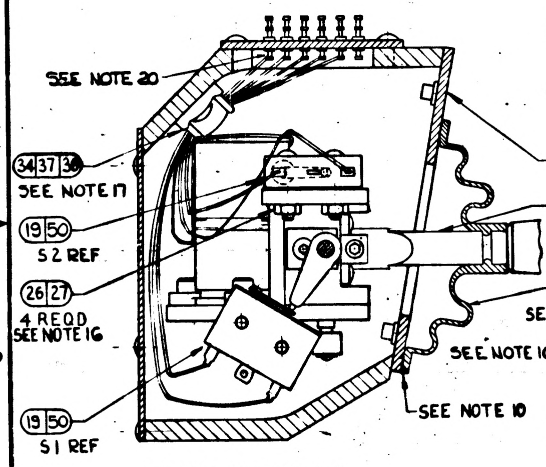
L
1014558
B

REVISIONS TDRR 057 10				
SYM	ZONE	DESCRIPTION	DATE	APPD
L		ADDED SHEET 2 THIS REV CHG NO		

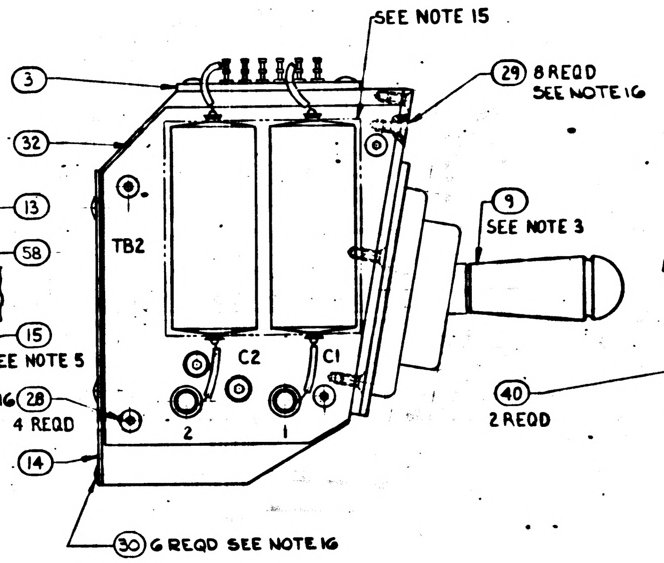

SEE NOTE 21
33 1 PLACE
52
SEE DETAIL A
.25
3 2 1 4 5 6 7 8 9 10 11 12
TB1
53 AR SEE NOTE 22
SEE NOTE 12 & 13
28 2 REQD SEE NOTE 16
40 2 REQD
35 2 REQD SEE NOTE 7

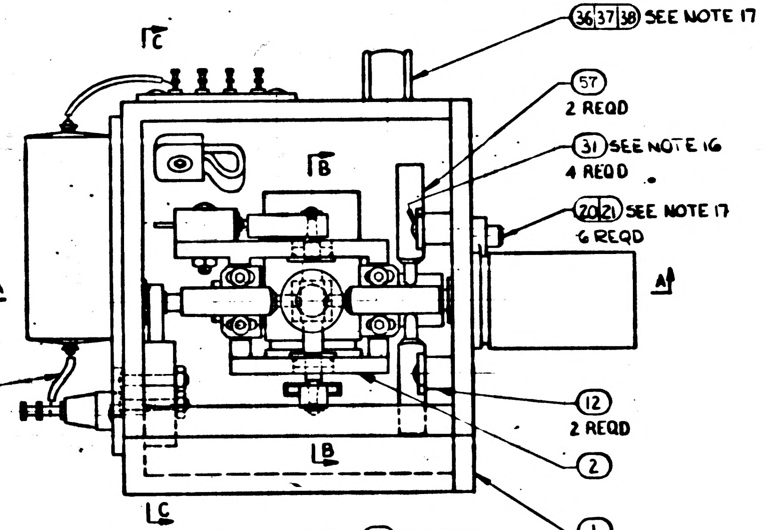

CONDUCTOR S3
CONDUCTOR S1

DETAIL A
SEE NOTE 9 (REF)

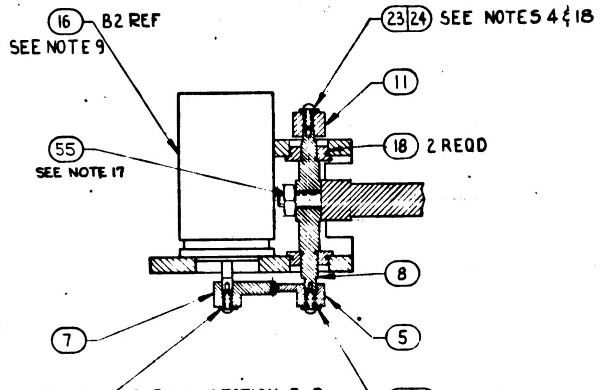

SEE NOTE 20
34 37 38 SEE NOTE 17
19 50 S2 REF
26 27 4 REQD SEE NOTE 16
19 50 S1 REF
13
58
15
SEE NOTE 10

PARTIAL SECTION C-C

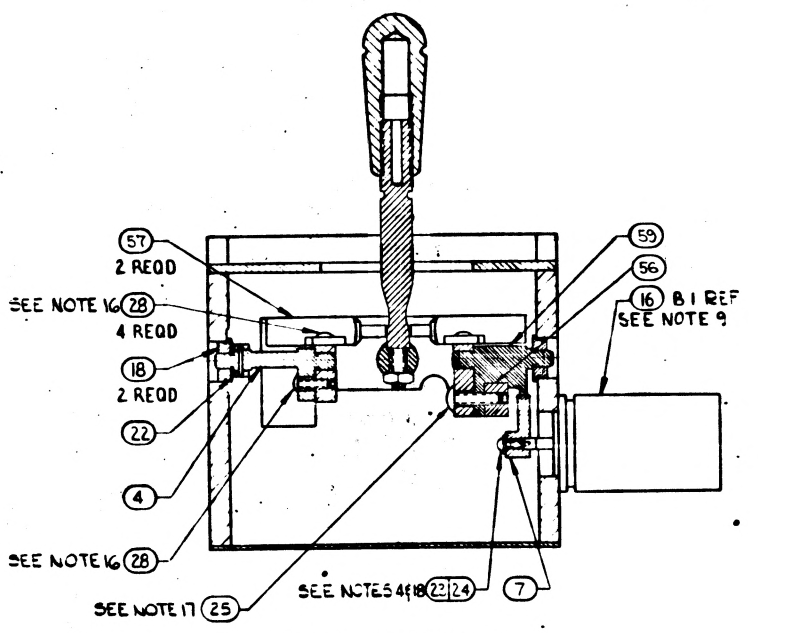

SEE NOTE 15
3
32
29 8 REQD SEE NOTE 16
9 SEE NOTE 3
TB2
C2
C1
SEE NOTE 5
SEE NOTE 16 28 4 REQD
2
1
14
30 6 REQD SEE NOTE 16


C
36 37 38 SEE NOTE 17
57 2 REQD
B
31 SEE NOTE 16 4 REQD
20 21 SEE NOTE 17 6 REQD
A
A
40 2 REQD
12 2 REQD
2
B
C
1

VIEW SHOWN WITH ITEM ⑬ REMOVED


16 B2 REF SEE NOTE 9
23 24 SEE NOTES 4 & 18
11
18 2 REQD
55 SEE NOTE 17
8
7
5
23 24 SEE NOTES 4 & 18
23 24 SEE NOTES 4 & 18

PARTIAL SECTION B-B


57 2 REQD
SEE NOTE 16 28 4 REQD
18 2 REQD
22
4
SEE NOTE 16 28
SEE NOTE 17 25
SEE NOTES 4 & 18 23 24
7
59
56
16 B1 REF SEE NOTE 9

PARTIAL SECTION A-A

PICTORIAL VIEWS SHOWN ON SHEET 2 ARE FOR THE -021 ASSEMBLY

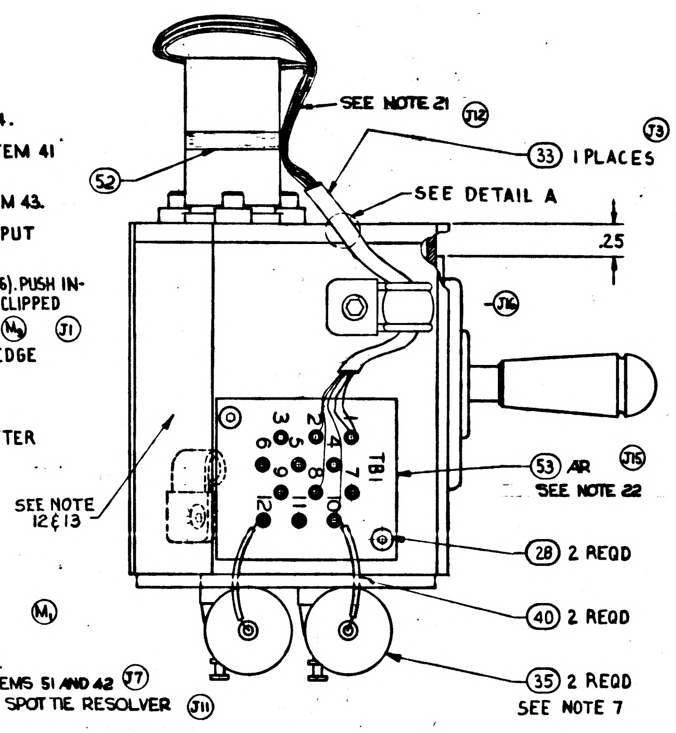
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC SPARK PLUG DIVISION. GMC MILWAUKEE WISCONSIN	MANNED SPACECRAFT CENTER
2 PLACE DECIMALS ± —//— 3 PLACE DECIMALS ± —//— ANGLES ± —//—	ACSP PN DRAWN DeZenzo DATE 1/20/64 CHECKED 1-20-64 APPROVAL 1/20/64 APPROVAL	SEXTANT HAND CONTROLLER ASSEMBLY
DO NOT SCALE THIS DRAWING MATERIAL —//—	NASA APPROVAL	CODE IDENT NO / SIZE E / 1014558
CONTRACT NAS 9-497	MIT APPROVAL	SCALE 2:1 / —//— / SHEET 2 OF 2

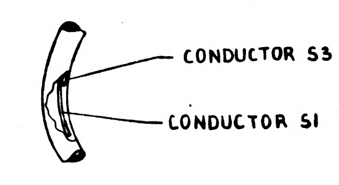
1014558L

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE AND TEST PER ATP-1014558.
3. SECURE ITEM 9 USING ITEM 46.
4. SECURE ITEM 23 USING ITEM 45.
5. BOND PER MIL-A-25457 (ES-2531) USING ITEM 44.
6. SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEM 41 AND 42.
7. BOND PER MIL-A-9067 (ES-2539 TYPE I) USING ITEM 43.
8. SELECT FROM 1010316-24 THRU -27, SO THAT OUTPUT QUADRATURE VOLTAGE IS LESS THAN 300 MV.
9. CLIP CONDUCTORS S1 4.00" LONG AND S3 3.50" LONG (ITEM 16). PUSH INSULATION BACK .37" AND CLIP WIRES. PULL INSULATION OVER CLIPPED ENDS. (M9) (J1)
10. EDGE OF DIAPHRAGM TO BE FLUSH WITH BOTTOM EDGE OF ITEM 13.
11. INSPECT PER PS 1014558.
12. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER ND 1002019.
13. SERIALIZE PER ND 1002023.
14.
15. BONDING MATERIAL NOT TO EXCEED THIS AREA.
16.
17.
18.
19. VENDOR ITEM: SEE SPECIFICATION CONTROL DWG.
20. SOLDER ALL LEADS ON UNDERSIDE OF TB1 USING ITEMS 51 AND 42 (J7)
21. SPOT TIE RESOLVER WIRES TO RESOLVER BODY, AND SPOT TIE RESOLVER WIRES TOGETHER AS NECESSARY, USING ITEM 52. (J11)
22. DO NOT SHRINK UNTIL NEXT ASSEMBLY. (J14)

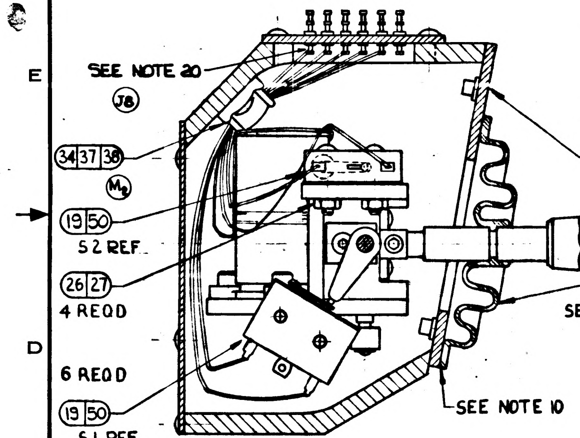
REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E5		(E1) REPLACES REV D WITH CHANGE (E2) ADDED: 10104514, 1010618-5 (4 REQD), 1006776-11, 1000220-4, 1010316 (2 REQD), 1000220-6, 1000223 (2 REQD) 1010618-13 (2 REQD), 1006776-18, 1014540 & 1014522 (FOR REF) (E3) REMD 1000104-3 (8 REQD) (E4) 1010415-1 WAS 1010415, 1010608-1 WAS 1014508, 1010618-15 WAS 1000093-15, 1010618-6 WAS 1000093-6, 1010618-2 (11 REQD) WAS 1000093-2 (8 REQD), 1010628-1 WAS 1000104-1, 1010618-1 (6 REQD) WAS 1000093-1 (10 REQD). (E5) ADDED 1010606 (2 REQD)	TDRR 02425	25 JULY 63	
F7		(F1) NOTE 7 MIL-A-9067 WAS MIL-A-90676. (F2) REMD NOTE 14; TORQUE: 2.5 IN. LBS MAX (F3) NOTE 16 WAS 30 IN. LBS MAX (F4) NOTE 17 WAS 6.5 IN. LBS MAX (F5) NOTE 18 WAS 1.0 IN. LBS MAX (F6) IT. 44 WAS MIL-25457-A (F7) ADDED P/N 1010655-1 IT. 47	TDRR 03196	17 SEPT 63	
G6		REVISED PER TDRR NO. 03575		3 OCT 63	
H		REVISED PER TDRR NO. 04070		3 OCT 63	
J17		REVISED PER TDRR NO. 04838		3 DEC 63	
K		REVISED PER TDRR NO. 04999		16 DEC 63	
L7		REVISED PER TDRR NO. 05719		23 JAN 64	
M9		REVISED PER TDRR NO. 06366		25 FEB 64	

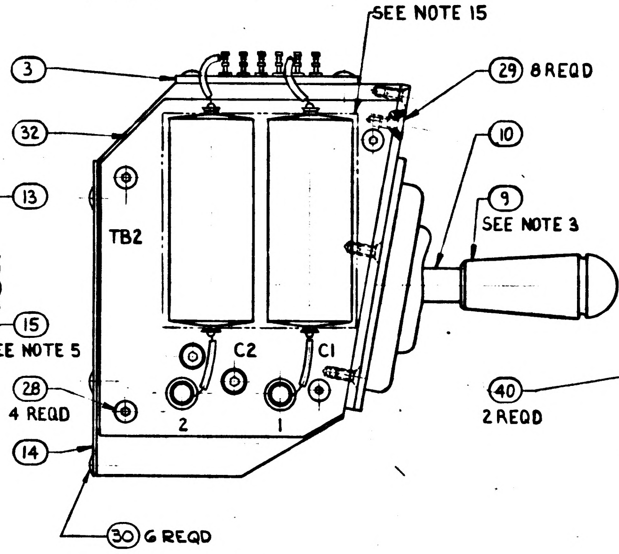


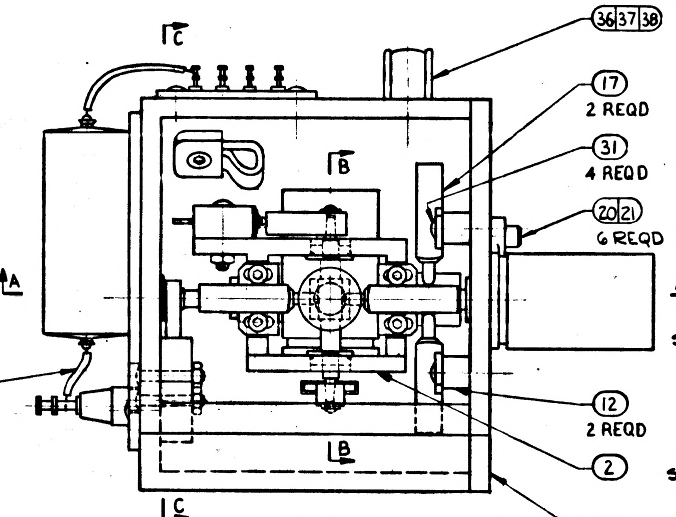


DETAIL A
SEE NOTE 9 (REF) (J4)



PARTIAL SECTION C-C





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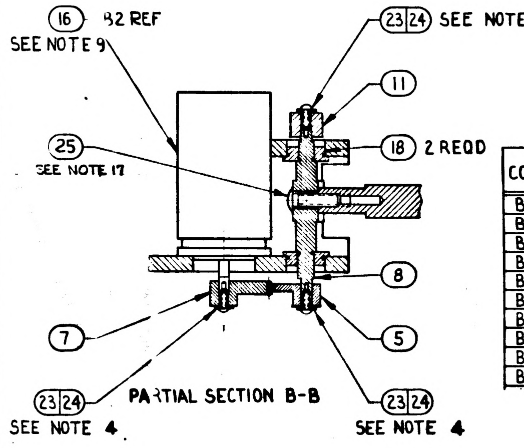
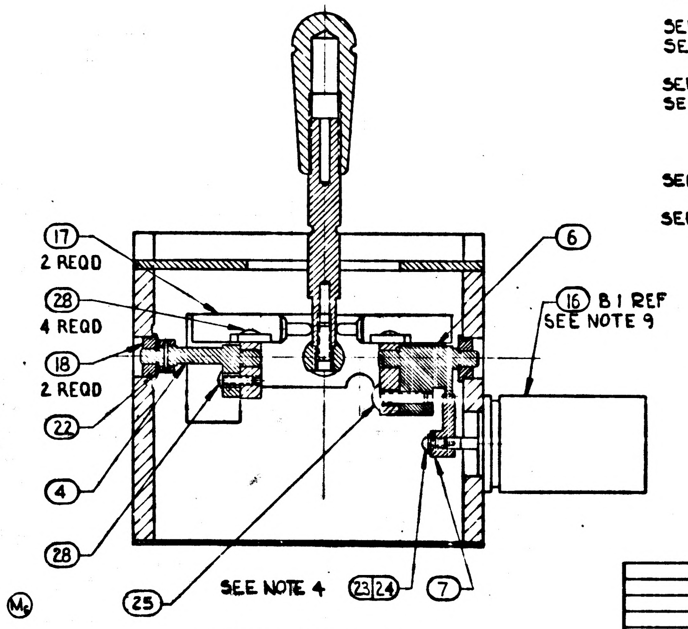


PARTIAL SECTION B-B

CONDUCTOR	FROM	STRIP	TIN	TO	STRIP	TIN	ITEM NO	LENGTH
B1-RED (P1)	B1-P1			TB1-2	.30	YES		8.00
B1-YEL (P2)	B1-P2			TB1-1	.30	YES		8.00
B1-BLK (P3)	B1-P3			TB1-1	.30	YES		8.00
B1-YEL (S2)	B1-S2			TB1-10	.30	YES		8.00
B1-BLU (S4)	B1-S4			TB1-8	.30	YES		8.00
B2-RED (P1)	B2-P1			TB1-3	.30	YES		5.25
B2-YEL (P2)	B2-P2			TB1-1	.30	YES		5.25
B2-BLK (P3)	B2-P3			TB1-1	.30	YES		5.25
B2-YEL (S2)	B2-S2			TB1-12	.30	YES		5.25
B2-BLU (S4)	B2-S4			TB1-4	.30	YES		5.25

(J9) SEE NOTE 20 (J5)



PARTIAL SECTION A-A

PICTORIAL VIEWS SHOWN ON SHEET 1 ARE FOR THE -011 ASSEMBLY.

M	M
SHEET 1	SHEET 2
REVISION STATUS OF SHEETS	

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			021	011				
			1	–		59	1014535	GEAR SECTOR 55T (FULL GEAR) 96P
			1	–		58	1014536	SHAFT, HANDLE
			4	–		57	1014509-021	SPRING PLUNGER ASSEMBLY
			1	–		56	1014533	CAM, SECTOR
SEE NOTE 19			1	–		55	1010617-4	NUT-HEX SELF LOCKING
(K1) SEE NOTE 2			AR	AR		54	MIL-M-7866	MOLYBDENUM DISULFIDE POWDER
(J13)			AR	AR		53	1010490-082	INSULATION SLEEVING
(J10)			AR	AR		52	MIL-T-713 TYPE P, CLASS 2	TAPE
(J6)			AR	AR		51	QQ-S-571, SN 10	SOLDER
			2	2		50	1010606	INSULATOR SWITCH
			X	X		49	1014522	WIRING DIAGRAM
			X	X		48	1014540	SCHEMATIC DIAGRAM, ELEC
			AR	AR		46	MIL-S-40083 (ORD) CLASS 10	LIQUID LOCK (ES-2544-1)
			AR	AR		45	MIL-S-40083 (ORD) CLASS 30	LIQUID LOCK (ES-2544-5)
			AR	AR		44	MIL-A-25457	ADHESIVE-SILICONE RUBBER (ES-2531)
			AR	AR		43	MIL-A-9067	EPOXY ADHESIVE (ES-2539-1)
			AR	AR		42	MIL-F-14256 QQ-S-571	FLUX (ES-2798) FLUX-TYPE AR (ES-2175 TYPE 2)
			AR	AR		41	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
SEE NOTE 19			AR	AR		40	1006776-18	INSULATION, SLEEVING ELEC
			1	1		39	1014521	WIRE LIST "AA"
			2	2		38	1010618-13	SCREW-BUTTON HD SELF LKG SOC HEX
			2	2		37	1011918-1	WASHER-CABLE CLAMP
			1	1		36	1000220-7	CLAMP-CABLE
			2	2		35	1010316	CAPACITOR, FIXED (SEE NOTE 8)
			1	1		34	1000220-4	CLAMP, CABLE
SEE NOTE 19			AR	AR		33	1006776-11	INSULATION, SLEEVING ELEC
			1	1		32	1014514-011	COMPONENT BOARD ASSEMBLY
			4	4		31	1010618-5	SCREW-BUTTON HD SELF LKG SOC HEX
			6	6		30	1010618-1	SCREW-BUTTON HD SELF LKG SOC HEX
			8	8		29	1010628-1	SCREW-FLAT HD SELF LKG SOC HEX
SEE NOTE 19			11	11		28	1010618-2	SCREW-BUTTON HD SELF LKG SOC HEX
			4	4		27	MS-35649-24	NUT-HEX
SEE NOTE 19			4	4		26	1010618-6	SCREW, BUTTON HD SELF LKG SOC HEX
SEE NOTE 19			1	2		25	1010618-15	SCREW, BUTTON HD SELF LKG. SOC HEX
			4	4		24	MS-15795-701	WASHER-FLAT
SEE NOTE 19			1	4		23	1006783-1	SCREW, BUTTON HD, SOC HEX
SEE NOTE 19			1	1		22	1010608-1	WASHER-SPRING, CURVED
			6	6		21	NAS1352C04LL4	SCREW, CAP HD, SELF LKG. SOC HEX
			6	6		20	1010415-1	CLAMP-SYNCHRO MOUNTING
			2	2		19	1010435-001	SWITCH-SENSITIVE
SEE NOTE 19			4	4		18	1010418	BUSHING-FLANGED
			–	4		17	1014509-011	SPRING PLUNGER ASSY
SEE NOTE 19			2	2		16	1010429	SYNCHRO RESOLVER
			1	1		15	1014512	DIAPHRAGM-HAND CONTROLLER
			1	1		14	1014563	PLATE BOTTOM
			1	1		13	1014562	COVER ASSY, (INSEP)
			2	2		12	1014576	SUPPORT, PLUNGER
			1	1		11	1014566	ACTUATOR, SHAFT SWITCH
			–	1		10	1014557	SHAFT, HANDLE
			1	1		9	1014575	HANDLE
			1	1		8	1014570	SHAFT
			2	2		7	1014573	GEAR, SECTOR 72T FULL GEAR 96P
			–	1		6	1014516	GEAR, SECTOR ASS'Y
			1	1		5	1014571	GEAR, SECTOR 55T FULL GEAR 96P
			1	1		4	1014574	SHAFT, ACTUATOR ASSEMBLY
			1	1		3	1014564	TERMINAL BOARD ASSEMBLY
			1	1		2	1014567	GIMBAL ASSEMBLY-MATCHED MACHINED
			1	1		1	1014559	HOUSING ASSEMBLY-MATCHED MACHINED

NEXT ASSY	USED ON
1014578	1014578
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
± –	±.005	± –
– –	±.02	– –

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN G. Murray DATE 10 JUL 63
CHECKED C. Wilson 19 Jul 63
APPROVAL E. Mertz 19 Jul 63
APPROVAL 19 July 63
NASA APPROVAL
MIT APPROVAL

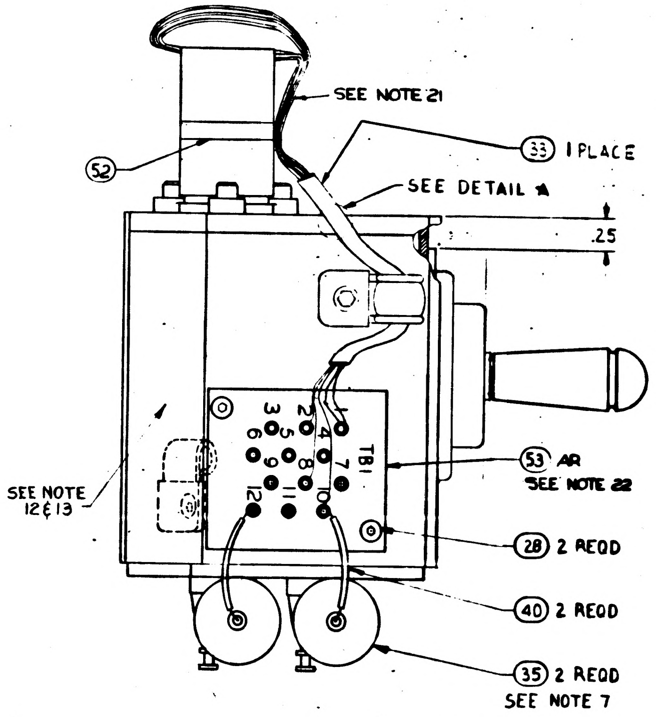
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

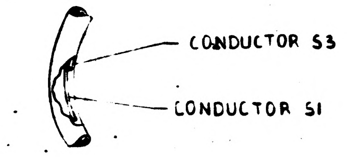
SEXTANT HAND CONTROLLER ASSEMBLY

CODE IDENT NO.
SIZE E
1014558
SCALE 2:1
SHEET 1 OF 2

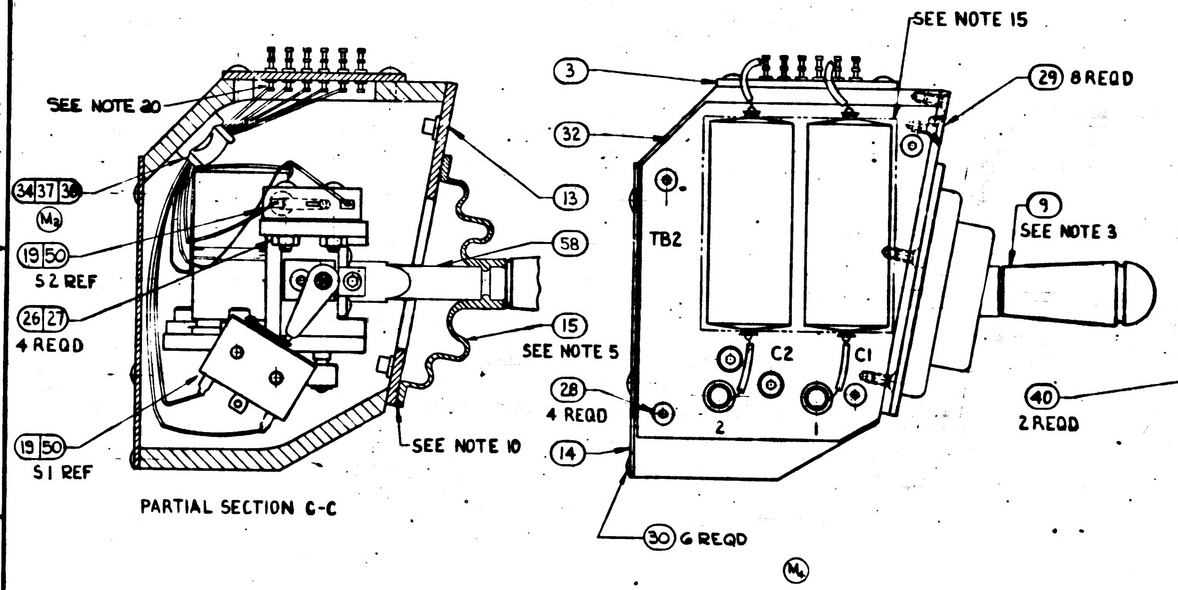
INCHES
PHOTOGRAPHIC SCALE ONLY

		REVISIONS			
SYM	ZONE	DESCRIPTION		DATE	APPD
L		ADDED SHEET 2 THIS REV	CHG NO		
M9		REVISED PER TDRR NO. 06366		25 FEB 64	W.C.

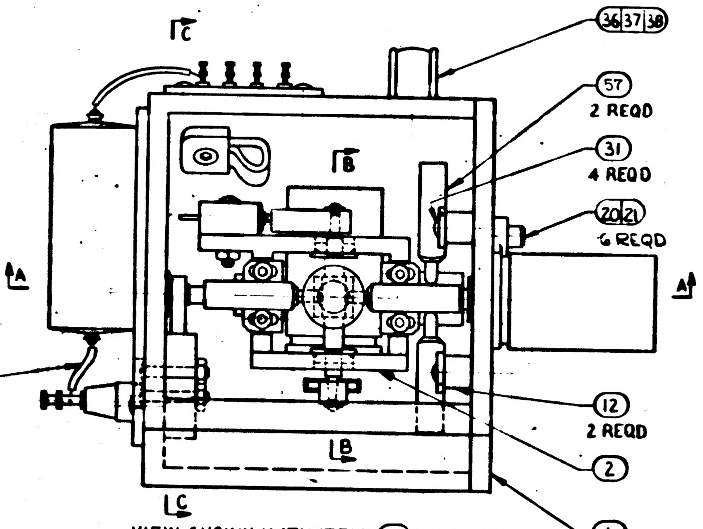

SEE NOTE 21
(52)
(33) 1 PLACE
SEE DETAIL A
.25
TB1
1 2 3 4 5 6 7 8 9 10 11 12
(53) AR
SEE NOTE 22
SEE NOTE 12 & 13
(28) 2 REQD
(40) 2 REQD
(35) 2 REQD
SEE NOTE 7


CONDUCTOR S3
CONDUCTOR S1

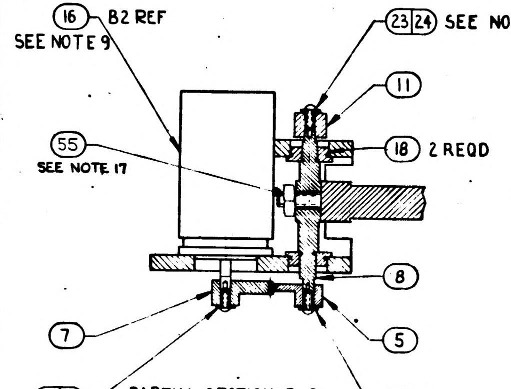
DETAIL A
SEE NOTE 9 (REF)


SEE NOTE 20
(34)(37)(38)
(19)(50)
S2 REF
(26)(27)
4 REQD
(19)(50)
S1 REF
(13)
(58)
(15)
SEE NOTE 5
SEE NOTE 10
SEE NOTE 15
(3)
(32)
(29) 8 REQD
(9)
SEE NOTE 3
TB2
C2
C1
2
1
(28)
4 REQD
(14)
(30) 6 REQD
(40)
2 REQD

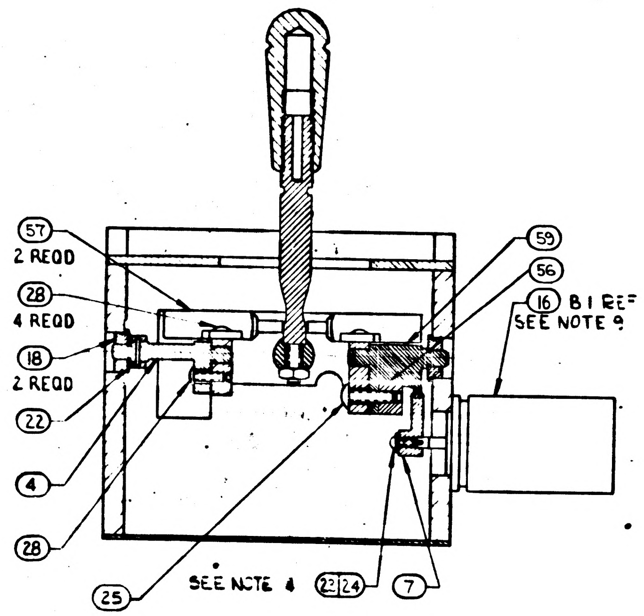
PARTIAL SECTION C-C


C
(36)(37)(38)
(57)
2 REQD
(31)
4 REQD
B
(20)(21)
6 REQD
A
A
(12)
2 REQD
(2)
B
C
(1)

VIEW SHOWN WITH ITEM (13) REMOVED


(16) B2 REF
SEE NOTE 9
(23)(24) SEE NOTE 4
(11)
(55)
SEE NOTE 17
(18) 2 REQD
(8)
(7)
(5)
(23)(24)
SEE NOTE 4
(23)(24)
SEE NOTE 4

PARTIAL SECTION B-B

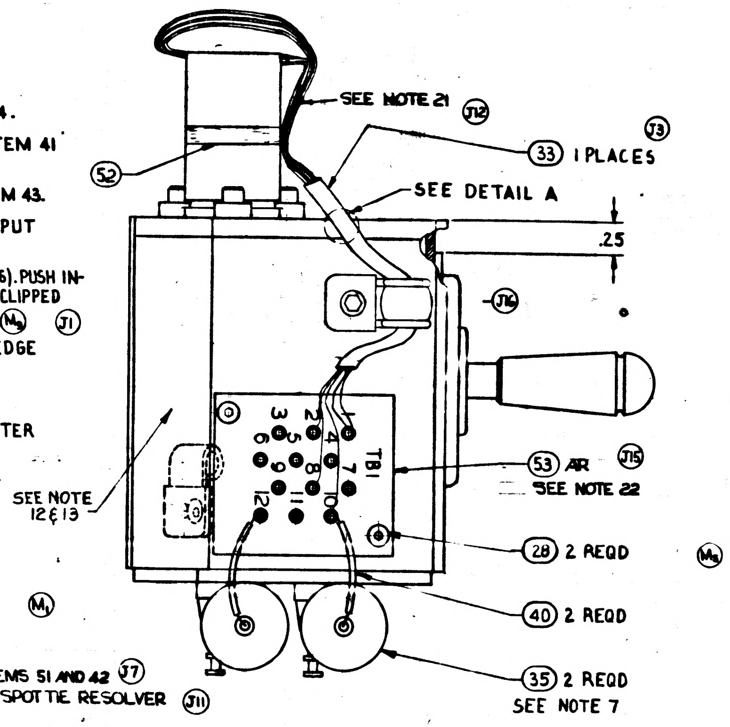

(57)
2 REQD
(28)
4 REQD
(18)
2 REQD
(22)
(4)
(28)
(25)
SEE NOTE 4
(23)(24)
(7)
(59)
(56)
(16) B1 REF
SEE NOTE 9

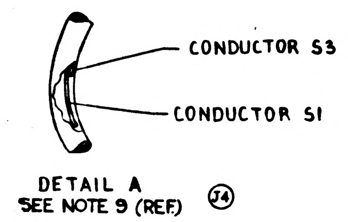
PARTIAL SECTION A-A

PICTORIAL VIEWS SHOWN ON SHEET 2 ARE FOR THE -021 ASSEMBLY

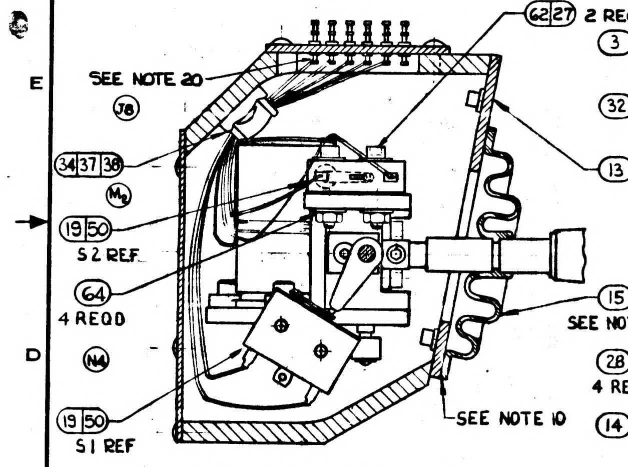
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ± — 3 PLACE DECIMALS ± — ANGLES ± —	AC SPARK PLUG DIVISION, GMC MILWAUKEE WISCONSIN	MANNED SPACECRAFT CENTER
DO NOT SCALE THIS DRAWING	ACSP PN	
MATERIAL —	DRAWN DeZenzo DATE 1/20/64 CHECKED 1-20-64 APPROVAL APPROVAL	SEXTANT HAND CONTROLLER ASSEMBLY
CONTRACT NAS 9-497	NASA APPROVAL MIT APPROVAL	CODE IDENT NO — SIZE E — 1014558
		SCALE 2:1 — SHEET 2 OF 2

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE AND TEST PER ATP-1014558.
3. SECURE ITEM 9 USING ITEM 46.
4. SECURE ITEM 23 USING ITEM 45.
5. BOND PER MIL-A-25457 (ES-2531) USING ITEM 44.
6. SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEM 41 AND 42.
7. BOND PER MIL-A-9067 (ES-2539 TYPE I) USING ITEM 43.
8. SELECT FROM 1010316-24 THRU -27, SO THAT OUTPUT QUADRATURE VOLTAGE IS LESS THAN 300 MV.
9. CLIP CONDUCTORS S1 4.00" LONG AND S3 3.50" LONG (ITEM 16). PUSH INSULATION BACK .37" AND CLIP WIRES. PULL INSULATION OVER CLIPPED ENDS. (M9) (J1)
10. EDGE OF DIAPHRAGM TO BE FLUSH WITH BOTTOM EDGE OF ITEM 13.
11. INSPECT PER PS 1014558.
12. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER ND 1002019.
13. SERIALIZE PER ND 1002023.
14.
15. BONDING MATERIAL NOT TO EXCEED THIS AREA.
16.
17.
18.
19. VENDOR ITEM: SEE SPECIFICATION CONTROL DWG.
20. SOLDER ALL LEADS ON UNDERSIDE OF TB1 USING ITEMS 51 AND 42 (J7)
21. SPOT TIE RESOLVER WIRES TO RESOLVER BODY AND SPOT TIE RESOLVER WIRES TOGETHER AS NECESSARY, USING ITEM 52. (J11)
22. DO NOT SHRINK UNTIL NEXT ASSEMBLY. (J14)

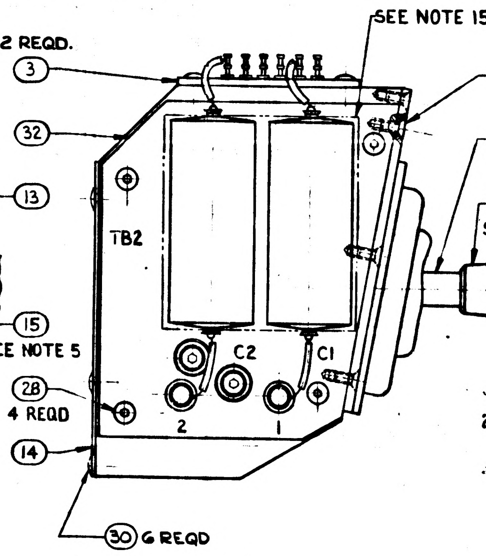


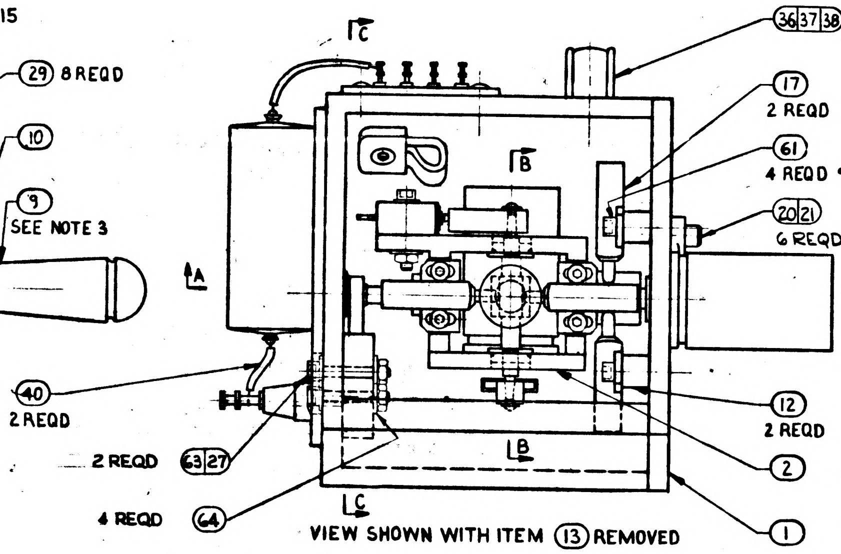


DETAIL A
SEE NOTE 9 (REF) (J4)



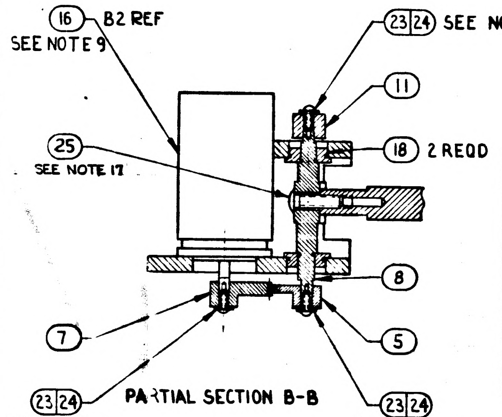
PARTIAL SECTION C-C (N5)





VIEW SHOWN WITH ITEM (13) REMOVED

(N5)

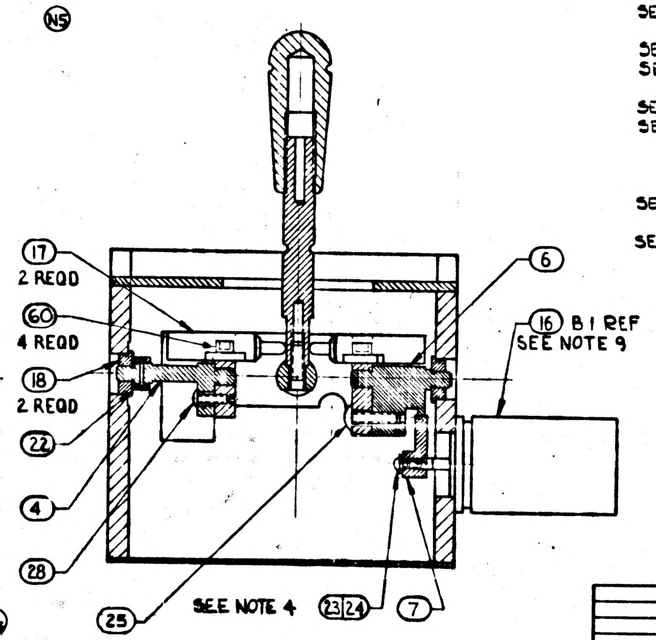


PARTIAL SECTION B-B

CONDUCTOR	FROM	STRIP	TIN	TO	STRIP	TIN	ITEM NO	LENGTH
B1-RED (P1)	B1-P1			TB1-2	.30	YES		8.00
B1-YEL (P2)	B1-P2			TB1-1	.30	YES		8.00
B1-BLK (P3)	B1-P3			TB1-1	.30	YES		8.00
B1-YEL (S2)	B1-S2			TB1-10	.30	YES		8.00
B1-BLU (S4)	B1-S4			TB1-8	.30	YES		8.00
B2-RED (P1)	B2-P1			TB1-3	.30	YES		5.25
B2-YEL (P2)	B2-P2			TB1-1	.30	YES		5.25
B2-BLK (P3)	B2-P3			TB1-1	.30	YES		5.25
B2-YEL (S2)	B2-S2			TB1-12	.30	YES		5.25
B2-BLU (S4)	B2-S4			TB1-4	.30	YES		5.25

(J9) SEE NOTE 7

SEE NOTE 20 (J5)



PARTIAL SECTION A-A

PICTORIAL VIEWS SHOWN ON SHEET 1 ARE FOR THE -011 ASSEMBLY.

N	N
SHEET 1	SHEET 2
REVISION STATUS OF SHEETS	

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E5		(E1) REPLACES REV D WITH CHANGE (E2) ADDED: 10104514, 1010618-5 (4 REQD), 1006776-11, 1000220-4, 1010316 (2 REQD), 1000220-6, 1000223 (2 REQD), 1010618-13 (2 REQD), 1006776-18, 1014540 & 1014522 (FOR REF) (E3) REMD 1000104-3 (8 REQD) (E4) 1010415-1 WAS 1010415, 1010608-1 WAS 1014508, 1010618-15 WAS 1000093-15, 1010618-6 WAS 1000093-6, 1010618-2 (11 REQD) WAS 1000093-2 (8 REQD), 1010628-1 WAS 1000104-1, 1010618-1 (6 REQD) WAS 1000093-1 (10 REQD). (E5) ADDED 1010606 (2 REQD)	TDRR 02425	25 JULY 63	WK
F7		(F1) NOTE 7 MIL-A-9067 WAS MIL-A-90676. (F2) REMD NOTE 14; TORQUE: 2.5 IN. LBS MAX (F3) NOTE 16 WAS 30 IN. LBS MAX (F4) NOTE 17 WAS 6.5 IN. LBS MAX (F5) NOTE 18 WAS 1.0 IN. LBS MAX (F6) IT. 44 WAS MIL-25457-A (F7) ADDED P/N 1010655-1 IT. 47	TDRR 03196	17 SEPT 63	WK
G6		REVISED PER TDRR NO. 03575		3 OCT 63	WK
H		REVISED PER TDRR NO. 04070		31 OCT 63	WK
J17		REVISED PER TDRR NO. 04838		3 DEC. 63	WK
K		REVISED PER TDRR NO. 04999		16 DEC 63	WK
L7		REVISED PER TDRR NO. 05719		23 JAN 64	WK
M9		REVISED PER TDRR NO. 06366		25 FEB 64	WK
N5		REVISED PER TDRR NO. 06539		3 MAR 64	WK

		021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
		8	8		64	MS-15795-302	WASHER-FLAT
		2	2		63	1011625-15	SCREW, CAP, SOC. HD.
		2	2		62	NAS1352C02LL8	
		4	4		61	1011625-13	
		4	4		60	NAS1352C02LL4	SCREW, CAP, SOC. HD.
		1	–		59	1014535	GEAR SECTOR 55T (FULL GEAR) 96P
		1	–		58	1014536	SHAFT, HANDLE
		4	–		57	1014509-021	SPRING PLUNGER ASSEMBLY
		1	–		56	1014533	CAM, SECTOR
		1	–		55	1010617-4	NUT-HEX SELF LOCKING
		AR	AR		54	MIL-M-7866	MOLYBDENUM DISULFIDE POWDER
		AR	AR		53	1010490-082	INSULATION SLEEVING
		AR	AR		52	MIL-T-713 TYPE P, CLASS 2	TAPE
		AR	AR		51	QQ-S-571, SN 10	SOLDER
		2	2		50	1010606	INSULATOR SWITCH
		X	X		49	1014522	WIRING DIAGRAM
		X	X		48	1014540	SCHEMATIC DIAGRAM, ELEC
		AR	AR		46	MIL-S-40083 (ORD) CLASS 10	LIQUID LOCK (ES-2544-1)
		AR	AR		45	MIL-S-40083 (ORD) CLASS 30	LIQUID LOCK (ES-2544-5)
		AR	AR		44	MIL-A-25457	ADHESIVE-SILICONE RUBBER (ES-2531)
		AR	AR		43	MIL-A-9067	EPOXY ADHESIVE (ES-2539-1)
		AR	AR		42	MIL-F-14256 QQ-S-571	FLUX (ES-2798) FLUX-TYPE AR (ES-2175 TYPE 2)
		AR	AR		41	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
		AR	AR		40	1006776-18	INSULATION, SLEEVING ELEC
		1	1		39	1014521	WIRE LIST "AA"
		2	2		38	1010618-13	SCREW-BUTTON HD SELF LKG SOC HEX
		2	2		37	1011918-1	WASHER-CABLE CLAMP
		1	1		36	1000220-7	CLAMP-CABLE
		2	2		35	1010316	CAPACITOR, FIXED (SEE NOTE 8)
		1	1		34	1000220-4	CLAMP, CABLE
		AR	AR		33	1006776-11	INSULATION, SLEEVING ELEC
		1	1		32	1014514-011	COMPONENT BOARD ASSEMBLY
		6	6		30	1010618-1	SCREW-BUTTON HD SELF LKG SOC HEX
		8	8		29	1010628-1	SCREW-FLAT HD SELF LKG SOC HEX
		7	7		28	1010618-2	SCREW-BUTTON HD SELF LKG SOC HEX
		4	4		27	MS-35649-24	NUT-HEX
		1	2		25	1010618-15	SCREW, BUTTON HD SELF LKG. SOC HEX
		4	4		24	MS-15795-701	WASHER-FLAT
		4	4		23	1006783-1	SCREW, BUTTON HD, SOC HEX
		1	1		22	1010608-1	WASHER-SPRING, CURVED
		6	6		21	NAS1352C04LL4	SCREW, CAP HD, SELF LKG. SOC HEX
		6	6		20	1010415-1	CLAMP-SYNCHRO MOUNTING
		2	2		19	1010435-001	SWITCH-SENSITIVE
		4	4		18	1010418	BUSHING-FLANGED
		–	4		17	1014509-011	SPRING PLUNGER ASSY
		2	2		16	1010429	SYNCHRO RESOLVER
		1	1		15	1014512	DIAPHRAGM-HAND CONTROLLER
		1	1		14	1014563	PLATE BOTTOM
		1	1		13	1014562	COVER ASSY (INSEP)
		2	2		12	1014576	SUPPORT, PLUNGER
		1	1		11	1014566	ACTUATOR, SHAFT SWITCH
		–	1		10	1014557	SHAFT, HANDLE
		1	1		9	1014575	HANDLE
		1	1		8	1014570	SHAFT
		2	2		7	1014573	GEAR, SECTOR 72T FULL GEAR 96P
		–	1		6	1014516	GEAR, SECTOR ASS'Y
		1	1		5	1014571	GEAR, SECTOR 55T FULL GEAR 96P
		1	1		4	1014574	SHAFT, ACTUATOR ASSEMBLY
		1	1		3	1014564	TERMINAL BOARD ASSEMBLY
		1	1		2	1014567	GIMBAL ASSEMBLY-MATCHED MACHINED
		1	1		1	1014559	HOUSING ASSEMBLY-MATCHED MACHINED

QUANTITY REQUIRED

LIST OF PARTS AND MATERIALS

SEE NOTE 19
SEE NOTE 2

NEXT ASSY	USED ON
1014578	1014578

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +– –– DECIMALS ±.005 ±.02 ANGLES +– ––
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 10 JUL 63
CHECKED C. Wilson 19 Jul 63
APPROVAL 19 JUL 63
APPROVAL 19 July 63
NASA APPROVAL
MIT APPROVAL 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SEXTANT HAND CONTROLLER
ASSEMBLY

CODE IDENT NO.
SIZE E
1014558
SCALE 2:1
SHEET 1 OF 2

1014558N

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPR
L		ADDED SHEET 2 THIS REV			
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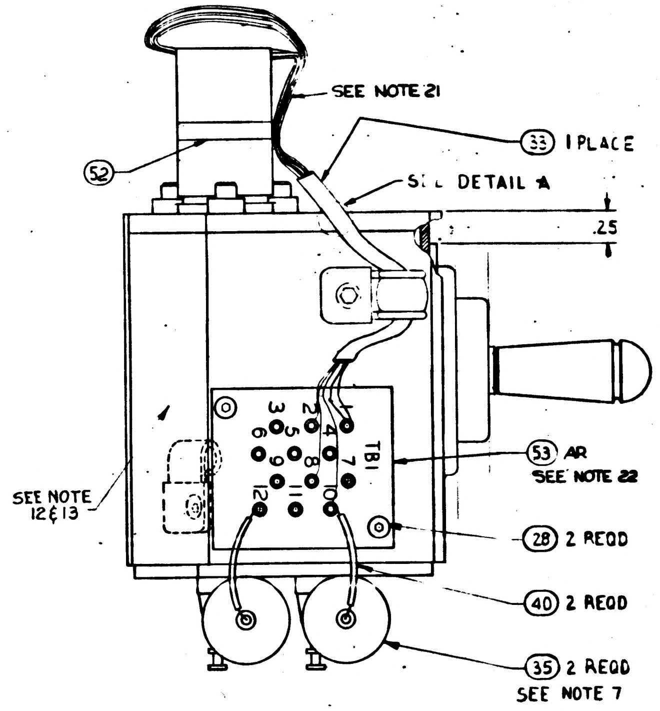
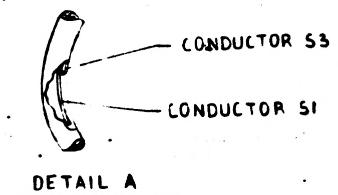
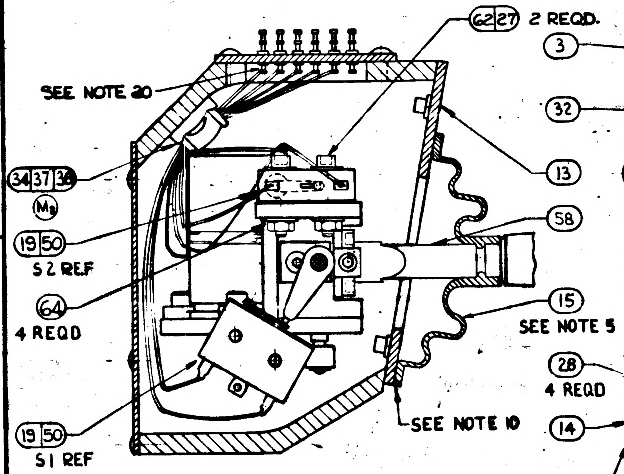
N5		REVISED PER TDRR NO. 06539		3 MAR 64	W.C

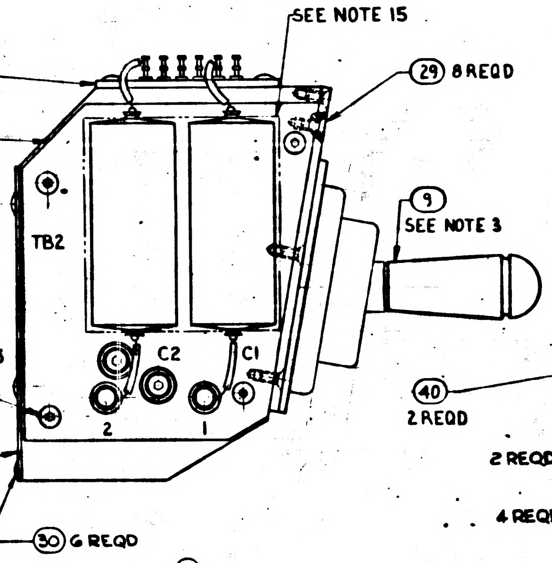

SEE NOTE 21
33 1 PLACE
52
SEE DETAIL A
.25
TB1
1 2 3 4 5 6 7 8 9 10 11 12
53 AR SEE NOTE 22
SEE NOTE 12 & 13
28 2 REQD
40 2 REQD
35 2 REQD SEE NOTE 7
M5

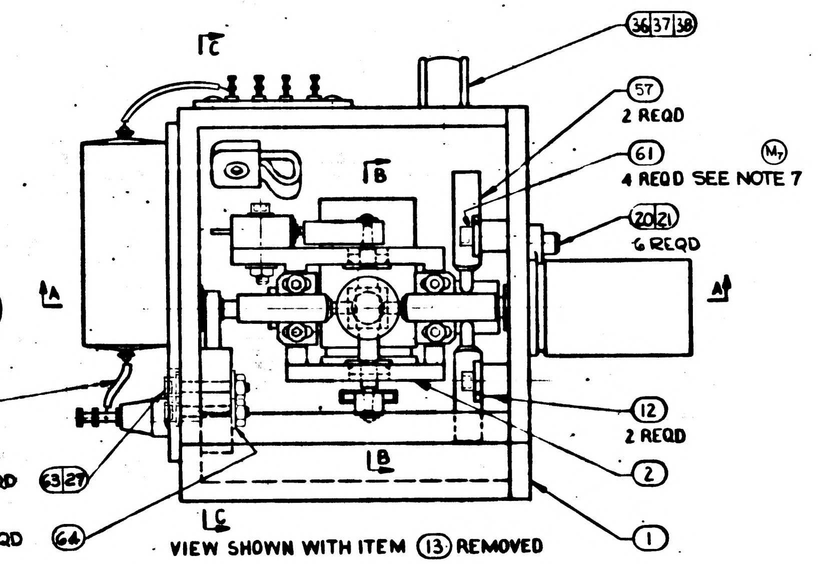

CONDUCTOR S3
CONDUCTOR S1

DETAIL A
SEE NOTE 9 (REF)

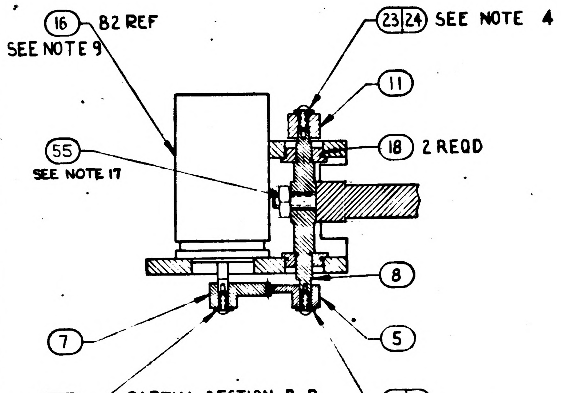

62 27 2 REQD.
SEE NOTE 20
34 37 38
M5
19 50
S2 REF
64
4 REQD
13
58
15
SEE NOTE 5
19 50
S1 REF
SEE NOTE 10

PARTIAL SECTION C-C

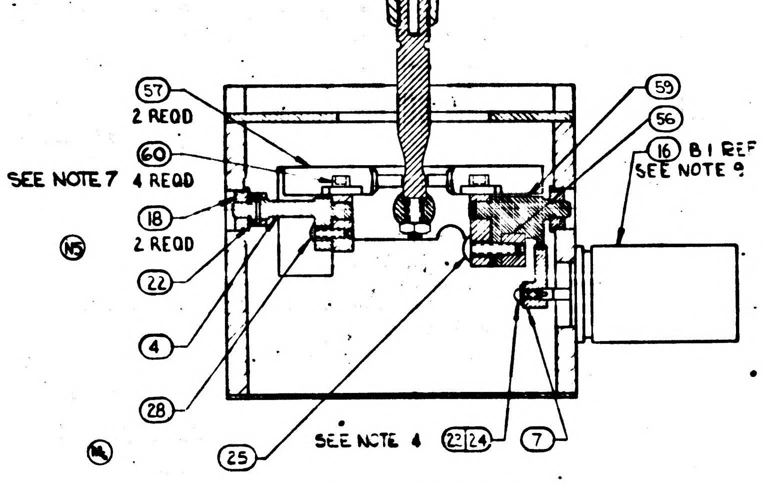

SEE NOTE 15
3
29 8 REQD
32
TB2
9
SEE NOTE 3
C2
C1
2
1
28
4 REQD
14
30 6 REQD
M5


36 37 38
C
57
2 REQD
61
4 REQD SEE NOTE 7
M5
B
20 21
6 REQD
A
A
40
2 REQD
12
2 REQD
2
2 REQD
63 27
B
C
4 REQD
64
1
N5

VIEW SHOWN WITH ITEM 13 REMOVED


16 B2 REF
SEE NOTE 9
23 24 SEE NOTE 4
11
18 2 REQD
55
SEE NOTE 17
8
7
5
23 24
SEE NOTE 4
23 24
SEE NOTE 4
M5

PARTIAL SECTION B-B


57
2 REQD
60
SEE NOTE 7 4 REQD
18
2 REQD
22
4
28
25
59
56
16 B1 REF
SEE NOTE 9
SEE NOTE 4
22 24
7
N5

PARTIAL SECTION A-A

PICTORIAL VIEWS SHOWN ON SHEET 2 ARE FOR THE -021 ASSEMBLY

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN DeZenzo DATE 1/20/64
CHECKED 1-20-64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER

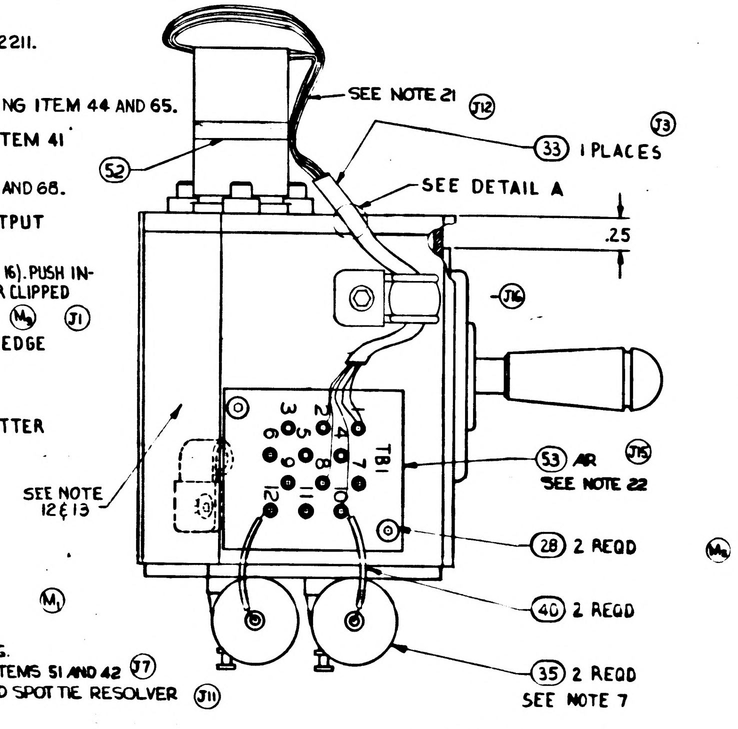
SEXTANT HAND CONTROLLER
ASSEMBLY

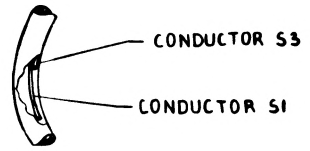
CODE IDENT NO
SIZE E
1014558
SCALE 2:1
SHEET 2 OF 2

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014558N

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE AND TEST PER ATP-1014558.
3. SECURE ITEM 9 AND 23 USING ITEM 69 PER ND1002211.
4. ~~SECURE ITEM 23 USING ITEM 45.~~
5. BOND ITEM 15 TO ITEM 13 PER ND1002151 (ES-2531) USING ITEM 44 AND 65.
6. SOLDER PER MIL-S-6872 (ES-2505 -1) USING ITEM 41 AND 42.
7. BOND PER ND1002203 (ES-2539-3) USING ITEMS 66, 67 AND 68.
8. SELECT FROM 1010316-24 THRU -27, SO THAT OUTPUT QUADRATURE VOLTAGE IS LESS THAN 300 MV.
9. CLIP CONDUCTORS S1 4.00" LONG AND S3 3.50" LONG (ITEM 16). PUSH INSULATION BACK .37" AND CLIP WIRES. PULL INSULATION OVER CLIPPED ENDS. (M9) (J1)
10. EDGE OF DIAPHRAGM TO BE FLUSH WITH BOTTOM EDGE OF ITEM 13.
11. INSPECT PER PS 1014558.
12. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER ND1002019.
13. SERIALIZE PER ND 1002023.
14.
15. BONDING MATERIAL NOT TO EXCEED THIS AREA.
16.
17.
18.
19. VENDOR ITEM: SEE SPECIFICATION CONTROL DWG.
20. SOLDER ALL LEADS ON UNDERSIDE OF TB1 USING ITEMS 51 AND 42 (J7)
21. SPOT TIE RESOLVER WIRES TO RESOLVER BODY, AND SPOT TIE RESOLVER WIRES TOGETHER AS NECESSARY, USING ITEM 52. (J11)
22. DO NOT SHRINK UNTIL NEXT ASSEMBLY. (J14)





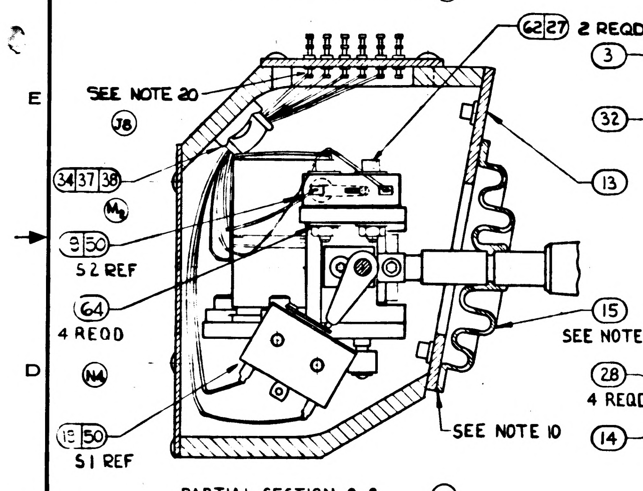
DETAIL A
SEE NOTE 9 (REF) (J4)

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
P		REVISED PER TDRR [illegible]		1 APR 64	Y.M.

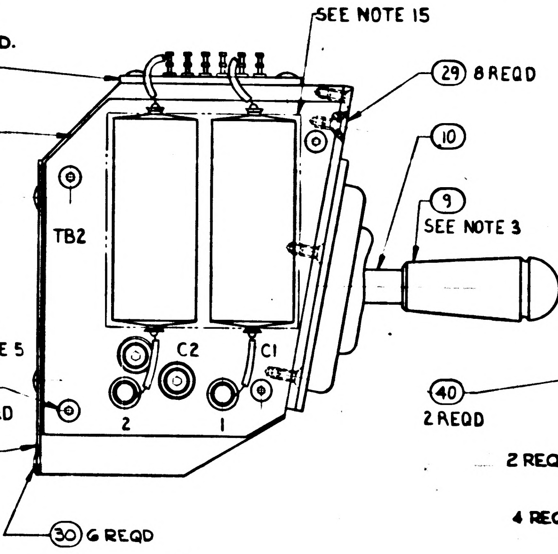
REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
E5		(E1) REPLACES REV D WITH CHANGE (E2) ADDED: 1014514, 1010618-3 (4 REQD), 1006776-11, 1000220-4, 1010316 (2 REQD) 1000220-6, 1000223 (2 REQD) 1010618-3 (2 REQD), 1006776-18, 1014540 & 1014522 (FOR REF) (E3) REMD 1000104-3 (8 REQD) (E4) 1010415-1 WAS 1010415, 1010608-1 WAS 1014508, 1010618-15 WAS 1000093-15, 1010618-6 WAS 1000093-6, 1010618-2 (11 REQD) WAS 1000093-2 3 REQD, 1010628-1 WAS 1000104-1, 1010618-1 (6 REQD) WAS 1000093-1 (10 REQD) - (E5) ADDED 1010606 (2 REQD)	TDRR 02425	25 JULY 63	W.K.
F7		(F1) NOTE 7 MIL-A-9067 WAS MIL-A-90676 - (F2) REMD NOTE 14: TORQUE: 2.5 IN. LBS MAX (F3) NOTE 16 WAS 30 IN. LBS MAX (F4) NOTE 17 WAS 6.5 IN. LBS MAX (F5) NOTE 18 WAS 1.0 IN. LBS MAX (F6) IT. 44 WAS MIL-25457-A (F7) ADDED P/N 1010655-1 IT. 47	TDRR 03196	17 SEPT 63	WK
G6		REVISED PER TDRR NO. 03575		3 OCT 63	WK
H		REVISED PER TDRR NO. 04070		31 OCT 63	WK
J17		REVISED PER TDRR NO. 04838		13 DEC. 63	WK
K		REVISED PER TDRR NO. 04999		16 DEC 63	WK
L7		REVISED PER TDRR NO. 05719		28 JAN 64	WK
M9		REVISED PER TDRR NO. 06366		25 FEB 64	WK
N5		REVISED PER TDRR NO. 06539		3 MAR 64	WK

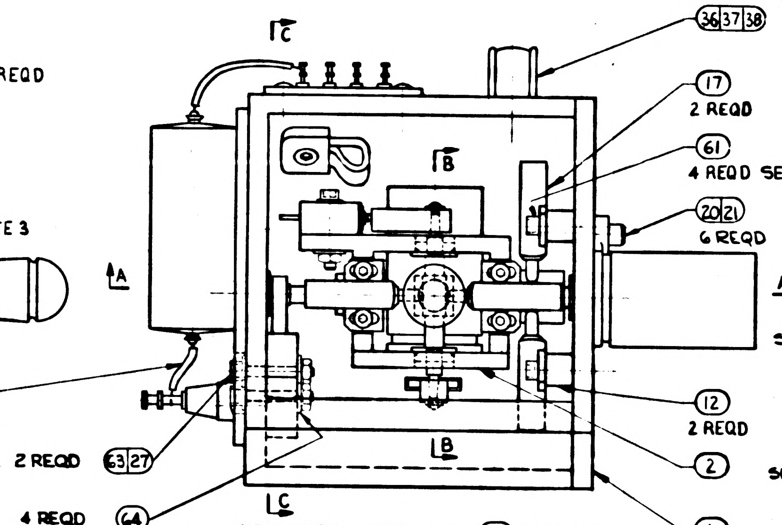
SEE NOTE 19

SEE NOTE 19
(K1) SEE NOTE 2
(J13)
(J10)
(J6)



PARTIAL SECTION C-C (N5)

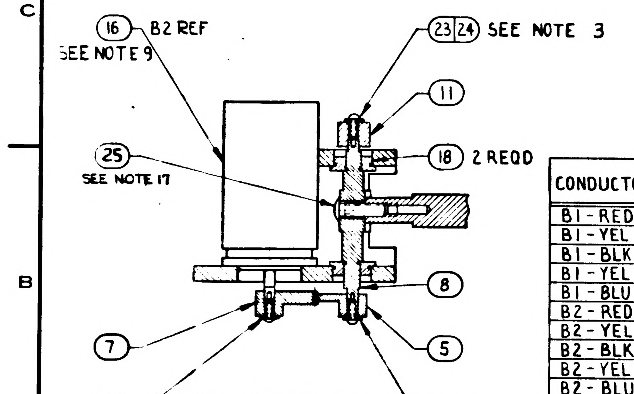




VIEW SHOWN WITH ITEM (13) REMOVED

SEE NOTE 19
(J2)
SEE NOTE 19
(N2)
(N1)
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19
SEE NOTE 19

		AR	AR		69	MIL-S-22473 GRADE C	SEALING COMPOUNDS, RETAINING
		AR	AR		68	1010750	CURING AGENT, POLYAMIDE (ES-2760)
		AR	AR		67	1010749	FILLER, CALCIUM CARBONATE
		AR	AR		66	1010748	RESIN, EPOXY (ES-2779)
		AR	AR		65	1010718	PRIMER, SILICONE ADHESIVE
		8	8		64	MS-15795-302	WASHER - FLAT
		2	2		63	1011625-15	SCREW, CAP SOC. HD.
		2	2		62	NAS1352C02LL8	
		4	4		61	1011625-13	
		4	4		60	NAS1352C02LL4	SCREW, CAP, SOC. HD.
		1	-		59	1014535	GEAR SECTOR 55T (FULL GEAR) 96P
		1	-		58	1014536	SHAFT, HANDLE
		4	-		57	1014509-021	SPRING PLUNGER ASSEMBLY
		1	-		56	1014533	CAM, SECTOR
		1	-		55	1010617-4	NUT-HEX SELF LOCKING
		AR	AR		54	MIL-M-7866	MOLYBDENUM DISULFIDE POWDER
		AR	AR		53	1010490-082	INSULATION SLEEVING
		AR	AR		52	MIL-T-713 TYPE P, CLASS 2	TAPE
		AR	AR		51	QQ-S-571, SN 10	SOLDER
		2	2		50	1010606	INSULATOR SWITCH
		X	X		49	1014522	WIRING DIAGRAM
		X	X		48	1014540	SCHEMATIC DIAGRAM, ELEC
		~~AR~~	~~AR~~		~~46~~	~~MIL-S-40083 (ORD) CLASS 10~~	~~LIQUID LOCK (ES-2544-1)~~
		~~AR~~	~~AR~~		~~45~~	~~MIL-S-40083 (ORD) CLASS 30~~	~~LIQUID LOCK (ES-2544-5)~~
		AR	AR		44	MIL-A-25457	ADHESIVE - SILICONE RUBBER (ES-2531)
		~~AR~~	~~AR~~		~~43~~	~~MIL-A-9067~~	~~EPOXY ADHESIVE (ES-2539-1)~~
		AR	AR		42	MIL-F-14256 QQ-S-571	FLUX (ES-2798) FLUX - TYPE AR (ES-2175 TYPE 2)
		AR	AR		41	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
		AR	AR		40	1006776-18	INSULATION, SLEEVING ELEC
		1	1		39	1014521	WIRE LIST "AA"
		2	2		38	1010618-13	SCREW-BUTTON HD SELF LKG SOC HEX
		2	2		37	1011918-1	WASHER-CABLE CLAMP
		1	1		36	1000220-7	CLAMP-CABLE
		2	2		35	1010316	CAPACITOR, FIXED (SEE NOTE 8)
		1	1		34	1000220-4	CLAMP, CABLE
		AR	AR		33	1006776-11	INSULATION, SLEEVING ELEC
		1	1		32	1014514-011	COMPONENT BOARD ASSEMBLY
		6	6		30	1010618-1	SCREW-BUTTON HD SELF LKG SOC HEX
		8	8		29	1010628-1	SCREW-FLAT HD SELF LKG SOC HEX
		7	7		28	1010618-2	SCREW-BUTTON HD SELF LKG SOC HEX
		4	4		27	MS-35649-24	NUT-HEX
		1	2		25	1010618-15	SCREW, BUTTON HD SELF LKG. SOC HEX
		4	4		24	MS-15795-701	WASHER-FLAT
		4	4		23	1006783-1	SCREW, BUTTON HD, SOC HEX
		1	1		22	1010608-1	WASHER-SPRING, CURVED
		6	6		21	NAS1352C04LL4	SCREW, CAP HD, SELF LKG. SOC HEX
		6	6		20	1010415-1	CLAMP - SYNCHRO MOUNTING
		2	2		19	1010435-001	SWITCH-SENSITIVE
		4	4		18	1010418	BUSHING-FLANGED
		-	4		17	1014509-011	SPRING PLUNGER ASSY
		2	2		16	1010429	SYNCHRO RESOLVER
		1	1		15	1014512	DIAPHRAGM - HAND CONTROLLER
		1	1		14	1014563	PLATE BOTTOM
		1	1		13	1014562	COVER ASSY, (INSEP)
		2	2		12	1014576	SUPPORT, PLUNGER
		1	1		11	1014566	ACTUATOR, SHAFT SWITCH
		-	1		10	1014557	SHAFT, HANDLE
		1	1		9	1014575	HANDLE
		1	1		8	1014570	SHAFT
		2	2		7	1014573	GEAR, SECTOR 72T FULL GEAR 96P
		-	1		6	1014516	GEAR, SECTOR ASS'Y
		1	1		5	1014571	GEAR, SECTOR 55T FULL GEAR 96P
		1	1		4	1014574	SHAFT, ACTUATOR ASSEMBLY
		1	1		3	1014564	TERMINAL BOARD ASSEMBLY
		1	1		2	1014567	GIMBAL ASSEMBLY-MATCHED MACHINED
		1	1		1	1014559	HOUSING ASSEMBLY-MATCHED MACHINED
		021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

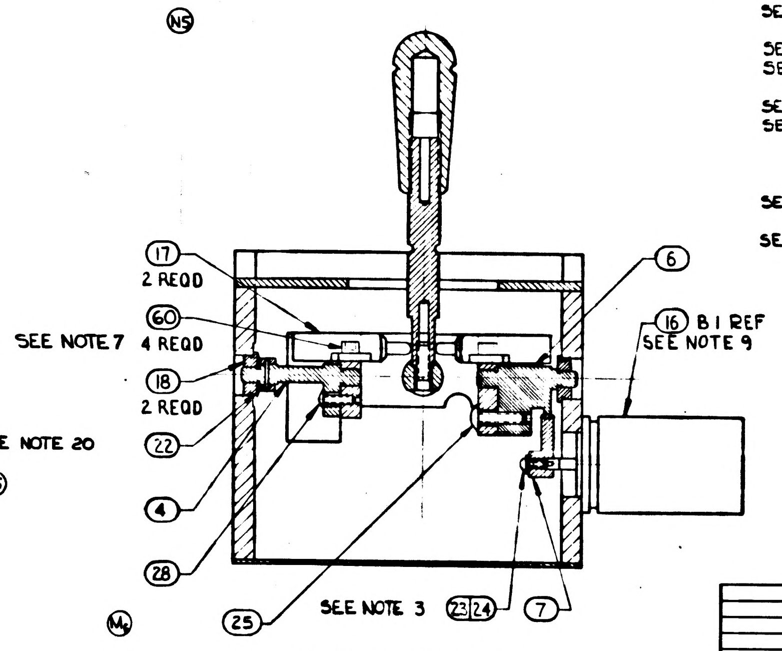


PARTIAL SECTION B-B

CONDUCTOR	FROM	STRIP	TIN	TO	STRIP	TIN	ITEM NO	LENGTH
B1 - RED (P1)	B1-P1			TB1-2	.30	YES		8.00
B1 - YEL (P2)	B1-P2			TB1-1	.30	YES		8.00
B1 - BLK (P3)	B1-P3			TB1-1	.30	YES		8.00
B1 - YEL (S2)	B1-S2			TB1-10	.30	YES		8.00
B1 - BLU (S4)	B1-S4			TB1-8	.30	YES		8.00
B2 - RED (P1)	B2-P1			TB1-3	.30	YES		5.25
B2 - YEL (P2)	B2-P2			TB1-1	.30	YES		5.25
B2 - BLK (P3)	B2-P3			TB1-1	.30	YES		5.25
B2 - YEL (S2)	B2-S2			TB1-12	.30	YES		5.25
B2 - BLU (S4)	B2-S4			TB1-4	.30	YES		5.25

(J9) SEE NOTE 20 (J5)

SEE NOTE 7



PARTIAL SECTION A-A

PICTORIAL VIEWS SHOWN ON SHEET 1 ARE FOR THE -011 ASSEMBLY.

N	N
SHEET 1	SHEET 2
REVISION STATUS OF SHEETS	

NEXT ASSY	USED ON
1014578	1014578
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +− −− DECIMALS ±.005 ±.02 ANGLES +− −−
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN [illegible] DATE 10 JUL 63
CHECKED P. Wilson 19 Jul 63
APPROVAL E. Moats 19 Jul 63
APPROVAL [illegible] 19 July 63
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

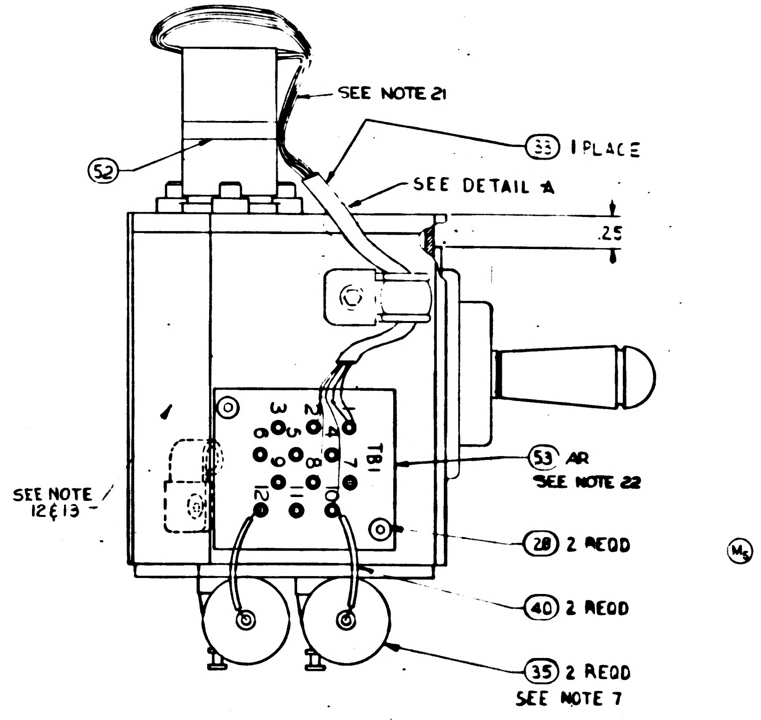
SEXTANT HAND CONTROLLER
ASSEMBLY

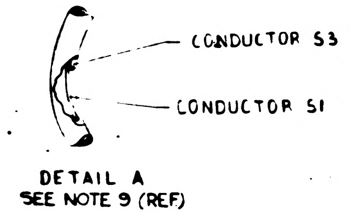
CODE IDENT NO. | SIZE E | 1014558
SCALE 2:1 | SHEET 1 OF 2

P 1014558

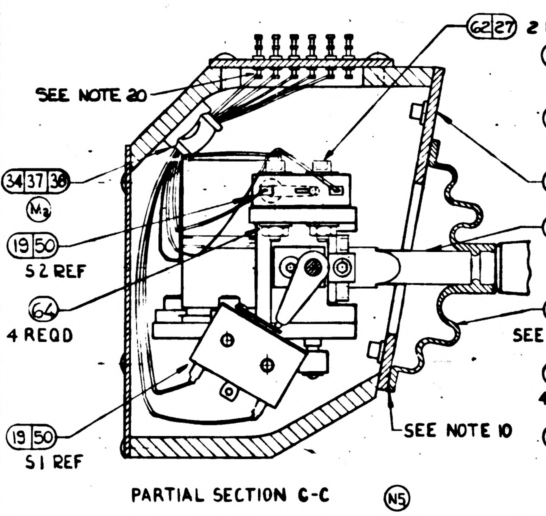
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		ADDED SHEET 2 THIS REV			
M9		REVISED PER TDRR NO. 06366		25 FEB 64	
N5		REVISED PER TDRR NO. 06539		3 MAR 64	WK
P		REVISED PER TDRR 07116		1 APR 64	JWC

TDRR 057 19 [illegible]

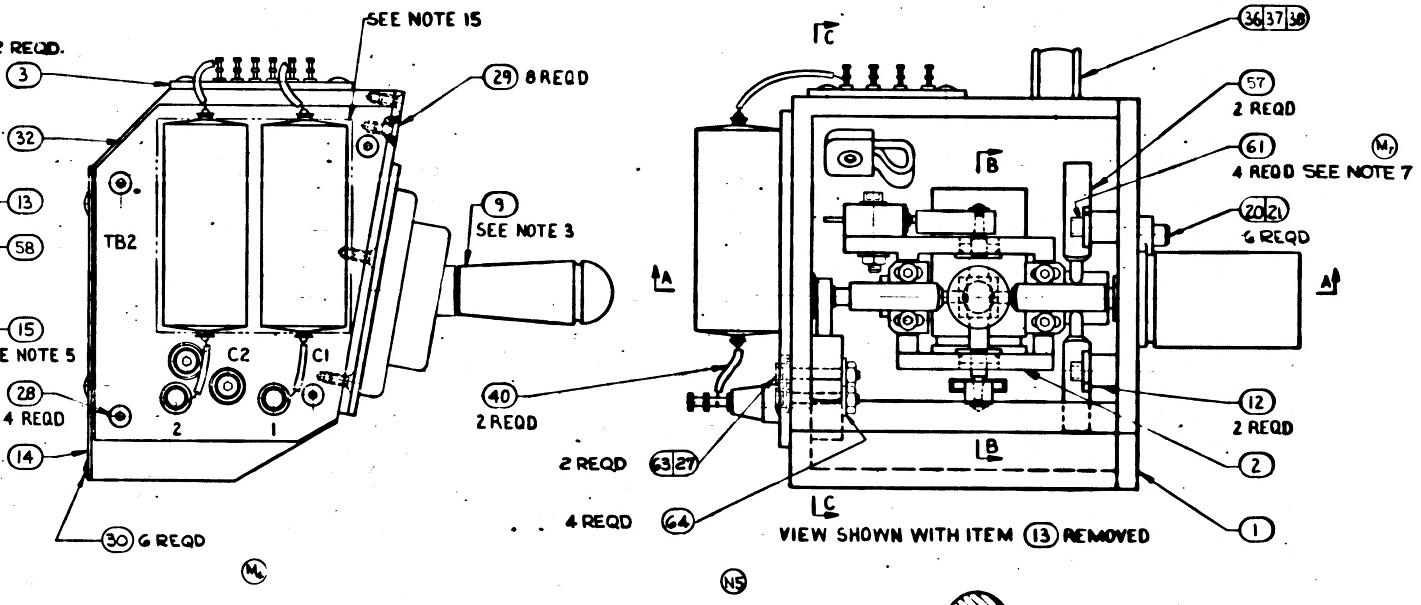

SEE NOTE 21
(33) 1 PLACE
(52)
SEE DETAIL A
.25
3 2 1
6 5 4
9 8 7
12 11 10
TB1
(53) AR
SEE NOTE 22
SEE NOTE 12 & 13
(28) 2 REQD
(40) 2 REQD
(35) 2 REQD
SEE NOTE 7
(M)


CONDUCTOR S3
CONDUCTOR S1

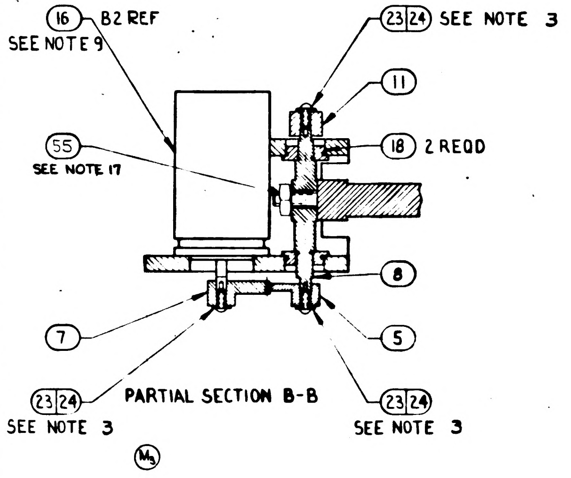
DETAIL A
SEE NOTE 9 (REF)


(62|27) 2 REQD.
SEE NOTE 20
(34|37|38)
(M)
(19|50)
S2 REF
(64)
4 REQD
(19|50)
S1 REF
(13)
(58)
(15)
SEE NOTE 5
SEE NOTE 10

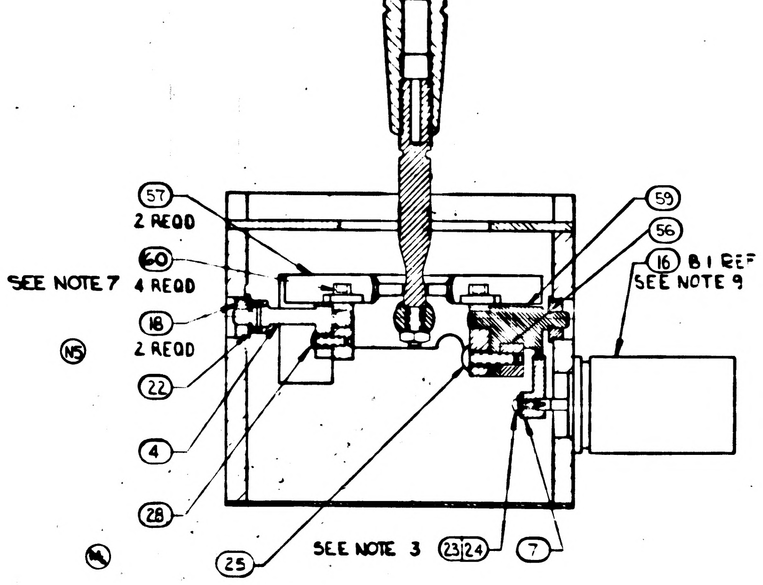
PARTIAL SECTION C-C


SEE NOTE 15
(3)
(29) 8 REQD
(32)
(9)
SEE NOTE 3
TB2
C2
C1
2
1
(28)
4 REQD
(14)
(30) 6 REQD
(M)
(36|37|38)
C
(57)
2 REQD
B
(61)
4 REQD SEE NOTE 7
(M)
(20|21)
6 REQD
A
A
(40)
2 REQD
(12)
2 REQD
2 REQD (63|27)
B
(2)
C
4 REQD (64)
(1)
(N5)

VIEW SHOWN WITH ITEM (13) REMOVED


(16) B2 REF
SEE NOTE 9
(23|24) SEE NOTE 3
(11)
(55)
SEE NOTE 17
(18) 2 REQD
(8)
(7)
(5)
(23|24)
SEE NOTE 3
(23|24)
SEE NOTE 3
(M)

PARTIAL SECTION B-B


(57)
2 REQD
(60)
SEE NOTE 7 4 REQD
(18)
2 REQD
(N5)
(22)
(4)
(28)
(59)
(56)
(16) B1 REF
SEE NOTE 9
(25)
SEE NOTE 3 (23|24)
(7)
(M)

PARTIAL SECTION A-A

PICTORIAL VIEWS SHOWN ON SHEET 2 ARE FOR THE -021 ASSEMBLY

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN DeZenzo DATE 1-20-64
CHECKED Petrange 1-20-64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL 2/ /64

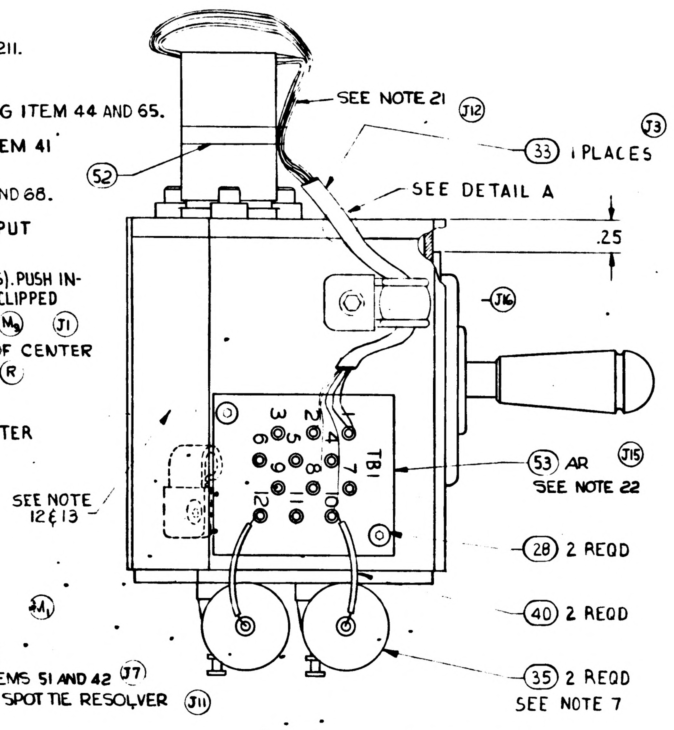
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

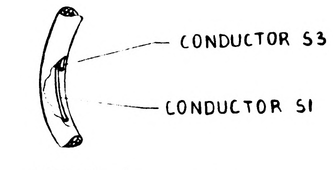
SEXTANT HAND CONTROLLER
ASSEMBLY

CODE IDENT NO
SIZE E
1014558
21
SHEET 2 OF 2

1014558

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE AND TEST PER ATP-1014558.
3. SECURE ITEM 9 AND 23 USING ITEM 69 PER ND1002211.
4. ~~SECURE ITEM 23 USING ITEM 45.~~
5. BOND ITEM 15 TO ITEM 13 PER ND1002151 (ES-2531) USING ITEM 44 AND 65.
6. SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEM 41 AND 42.
7. BOND PER ND1002203 (ES-2539-3) USING ITEMS 66, 67 AND 68.
8. SELECT FROM 1010316-24 THRU -27, SO THAT OUTPUT QUADRATURE VOLTAGE IS LESS THAN 300 MV.
9. CLIP CONDUCTORS S1 4.00" LONG AND S3 3.50" LONG (ITEM 16). PUSH INSULATION BACK .37" AND CLIP WIRES. PULL INSULATION OVER CLIPPED ENDS. (M9) (J1)
10. EDGE OF DIAPHRAGM TO BE .315 ±.015 FROM LINE OF CENTER OF MOUNTING HOLES AS SHOWN. (R)
11. INSPECT PER PS 1014558.
12. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER ND1002019.
13. SERIALIZE PER ND 1002023.
14.
15. BONDING MATERIAL NOT TO EXCEED THIS AREA.
16.
17.
18.
19. VENDOR ITEM: SEE SPECIFICATION CONTROL DWG.
20. SOLDER ALL LEADS ON UNDERSIDE OF TB1 USING ITEMS 51 AND 42 (J7)
21. SPOT TIE RESOLVER WIRES TO RESOLVER BODY, AND SPOT TIE RESOLVER WIRES TOGETHER AS NECESSARY, USING ITEM 52. (J11)
22. DO NOT SHRINK UNTIL NEXT ASSEMBLY. (J14)





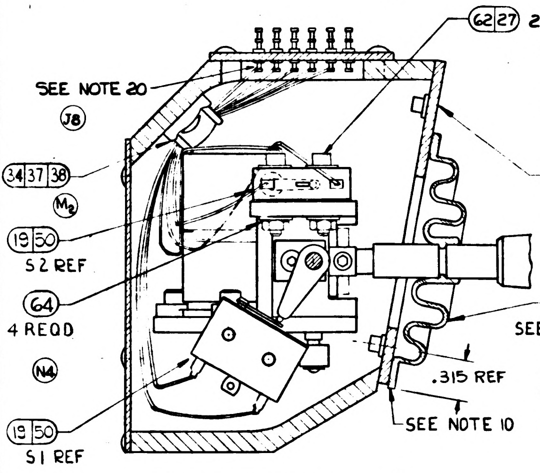
DETAIL A
SEE NOTE 9 (REF) (J4)

REVISIONS

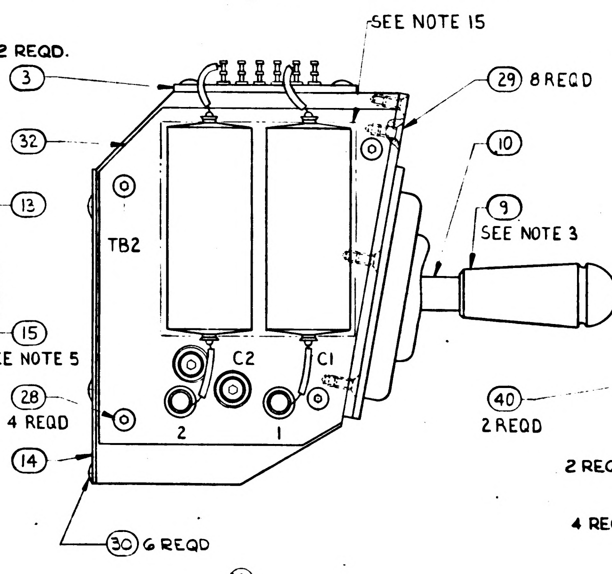
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
P		REVISED PER TDRR [illegible]		1 APR 64	SWP
R		REVISED PER TDRR 07970		1 MAY 64	JAG

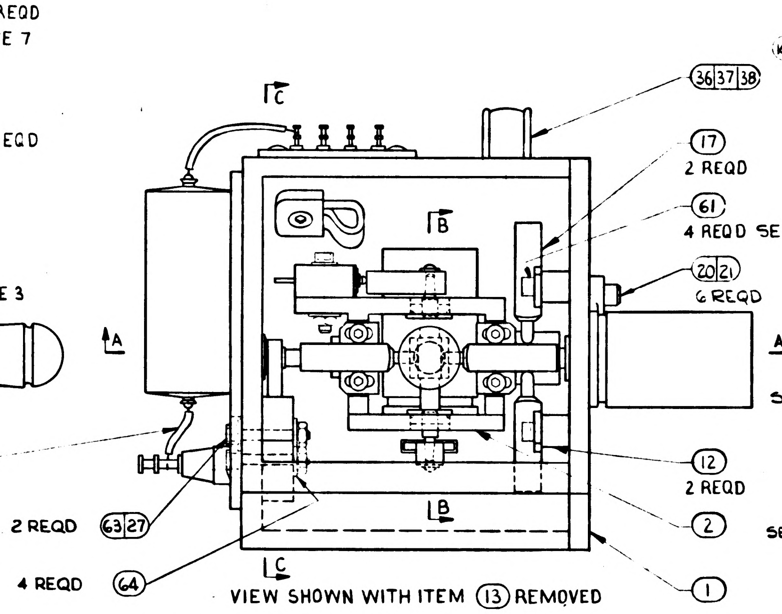
REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
E5		(E1) REPLACES REV D WITH CHANGE (E2) ADDED: 1014514, 1010618-3 (4 REQD) 1006776-1 1000220-4, 1010316 (2 REQD) 1000220-6, 1000223 (2 REQD) 1010618-3 (2 REQD) 1006776-18, 1014540 & 1014522 (FOR REF) (E3) REMD 1000104-3 (8 REQD) (E4) 1010415-1 WAS 1010415, 1010608-1 WAS 1014508, 1010618-5 WAS 1000093-15, 1010618-6 WAS 1000093-6, 1010618-2 (7 REQD) WAS 1000093-2 (8 REQD), 1010628-1 WAS 1000104-1, 1010618-1 (6 REQD) WAS 1000093-1 (10 REQD). (E5) ADDED 1010606 (2 REQD)	TDRR 02425	25 JULY 63	WK.
F7		(F1) NOTE 7 MIL-A-9067 WAS MIL-A-90676. (F2) REMD NOTE 14: TORQUE: 2.5 IN. LBS MAX (F3) NOTE 16 WAS 3.0 IN. LBS MAX (F4) NOTE 17 WAS 6.5 IN. LBS MAX (F5) NOTE 18 WAS 1.0 IN. LBS MAX (F6) IT. 44 WAS MIL-25457-A (F7) ADDED P/N 1010655-1 IT. 47	TDRR 03196	17 SEPT 63	WK
G6		REVISED PER TDRR NO. 03575		3 OCT 63	WK
H		REVISED PER TDRR NO. 04070		31 OCT 63	WK
J17		REVISED PER TDRR NO. 04838		13 DEC 63	WK
K		REVISED PER TDRR NO. 04999		16 DEC 63	WK
L7		REVISED PER TDRR NO. 05719		28 JAN 64	WK
M9		REVISED PER TDRR NO. 06366		25 FEB 64	WK
N5		REVISED PER TDRR NO. 06539		3 MAR 64	WK



PARTIAL SECTION C-C (N5)



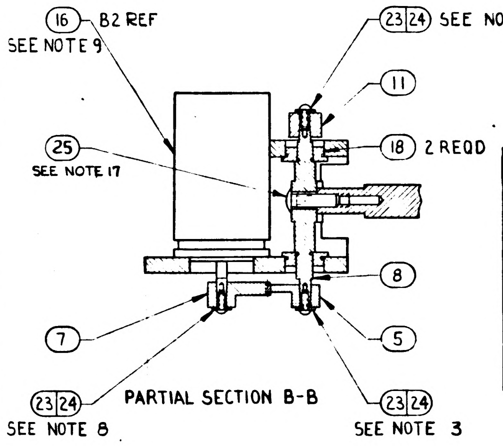


VIEW SHOWN WITH ITEM (13) REMOVED (N5)

SEE NOTE 19

		AR	AR		69	MIL-S-22473 GRADE C	SEALING COMPOUNDS, RETAINING
		AR	AR		68	1010750	CURING AGENT, POLYAMIDE (ES-2760)
		AR	AR		67	1010749	FILLER, CALCIUM CARBONATE
		AR	AR		66	1010748	RESIN, EPOXY (ES-2779)
		AR	AR		65	1010718	PRIMER, SILICONE ADHESIVE
		8	8		64	MS-15795-302	WASHER-FLAT
		2	2		63	1011625-15	SCREW, CAP SOC. HD.
		2	2		62	NAS1352C02LL8	
		4	4		61	1011625-13	
		4	4		60	NAS1352C02LL4	SCREW, CAP, SOC. HD.
		1	-		59	1014535	GEAR SECTOR 55T (FULL GEAR) 96P
		1	-		58	1014536	SHAFT, HANDLE
		4	-		57	1014509-021	SPRING PLUNGER ASSEMBLY
		1	-		56	1014533	CAM, SECTOR
		1	-		55	1010617-4	NUT-HEX SELF LOCKING
		AR	AR		54	MIL-M-7866	MOLYBDENUM DISULFIDE POWDER
		AR	AR		53	1010490-082	INSULATION SLEEVING
		AR	AR		52	MIL-T-713 TYPE P, CLASS 2	TAPE
		AR	AR		51	QQ-S-571, SN 10	SOLDER
		2	2		50	1010606	INSULATOR SWITCH
		X	X		49	1014522	WIRING DIAGRAM
		X	X		48	1014540	SCHEMATIC DIAGRAM, ELEC
		~~AR~~	~~AR~~		~~46~~	~~MIL-S-40083 (ORD) CLASS 10~~	~~LIQUID LOCK (ES-2544-1)~~
		~~AR~~	~~AR~~		~~45~~	~~MIL-S-40083 (ORD) CLASS 30~~	~~LIQUID LOCK (ES-2544-5)~~
		AR	AR		44	MIL-A-25457	ADHESIVE-SILICONE RUBBER (ES-2531)
		~~AR~~	~~AR~~		~~43~~	~~MIL-A-9067~~	~~EPOXY ADHESIVE (ES-2539-1)~~
		AR	AR		42	MIL-F-14256 QQ-S-571	FLUX (ES-2798) FLUX-TYPE AR (ES-2175 TYPE 2)
		AR	AR		41	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
		AR	AR		40	1006776-18	INSULATION, SLEEVING ELEC
		1	1		39	1014521	WIRE LIST "AA"
		2	2		38	1010618-13	SCREW-BUTTON HD SELF LKG SOC HEX
		2	2		37	1011918-1	WASHER-CABLE CLAMP
		1	1		36	1000220-7	CLAMP-CABLE
		2	2		35	1010316	CAPACITOR, FIXED (SEE NOTE 8)
		1	1		34	1000220-4	CLAMP, CABLE
		AR	AR		33	1006776-11	INSULATION, SLEEVING ELEC
		1	1		32	1014514-011	COMPONENT BOARD ASSEMBLY
		6	6		30	1010618-1	SCREW-BUTTON HD SELF LKG SOC HEX
		8	8		29	1010628-1	SCREW-FLAT HD SELF LKG SOC HEX
		7	7		28	1010618-2	SCREW-BUTTON HD SELF LKG SOC HEX
		4	4		27	MS-35649-24	NUT-HEX
		1	2		25	1010618-15	SCREW, BUTTON HD SELF LKG. SOC HEX
		4	4		24	MS-15795-701	WASHER-FLAT
		4	4		23	1006783-1	SCREW, BUTTON HD, SOC HEX
		1	1		22	1010608-1	WASHER-SPRING, CURVED
		6	6		21	NAS1352C04LL4	SCREW, CAP HD, SELF LKG SOC HEX
		6	6		20	1010415-1	CLAMP-SYNCHRO MOUNTING
		2	2		19	1010435-001	SWITCH-SENSITIVE
		4	4		18	1010418	BUSHING-FLANGED
		-	4		17	1014509-011	SPRING PLUNGER ASSY
		2	2		16	1010429	SYNCHRO RESOLVER
		1	1		15	1014512	DIAPHRAGM-HAND CONTROLLER
		1	1		14	1014563	PLATE BOTTOM
		1	1		13	1014562	COVER ASSY, (INSEP)
		2	2		12	1014576	SUPPORT, PLUNGER
		1	1		11	1014566	ACTUATOR, SHAFT SWITCH
		-	1		10	1014557	SHAFT, HANDLE
		1	1		9	1014575	HANDLE
		1	1		8	1014570	SHAFT
		2	2		7	1014573	GEAR, SECTOR 72T FULL GEAR 96P
		-	1		6	1014516	GEAR, SECTOR ASS'Y
		1	1		5	1014571	GEAR, SECTOR 55T FULL GEAR 96P
		1	1		4	1014574	SHAFT, ACTUATOR ASSEMBLY
		1	1		3	1014564	TERMINAL BOARD ASSEMBLY
		1	1		2	1014567	GIMBAL ASSEMBLY-MATCHED MACHINED
		1	1		1	1014559	HOUSING ASSEMBLY-MATCHED MACHINED
		021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
QUANTITY REQUIRED					LIST OF PARTS AND MATERIALS		

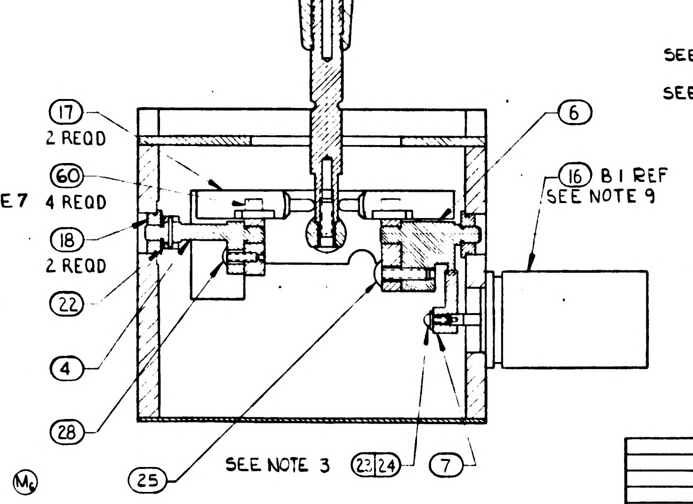
SEE NOTE 19 (items 55, 30, 28, 25, 24, 22, 21, 17, 16); (K1) SEE NOTE 2; (J13); (J10); (J6); (N2); (N1)



PARTIAL SECTION B-B (M3)

CONDUCTOR	FROM	STRIP	TIN	TO	STRIP	TIN	ITEM NO	LENGTH
B1-RED (P1)	B1-P1			TB1-2	.30	YES		6.00
B1-YEL (P2)	B1-P2			TB1-1	.30	YES		6.00
B1-BLK (P3)	B1-P3			TB1-1	.30	YES		6.00
B1-YEL (S2)	B1-S2			TB1-10	.30	YES		6.00
B1-BLU (S4)	B1-S4			TB1-8	.30	YES		6.00
B2-RED (P1)	B2-P1			TB1-3	.30	YES		5.25
B2-YEL (P2)	B2-P2			TB1-1	.30	YES		5.25
B2-BLK (P3)	B2-P3			TB1-1	.30	YES		5.25
B2-YEL (S2)	B2-S2			TB1-12	.30	YES		5.25
B2-BLU (S4)	B2-S4			TB1-4	.30	YES		5.25

(J9) SEE NOTE 7
SEE NOTE 20 (J5)



PARTIAL SECTION A-A

PICTORIAL VIEWS SHOWN ON SHEET 1 ARE FOR THE -011 ASSEMBLY.

R	R
P	P
N	N
SHEET 1	SHEET 2
REVISION STATUS OF SHEETS	

NEXT ASSY	USED ON
1014578	1014578
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +— DECIMALS ±.005 ±.02 ANGLES +—
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN G. Murray DATE 10 JUL 63
CHECKED C. Wilson 19 JUL 63
APPROVAL E. Mertz 19 JUL 63
APPROVAL 19 JULY 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SEXTANT HAND CONTROLLER
ASSEMBLY

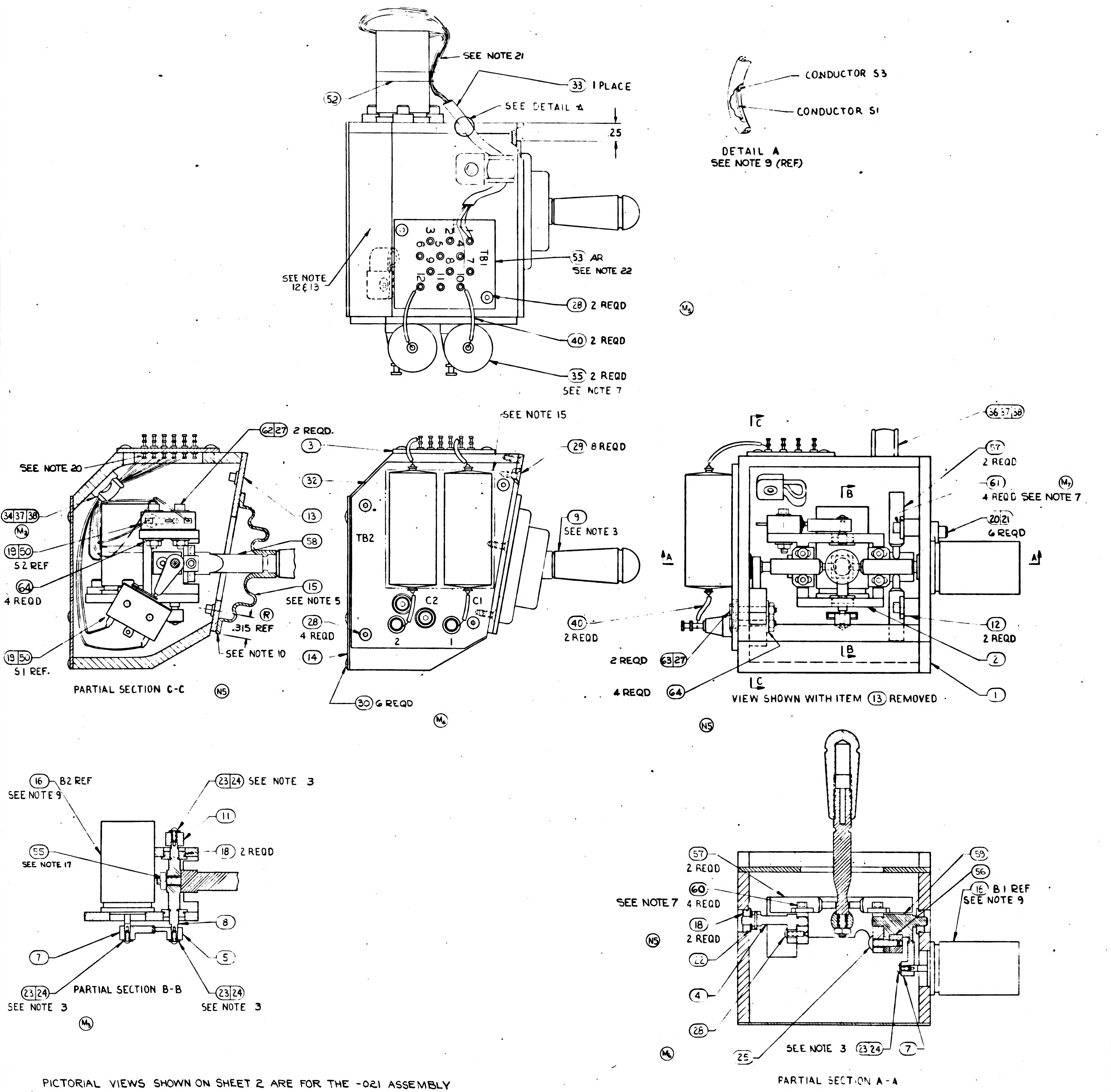
CODE IDENT NO. SIZE E 1014558
SCALE 2:1 SHEET 1 OF 2

R 1014558

MIL 1077E-P

TDRR 05719 (4-9-64)

			DATE	APPR
L		ADDED SHEET 2 THIS REV		
M9		REVISED PER TDRR NO. 06366	25 FEB 64	WK
N5		REVISED PER TDRR NO. 06539	3 MAR 64	
P		REVISED PER TDRR 07116	1 APR 64	
R		REVISED PER TDRR 07970	1 MAY 64	



SEE NOTE 21
52
33 1 PLACE
SEE DETAIL A
.25
CONDUCTOR S3
CONDUCTOR S1
DETAIL A
SEE NOTE 9 (REF)
SEE NOTE 12 & 13
TB1
1 2 3 4 5 6 7 8 9 10 11 12
53 AR
SEE NOTE 22
28 2 REQD
40 2 REQD
35 2 REQD
SEE NOTE 7
SEE NOTE 20
62 27 2 REQD.
34 37 38
19 50
S2 REF
64
4 REQD
19 50
S1 REF.
13
58
15
SEE NOTE 5
.315 REF
SEE NOTE 10
PARTIAL SECTION C-C
SEE NOTE 15
3
32
29 8 REQD
9
SEE NOTE 3
TB2
C2
C1
2
1
28
4 REQD
14
30 6 REQD
40
2 REQD
2 REQD
63 27
4 REQD
64
C
B
A
56 37 38
57
2 REQD
61
4 REQD SEE NOTE 7
20 21
6 REQD
12
2 REQD
2
1
VIEW SHOWN WITH ITEM 13 REMOVED
16 B2 REF
SEE NOTE 9
23 24 SEE NOTE 3
11
18 2 REQD
55
SEE NOTE 17
8
7
5
23 24
SEE NOTE 3
PARTIAL SECTION B-B
23 24
SEE NOTE 3
57
2 REQD
60
SEE NOTE 7 4 REQD
18
2 REQD
22
4
26
25
SEE NOTE 3 23 24
7
59
56
16 B1 REF
SEE NOTE 9
PARTIAL SECTION A-A
M9
N5
M6

PICTORIAL VIEWS SHOWN ON SHEET 2 ARE FOR THE -021 ASSEMBLY

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN DeZenzo DATE 1/20/64
CHECKED 1-20-64
APPROVAL 1/20/64
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER

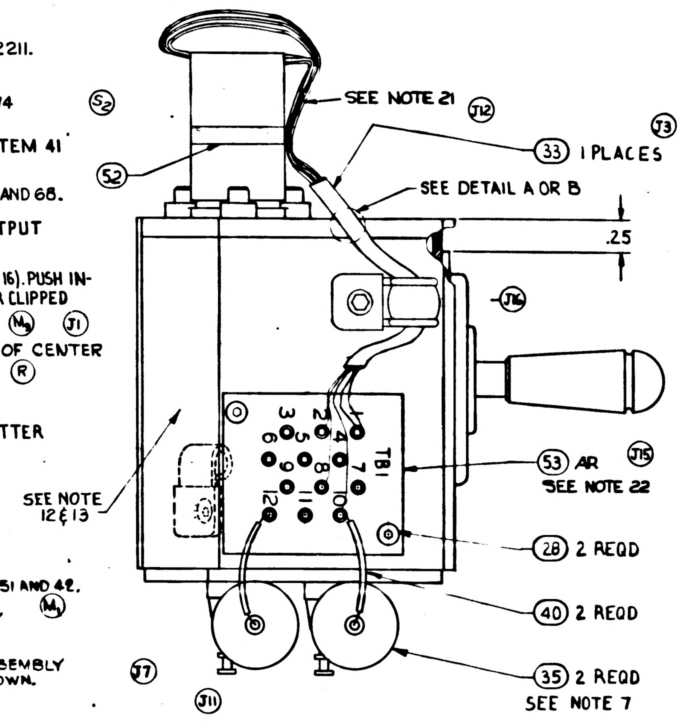
SEXTANT HAND CONTROLLER
ASSEMBLY

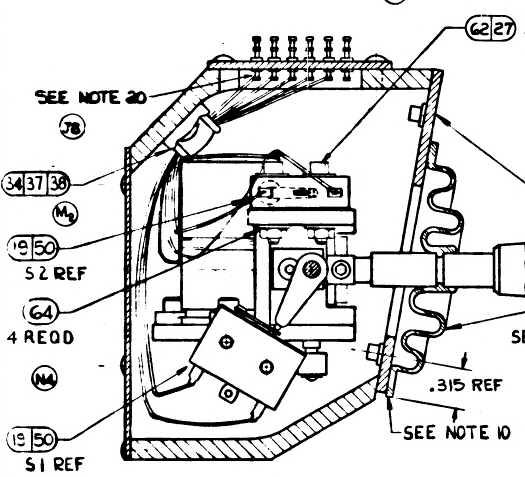
CODE IDENT NO
SIZE E
1014558
SHEET 2 OF 2

1014558 R

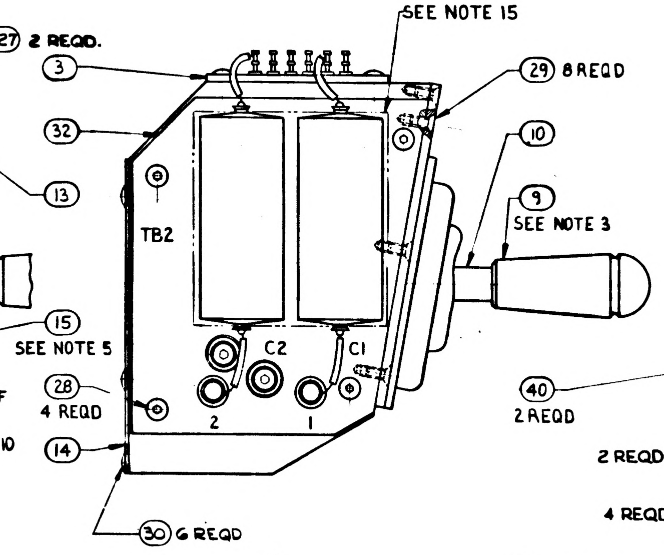
1014558M

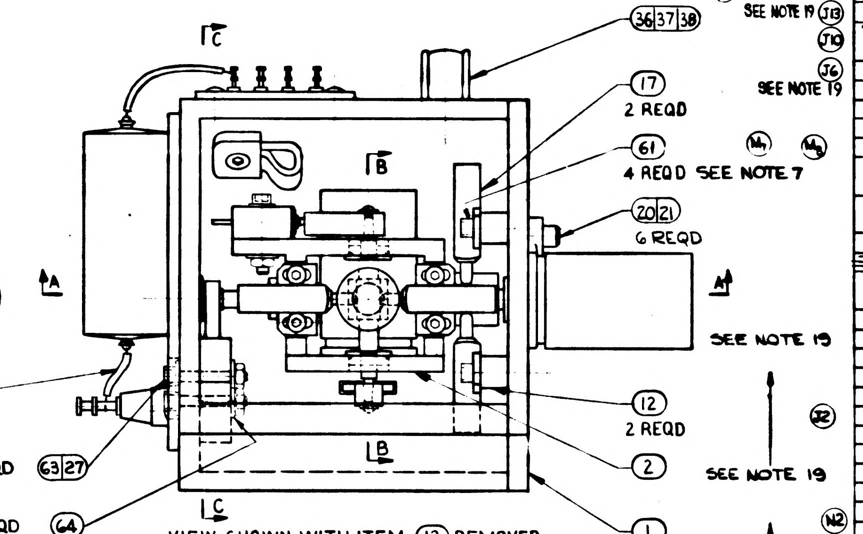
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. ASSEMBLE AND TEST PER ATP-1014558.
3. SECURE ITEM 9, 23 AND 27 USING ITEM 69 PER ND1002211.
4. ~~SECURE ITEM 23 USING ITEM 45.~~
5. BOND ITEM 15 TO ITEM 13, OR BOND ITEM 15 TO ITEM 74 PER ND 1002151 USING ITEMS 44 & 65.
6. SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEM 41 AND 42.
7. BOND PER ND1002203 (ES-2539-3) USING ITEMS 66, 67 AND 68.
8. SELECT FROM 1010316-24 THRU -27, SO THAT OUTPUT QUADRATURE VOLTAGE IS LESS THAN 300 MV.
9. CLIP CONDUCTORS S1 4.00" LONG AND S3 3.50" LONG (ITEM 16). PUSH INSULATION BACK .37" AND CLIP WIRES. PULL INSULATION OVER CLIPPED ENDS.
10. EDGE OF DIAPHRAGM TO BE .315 ±.015 FROM LINE OF CENTER OF MOUNTING HOLES AS SHOWN.
11. INSPECT PER PS 1014558.
12. IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER ND1002019.
13. SERIALIZE PER ND1002023.
14.
15. BONDING MATERIAL NOT TO EXCEED THIS AREA.
16.
17.
18.
19. VENDOR ITEM: SEE SPECIFICATION CONTROL DRAWING.
20. SOLDER ALL LEADS ON UNDERSIDE OF TB1 USING ITEMS 51 AND 42.
21. SPOT TIE RESOLVER WIRES TO RESOLVER BODY AND SPOT TIE RESOLVER WIRES TOGETHER AS NECESSARY USING ITEM 52.
22. DO NOT SHRINK UNTIL NEXT ASSEMBLY.
23. DO NOT USE SLEEVING ON WIRE LIST WITH -031 ASSEMBLY
24. BEND CONDUCTORS S1 AND S3 (ITEM 16) AS SHOWN.



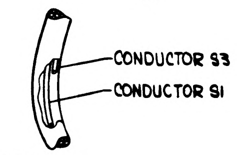


PARTIAL SECTION C-C

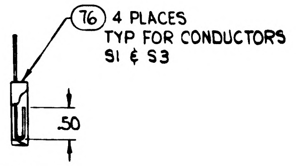




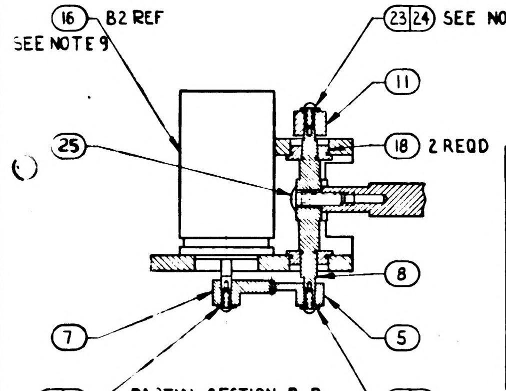
VIEW SHOWN WITH ITEM (13) REMOVED



DETAIL A
SEE NOTE 9 (REF)
-011 ASSEMBLY



DETAIL B
SEE NOTES 9 & 24
-031 ASSEMBLY



PARTIAL SECTION B-B

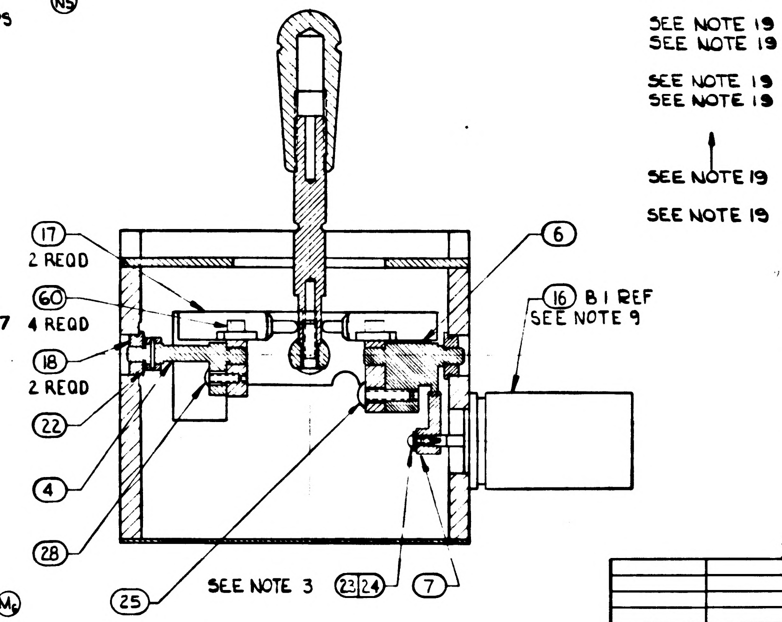
CONDUCTOR	FROM	STRIP	TIN	TO	STRIP	TIN	ITEM NO	LENGTH
B1-RED (P1)	B1-P1			TB1-2	.30	YES		8.00
B1-YEL (P2)	B1-P2			TB1-1	.30	YES		8.00
B1-BLK (P3)	B1-P3			TB1-1	.30	YES		8.00
B1-YEL (S2)	B1-S2			TB1-10	.30	YES		8.00
B1-BLU (S4)	B1-S4			TB1-8	.30	YES		8.00
B2-RED (P1)	B2-P1			TB1-3	.30	YES		5.25
B2-YEL (P2)	B2-P2			TB1-1	.30	YES		5.25
B2-BLK (P3)	B2-P3			TB1-1	.30	YES		5.25
B2-YEL (S2)	B2-S2			TB1-12	.30	YES		5.25
B2-BLU (S4)	B2-S4			TB1-4	.30	YES		5.25

SEE NOTE 20

T	T
S	S
R	R
P	P
N	N
SHEET 1	SHEET 2

REVISION STATUS OF SHEETS

PICTORIAL VIEWS SHOWN ON SHEET 1 ARE FOR THE -011 & -031 ASSEMBLIES.
PICTORIAL VIEWS SHOWN ON SHEET 2 ARE FOR THE -021 ASSEMBLY.



PARTIAL SECTION A-A

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
P		REVISED PER TDRR [illegible]		1 APR 65	JWP
R		REVISED PER TDRR 07970		MAY 64	JAG
S		REVISED PER TDRR 11524		24 AUG 64	JWP
T		REVISED PER TDRR 17040		12 APR 65	JW EF

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
E5		(E1) REPLACES REV D WITH CHANGE (E2) ADDED: 1014514, 1010618-3 (4 REQD), 1006776-11, 1000220-4, 1010316, 2 REQD) 1000220-6, 1000223, 2 REQD) 1010618-3, 2 REQD), 1006776-18, 1014540 & 1014522 (FOR REF) (E3) REMD 1000104-3 (8 REQD) (E4) 1010415-1 WAS 1010415, 1010608-1 WAS 1014508, 1010618-15 WAS 1000093-15, 1010618-6 WAS 1000093-6, 1010618-2, (11 REQD) WAS 1000093-2 8 REQD, 1010628-1 WAS 1000104-1, 1010618-1 (6 REQD) WAS 1000093-1 10 REQD). (E5) ADDED 1010606 (2 REQD)	TDRR 02425	25 JULY 63	WK
F7		(F1) NOTE 7 MIL-A-9067 WAS MIL-A-90676 (F2) REMD NOTE 14: TORQUE: 2.5 IN. LBS MAX (F3) NOTE 16 WAS 30 IN. LBS MAX (F4) NOTE 17 WAS 6.5 IN. LBS MAX (F5) NOTE 18 WAS 1.0 IN. LBS MAX (F6) IT. 44 WAS MIL-25457-A (F7) ADDED P/N 1010655-1 IT. 47	TDRR 03196	17 SEPT 63	WK
G6		REVISED PER TDRR NO. 03575		3 OCT 63	WK
H		REVISED PER TDRR NO. 04070		31 OCT 63	WK
J17		REVISED PER TDRR NO. 04838		13 DEC. 63	WK
K		REVISED PER TDRR NO. 04999		16 DEC 63	WK
L7		REVISED PER TDRR NO. 05719		28 JAN 64	WK
M9		REVISED PER TDRR NO. 06366		25 FEB 64	WK
N5		REVISED PER TDRR NO. 06539		3 MAR 64	WK

LIST OF PARTS AND MATERIALS

		031	021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
SEE NOTE 2		AR	–	–		77	1012503-2	POLYURETHANE POTTING COMPOUND
SEE NOTE 19		4	–	–		76	1010476-232	INSULATION SLEEVING
SEE NOTE 2		AR	–	–		75	1012503-1	POLYURETHANE POTTING COMPOUND
		–	1	–		74	1014538	COVER (INSEP ASSY)
		–	1	–		73	1014701	HOUSING ASSY, MATCHED MACHINED
		–	2	–		72	1014695	PLUNGER ASSY, TRUNNION AXIS
		–	2	–		71	MS35233-7	SCREW, MACHINE PAN HEAD
SEE NOTE 19		–	4	–		70	1011625-11	SCREW, CAP SOCKET HEAD
		AR	AR	AR		69	MIL-S-22473 GRADE C	SEALING COMPOUNDS, RETAINING
SEE NOTE 19		AR	AR	AR		68	1010750	CURING AGENT, POLYAMIDE (ES-2760)
		AR	AR	AR		67	1010749	FILLER, CALCIUM CARBONATE
		AR	AR	AR		66	1010748	RESIN, EPOXY (ES-2779)
SEE NOTE 19		AR	AR	AR		65	1010718	PRIMER, SILICONE ADHESIVE
		8	14	8		64	MS-15795-302	WASHER-FLAT
SEE NOTE 19		2	2	2		63	1011625-15	SCREW, CAP SOC. HD.
		2	–	2		62	NAS1352C02LL8	
SEE NOTE 19		4	4	4		61	1011625-13	
		4	–	4		60	NAS1352C02LL4	SCREW, CAP, SOC. HD.
		–	1	–		59	1014535	GEAR SECTOR 55T (FULL GEAR) 96P
		–	1	–		58	1014536	SHAFT, HANDLE
		–	2	–		57	1014694	PLUNGER ASSEMBLY SHAFT AXIS
		–	1	–		56	1014533	CAM, SECTOR
SEE NOTE 19		–	1	–		55	1010617-4	NUT-HEX SELF LOCKING
SEE NOTE 2		AR	AR	AR		54	MIL-M-7866	MOLYBDENUM DISULFIDE POWDER
SEE NOTE 19		–	AR	AR		53	1010490-082	INSULATION SLEEVING
		AR	AR	AR		52	MIL-T-713 TYPE P CLASS 2	TAPE
		AR	AR	AR		51	QQ-S-571, SN 10	SOLDER
SEE NOTE 19		2	2	2		50	1010606-1	INSULATOR SWITCH
		X	X	X		49	1014522	WIRING DIAGRAM
		X	X	X		48	1014540	SCHEMATIC DIAGRAM, ELEC
			~~AR~~	~~AR~~		~~46~~	~~MIL-S-40083 (ORD) CLASS 10~~	~~LIQUID LOCK (ES-2544-1)~~
			~~AR~~	~~AR~~		~~45~~	~~MIL-S-40083 (ORD) CLASS 30~~	~~LIQUID LOCK (ES-2544-5)~~
		AR	AR	AR		44	MIL-A-25457	ADHESIVE-SILICONE RUBBER (ES-2531)
			~~AR~~	~~AR~~		~~43~~	~~MIL-A-9067~~	~~EPOXY ADHESIVE (ES-2539-1)~~
		AR	AR	AR		42	MIL-F-14256 QQ-S-571	FLUX (ES-2798) FLUX-TYPE AR (ES-2175 TYPE 2)
		AR	AR	AR		41	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
SEE NOTE 19		AR	AR	AR		40	1006776-18	INSULATION SLEEVING ELEC
		1	1	1		39	1014521	WIRE LIST "AA"
		2	2	2		38	1010618-13	SCREW-BUTTON HD SELF LKG SOC HEX
		2	2	2		37	1011918-1	WASHER-CABLE CLAMP
		1	1	1		36	1000220-7	CLAMP-CABLE
		2	2	2		35	1010316	CAPACITOR, FIXED (SEE NOTE 8)
		1	1	1		34	1000220-4	CLAMP, CABLE
SEE NOTE 19		AR	AR	AR		33	1006776-11	INSULATION, SLEEVING ELEC
		1	1	1		32	1014514-011	COMPONENT BOARD ASSEMBLY
		6	6	6		30	1010618-1	SCREW-BUTTON HD SELF LKG SOC HEX
		8	8	8		29	1010628-1	SCREW-FLAT HD SELF LKG SOC HEX
SEE NOTE 19		7	7	7		28	1010618-2	SCREW-BUTTON HD SELF LKG SOC HEX
		4	4	4		27	MS-35649-24	NUT-HEX
SEE NOTE 19								
SEE NOTE 19		2	1	2		25	1010618-15	SCREW, BUTTON HD SELF LKG. SOC HEX
		4	4	4		24	MS-15795-701	WASHER-FLAT
SEE NOTE 19		4	4	4		23	1006783-1	SCREW, BUTTON HD, SOC HEX
SEE NOTE 19		1	1	1		22	1010608-1	WASHER-SPRING, CURVED
		6	6	6		21	NAS1352C04LL4	SCREW, CAP HD, SELF LKG. SOC HEX
		6	6	6		20	1010415-1	CLAMP-SYNCHRO MOUNTING
		2	2	2		19	1010435-001	SWITCH-SENSITIVE
SEE NOTE 19		4	4	4		18	1010418	BUSHING-FLANGED
		4	–	4		17	1014509-011	SPRING PLUNGER ASSY
SEE NOTE 19		2	2	2		16	1010429	SYNCHRO RESOLVER
		1	1	1		15	1014512	DIAPHRAGM-HAND CONTROLLER
		1	1	1		14	1014563	PLATE BOTTOM
		1	–	1		13	1014562	COVER ASSY (INSEP)
		2	–	2		12	1014576	SUPPORT, PLUNGER
		1	1	1		11	1014566	ACTUATOR, SHAFT SWITCH
		1	–	1		10	1014557	SHAFT, HANDLE
		1	1	1		9	1014575	HANDLE
		1	1	1		8	1014570	SHAFT
		2	2	2		7	1014573	GEAR, SECTOR 72T FULL GEAR 96P
		1	–	1		6	1014516	GEAR, SECTOR ASS'Y
		1	1	1		5	1014571	GEAR, SECTOR 55T FULL GEAR 96P
		1	1	1		4	1014574	SHAFT, ACTUATOR ASSEMBLY
		1	1	1		3	1014564	TERMINAL BOARD ASSEMBLY
		1	1	1		2	1014567	GIMBAL ASSEMBLY-MATCHED MACHINED
		1	–	1		1	1014559	HOUSING ASSEMBLY-MATCHED MACHINED

QUANTITY REQUIRED

NEXT ASSY	USED ON
1014578	1014578

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS +- -- DECIMALS ±.005 ±.02 ANGLES +- --
DO NOT SCALE THIS DRAWING

MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Murray DATE 10 JUL 63
CHECKED C. Wilson 19 Jul 63
APPROVAL E. Mertz 19 Jul 63
APPROVAL 19 July 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

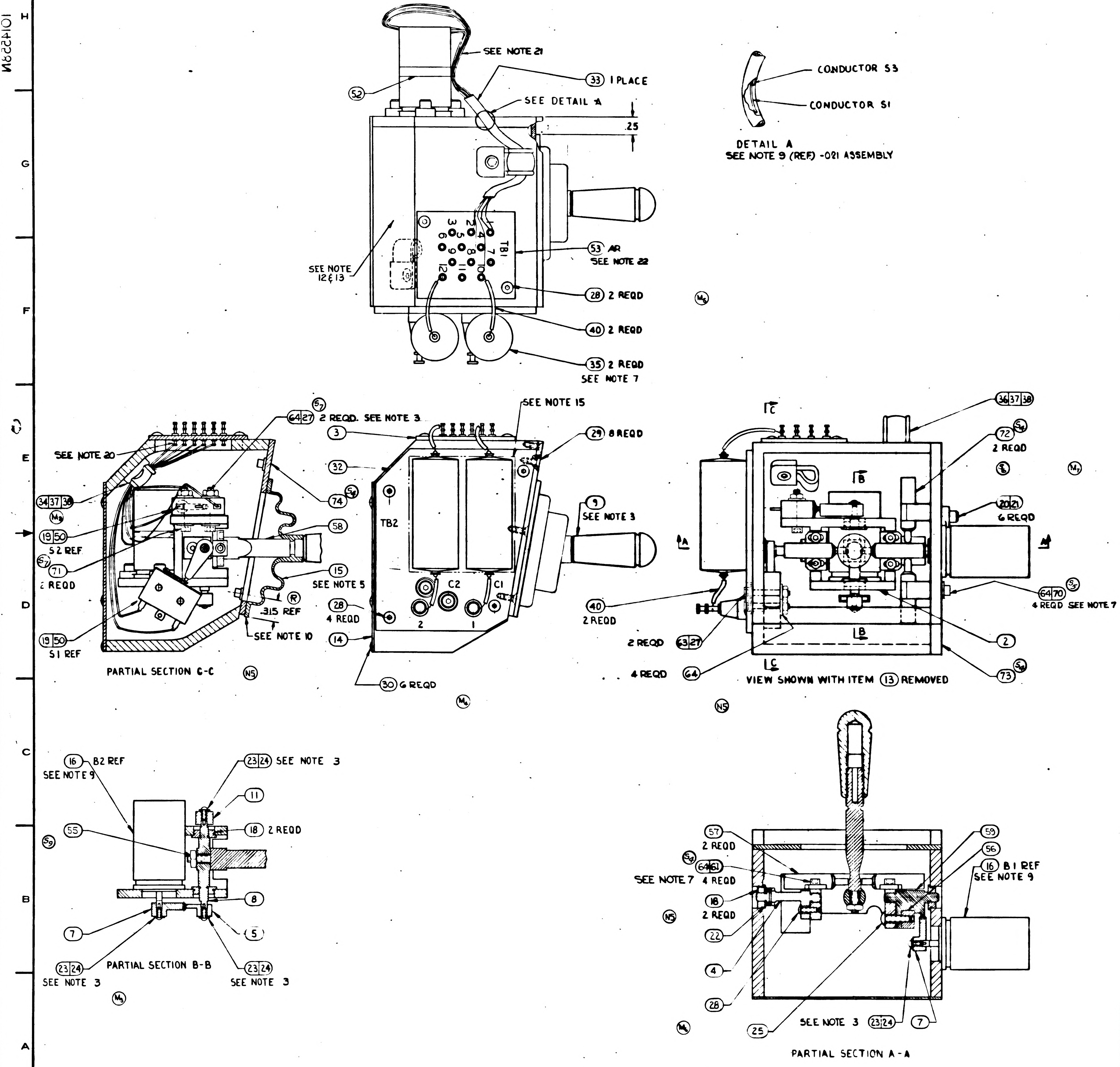
SEXTANT HAND CONTROLLER ASSEMBLY

CODE IDENT NO.
SIZE E
1014558
SCALE 2:1
SHEET 1 OF 2

1014558 T

REVISIONS TDRR #57

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPR
L		ADDED SHEET 2 THIS REV			
M9		REVISED PER TDRR NO. 06366		25 FEB 64	
N5		REVISED PER TDRR NO. 06539		3 MAR 64	
P		REVISED PER TDRR 07116		1 APR 64	
R		REVISED PER TDRR 07970		1 MAY 64	
S		REVISED PER TDRR 11524		24 JUL 64	
T		REVISED PER TDRR 17040		12 APR	


SEE NOTE 21
33 1 PLACE
52
SEE DETAIL A
.25
SEE NOTE 12 & 13
TB1
53 AR SEE NOTE 22
28 2 REQD
40 2 REQD
35 2 REQD SEE NOTE 7
CONDUCTOR S3
CONDUCTOR S1
DETAIL A
SEE NOTE 9 (REF) -021 ASSEMBLY
64 27 2 REQD. SEE NOTE 3
SEE NOTE 20
34 37 38
19 50 S2 REF
71 2 REQD
19 50 S1 REF
74
58
15 SEE NOTE 5
R .315 REF
SEE NOTE 10
PARTIAL SECTION C-C
SEE NOTE 15
3
32
29 8 REQD
9 SEE NOTE 3
TB2
C2
C1
28 4 REQD
14
30 6 REQD
36 37 38
72 2 REQD
20 21 6 REQD
64 70 4 REQD SEE NOTE 7
40 2 REQD
2 REQD 63 27
4 REQD 64
2
73
VIEW SHOWN WITH ITEM 13 REMOVED
16 B2 REF SEE NOTE 9
23 24 SEE NOTE 3
11
18 2 REQD
55
8
7
5
23 24 SEE NOTE 3
23 24 SEE NOTE 3
PARTIAL SECTION B-B
57 2 REQD
64 61 SEE NOTE 7 4 REQD
18 2 REQD
22
4
28
25
SEE NOTE 3 23 24
7
59
56
16 B1 REF SEE NOTE 9
PARTIAL SECTION A-A

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
2 PLACE DECIMALS ± —
3 PLACE DECIMALS ± —
ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

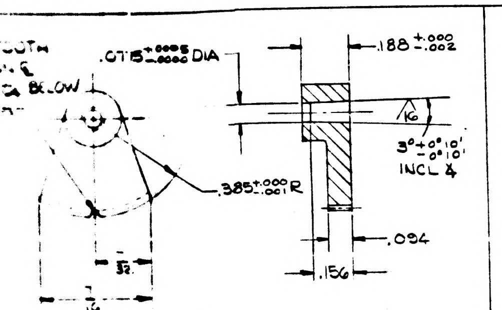
AC SPARK PLUG DIVISION GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN DeZenzo DATE 1/24
CHECKED Petrange 1-20-64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

SEXTANT HAND CONTROLLER
ASSEMBLY

CODE IDENT NO
SIZE E
1014558
SCALE 2 1
SHEET 2 OF 2

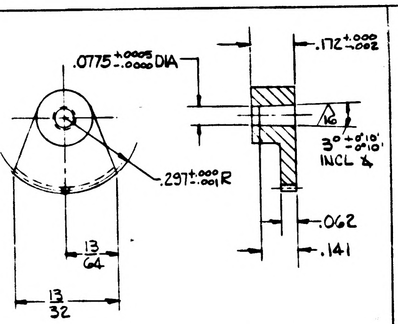
SYM	DESCRIPTION	DATE	APPROVAL
REVISIONS			



.0775 +.0005 -.0000 DIA
.188 +.000 -.002
16
3° +0°10' -0°10' INCL ∡
.385 +.000 -.001 R
.094
.156
1/32
7/16

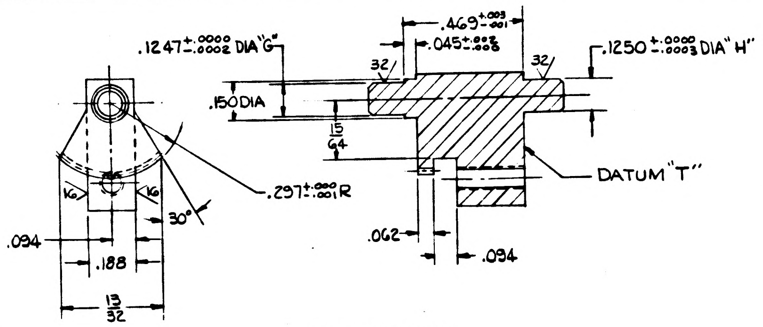
FIND 11 SCALE 4:1
72T(FULL GEAR) 96P

PRES ∠ 20°
CHECKING PRES 6OZ
TOOTH TO TOOTH COMP ERROR .0004MAX
TOTAL COMP ERROR .001



.0775 +.0005 -.0000 DIA
.172 +.000 -.002
16
3° +0°10' -0°10' INCL ∡
.297 +.000 -.001 R
.062
.141
13/64
13/32

FIND 9 SCALE 4:1
55T(FULL GEAR) 96P



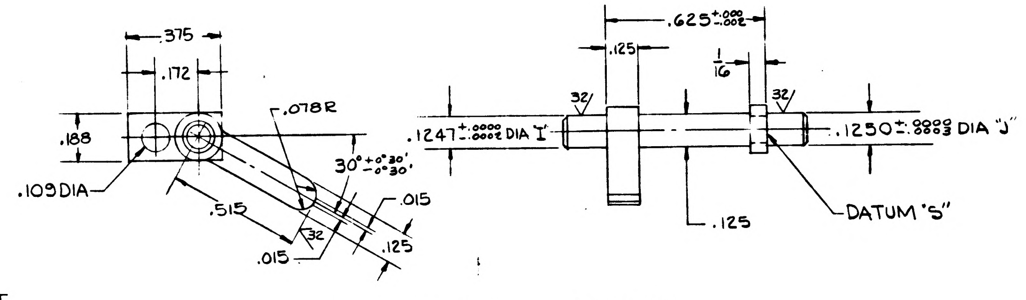
.1247 +.0000 -.0002 DIA "G"
.469 +.003 -.001
.045 +.002 -.000
32
32
.1250 +.0000 -.0003 DIA "H"
.150 DIA
15/64
DATUM "T"
16
16
30°
.297 +.000 -.001 R
.094
.188
13/32
.062
.094

FIND 10 SCALE
55T(FULL GEAR) 96P

TOTAL COMP ERROR .001
PRES ∠ 20°
CHECKING PRES 4 OZ
TOOTH TO TOOTH COMP ERROR .0004MAX
LOCATE TOOTH ON ℄ & MARK 1/64 BELOW ROOT DIA

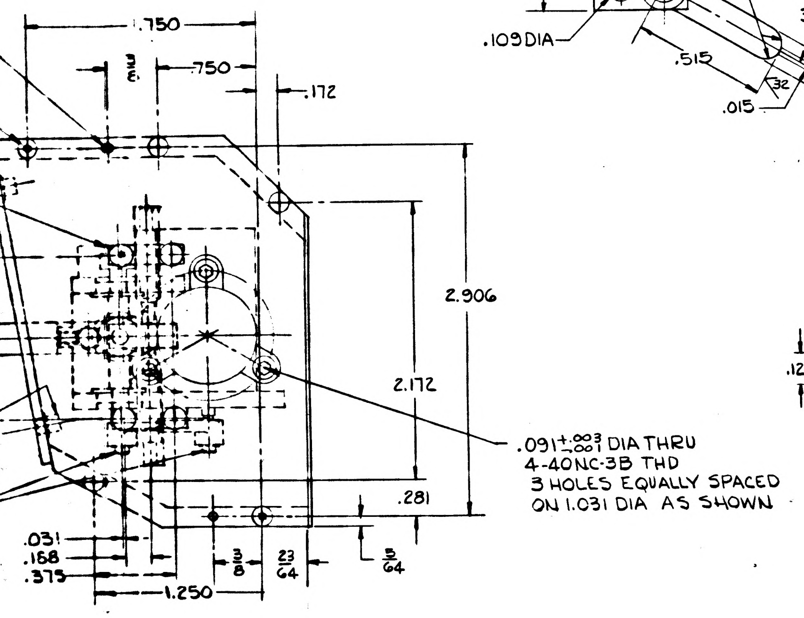
FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00479 DATE 6 MAR 1963

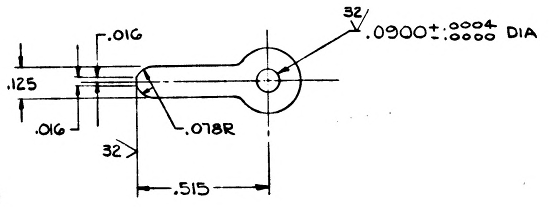


.375
.172
.188
.109 DIA
.078R
30° +0°30' -0°30'
.515
.015
.015
32
.125
.625 +.000 -.002
.125
1/16
32
32
.1247 +.0000 -.0002 DIA "I"
.1250 +.0000 -.0003 DIA "J"
.125
DATUM "S"

FIND 12 SCALE 4:1



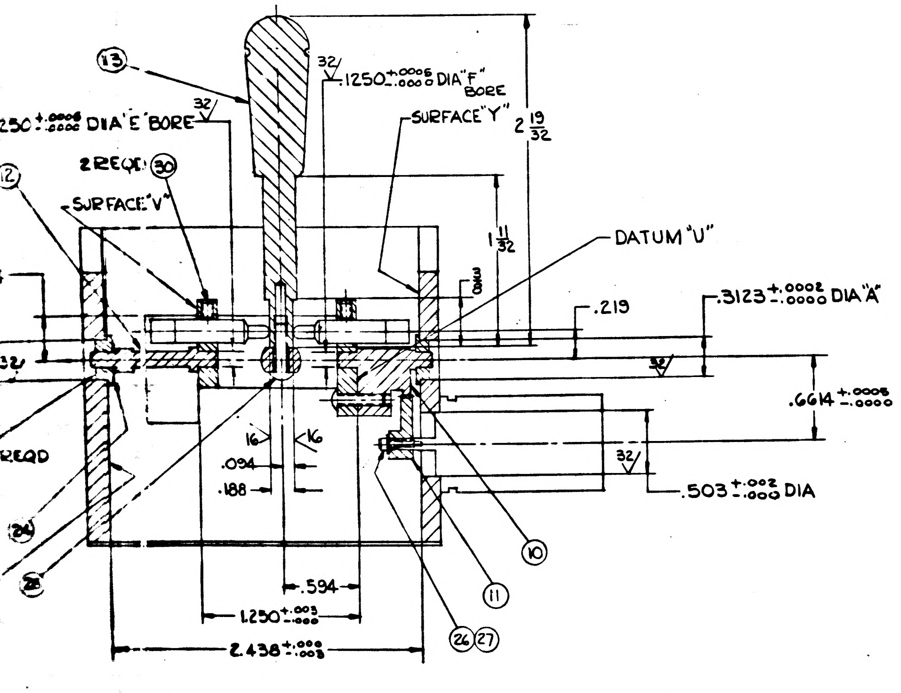
1.750
.750
.172
2.906
2.172
.281
.091 +.003 -.001 DIA THRU
4-40NC-3B THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA AS SHOWN
.031
.168
.375
1.250
3/8
23/64
5/64



.016
.125
.016
32
.0900 +.0004 -.0000 DIA
.078R
32
.515

FIND 14 SCALE 4:1

NOTES
1. ALL ALUMINUM PARTS MIL-A-8625 TYPE I.
2. ALL STAINLESS STEEL PARTS MIL-F-14072(SIG C) FIN E 300.
3. DIA'S A&B PERPENDICULAR TOLERANCE .002 DIA DATUM "Z".
4. SURFACE "Y" PARALLEL TOLERANCE .002 DATUM "Z".
5. DIA'S C&D PERPENDICULAR TOLERANCE .002 DIA DATUM "X"
6. SURFACE "W" PARALLEL TOLERANCE .002 DATUM "X".
7. DIA'S E&F PERPENDICULAR TOLERANCE .002 DIA DATUM "U".
8. SURFACE "V" PARALLEL TOLERANCE .002 DATUM "U".
9. DIA'S G&H PERPENDICULAR TOLERANCE .001 DIA DATUM "T".
10. DIA'S I&J PERPENDICULAR TOLERANCE .001 DIA DATUM "S".



13
32
.1250 +.0005 -.0000 DIA "F" BORE
.1250 +.0005 -.0000 DIA "E" BORE
32
SURFACE "Y"
2 19/32
2 REQD 30
12
SURFACE "V"
1 11/32
DATUM "U"
.219
.3123 +.0002 -.0000 DIA "A"
32
.6614 +.0005 -.0000
32
.503 +.002 -.000 DIA
16
16
.094
.188
REQD
24
28
10
11
26 27
.594
1.250 +.003 -.000
2.438 +.000 -.003

PARTIAL SECTION A-A

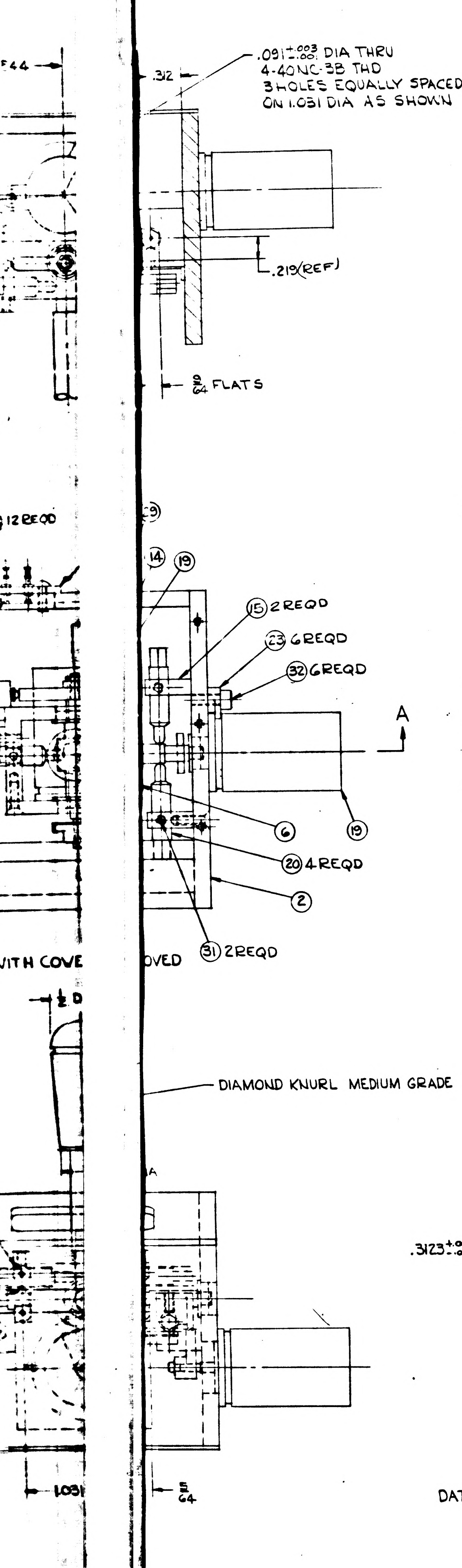
FIND NO.	QUAN			PART NO.	DESCRIPTION	MATERIAL	REMARKS
38	4				NUT-FLUSH MOUNTED CLINCH		KAYNAR MFG CO K7000-02-6 ACSK 8599692-008
37	4				NUT HEX		#2-56NC-3B ACSK 8599166-002
36	6			1000093-1	SCREW BUTTON HD		#2-56NC-3A x 3/16 LG
35	8			1000104-1	SCREW FLAT HD		#2-56NC-3A x 3/16 LG
34	2			1000093-2	SCREW BUTTON HD		#2-56NC-3A x 1/4 LG
33	4			1000093-6	SCREW BUTTON HD SELF LOCKING SOCKET HEX		#2-56NC-3A x 1/2 LG
32	6				SCREW-CAP HD SELF LOCKING SOCKET HEX		LONG LOK #4-40NC-3A x 1/4 LG
31	2				SCREW-SET SELF LOCKING SOCKET HEX		LONG LOK #2-56NC3A x 3/16 LG
30	2				SCREW-SET SELF LOCKING SOCKET HEX		LONG LOK #2-56NC3A x 1/8 LG
7	4			10100104-3	SCREW FLAT HD SELF LOCKING SOCKET HEX		
29	1				NUT-SELFLOCKING		ACSK 8697507-002
28	1			1000093-15	SCREW BUTTON HD SELF LOCKING SOCKET HEX		#4-40NC 3A x 3/8 LG
27	3				WASHER FLAT	QQ-A-318 TEMPER H32	.156 O.D. .062 I.D. .016 THK ACSK 8697292-100
26	3				SCREW CAP HD SOCKET HEX		#0-80NF3A x 1/8 LG
24	1				SPRING WASHER		ASSOCIATED SPRING CORP BRISTOL, CONN
23	6				CLAMPS-MOUNTING		STERLING PT NO. C-2 PORT WASHINGTON L.I. NY
22	2				SWITCH BASIC		MICRO 1HM1
21	4				BEARING-FLANGED		SIAMCO PT NO. B165 36-11 3RD ST L.I.C. NY
20	4				SPRING PLUNGER		VLIER ENG CORP 553-026-03 ALTERED 9/64 FLATS
19	2				SYNCHRO RESOLVER		
18	1				PLATE-BOTTOM	QQ-A-355 TEMPER T-3	
17	1				COVER	QQ-A-355 TEMPER T-3	
15	1				SUPPORT-PLUNGER	↑	
14	1				ACTUATOR		
13	1				HANDLE		
12	1				SHAFT & ACTUATOR		
11	2				GEAR, SECTOR 72T 96P		
10	1				GEAR, SECTOR WITH INTREGAL SHAFT 55T 96P		
9	1				GEAR, SECTOR 55T 96P		
8	1				SHAFT	QQ-S-763 CLASS 303 OR 303SE COND A CF	
25		12			TERMINAL STUD FEED THRU		ACSK 7926096-011
16		1			TERMINAL BOARD	MIL-P-18177	
	1				TERMINAL BOARD ASSY		
4		2			PIN-STRAIGHT		
7		4		1000104-3	SCREW-FLAT HD SELF LOCKING SOCKET HEX		#2-56NC-3A x 5/16 LG
6		1			PLATE-GIMBAL	QQ-A-355 TEMPER T-3	
5		1			GIMBAL	QQ-A-268 TEMPER T-4	
	1				GIMBAL ASSY		
4		2			PIN-STRAIGHT	QQ-S-763 CLASS 303 OR 303SE COND A, CF	1/16 DIA x 3/16 LG ACSK 8599186-030
3		5		1000104-4	SCREW FLAT HD SELF LOCKING SOCKET HEX		#2-56NC-3A 3/8 LG
2		1			PLATE	QQ-A-355 TEMPER T-3	
1		1			HOUSING	QQ-A-268 TEMPER T-4	
	1				HOUSING ASSY		

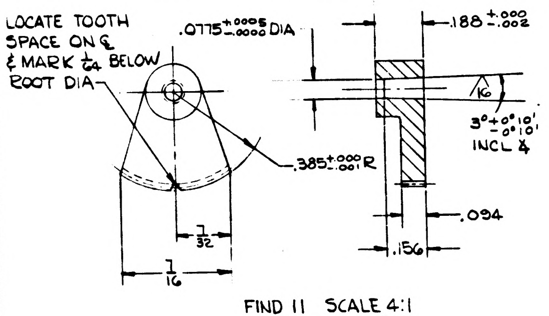
LIST OF MATERIALS

1014558

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 1° DO NOT SCALE THIS DRAWING	MIT INSTRUMENTATION LAB CAMBRIDGE MASS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
APPLICATION		MATERIAL	DRAWN J A LIMA DATE 3-4-63	SEXTANT HAND CONTROLLER ASSY
		HEAT TREATMENT	CHECKED	
		FINAL FINISH SEE NOTES 1 & 2	APPROVAL 3-4-63	CODE IDENT NO.
			APPROVAL Tentative by [illegible] TDRR # 00479	SIZE
			NASA APPROVAL 3/6/63	NASA DRAWING NO 1014558
			MIT APPROVAL	SCALE 2:1 WT SHEET OF

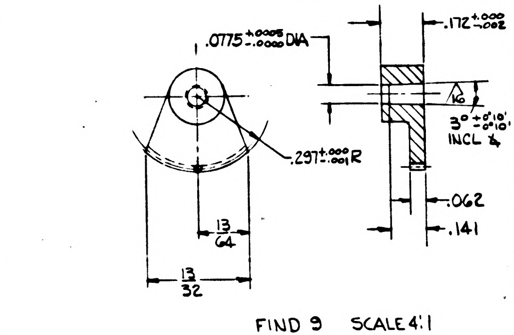
MASTER


F44
.312
.091 +.003 -.001 DIA THRU
4-40NC-3B THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA AS SHOWN
.219(REF)
3/64 FLATS
12 REQD
(9)
(14)
(19)
(15) 2 REQD
(23) 6REQD
(32) 6REQD
A
(6)
(19)
(20) 4 REQD
(2)
(31) 2REQD
WITH COVE
OVED
1/2 D
DIAMOND KNURL MEDIUM GRADE
LOSI
5/64

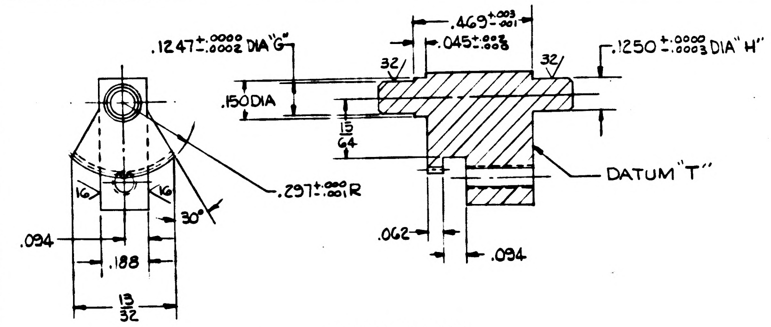

LOCATE TOOTH SPACE ON ℄ & MARK 1/64 BELOW ROOT DIA
.0775 +.0005 -.0000 DIA
.188 +.000 -.002
16
3° +0°10' -0°10' INCL ∠
.385 +.000 -.001 R
7/32
.094
7/16
.156

FIND 11 SCALE 4:1
72T(FULL GEAR) 96P

PRES ∠ 20°
CHECKING PRES 6 OZ
TOOTH TO TOOTH COMP ERROR .0004 MAX
TOTAL COMP ERROR .001


.0775 +.0005 -.0000 DIA
.172 +.000 -.002
16
3° +0°10' -0°10' INCL ∠
.297 +.000 -.001 R
.062
.141
13/64
13/32

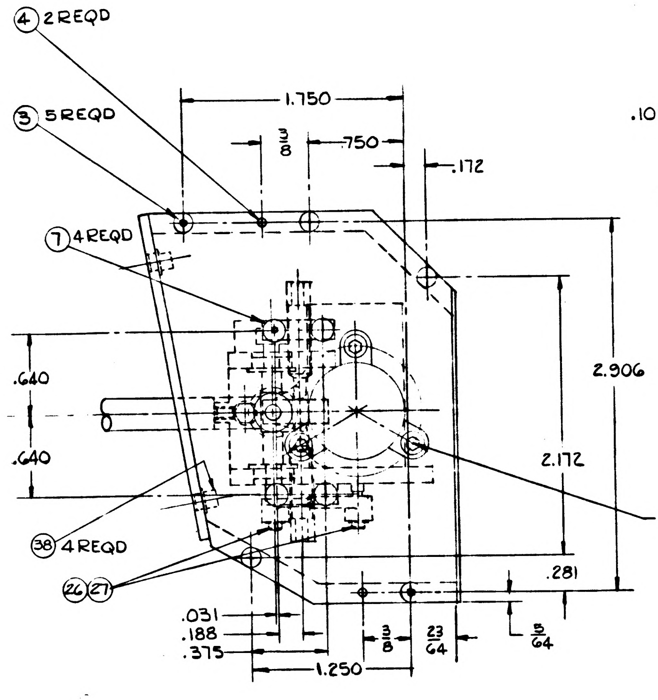
FIND 9 SCALE 4:1
55T(FULL GEAR) 96P

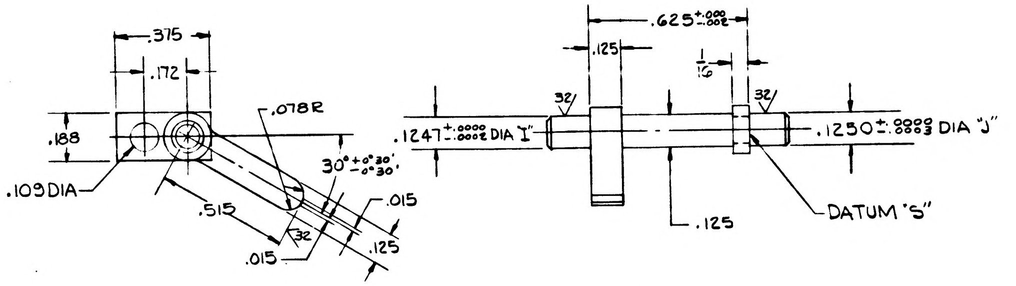

.1247 +.0000 -.0002 DIA "G"
.469 +.003 -.001
.045 +.002 -.003
32
32
.1250 +.0000 -.0003 DIA "H"
.150 DIA
15/64
DATUM "T"
16
16
30°
.297 +.000 -.001 R
.094
.188
13/32
.062
.094

FIND 10 SCALE
55T(FULL GEAR) 96P

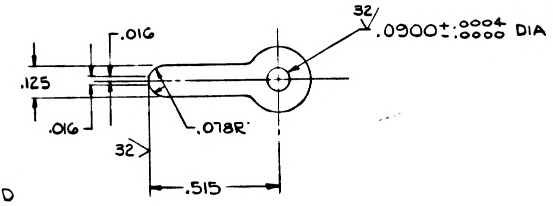
TOTAL COMP ERROR .001
PRES ∠ 20°
CHECKING PRES 4 OZ
TOOTH TO TOOTH COMP ERROR .0004 MAX
LOCATE TOOTH ON ℄ & MARK 1/64 BELOW ROOT DIA

FOR INFORMATION ONLY
CLASS B RELEASE TDR No. 00479 DATE 6 MAR 1963


(4) 2 REQD
(5) 5 REQD
(7) 4 REQD
(38) 4 REQD
(26)(27)
1.750
3/8
.750
.172
2.906
2.172
.640
.640
.281
.031
.188
.375
3/8
23/64
5/64
1.250
.091 +.003 -.001 DIA THRU
4-40NC-3B THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA AS SHOWN

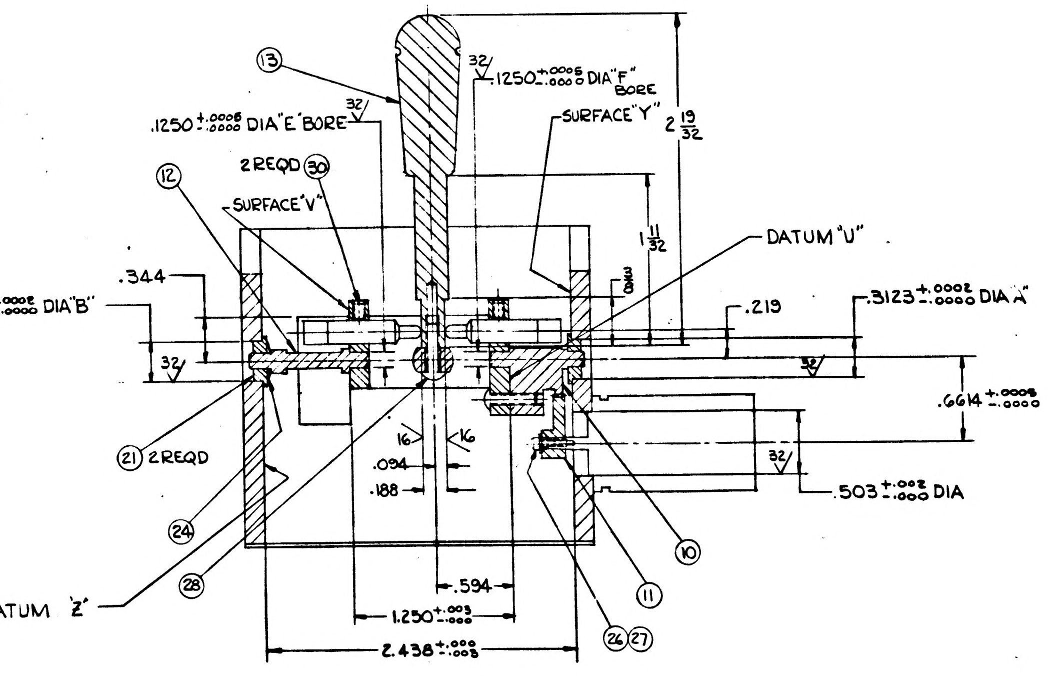

.375
.172
.078R
.188
.109 DIA
30° +0°30' -0°30'
.515
.015
.015
32
.125
.625 +.000 -.002
.125
1/16
32
32
.1247 +.0000 -.0002 DIA "I"
.1250 +.0000 -.0002 DIA "J"
.125
DATUM "S"

FIND 12 SCALE 4:1


.016
.125
.016
32
.0900 +.0004 -.0000 DIA
.078R
32
.515

FIND 14 SCALE 4:1

NOTES
1. ALL ALUMINUM PARTS MIL-A-8625 TYPE I.
2. ALL STAINLESS STEEL PARTS MIL-F-14072(SIG C) FIN E 300.
3. DIA'S A&B PERPENDICULAR TOLERANCE .002 DIA DATUM "Z".
4. SURFACE "Y" PARALLEL TOLERANCE .002 DATUM "Z".
5. DIA'S C&D PERPENDICULAR TOLERANCE .002 DIA DATUM "X"
6. SURFACE "W" PARALLEL TOLERANCE .002 DATUM "X".
7. DIA'S E&F PERPENDICULAR TOLERANCE .002 DIA DATUM "U".
8. SURFACE "V" PARALLEL TOLERANCE .002 DATUM "U".
9. DIA'S G&H PERPENDICULAR TOLERANCE .001 DIA DATUM "T".
10. DIA'S I&J PERPENDICULAR TOLERANCE .001 DIA DATUM "S".


(13)
32
.1250 +.0005 -.0000 DIA "F" BORE
.1250 +.0005 -.0000 DIA "E" BORE
32
SURFACE "Y"
2 19/32
2 REQD (30)
(12)
SURFACE "V"
1 11/32
3/8
DATUM "U"
.344
.3123 +.0002 -.0000 DIA "B"
.219
.3123 +.0002 -.0000 DIA "A"
32
32
.6614 +.0005 -.0000
16
16
.094
.188
32
.503 +.002 -.000 DIA
(21) 2 REQD
(24)
(28)
(10)
(11)
(26)(27)
DATUM "Z"
.594
1.250 +.003 -.003
2.438 +.003 -.003

PARTIAL SECTION A-A

MASTER

FIND NO.	QUAN			PART NO.	DESCRIPTION	MATERIAL	
38	4				NUT-FLUSH MOUNTED CLINCH		KAYNAR K1000-
37	4				NUT HEX		#2-56
36	6			1000093-1	SCREW BUTTON HD		#2-56
35	8			1000104-1	SCREW FLAT HD		#2-5
34	2			1000093-2	SCREW BUTTON HD		#2-5
33	4			1000093-6	SCREW BUTTON HD SELF LOCKING SOCKET HEX		#2-56
32	6				SCREW-CAP HD SELF LOCKING SOCKET HEX		LONG
31	2				SCREW-SET SELF LOCKING SOCKET HEX		LONG
30	2				SCREW-SET SELF LOCKING SOCKET HEX		LONG
7	4			10100104-3	SCREW FLAT HD SELF LOCKING SOCKET HEX		
29	1				NUT-SELF LOCKING		ACSK
28	1			1000093-15	SCREW BUTTON HD SELF LOCKING SOCKET HEX		#4-40
27	3				WASHER FLAT	QQ-A-318 TEMPER H32	.156 OD ACSK
26	3				SCREW CAP HD SOCKET HEX		#0-80
24	1				SPRING WASHER		ASSOC BRIST
23	6				CLAMPS-MOUNTING		STER PORT
22	2				SWITCH BASIC		MICRO
21	4				BEARING-FLANGED		[illegible]
20	4				SPRING PLUNGER		[illegible]
19	2				SYNCHRO RESOLVER		
18	1				PLATE-BOTTOM	QQ-A-355 TEMPER T-3	
17	1				COVER	QQ-A-355 TEMPER T-3	
15	1				SUPPORT-PLUNGER		
14	1				ACTUATOR		
13	1				HANDLE		
12	1				SHAFT & ACTUATOR		
11	2				GEAR, SECTOR 72T 96P		
10	1				GEAR, SECTOR WITH INTREGAL SHAFT 55T 96P		
9	1				GEAR, SECTOR 55T 96P		
8	1				SHAFT	QQ-S-763 CLASS 303 OR 303SE COND A CF	
25		12			TERMINAL STUD FEED THRU		ACSK
16		1			TERMINAL BOARD	MIL-P-18177	
	1				TERMINAL BOARD ASSY		
4		2			PIN-STRAIGHT		
7		4		1000104-3	SCREW-FLAT HD SELF LOCKING SOCKET HEX		#2-
6		1			PLATE-GIMBAL	QQ-A-355 TEMPER T-3	
5		1			GIMBAL	QQ-A-268 TEMPER T-4	
	1				GIMBAL ASSY		
4		2			PIN-STRAIGHT	QQ-S-763 CLASS 303 OR 303SE COND A, CF	
3		5		1000104-4	SCREW FLAT HD SELF LOCKING SOCKET HEX		#2-
2		1			PLATE	QQ-A-355 TEMPER T-3	
1		1			HOUSING	QQ-A-268 TEMPER T-4	
	1				HOUSING ASSY		

LIST OF MATERIALS

NEXT ASSY | USED ON
APPLICATION

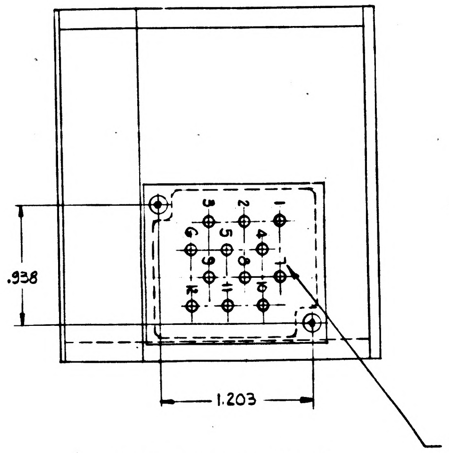
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH
SEE NOTES 1&2

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN Ta Luna DATE 3-4-63
CHECKED
APPROVAL 3-4-63
APPROVAL Tentative by Jim Nevins see TDR # 00479
NASA APPROVAL 3/6/63
MIT APPROVAL

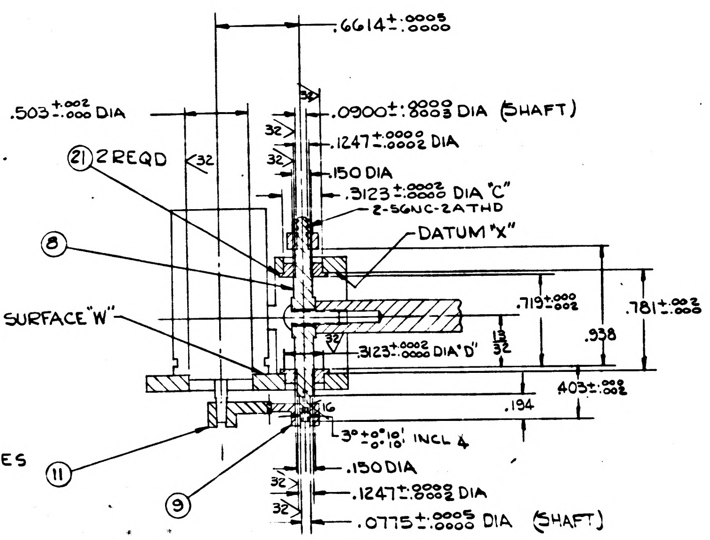
MANNED SPACE
HOUSTON

SEXTANT HAND
ASSY

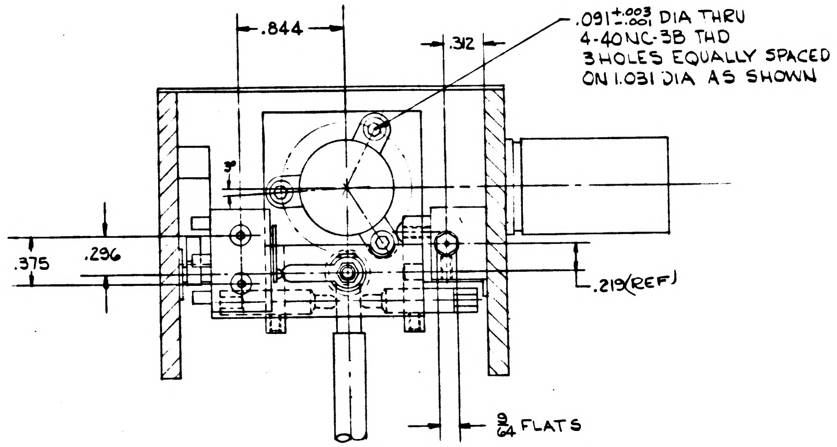
CODE IDENT NO.
101
SCALE 2:1
WT

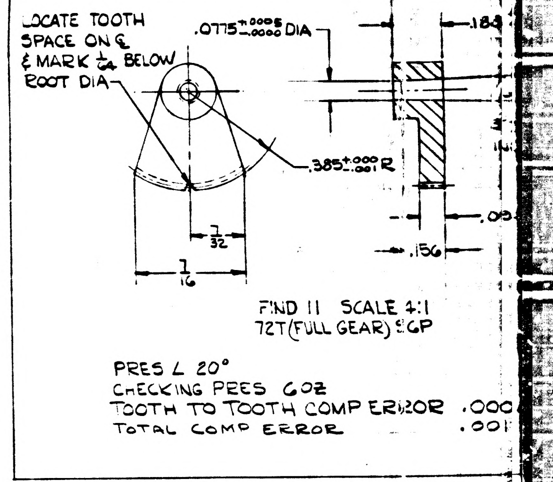

.938
1.203
MARK BOTH SIDES OF BOARD

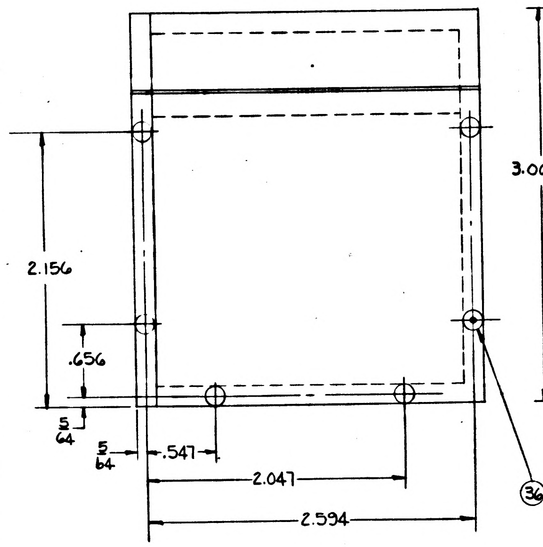
PARTIAL VIEW B-B

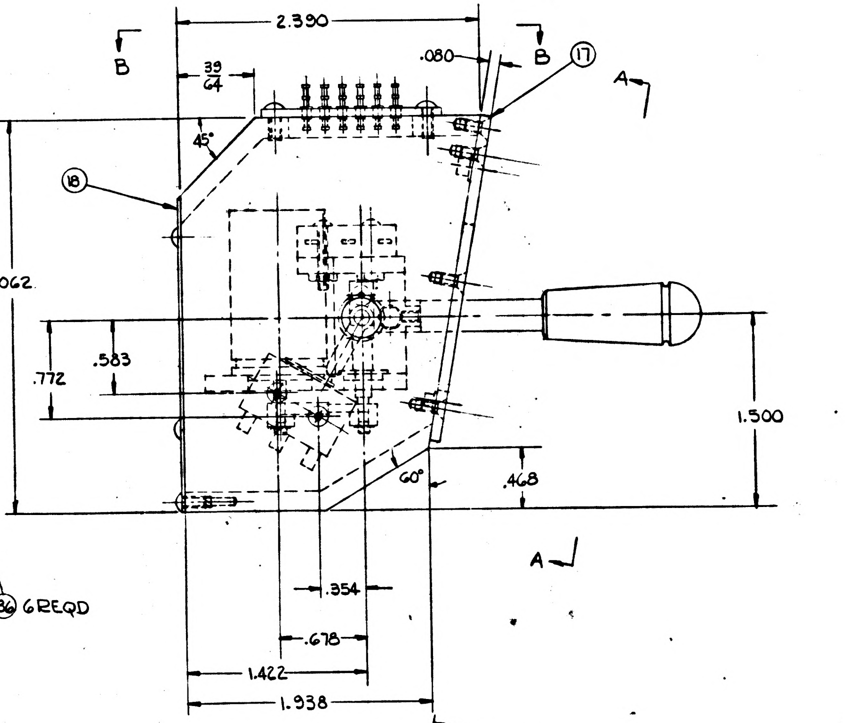

.6614±.0005/.0000
.503+.002/-.000 DIA
.0900±.0000/.0003 DIA (SHAFT)
.1247±.0000/.0002 DIA
21 2 REQD
.150 DIA
.3123±.0002/.0000 DIA "C"
2-56NC-2A THD
DATUM "X"
8
.719±.000/.002
.781±.002/.000
SURFACE "W"
.3123±.0002/.0000 DIA "D"
.938
.403±.002/.002
.194
11
3°±0°10'/0°10' INCL 4
.150 DIA
9
.1247±.0002/.0000 DIA
.0775±.0005/.0000 DIA (SHAFT)

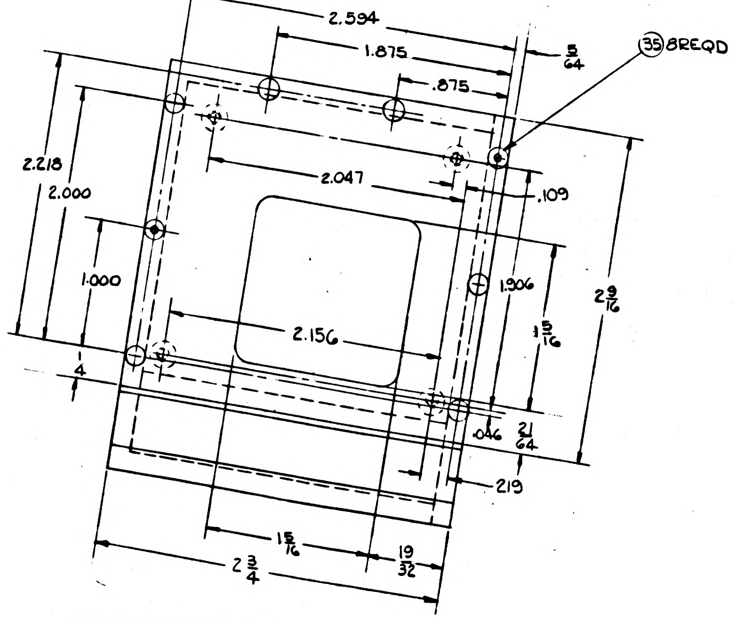
PARTIAL SECTION B-B


.844
.312
.091±.003/.001 DIA THRU
4-40NC-3B THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA AS SHOWN
.375
.296
.219 (REF)
9/64 FLATS

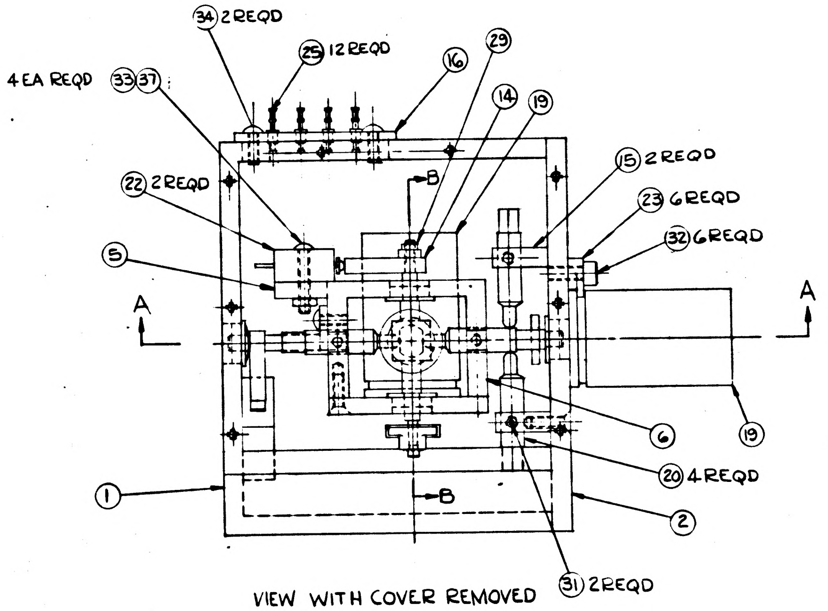

LOCATE TOOTH SPACE ON ℄ & MARK 1/64 BELOW ROOT DIA
.0775±.0005/.0000 DIA
.385±.000/.001 R
7/32
7/16
.156
FIND 11 SCALE 4:1
72T (FULL GEAR) 56P
PRES ∠ 20°
CHECKING PRES 6 OZ
TOOTH TO TOOTH COMP ERROR .000
TOTAL COMP ERROR .001


2.156
.656
5/64
5/64
.547
2.047
2.594
36 6 REQD

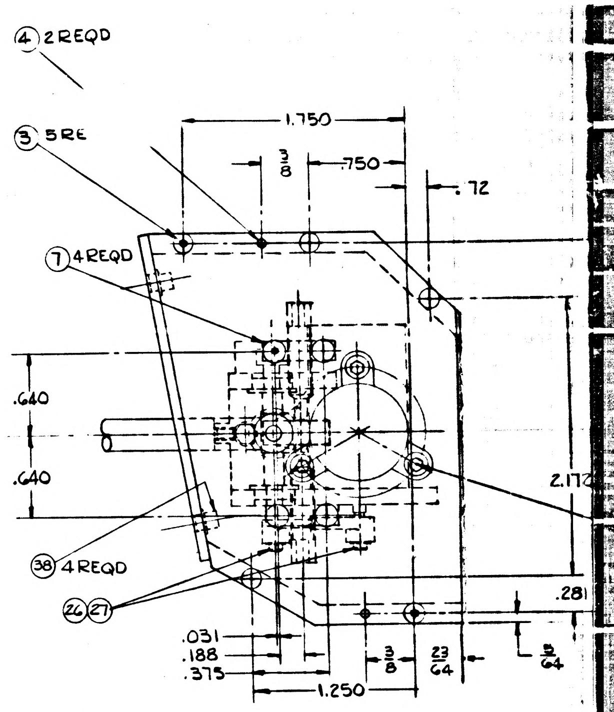

B
2.390
39/64
.080
B
17
A
45°
18
3.062
.583
.772
1.500
60°
.468
A
.354
.678
1.422
1.938

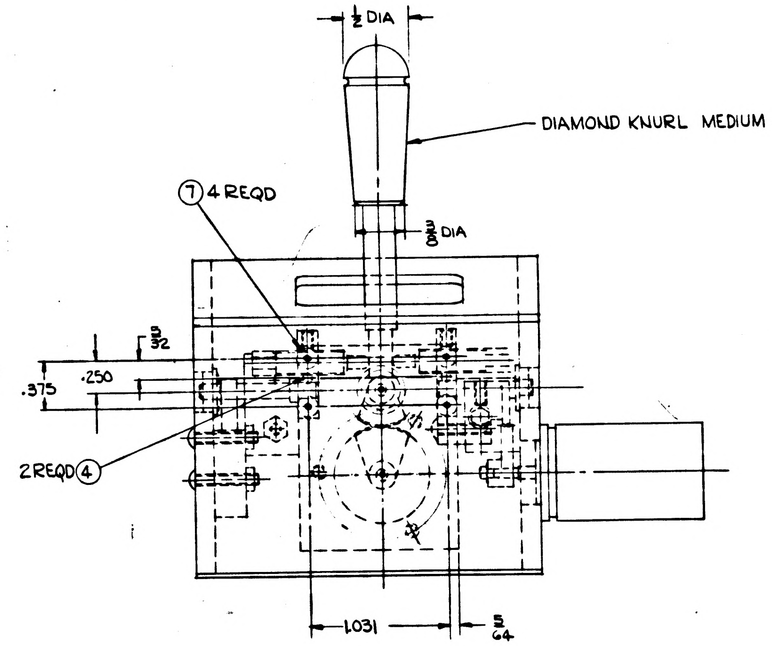

2.594
1.875
.875
5/64
35 8 REQD
2.218
2.000
2.047
.109
1.000
1.906
2 9/16
1 5/16
2.156
4
.046
21/64
.219
1 5/16
19/32
2 3/4

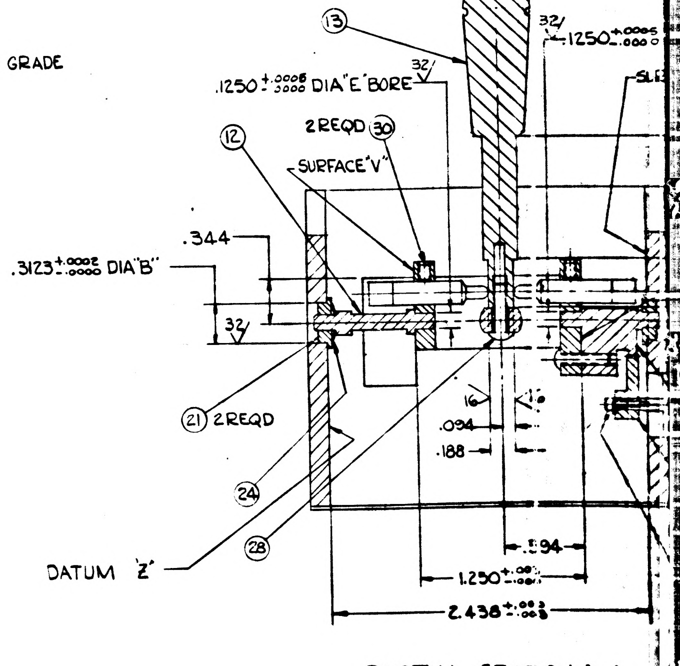
PARTIAL VIEW A-A


34 2 REQD
25 12 REQD
16
29
4 EA REQD 33 37
14
19
15 2 REQD
22 2 REQD
23 6 REQD
32 6 REQD
5
A
A
B
6
19
20 4 REQD
1
B
2
31 2 REQD

VIEW WITH COVER REMOVED


4 2 REQD
3 5 RE
1.750
3/8
.750
.72
7 4 REQD
.640
.640
2.17
38 4 REQD
26 27
.281
.031
.188
.375
3/8
23/64
5/64
1.250


1/2 DIA
DIAMOND KNURL MEDIUM GRADE
7 4 REQD
3/8 DIA
3/32
.375
.250
2 REQD 4
1.031
5/64


13
.1250+.0005/-.0000 DIA "E" BORE
2 REQD 30
12
SURFACE "V"
.344
.3123±.0002/.0000 DIA "B"
21 2 REQD
.094
.188
24
28
DATUM "Z"
.594
1.250±.001
2.438±.002

PARTIAL SECTION A-A

③

APOLLO G&N Specification
PS-1014558
17 December 63
Class A Release
TDRR 05258

PROCUREMENT SPECIFICATION

FOR

SEXTANT HAND CONTROLLER ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page i to iii and 1 to 4 inclusive.

APOLLO G&N Specification
PS-1014558
17 December 63

PROCUREMENT SPECIFICATION

FOR

SEXTANT HAND CONTROLLER ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the Sextant Hand Controller Assembly for use in the APOLLO Guidance and Navigation Equipment.

12/17/63
MIT/IL DATE

12/17/63
NASA/MSC APPROVAL DATE

APOLLO G&N Specification
PS-1014558
17 December 63

PROCUREMENT SPECIFICATION

FOR

SEXTANT HAND CONTROLLER ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the Sextant Hand Controller Assembly, Drawing 1014558, hereinafter called the controller.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of invitation for bids form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014558	Final Test Method for Sextant Hand Controller Assembly

DRAWINGS

APOLLO G&N

1014540	Sextant Hand Controller, Schematic Diagram (For Reference Only)
1014558	Sextant Hand Controller Assembly

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

UNLESS OTHERWISE SPECIFIED:
ALL CORNERS TO HAVE .005 -.015 R OR CHAMFER.
SURFACE ROUGHNESS SHALL NOT EXCEED $\sqrt{63}$.

MUST BE FREE FROM BURRS.

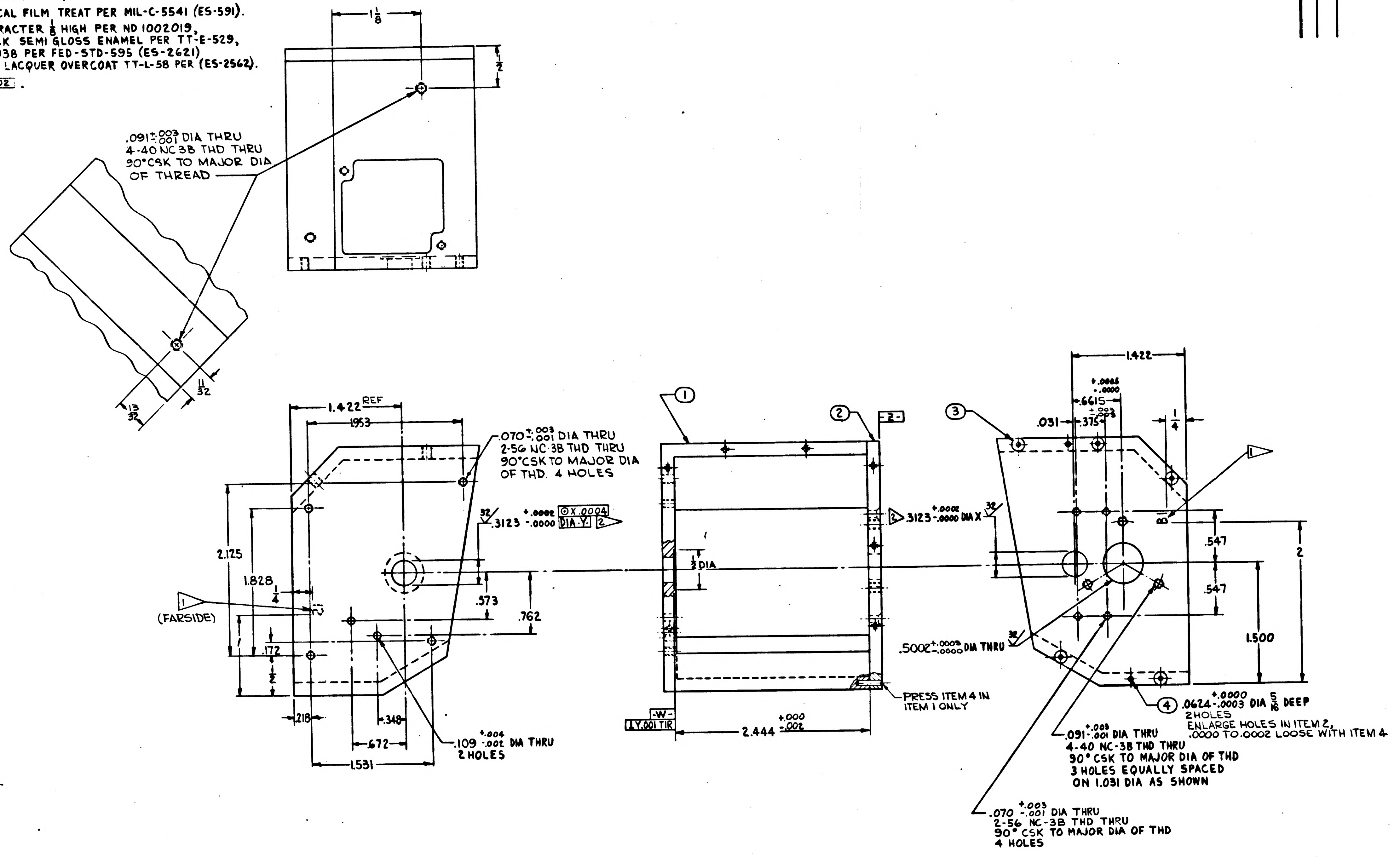
IDENTIFY USING PART NO. & REVISION LETTER,
PER MIL-STD-130 (ES-267).

FINISH: CHEMICAL FILM TREAT PER MIL-C-5541 (ES-591).

1 > STENCIL CHARACTER 1/8 HIGH PER ND 1002019,
COLOR, BLACK SEMI GLOSS ENAMEL PER TT-E-529,
C. A, NO 27038 PER FED-STD-595 (ES-2621)
CLEAR FLAT LACQUER OVERCOAT TT-L-58 PER (ES-2562).

2 > DIA XY ⊥ Z .002 .

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS "A" RELEASE	TDRR 16[illegible] 21942	4 JUN 63	[illegible]



1 1/8
1/2
.091 +.003 -.001 DIA THRU
4-40 NC 3B THD THRU
90° CSK TO MAJOR DIA
OF THREAD
11/32
13/32
1.422 REF
1.953
.070 +.003 -.001 DIA THRU
2-56 NC 3B THD THRU
90° CSK TO MAJOR DIA
OF THD. 4 HOLES
32
.3123 +.0002 -.0000
◎ X .0004
DIA -Y-
2
2.125
1.828
1/4
1
(FARSIDE)
.573
.762
.172
1/2
.218
.348
.672
1.531
.109 +.004 -.002 DIA THRU
2 HOLES
①
②
-Z-
1/2 DIA
-W-
⊥ Y .001 TIR
2.444 +.000 -.002
PRESS ITEM 4 IN
ITEM 1 ONLY
2 > .3123 +.0002 -.0000 DIA X
.5002 +.0003 -.0000 DIA THRU
③
1.422
.6615 +.0005 -.0000
.031
.375 ±.003
1/4
1
.547
.547
2
1.500
④ .0624 +.0000 -.0003 DIA 5/16 DEEP
2 HOLES
ENLARGE HOLES IN ITEM 2,
.0000 TO .0002 LOOSE WITH ITEM 4
.091 +.003 -.001 DIA THRU
4-40 NC-3B THD THRU
90° CSK TO MAJOR DIA OF THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA AS SHOWN
.070 +.003 -.001 DIA THRU
2-56 NC-3B THD THRU
90° CSK TO MAJOR DIA OF THD
4 HOLES

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
4	2	MS-16555-603	PIN STRAIGHT
3	5	1010628-3	SCREW FT HD SELF LKG SOC HEX
2	1	1014561	PLATE, SIDE
1	1	1014560	HOUSING

LIST OF PARTS AND MATERIALS

1014559 C

NEXT ASSY	USED ON
1014558	1014558

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ 1/64	+.005	+ 1°
- 1/64	-.005	- 1°

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN J. Korosin DATE 20 MAR 63
CHECKED [illegible] 5 APR 63
APPROVAL E. MERTZ 16 APR 63
APPROVAL [illegible] 16 APR 63
NASA APPROVAL Jack Barnard
MIT APPROVAL M. Trageser 7/1/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HOUSING
SEXTANT HAND CONTROLLER
MATCH MACHINED
ASSEMBLY

CODE IDENT NO.
SIZE E
1014559
SCALE 2:1
SHEET

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS 'A' RELEASE	TDRR 1668 C1942	7 JUN 63	KH
D	H-8	① REVISED NOTE ▷1. TDRR 2634		21 AUG 63	JH

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

UNLESS OTHERWISE SPECIFIED:
ALL CORNERS TO HAVE .005 -.015 R OR CHAMFER.
SURFACE ROUGHNESS SHALL NOT EXCEED 63.

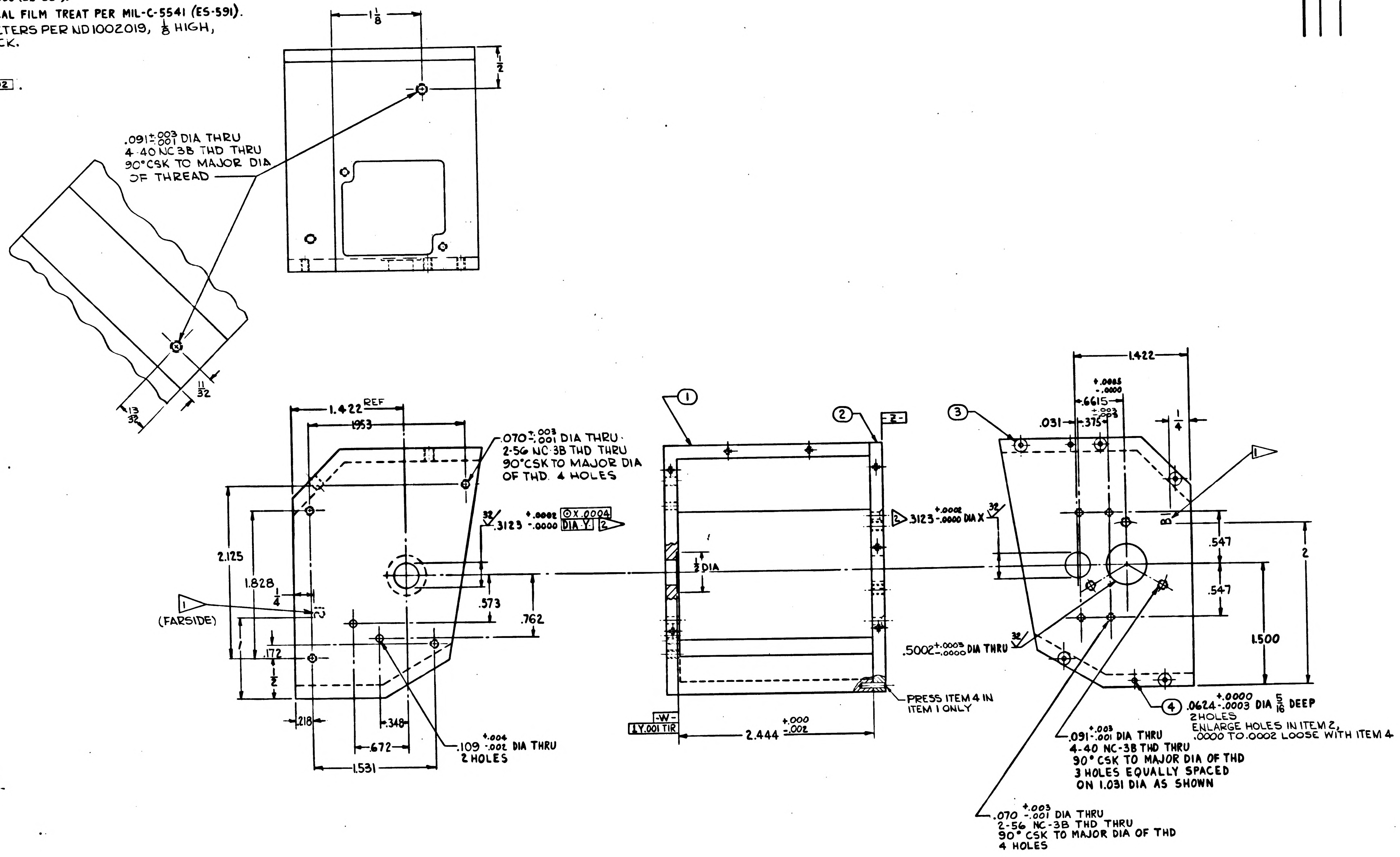
MUST BE FREE FROM BURRS.

IDENTIFY USING PART NO. & REVISION LETTER,
PER MIL-STD-130 (ES-267).

FINISH: CHEMICAL FILM TREAT PER MIL-C-5541 (ES-591).

▷1 MARK CHARACTERS PER ND1002019, 1/8 HIGH,
COLOR BLACK.

▷2 D AXY ⊥Z.002 .


1 1/8
1/2
.091 +.003 -.001 DIA THRU
4-40 NC 3B THD THRU
90°CSK TO MAJOR DIA
OF THREAD
13/32
11/32
1.422 REF
1.953
.070 +.003 -.001 DIA THRU
2-56 NC 3B THD THRU
90°CSK TO MAJOR DIA
OF THD. 4 HOLES
32
.3123 +.0002 -.0000 ⊙X.0004 DIA Y ▷2
2.125
1.828
1/4
▷1
(FARSIDE)
.573
.762
.172
1/2
.218
.348
.672
1.531
.109 +.004 -.002 DIA THRU
2 HOLES
①
②
-Z-
1/2 DIA
▷2 .3123 +.0002 -.0000 DIA X
-W-
⊥Y.001 TIR
2.444 +.000 -.002
PRESS ITEM 4 IN
ITEM 1 ONLY
.5002 +.0003 -.0000 DIA THRU
③
1.422
.6615 +.0005 -.0000
.031
.375 ±.003
1/4
▷1
.547
.547
2
1.500
④ .0624 +.0000 -.0003 DIA 5/16 DEEP
2 HOLES
ENLARGE HOLES IN ITEM 2,
.0000 TO .0002 LOOSE WITH ITEM 4
.091 +.003 -.001 DIA THRU
4-40 NC-3B THD THRU
90° CSK TO MAJOR DIA OF THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA AS SHOWN
.070 +.003 -.001 DIA THRU
2-56 NC-3B THD THRU
90° CSK TO MAJOR DIA OF THD
4 HOLES

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
4	2	MS-16555-603	PIN STRAIGHT
3	5	1010628-3	SCREW FT HD SELF LKG SOC HEX
2	1	1014561	PLATE, SIDE
1	1	1014560	HOUSING

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014558	1014558

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ 1/64	+.005	+ 1°
− 1/64	−.005	− 1°

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN J. Korosin DATE 20 MAR 63
CHECKED Kawski 3 APR 63
APPROVAL E. MERTZ 16 APR 63
APPROVAL 16 APR 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HOUSING
SEXTANT HAND CONTROLLER
MATCH MACHINED
ASSEMBLY

CODE IDENT NO.
SIZE E
1014559

SCALE 2:1
SHEET 1 OF

1014559 D

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014562 C

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

1▷ MATERIAL: QQ-A-355 2024 AL ALY (ES-2104). TEMPER T3

FINISH: MIL-A-8625 TYPE I (ES-385).

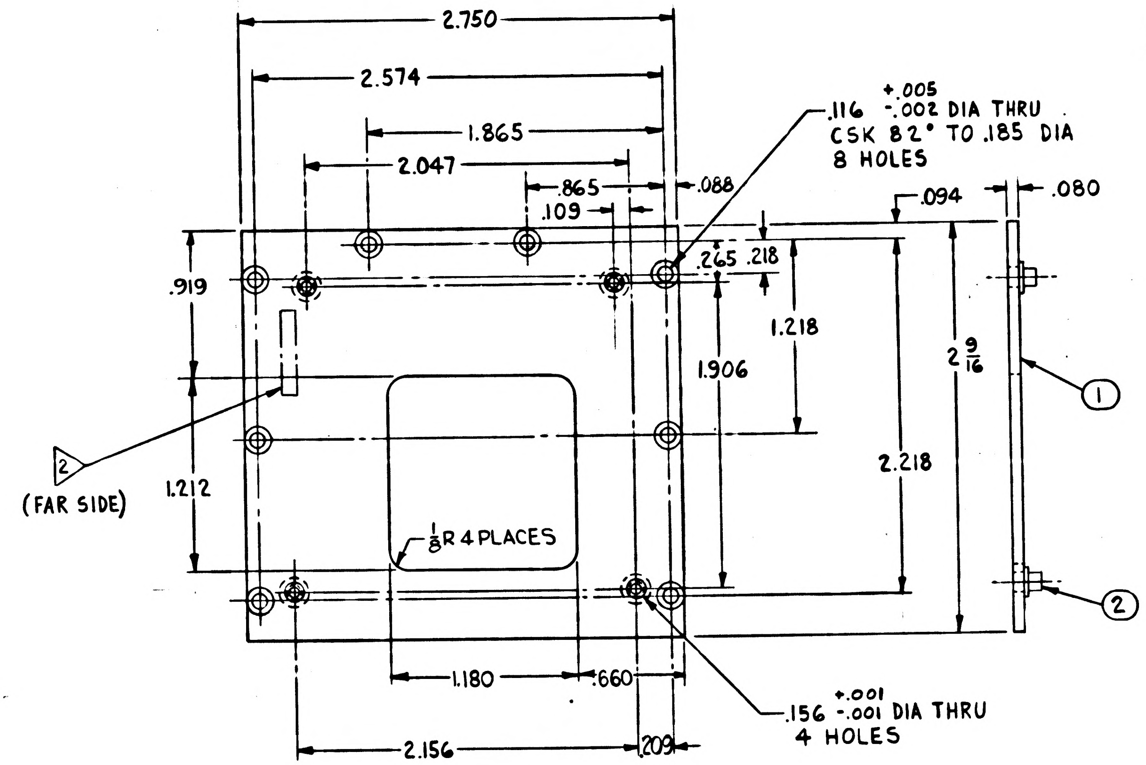
UNLESS OTHERWISE SPECIFIED:
ALL CORNERS TO HAVE .005 - .015 R OR CHAMFER.

MUST BE FREE OF BURRS.

2▷ IDENTIFY USING DRAWING № AND REVISION LETTER PER MIL-STD-130(ES-267)

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS A RELEASE		2c MAY 63	


2.750
2.574
1.865
2.047
.865
.109
.088
.116 +.005 -.002 DIA THRU
CSK 82° TO .185 DIA
8 HOLES
.094
.080
.265
.218
.919
1.218
1.906
2 9/16
2.218
1
2▷
(FAR SIDE)
1.212
1/8 R 4 PLACES
2
1.180
.660
2.156
.209
.156 +.001 -.001 DIA THRU
4 HOLES

ITEM NO.	NO. REQ'D	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	4	1000076-1	NUT FLUSH MOUNTED CLINCH SELF LKG
1	1	1014562-1	COVER 1▷

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014558	1014558

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ 1/64	+.005	+ -
- 1/64	-.005	- -

DO NOT SCALE THIS DRAWING

MATERIAL 1▷

CONTRACT NAS 9 - 497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN F Koracin DATE 13 MAR 63
CHECKED Kanotti 28 MAR 63
APPROVAL Earl E. Mertz 3-29-63
APPROVAL 29 MAR 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

COVER ASSEMBLY
(INSEPARABLE)

CODE IDENT NO. | SIZE D | 1014562

SCALE 2:1 | SHEET

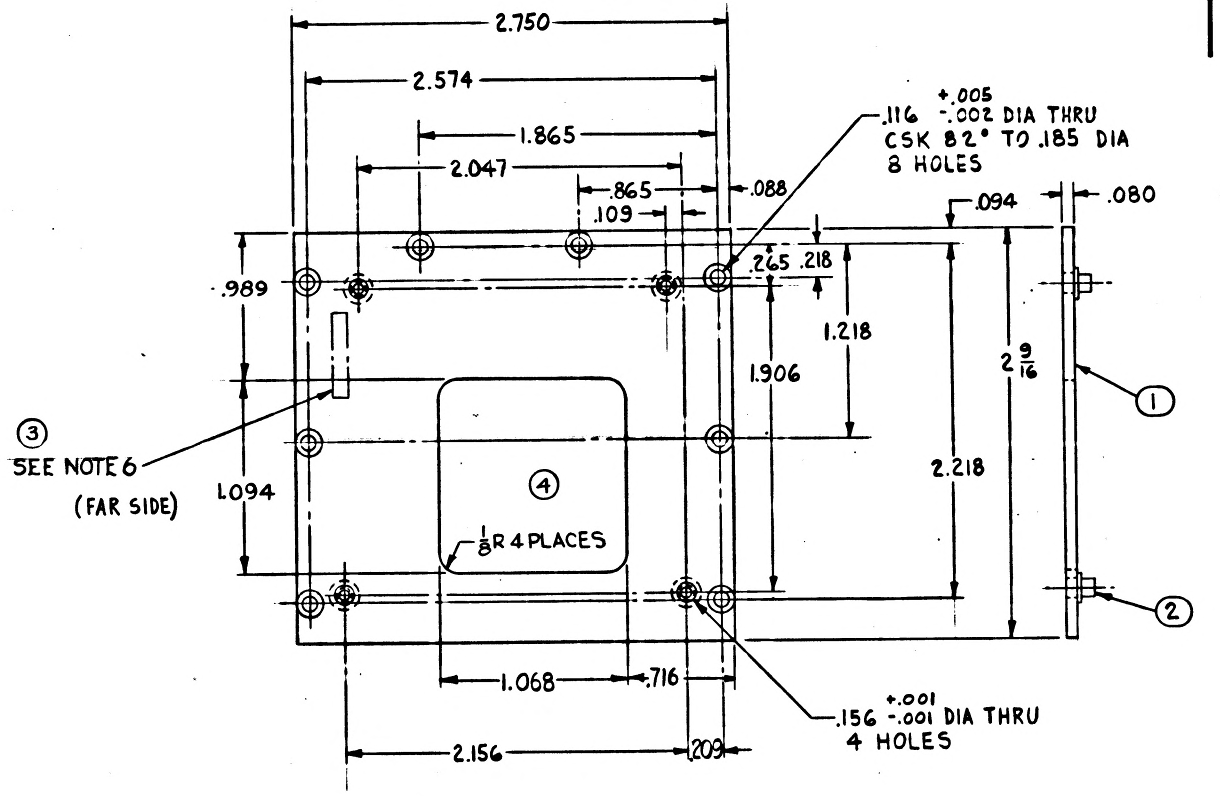
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1. INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327. ①
2. MATERIAL: QQ-A-355 2024 AL ALY (ES-2104). TEMPER T3
3. FINISH: MIL-A-8625 TYPE I (ES-385).
4. UNLESS OTHERWISE SPECIFIED:
   ALL CORNERS TO HAVE .005 - .015 R OR CHAMFER.
5. MUST BE FREE OF BURRS.
6. IDENTIFY USING DRAWING Nº AND REVISION LETTER PER MIL-STD-130(ES-267)

D 1014562 2

REVISIONS TDRR 01363

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS A RELEASE		20 MAY 63	WT
D 5		REVISED PER TDRR NO. 03510		10/4/63	WK



2.750
2.574
1.865
2.047
.865
.109
.088
.116 +.005 -.002 DIA THRU
CSK 82° TO .185 DIA
8 HOLES
.094
.080
.989
.265
.218
1.218
1.906
2 9/16
2.218
①
③
SEE NOTE 6
(FAR SIDE)
1.094
④
1/8 R 4 PLACES
②
1.068
.716
.156 +.001 -.001 DIA THRU
4 HOLES
2.156
.209

⑤

ITEM NO.	NO. REQ'D	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	4	1000076-1	NUT FLUSH MOUNTED CLINCH SELF LKG
1	1	1014562-1	COVER

LIST OF PARTS AND MATERIALS

②

1014558 NEXT ASSY	1014558 USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± - DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN F Korosin DATE 13 MAR 63 CHECKED Malikowski 28 MAR 63 APPROVAL Earl E. Martz 3-29-63 APPROVAL [illegible] 29 MAR 63	MANNED SPACECRAFT CENTER HOUSTON, TEXAS COVER ASSEMBLY (INSEPARABLE)
APPLICATION		MATERIAL SEE NOTE 2 CONTRACT NAS 9 - 497	NASA APPROVAL Jack Bosnand [illegible] MIT APPROVAL [illegible] 29 Mar 63	CODE IDENT NO. SIZE D 1014562 SCALE 2:1 SHEET 1 OF 1

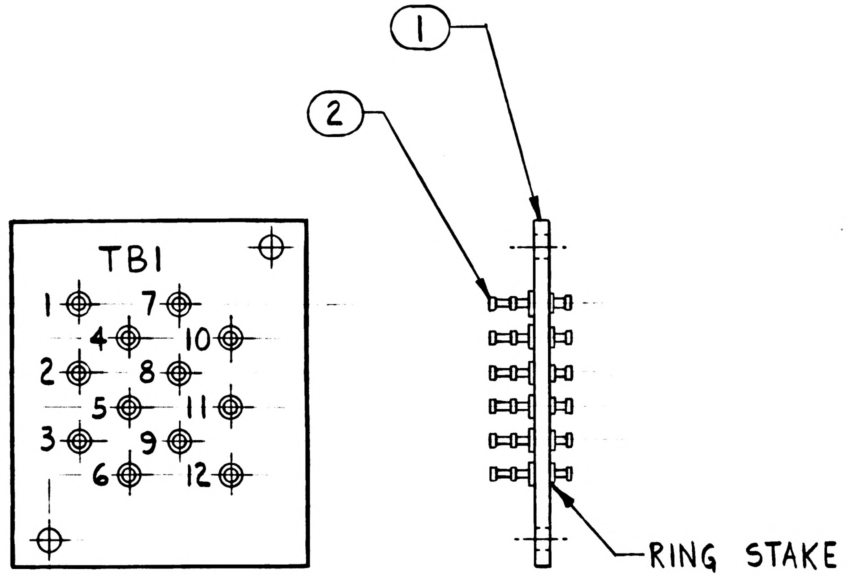
INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

MUST BE FREE FROM BURRS.

IDENTIFY USING DRAWING NO AND REVISION LETTER PER MIL-STD-130 (ES-267).

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS A RELEASE TDRR 01579	—	27 MAY 63	FK L.E.X. 14 JUN 63



ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	12	1896962	SE14XC01 (REF) TERMINAL STUD FEED THRU PER MIL-T-55155
1	1	1014565	TERMINAL BOARD

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014558	1014558

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	+ —	+ —
− —	− —	− —

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN F Koracin DATE 20 MAR 63
CHECKED Mal Kausler 3 APR 63
APPROVAL Earl E. Mertz 5 APR 63
APPROVAL 5 APR 63
NASA APPROVAL
MIT APPROVAL L. E. Larson

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

TERMINAL BOARD ASSY
INSEPARABLE

CODE IDENT NO.
SIZE C
1014564
SCALE 2:1
SHEET

MIL 1077C—P

Charleston 4·3·63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

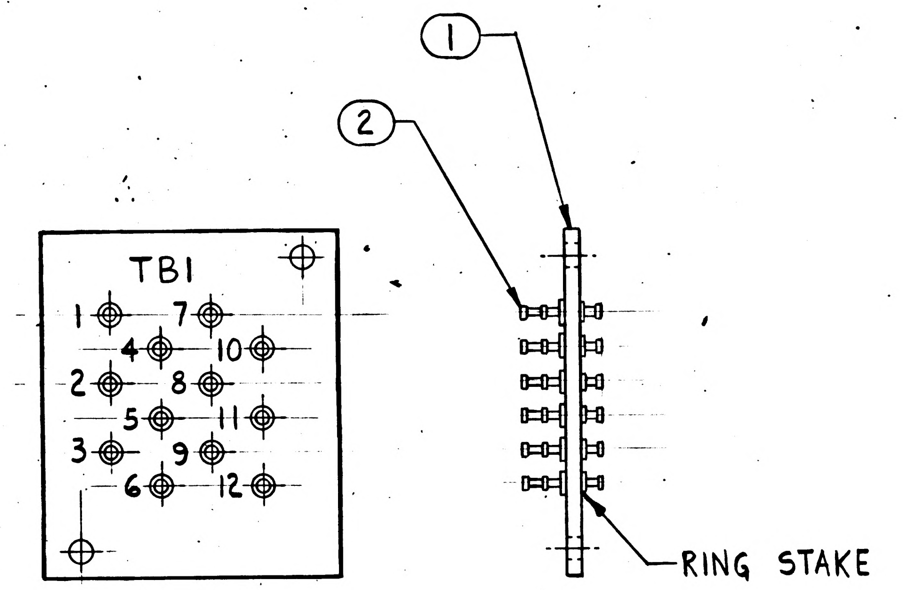
INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

MUST BE FREE FROM BURRS.

IDENTIFY USING DRAWING NO AND REVISION LETTER PER MIL-STD-130 (ES-267).

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS A RELEASE TDRR 01579	—	27 MAY 63	FK L.E.K. 14 Jun 63
D2	B-2 B-1	(D1) IT 2 WAS 1896962 (D2) REMD MIL-T-55155 FROM IT 2 TDRR 01945		9 JULY 63	RL MBJ 7/10/63



ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	12	1896962-001	SE14XC01 (REF) TERMINAL STUD FEED THRU
1	1	1014565	TERMINAL BOARD

LIST OF PARTS AND MATERIALS

1014558	1014558
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN F Koracin DATE 20 MAR 63
Mal Lauster 3 APR 63
CHECKED
APPROVAL Earl E. Mertz 5 APR 63
APPROVAL A. Wodel 5 APR 63
NASA APPROVAL Jack Barnard
MIT APPROVAL L. E. Larson

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

TERMINAL BOARD ASSY
INSEPARABLE

CODE IDENT NO. SIZE C 1014564
SCALE 2:1 SHEET

MIL 1077C—P

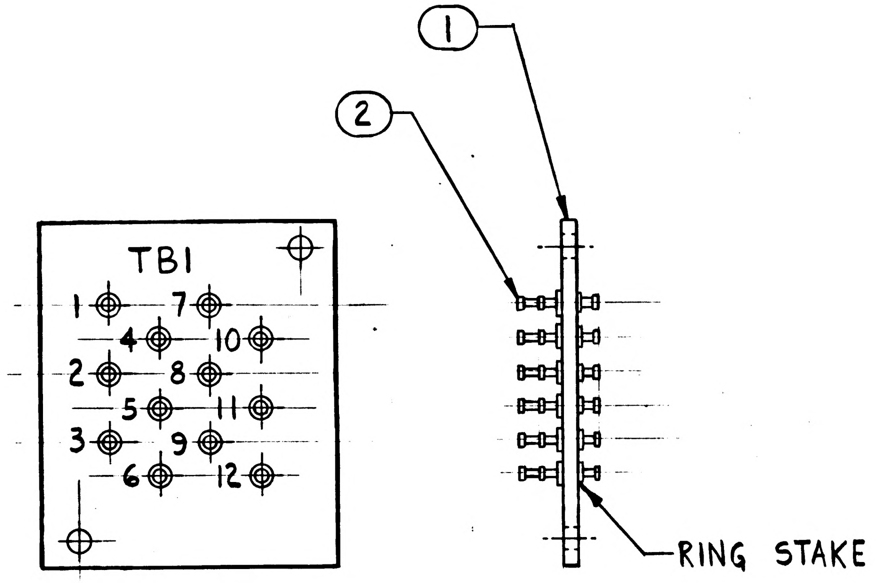
Charleston 4·3·63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.
2. MUST BE FREE FROM BURRS.
3. IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).
4. SERIALIZE PER ND1002023.

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS A RELEASE TDRR 01579	—	27 MAY 63	FK 7-450-63
D2	B-2 B-1	(D1) IT 2 WAS 1896962 (D2) REMD MIL-T-55155 FROM IT 2 TDRR 01945		9 JULY 63	RL MBJ 7/10/63
E3		REVISED PER TDRR NO. 03301		24 SEP 63	9/20/63



ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			SE14XC01 (REF)
2	12	1010677-1	TERMINAL STUD FEED THRU
1	1	1014565	TERMINAL BOARD

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014558	1014558

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+— +— +—
-— -— -—
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN F Koracin DATE 20 MAR 63
3 APR 63
CHECKED
APPROVAL Earl E. Mertz 5 APR 63
APPROVAL 5 APR 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

TERMINAL BOARD ASSY
INSEPARABLE

CODE IDENT NO.
SIZE C
1014564
SCALE 2:1
SHEET 1 OF 1

MIL 1077C—P

Charleston 4-3-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

1▷ MATERIAL: MIL-P-18177 TYPE GEB .(ES-2744 TYPE II)

UNLESS OTHERWISE SPECIFIED:
ALL CORNERS TO HAVE .005-.015 R OR CHAMFER.

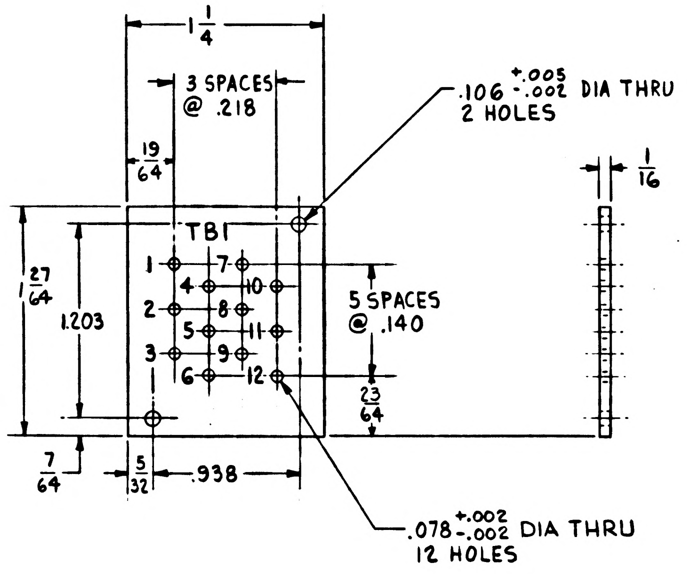
MUST BE FREE OF BURRS.

2▷ IDENTIFY USING PART NO. & REVISION LETTER PER MIL-STD-130 (ES-267).

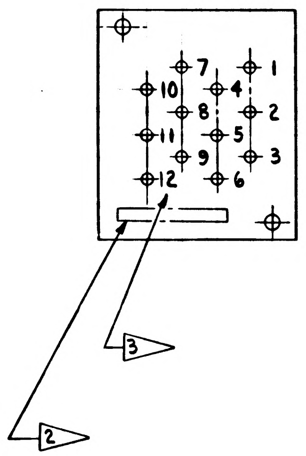
3▷ STENCIL CHARACTER $\frac{3}{32}$ HIGH, BOTH SIDES, PER ND 1002019 , CENTRALIZE AS SHOWN.
COLOR, BLACK SEMI GLOSS ENAMEL PER TT-E-529, CL A, № 27038 PER FED-STD-595 (ES-2621)
CLEAR FLAT LACQUER OVERCOAT TT-L-58(PER ES-2562)

B 1014565

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADE FOR CLASS A RELEASE TDRR 01579	—	29 MAY 63	FK



$1\frac{1}{4}$
3 SPACES @ .218
$\frac{19}{64}$
.106 $^{+.005}_{-.002}$ DIA THRU
2 HOLES
$\frac{1}{16}$
TB1
1
2
3
4
5
6
7
8
9
10
11
12
$\frac{27}{64}$
1.203
5 SPACES @ .140
$\frac{23}{64}$
$\frac{7}{64}$
$\frac{5}{32}$
.938
.078 $^{+.002}_{-.002}$ DIA THRU
12 HOLES



7
4
1
10
8
2
11
5
9
3
12
6
3
2

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
		FRACTIONS + $\frac{1}{64}$ − $\frac{1}{64}$ DECIMALS +.005 −.005 ANGLES + — − —	ACSP PN DRAWN F Koracin DATE 18 MAR 63 MALIKOWSKI 4 APR 63 CHECKED APPROVAL E. Mertz 5 APR 63 APPROVAL 5 APR 63	BOARD, TERMINAL
		DO NOT SCALE THIS DRAWING		
1014564	1014558	MATERIAL 1▷	NASA APPROVAL	CODE IDENT NO.	SIZE D	1014565
NEXT ASSY	USED ON		MIT APPROVAL	SCALE 2:1	SHEET
APPLICATION		CONTRACT NAS 9-497			

MIL 10770-P

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

D 1014567

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
REVISIONS					
D		UPGRADE FOR CLASS A RELEASE TDRR 01579		27 MAY 63	FK

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

MUST BE FREE OF BURRS.

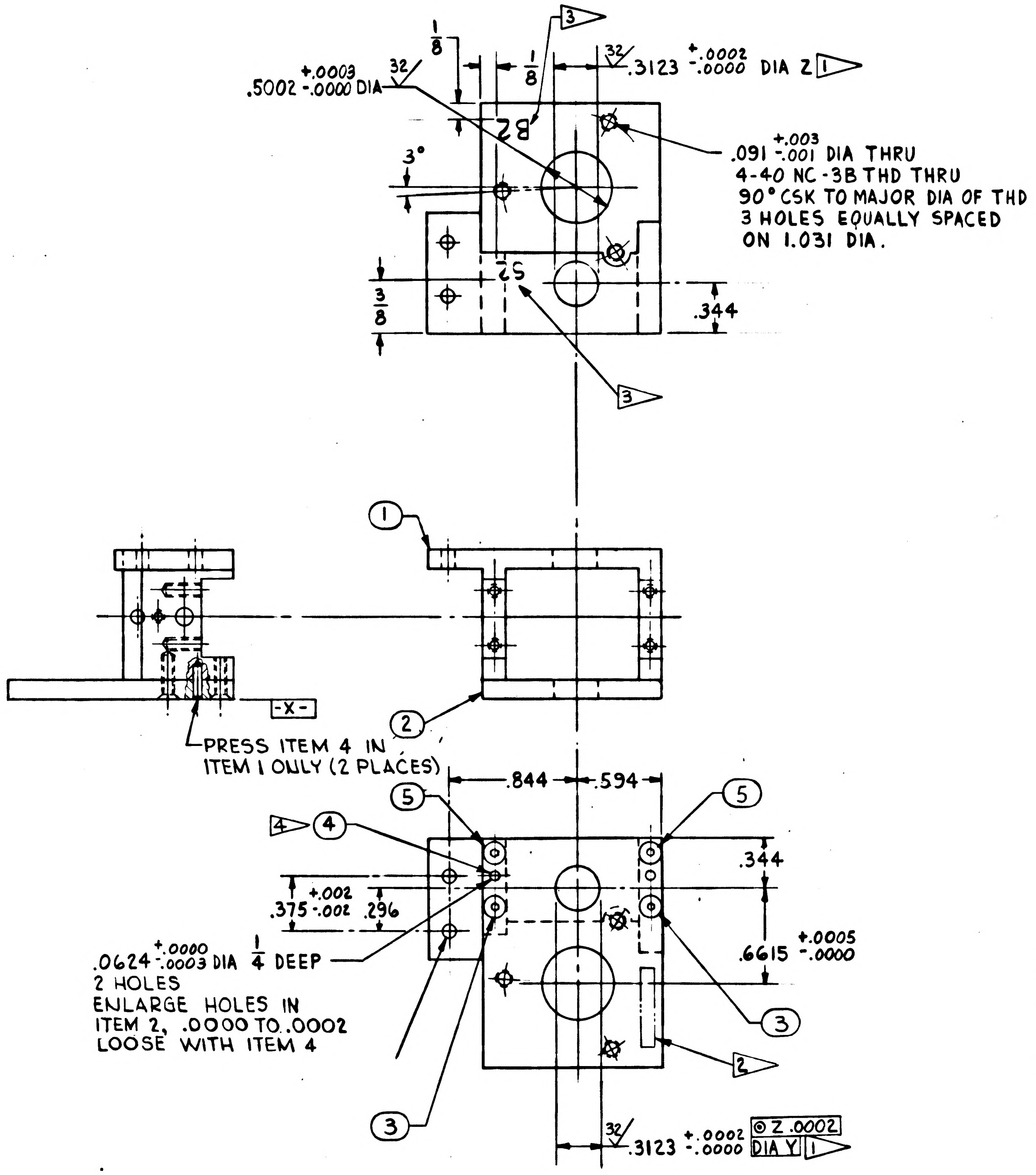
UNLESS OTHERWISE SPECIFIED:
ALL CORNERS TO HAVE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS SHALL NOT EXCEED 63/.

2▷ IDENTIFY USING DRAWING № AND REVISION LETTER PER MIL-STD-130 (ES-267).

FINISH:
CHEMICAL FILM TREAT PER MIL-C-5541 (ES-591)

3▷ STENCIL CHARACTER 1/8 HIGH PER ND 1002019, COLOR, BLACK SEMIGLOSS ENAMEL PER TT-E-529, CL A, NO 27038 PER FED-STD-595 (ES-2621)
CLEAR FLAT LACQUER OVERCOAT TT-L-58 PER (ES-2562).

1▷ DIA Y Z ⊥ X .001



1/8
32/
+.0003 .5002 -.0000 DIA
1/8
3▷
32/ .3123 +.0002 -.0000 DIA Z 1▷
3°
28
.091 +.003 -.001 DIA THRU
4-40 NC-3B THD THRU
90° CSK TO MAJOR DIA OF THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA.
25
3/8
.344
3▷
①
②
-X-
PRESS ITEM 4 IN
ITEM 1 ONLY (2 PLACES)
⑤
.844
.594
⑤
4▷ ④
.344
+.002 .375 -.002
.296
.6615 +.0005 -.0000
.0624 +.0000 -.0003 DIA 1/4 DEEP
2 HOLES
ENLARGE HOLES IN
ITEM 2, .0000 TO .0002
LOOSE WITH ITEM 4
③
2▷
③
32/ .3123 +.0002 -.0000
◎ Z .0002
DIA Y 1▷

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
5	2	1000104-2	SCREW, FLAT HD SELF LKG SOC HEX
4	2	MS-16555-602	PIN, STRAIGHT
3	2	1000104-3	SCREW, FLAT HD SELF LKG SOC HEX
2	1	1014569	PLATE, GIMBAL
1	1	1014568	GIMBAL

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014558	1014558

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ 1/64	+.005	+ 1°
− 1/64	−.005	− 1°

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN F Koracin DATE 25 MAR 63
CHECKED Mailouski 9 APR 63
APPROVAL E. Must 5 APR 63
APPROVAL A. Model 11 APR 63
NASA APPROVAL Jack Barnes
MIT APPROVAL R. E. Larson Jr. 4/19/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

GIMBAL ASSEMBLY
MATCHED MACHINED

CODE IDENT NO.
SIZE D
1014567

SCALE 2:1
SHEET

Charleston 4-3-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

MUST BE FREE OF BURRS.

UNLESS OTHERWISE SPECIFIED:
ALL CORNERS TO HAVE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS SHALL NOT EXCEED 63.

2▷ IDENTIFY USING DRAWING № AND REVISION LETTER PER MIL-STD-130 (ES-267).

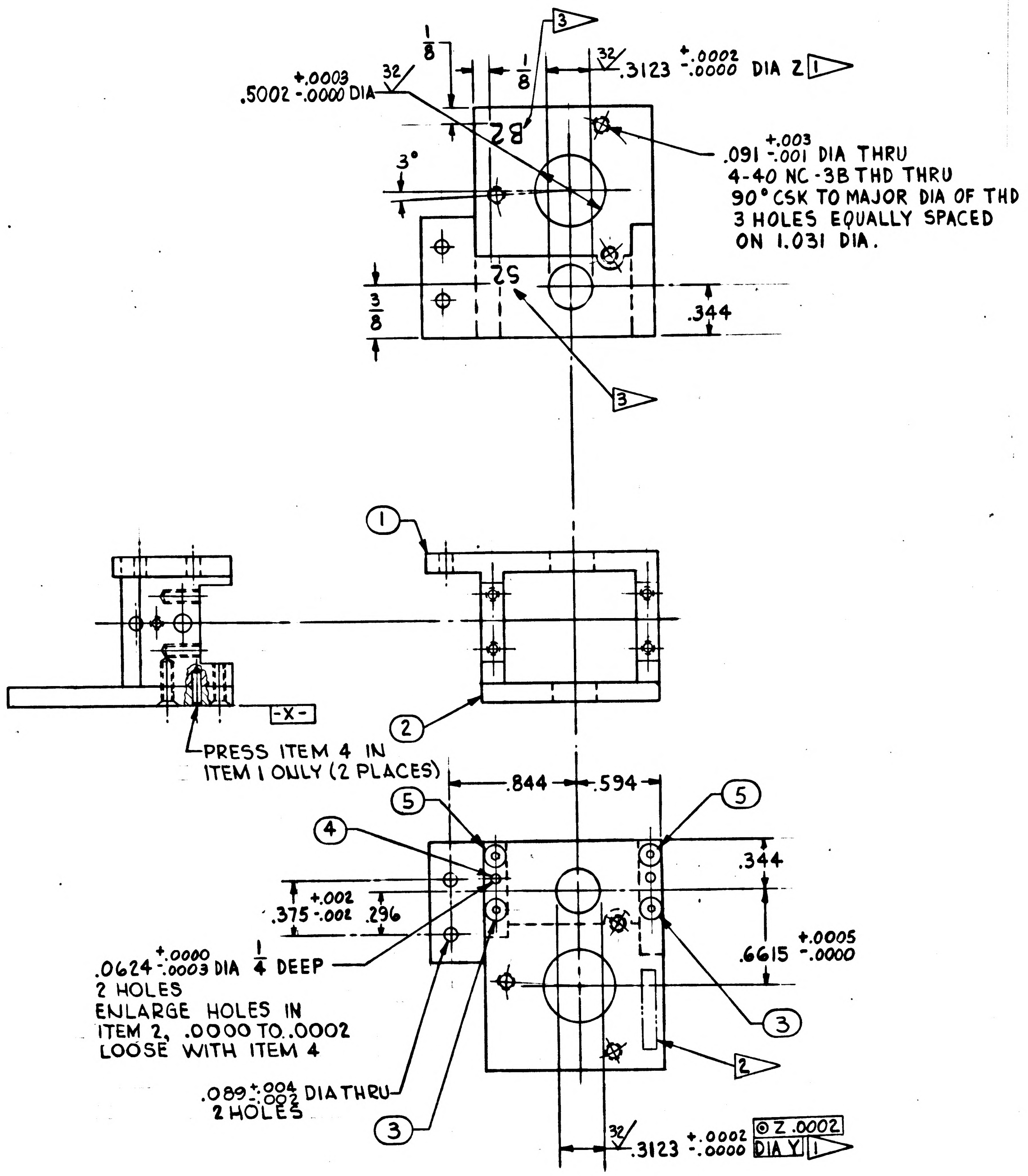
FINISH:
CHEMICAL FILM TREAT PER MIL-C-5541 (ES-591)

3▷ STENCIL CHARACTER $\frac{1}{8}$ HIGH PER ND 1002019, COLOR, BLACK SEMIGLOSS ENAMEL PER TT-E-529, CL A, NO 27038 PER FED-STD-595 (ES-2621). CLEAR FLAT LACQUER OVERCOAT TT-L-58 PER (ES-2562).

1▷ DIA Y Z $\boxed{1\ X\ .001}$

E | 1014567

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
D		UPGRADE FOR CLASS A RELEASE TDRR 01579		27 MAY 63	FK 6/4/63
E4	B-5 A-5	(E1) REMD 4▷ FROM IT 4 (E2) ADDED .089 +.004 -.002 DIA.... (E3) IT 3 WAS 1000104-3 (E4) IT 5 WAS 1000104-2 TDRR 01947		9 JULY 63	RL



1/8
1/8
3▷
32
+.0003 .5002 -.0000 DIA
32
.3123 +.0002 -.0000 DIA Z 1▷
3°
.091 +.003 -.001 DIA THRU
4-40 NC-3B THD THRU
90° CSK TO MAJOR DIA OF THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA.
3/8
.344
3▷
①
②
-X-
PRESS ITEM 4 IN
ITEM 1 ONLY (2 PLACES)
.844
.594
⑤
⑤
④
.344
+.002 .375 -.001
.296
.6615 +.0005 -.0000
.0624 +.0000 -.0003 DIA 1/4 DEEP
2 HOLES
ENLARGE HOLES IN
ITEM 2, .0000 TO .0002
LOOSE WITH ITEM 4
③
2▷
.089 +.004 -.002 DIA THRU
2 HOLES
③
32
.3123 +.0002 -.0000
◎ Z .0002
DIA Y 1▷

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
5	2	1010628-2	SCREW, FLAT HD SELF LKG SOC HEX
4	2	MS-16555-602	PIN, STRAIGHT
3	2	1010628-3	SCREW, FLAT HD SELF LKG SOC HEX
2	1	1014569	PLATE, GIMBAL
1	1	1014568	GIMBAL

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014558	1014558

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$+\frac{1}{64}$	+.005	+1°
$-\frac{1}{64}$	-.005	-1°

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN F Koracin DATE 25 MAR 63
CHECKED [illegible] 3 APR 63
APPROVAL E. Mint 5 APR 63
APPROVAL [illegible] 11 APR 63
NASA APPROVAL Jack Barnard
MIT APPROVAL [illegible] 4/29/63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

GIMBAL ASSEMBLY
MATCHED MACHINED

CODE IDENT NO.
SIZE D
1014567
SCALE 2:1
SHEET

Charleston 4-3-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

F | 1014567

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

MUST BE FREE OF BURRS.

UNLESS OTHERWISE SPECIFIED:
ALL CORNERS TO HAVE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS SHALL NOT EXCEED 63.

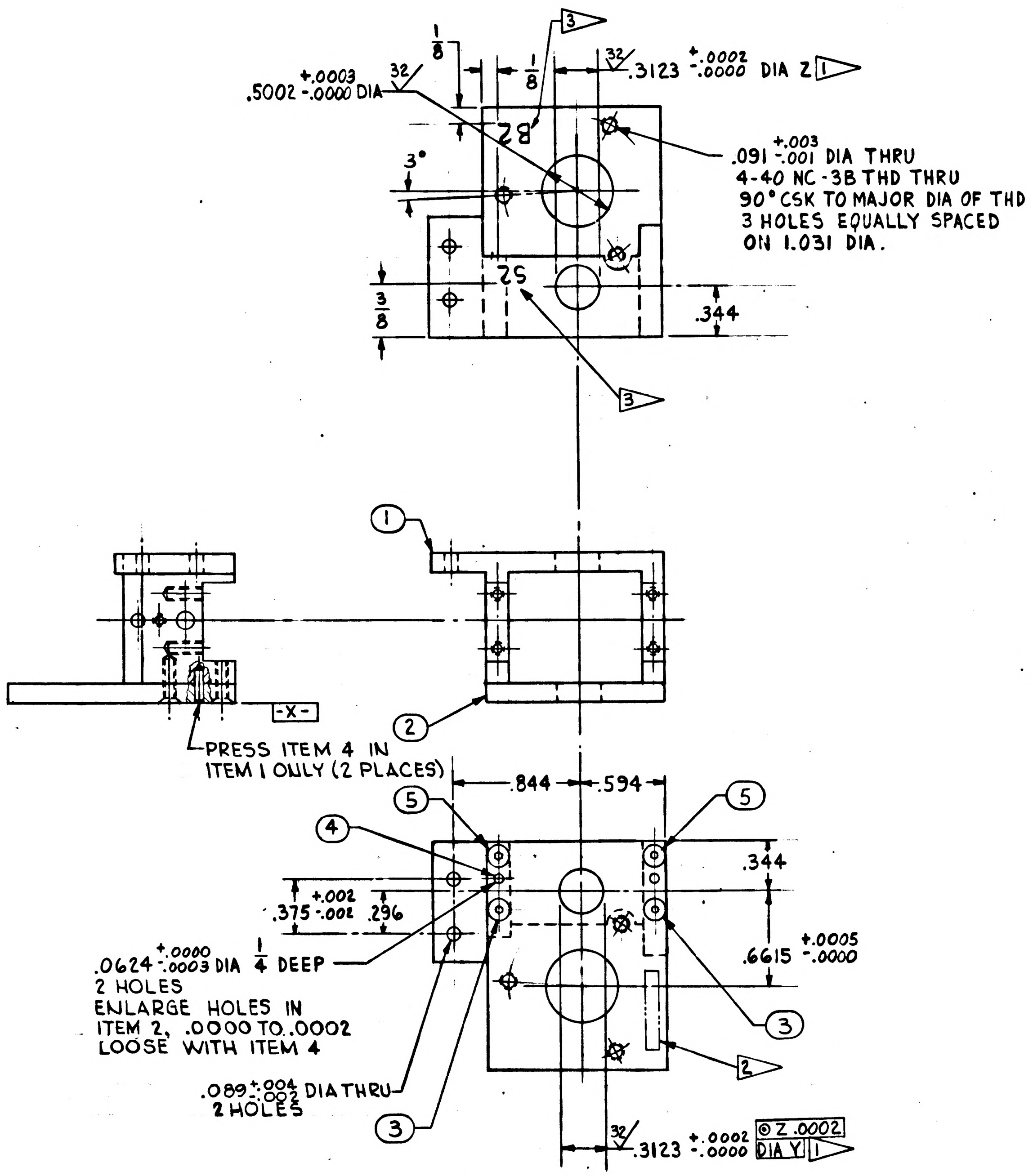
2▷ IDENTIFY USING DRAWING Nº AND REVISION LETTER PER MIL-STD-130 (ES-267).

FINISH:
CHEMICAL FILM TREAT PER MIL-C-5541 (ES-591)

3▷ MARK CHARACTERS PER ND 1002019, $\frac{1}{8}$ HIGH, COLOR BLACK.

1▷ DIA Y Z ⊥X.001

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
D		UPGRADE FOR CLASS A RELEASE TDRR 01579		27 MAY 63	FK
E_4	B-5 A-5	ⒺREMD ▷ FROM IT 4 Ⓔ ADDED .089 $^{+.004}_{-.002}$ DIA.... Ⓔ IT 3 WAS 1000104-3 Ⓔ IT 5 WAS 1000104-2 TDRR 01947		9 JULY 63	RL
F_1	D-8	ⒻREVISED NOTE 3▷. TDRR 2685		21 AUG 63	



$\frac{1}{8}$
3▷
$\frac{1}{8}$
.5002 $^{+.0003}_{-.0000}$ DIA
32
32
.3123 $^{+.0002}_{-.0000}$ DIA Z 1▷
3°
.091 $^{+.003}_{-.001}$ DIA THRU
4-40 NC-3B THD THRU
90° CSK TO MAJOR DIA OF THD
3 HOLES EQUALLY SPACED
ON 1.031 DIA.
$\frac{3}{8}$
.344
3▷
①
②
-X-
PRESS ITEM 4 IN ITEM 1 ONLY (2 PLACES)
.844
.594
⑤
⑤
④
.344
.375 $^{+.002}_{-.002}$
.296
.6615 $^{+.0005}_{-.0000}$
.0624 $^{+.0000}_{-.0003}$ DIA $\frac{1}{4}$ DEEP
2 HOLES
ENLARGE HOLES IN ITEM 2, .0000 TO .0002 LOOSE WITH ITEM 4
③
2▷
.089 $^{+.004}_{-.002}$ DIA THRU
2 HOLES
③
32
.3123 $^{+.0002}_{-.0000}$ ◎ Z .0002 DIA Y 1▷

5	2	1010628-2	SCREW, FLAT HD SELF LKG SOC HEX
4	2	MS-16555-602	PIN, STRAIGHT
3	2	1010628-3	SCREW, FLAT HD SELF LKG SOC HEX
2	1	1014569	PLATE, GIMBAL
1	1	1014568	GIMBAL
ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014558	1014558

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$+\frac{1}{64}$	+.005	+1°
$-\frac{1}{64}$	-.005	-1°

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN F Koracin DATE 25 MAR 63
CHECKED Malikowski 3 APR 63
APPROVAL E. Must 5 APR 63
APPROVAL 11 APR 63
NASA APPROVAL Jack Barnard
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

GIMBAL ASSEMBLY
MATCHED MACHINED

CODE IDENT NO. | SIZE D | 1014567
SCALE 2:1 | SHEET 1 OF 1

Charleston 4-3-63

INCHES
0 2
PHOTOGRAPHIC SCALE ONLY

1 MATERIAL: QQ-A-268 2024 AL ALY TEMPER T4 (ES-2104).
FINISH: MIL-A-8625 TYPE I (ES-385).
UNLESS OTHERWISE SPECIFIED:
ALL CORNERS TO HAVE .005-.015 R OR CHAMFER.
SURFACE ROUGHNESS SHALL NOT EXCEED 63.

MUST BE FREE OF BURRS

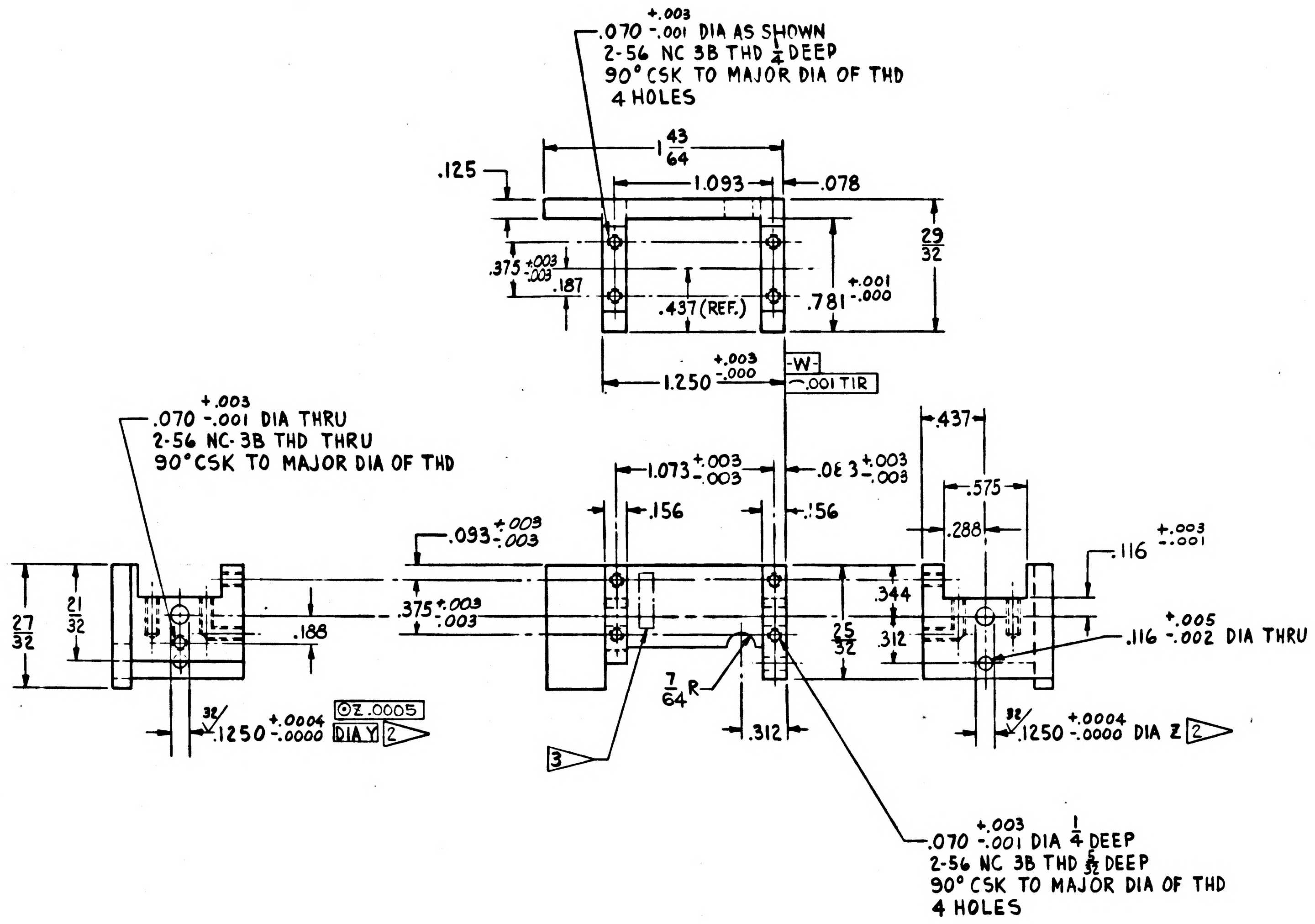
3 IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD 130 (ES-267)

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

2 DIA YZ ⊥W.001

D	1014568

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
D		UPGRADED FOR CLASS A RELEASE TDRR 01579	—	27 MAY 63	FK



+.003 .070 -.001 DIA AS SHOWN
2-56 NC 3B THD 1/4 DEEP
90° CSK TO MAJOR DIA OF THD
4 HOLES
1 43/64
.125
1.093
.078
29/32
.375 +.003 -.003
.187
.437 (REF.)
.781 +.001 -.000
1.250 +.003 -.000
W
.001 TIR
+.003 .070 -.001 DIA THRU
2-56 NC-3B THD THRU
90° CSK TO MAJOR DIA OF THD
1.073 +.003 -.003
.063 +.003 -.003
.437
.156
.156
.575
.288
.093 +.003 -.003
.116 +.003 -.001
27/32
21/32
.188
.375 +.003 -.003
.344
25/32
.312
.116 +.005 -.002 DIA THRU
7/64 R
.312
32
.1250 +.0004 -.0000
Z .0005
DIA Y 2
3
32
.1250 +.0004 -.0000 DIA Z 2
+.003 .070 -.001 DIA 1/4 DEEP
2-56 NC 3B THD 5/32 DEEP
90° CSK TO MAJOR DIA OF THD
4 HOLES

1014 567	1014 558
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ 1/64	+.005	+1°
- 1/64	-.005	-1°

DO NOT SCALE THIS DRAWING
MATERIAL 1
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN F Koracin DATE 22 MAR 63
CHECKED 3 APR 63
APPROVAL E. MERTZ 11 APR 63
APPROVAL 11 APR 63
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

GIMBAL

CODE IDENT NO.
SIZE D
1014568
SCALE 2:1
SHEET

Charleston 4-3-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

1 MATERIAL: QQ-S-763 CLASS 303 OR 303SE COND A CF (ES-380).

FINISH: MIL-F-14072 (SIG C) FIN E 300 (ES-585).

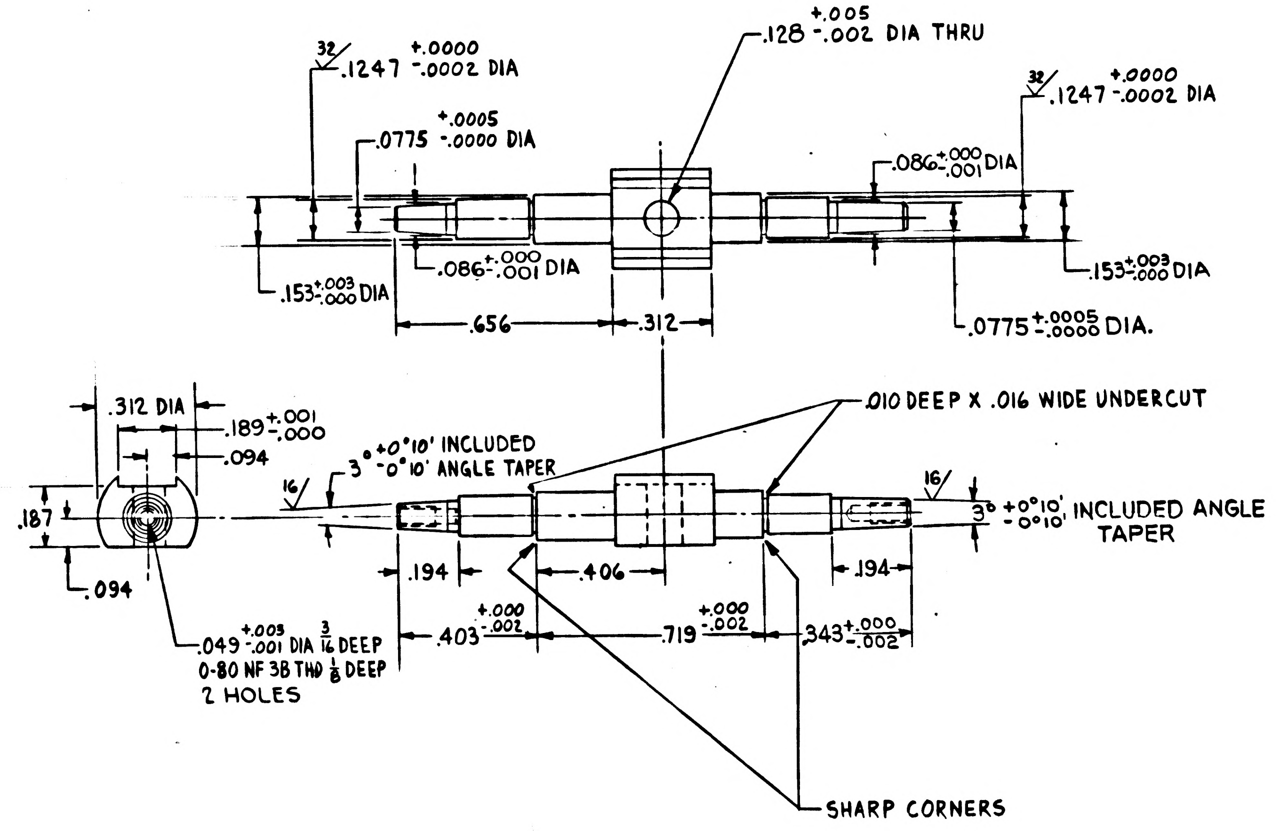
UNLESS OTHERWISE SPECIFIED:
ALL CORNERS NOT TO EXCEED .010R OR CHAMFER.
SURFACE ROUGHNESS SHALL NOT EXCEED 63.

MUST BE FREE OF BURRS.

IDENTIFY USING PART NO. AND REVISION LETTER
PER MIL-STD-130 (ES-267)

C 1014570

REVISIONS ~~JFR~~ 383					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS A RELEASE	—	21 MAY 63	FK


32
.1247 +.0000 -.0002 DIA
+.005
.128 -.002 DIA THRU
32
.1247 +.0000 -.0002 DIA
.0775 +.0005 -.0000 DIA
.086 +.000 -.001 DIA
.086 +.000 -.001 DIA
.153 +.003 -.000 DIA
.153 +.003 -.000 DIA
.0775 +.0005 -.0000 DIA.
.656
.312
.312 DIA
.189 +.001 -.000
.094
.187
.094
3° +0°10' -0°10' INCLUDED ANGLE TAPER
16
.010 DEEP X .016 WIDE UNDERCUT
16
3° +0°10' -0°10' INCLUDED ANGLE TAPER
.194
.406
.194
.403 +.000 -.002
.719 +.000 -.002
.343 +.000 -.002
.049 +.003 -.001 DIA 3/16 DEEP
0-80 NF 3B THD 1/8 DEEP
2 HOLES
SHARP CORNERS

1014558	1014558
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$+\frac{1}{64}$	+.005	+1°
$-\frac{1}{64}$	-.005	-1°

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN F Koracin DATE 26 MAR 63
CHECKED 5 APR 63
APPROVAL E. Mertz 17 APR 63
APPROVAL 19 APR 63
NASA APPROVAL
MIT APPROVAL 29 May 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SHAFT

CODE IDENT NO.
SIZE D
1014570
SCALE 4:1
SHEET

Chan ton 4·3·63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

1 MATERIAL: QQ-S-763 CLASS 303 OR 303 SE COND A CF (ES-380).

FINISH: MIL-F-14072 (SIG C) FIN E 300 (ES-585).

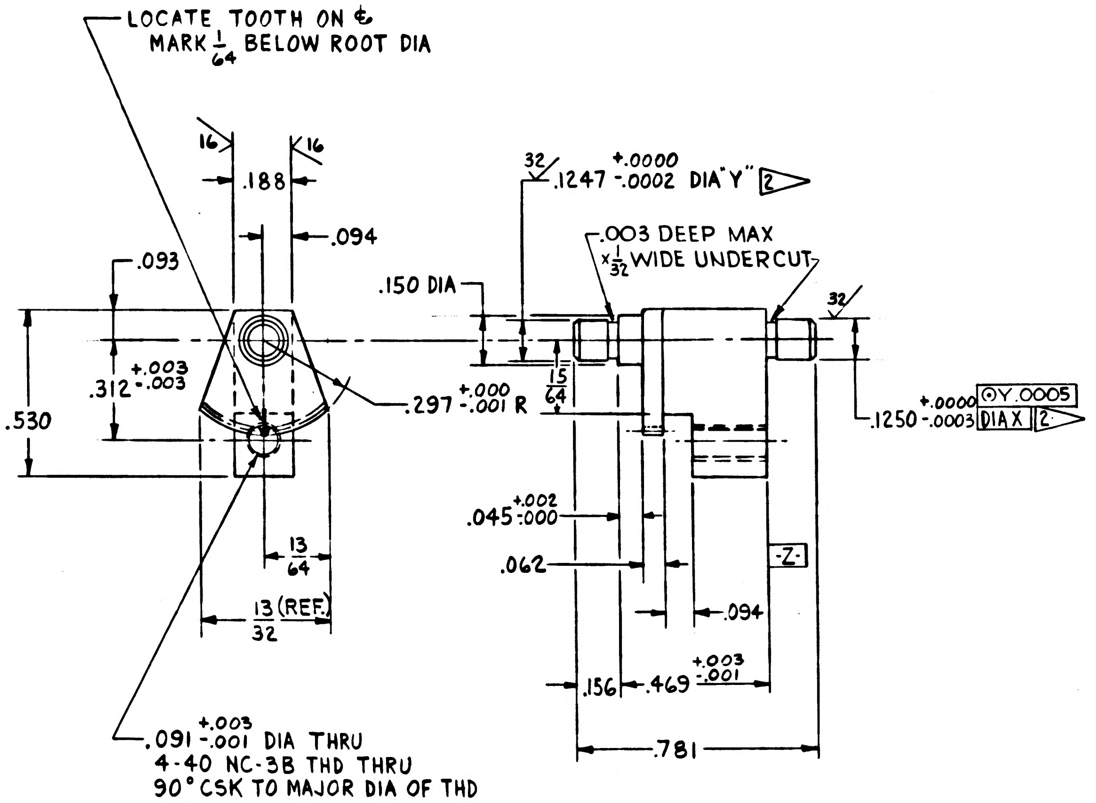
UNLESS OTHERWISE SPECIFIED:
ALL CORNERS MUST NOT EXCEED .010 R OR CHAMFER
SURFACE ROUGHNESS SHALL NOT EXCEED 63✓.
MUST BE FREE FROM BURRS.

IDENTIFY USING PART NO. AND REVISION LETTER PER
MIL-STD-130 (ES-267)

2 DIA XY ⊥Z .002

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
C		UPGRADE FOR CLASS A RELEASE TURR 01579	—	27 MAY 63	FK


LOCATE TOOTH ON ℄ MARK 1/64 BELOW ROOT DIA
16
16
.188
.094
.093
.530
$.312^{+.003}_{-.003}$
$.297^{+.000}_{-.001}$ R
13/64
13/32 (REF.)
$.091^{+.003}_{-.001}$ DIA THRU
4-40 NC-3B THD THRU
90° CSK TO MAJOR DIA OF THD
32
$.1247^{+.0000}_{-.0002}$ DIA "Y" 2
.003 DEEP MAX x 1/32 WIDE UNDERCUT
.150 DIA
15/64
32
$.1250^{+.0000}_{-.0003}$ DIA X ⊙Y .0005 2
$.045^{+.002}_{-.000}$
.062
-Z-
.094
.156
$.469^{+.003}_{-.001}$
.781

NUMBER OF TEETH (FULL GEAR)	55
DIAMETRAL PITCH	96
BASIC PRESSURE ANGLE	20°
BASIC PITCH DIAMETER	.5729 REF
WHOLE TOOTH DEPTH	0.0265 REF
ROOT DIAMETER	.546 MAX .540 MIN
MAXIMUM ROUGHNESS WORKING SURFACE OF TEETH	32✓
CENTER DISTANCE WHEN MESHED WITH STANDARD INSPECTION MASTER -AS REFERRED TO CENTER OF DIAMETER Y	.7865
TOTAL COMPOSITE ERROR	+.0000 -.0010
BASIC PITCH DIAMETER OF MASTER	1.0000
CHECKING PRESSURE	4 OZ
TOOTH TO TOOTH COMPOSITE ERROR	.0004 MAX

NEXT ASSY	USED ON
1014558	1014558

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+1°
-1/64	-.005	-1°

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN F Koracin DATE 29 MAR 63
CHECKED MALIKOWSKI 4 APR 63
APPROVAL E. MERTZ 16 APR 63
APPROVAL 16 APR 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

GEAR SECTOR
55T (FULL GEAR) 96 P SHAFT INTREGAL

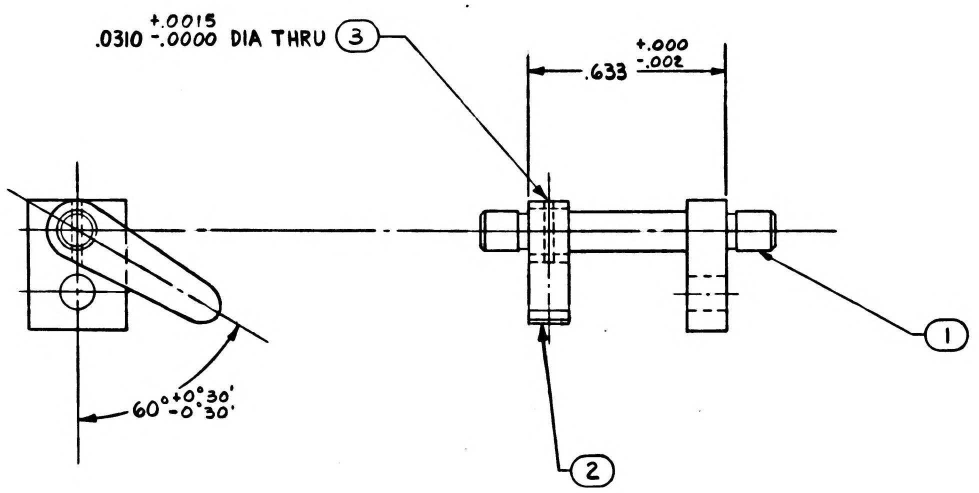
CODE IDENT NO.
SIZE D
1014572
SCALE 4:1
SHEET

MIL 10770-F

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.
MUST BE FREE OF BURRS.
IDENTIFY USING PART NO. & REVISION LETTER, PER MIL-STD-130 (ES-267).

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
D		UPGRADED FOR CLASS A RELEASE TDRR01579	-	27 MAY 63	FK



ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
3	1	1010616-003	PIN SPRING
2	1	1014555	ACTUATOR TRUNNION SWITCH
1	1	1014556	SHAFT ACTUATOR

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014558	1014558

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$+\frac{1}{64}$	+.005	+ 1°
$-\frac{1}{64}$	-.005	- 1°

DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN F Koracin DATE 26 MAR 63
CHECKED 23 APR 63
APPROVAL E. Mertz 23 APR 63
APPROVAL 24 APR 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SHAFT ACTUATOR
ASSEMBLY

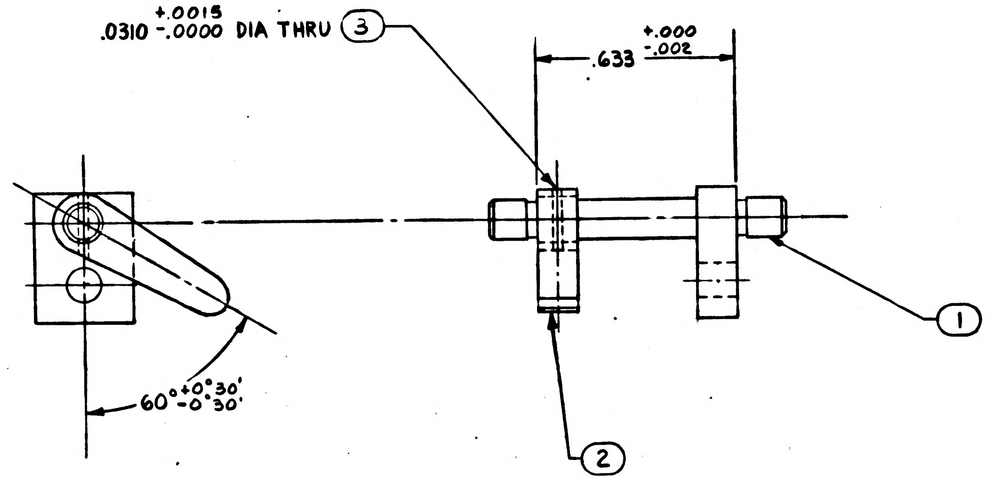
CODE IDENT NO.
SIZE D
1014574
SCALE 4:1
SHEET

INCHES
0 2
PHOTOGRAPHIC SCALE ONLY

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.
MUST BE FREE OF BURRS.
IDENTIFY USING PART NO. & REVISION LETTER,
PER MIL-STD-130 (ES-267).

E 1014574

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
D		UPGRADED FOR CLASS A RELEASE TDRR 01579	–	27 MAY 63	FK
E	B-2	(E1) ITEM 3 MS51923-113 WAS 1010616-003 TDRR 02520		7 AUG 63	14 Aug 63 WR



ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
3	1	MS51923-113	PIN SPRING
2	1	1014555	ACTUATOR TRUNNION SWITCH
1	1	1014556	SHAFT ACTUATOR

LIST OF PARTS AND MATERIALS

1014558	1014558
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ 1/64	+.005	+ 1°
- 1/64	-.005	- 1°

DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN F Korasin DATE 26 MAR 63
CHECKED 23 APR 63
APPROVAL E. Mertz 23 APR 63
APPROVAL 24 APR 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SHAFT ACTUATOR
ASSEMBLY

CODE IDENT NO.
SIZE D
1014574
SCALE 4:1
SHEET

25 APR 63

MIL 10770-P

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERPRET DRAWING IN ACCORDANCE WITH MIL-D-70327.

1 MATERIAL: QQ-A-268 2024 AL ALY TEMPER T4 (ES-2104).

FINISH: MIL-A-8625 TYPE I (ES-385)

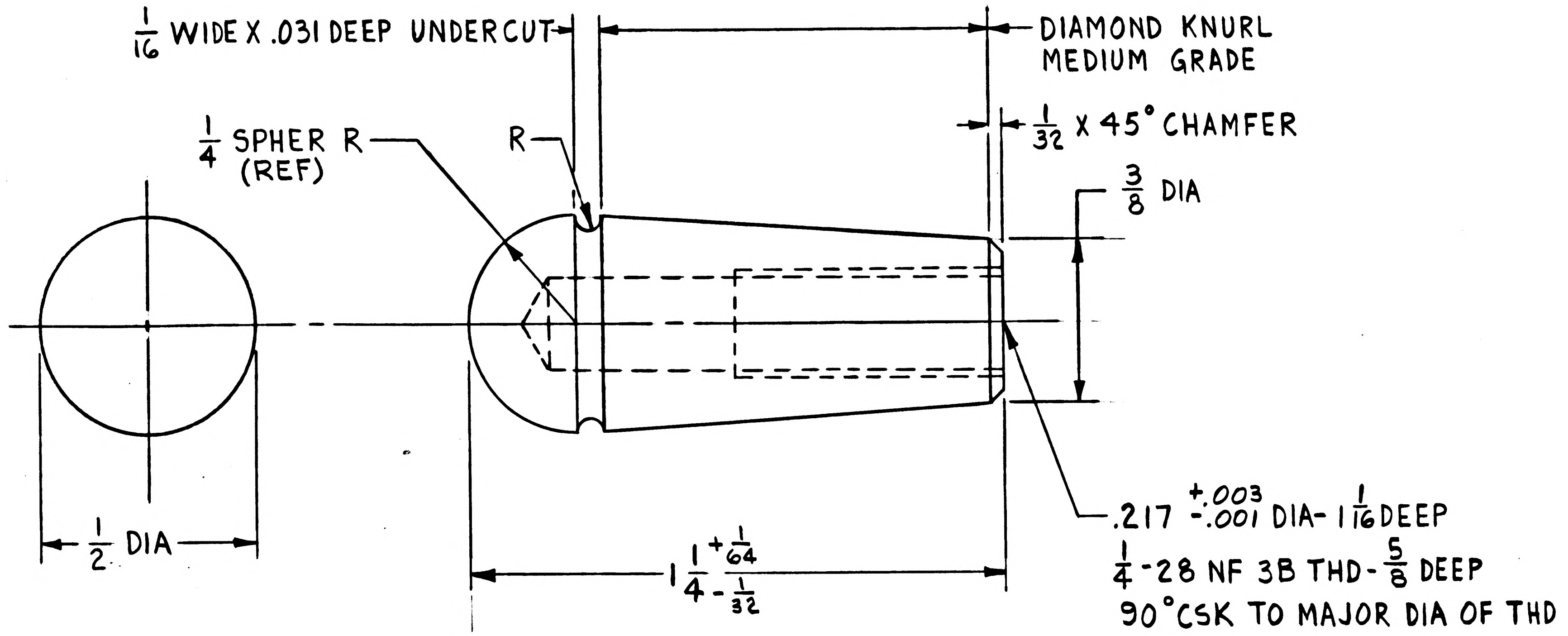
UNLESS OTHERWISE SPECIFIED:
ALL CORNERS MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 63.

MUST BE FREE FROM BURRS.

IDENTIFY USING DRAWING Nº AND REVISION LETTER PER MIL-STD-130 (ES-267)

REVISIONS TDRR 01383

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS "A" RELEASE		20 MAY 63	WP



1/16 WIDE X .031 DEEP UNDERCUT
DIAMOND KNURL MEDIUM GRADE
1/32 X 45° CHAMFER
1/4 SPHER R (REF)
R
3/8 DIA
.217 +.003 -.001 DIA- 1 1/16 DEEP
1/4-28 NF 3B THD- 5/8 DEEP
90° CSK TO MAJOR DIA OF THD
1/2 DIA
1 1/4 +1/64 -1/32

1014558	1014558
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+1°
-1/64	-.005	-1°

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN F Koracin DATE 1 APR 63
MALIKOWSKI 4 APR 63
CHECKED
APPROVAL E. MERTZ 11 APR 63
APPROVAL A Kodil 11 APR 63
NASA APPROVAL Jack Barnes
MIT APPROVAL 29 May 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

HANDLE

CODE IDENT NO.
SIZE C
1014575
SCALE 4:1
SHEET

MIL 1077C—P

Charleston 3-4-63.

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

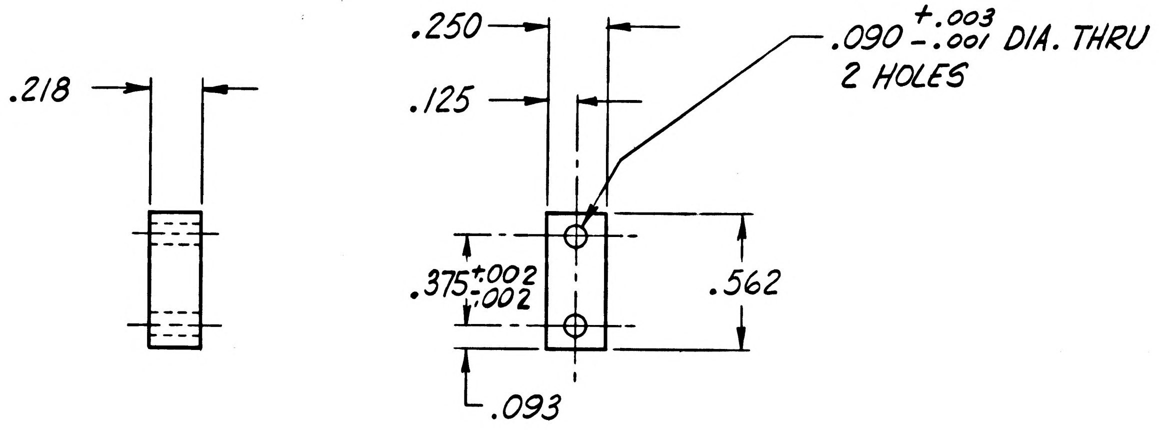
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
C		UPGRADED FOR CLASS A RELEASE TDRR 01579	—	27 MAY 63	FK

① MATERIAL: QQ-A-355 2024 AL ALY TEMPER T3 (ES 2104)
FINISH: MIL-F-14072 (SIG C) FIN E 300 (ES-585).
UNLESS OTHERWISE SPECIFIED:
ALL CORNERS TO HAVE .005-.015 R OR CHAMFER.
SURFACE ROUGHNESS SHALL NOT EXCEED 63.

MUST BE FREE BURRS.

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327

IDENTIFY USING DRAWING NUMBER AND REVISION LETTER PER MIL-STD-130 (ES-267)



1014558	1014558
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$+\frac{1}{64}$	+.005	+1°
$-\frac{1}{64}$	−.005	−1°

DO NOT SCALE THIS DRAWING
MATERIAL ①
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN F Koracin DATE 21 MAR 63
CHECKED Kaushi 3 APR 63
APPROVAL E. Mertz 5 APR 63
APPROVAL A Kodel 5 APR 63
NASA APPROVAL Jack Barnard
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

SUPPORT, PLUNGER

CODE IDENT NO.
SIZE C
1014576
SCALE 2:1
SHEET

Charleston 4.3.63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

MIL 1077C—P

1014576 C

APOLLO G&N Specification

PS-1014578A

10 December 1963

Class A Release

TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3/10/64	A	06250	3	WLR.	

This specification consists of page i to iii and 1 to 16 inclusive.

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the G&N Indicator Control Panel Assembly for use in APOLLO Guidance and Navigation Equipment.

WKupfer 10 Dec 63

MIT/IL DATE

W L Swingle 12/11/63

NASA/MSC APPROVAL DATE

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the G&N Indicator Control Panel Assembly, Drawing 1014578, hereafter called the assembly.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014578	Final Test Method for G&N Indicator Control Panel Assembly

STANDARDS

Military

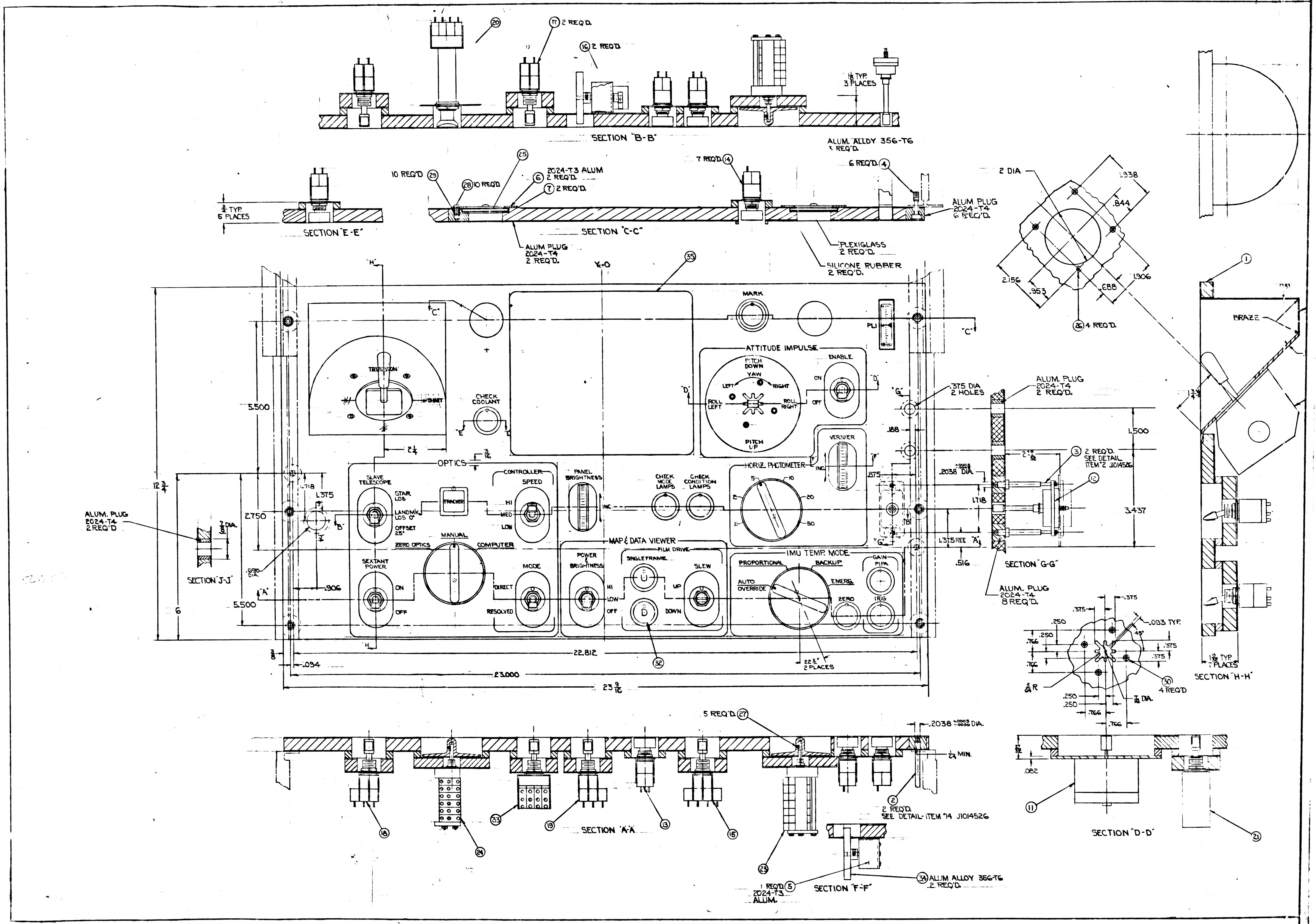
MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014578	G&N Indicator Control Panel Assembly
1014579	G&N Indicator Control Panel (Schematic) (For Reference Only)

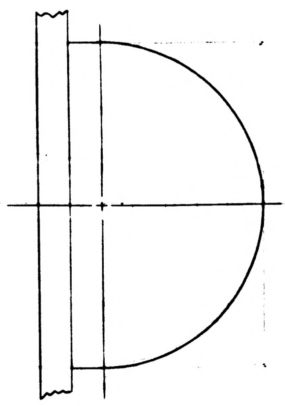
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

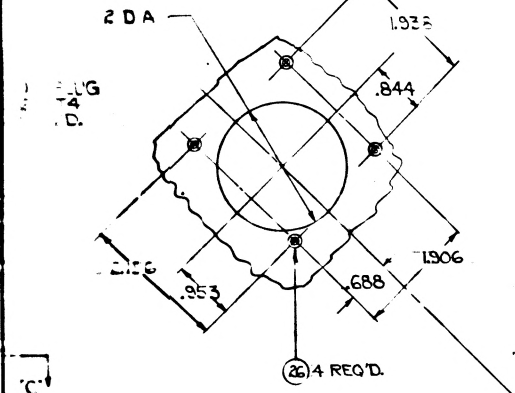


⑳
⑰ 2 REQ'D.
⑯ 2 REQ'D.
1/8 TYP. 3 PLACES
SECTION "B-B"
ALUM. ALLOY 356-T6 3 REQ'D.
3/4 TYP. 5 PLACES
SECTION "E-E"
10 REQ'D ㉙
㉘ 10 REQ'D.
㉕
2024-T3 ALUM 2 REQ'D. ⑥
⑦ 2 REQ'D.
7 REQ'D ⑭
6 REQ'D ④
ALUM PLUG 2024-T4 6 REQ'D.
SECTION "C-C"
ALUM PLUG 2024-T4 2 REQ'D.
PLEXIGLASS 2 REQ'D.
SILICONE RUBBER 2 REQ'D.
2 DIA
.938
.844
2.156
.953
.888
1.906
㉖ 4 REQ'D.
①
BRAZE
1 3/4
Y+0
㉟
"H"
"C"
MARK
PLI
TELEVISION
SHUNT
CHECK COOLANT
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
"D"
"G"
.375 DIA 2 HOLES
ALUM. PLUG 2024-T4 2 REQ'D.
1.500
.188
VERNIER
5.500
2 1/4
3/16
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMK LOS 0°
OFFSET 25°
TRACKER
CONTROLLER
SPEED
HI
MED
LOW
PANEL BRIGHTNESS
INC
CHECK MODE LAMPS
CHECK CONDITION LAMPS
HORIZ. PHOTOMETER
INC
5
10
2
20
1
50
"F"
2 REQ'D. SEE DETAIL ITEM 2 J1014526
③
⑫
.2038 +.0003 -.0000 DIA.
.875
1.718
3.437
2 5/32
"B"
L375 REF
"A"
.516
SECTION "G-G"
ALUM. PLUG 2024-T4 8 REQ'D.
12 3/4
.718
1.375
2.750
ALUM. PLUG 2024-T4 2 REQ'D
7/8 DIA.
SECTION "J-J"
.690 DIA.
.906
5.500
6
ZERO OPTICS
MANUAL
COMPUTER
SEXTANT POWER
ON
OFF
DIRECT
RESOLVED
MODE
MAP & DATA VIEWER
POWER & BRIGHTNESS
HI
LOW
OFF
FILM DRIVE
SINGLE FRAME
SLEW
UP
DOWN
U
D
IMU TEMP. MODE
PROPORTIONAL
BACKUP
AUTO
OVERRIDE
EMERG.
GAIN PIPA
ZERO
IRIG
3/8
.094
22.812
23.000
23 9/16
㉜
22 1/2° 2 PLACES
.375
.250
.766
.093 TYP.
45°
5/8 R
㉚ 4 REQ'D
7/16 DIA.
1 5/32 TYP. 7 PLACES
SECTION "H-H"
5 REQ'D. ㉗
.2038 +.0003 -.0000 DIA.
1/64 MIN.
⑱
㉔
㉝
⑲
SECTION "A-A"
⑬
⑮
㉓
② 2 REQ'D. SEE DETAIL ITEM 14 J1014526
3/32
.082
⑪
SECTION "D-D"
㉑
1 REQ'D ⑤ 2024-T3 ALUM.
SECTION "F-F"
㉞ ALUM ALLOY 356-T6 2 REQ'D.

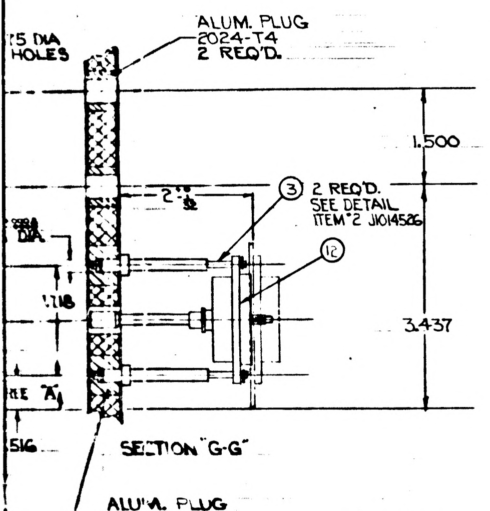
INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

F1 1014578





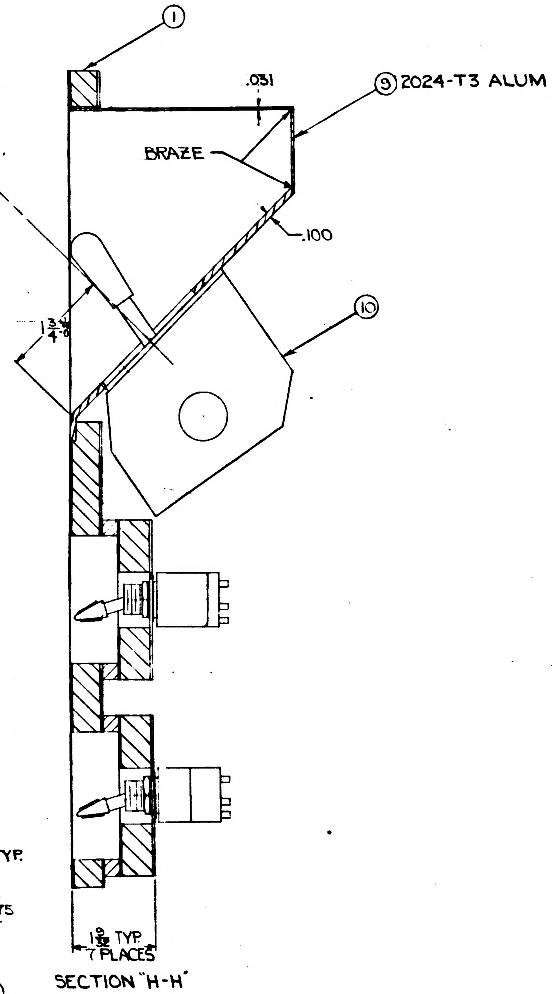
2 DIA
1.938
.844
PLUG
4
D.
2.156
.853
.688
1.906
26 4 REQ'D.



ALUM. PLUG
2024-T4
2 REQ'D.
.75 DIA
HOLES
1.500
2 REQ'D.
SEE DETAIL
ITEM 2 J1014586
3
12
3.437
1.118
DIA
A
.516

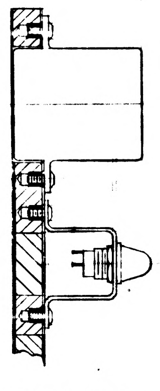
SECTION "G-G"

ALUM. PLUG
2024-T4
8 REQ'D.

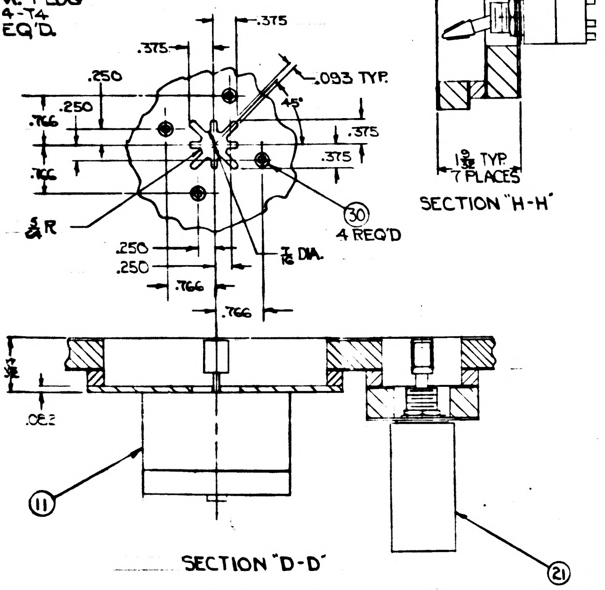


1
.031
9 2024-T3 ALUM
BRAZE
.100
10
1 3/4
1 3/32 TYP.
7 PLACES

SECTION "H-H"

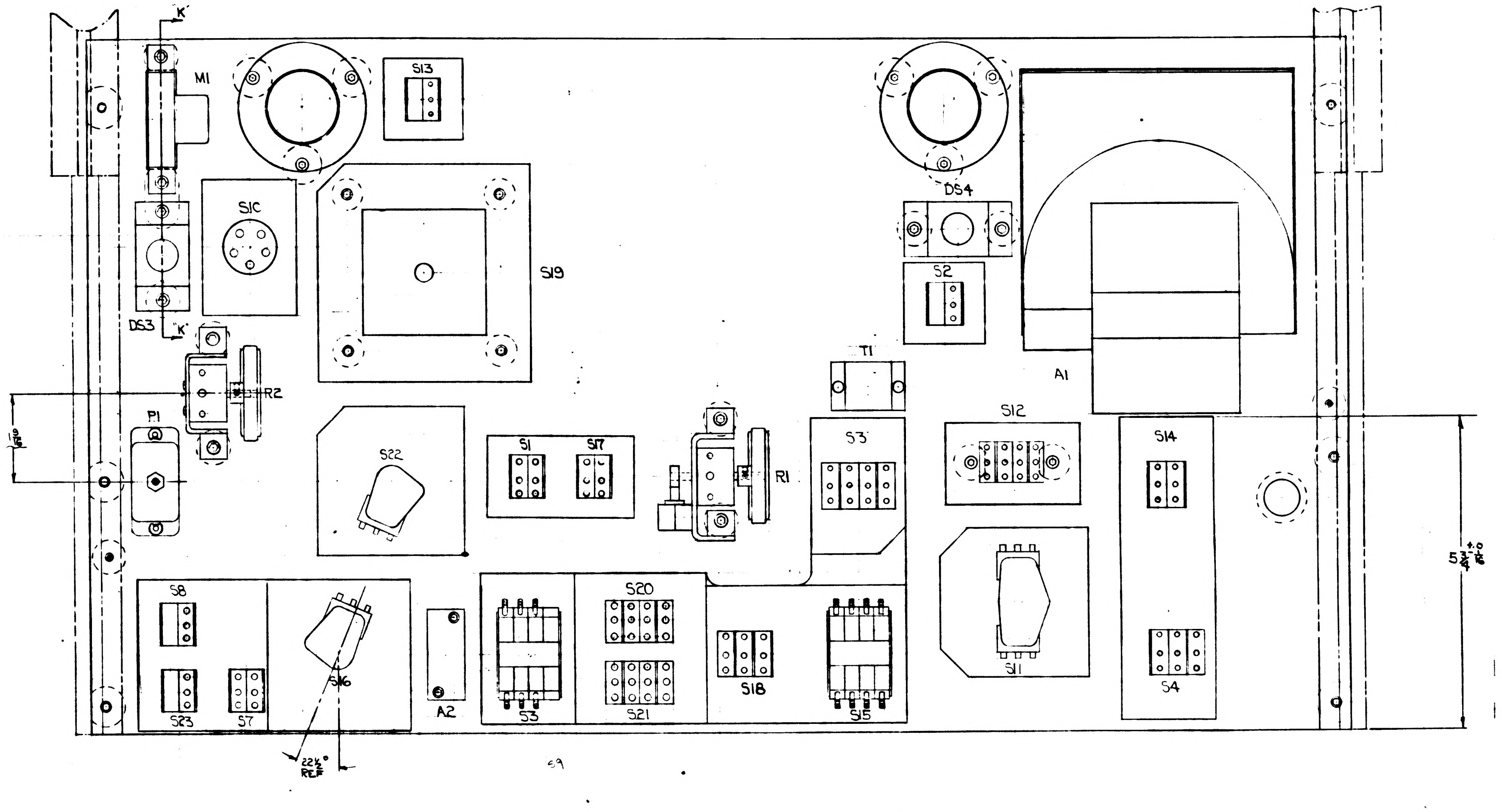


SECTION "K-K"



.375
.375
.093 TYP.
45°
.250
.250
.766
.375
.375
.766
5/8 R
30
4 REQ'D
.250
.250
7/16 DIA.
.766
.766
.082
11
21

SECTION "D-D"



K
M1
S13
DS4
S1C
S19
DS3
K
S2
A1
T1
R2
P1
S22
S1
S17
R1
S3
S12
S14
S11
S8
S16
A2
S20
S21
S18
S15
S4
S23
S7
S3
22 1/2° REF
5 3/4

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

F-2 1014578

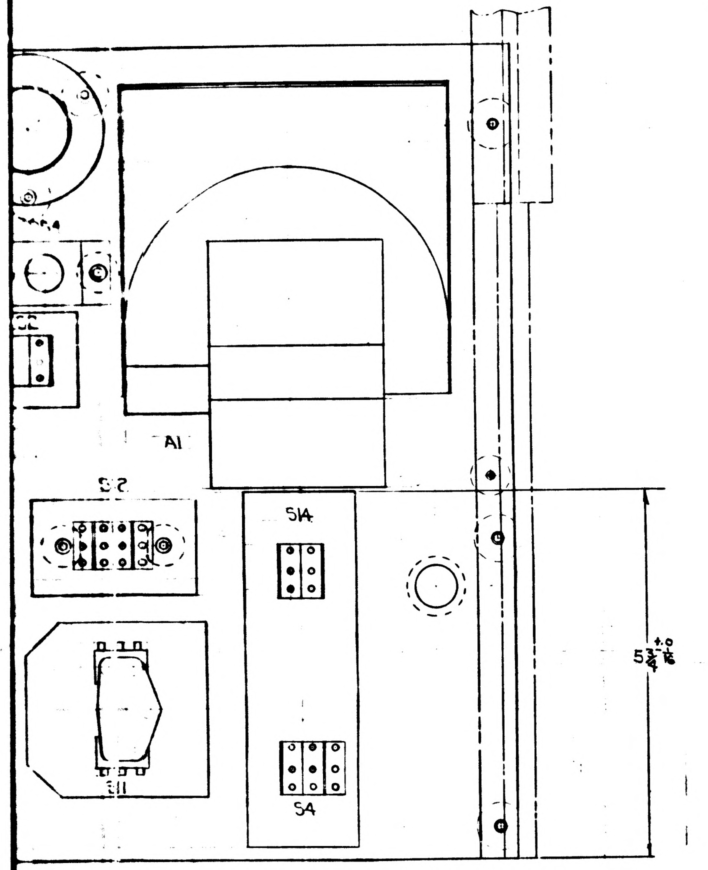
1014578	B

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A.	REVISED	3/25/63	
B.	Ⓑ REPLACED WITH CHANGE BY REV. C TDRR 01646	6/18/63	WK

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00582 DATE 13 MAR 63



①▷ BASIC $\frac{1}{2}$ IN. PANEL MATERIAL: HONEYCOMB, $\frac{1}{4}$ CELL SIZE, .002 FOIL GAUGE, 3003-H19 ALUM. 4.3 DENSITY CORE, .030 SKIN GAUGE, UNLESS OTHERWISE SPECIFIED 2024-T4 ALUM.

ALL PAD MATERIAL: HONEYCOMB, $\frac{1}{8}$ CELL SIZE, .001 FOIL GAUGE, 3003-H19 ALUM. 4.5 DENSITY, .030 SKIN GAUGE, UNLESS OTHERWISE SPECIFIED 2024-T3

ADHESIVE: BOND PER MIL-A-25463, TYPE 2 CLASS 2

FINISH: CHEMICAL FILM PER MIL-C-5541
APPLY COATS OF SEMI-GLOSS PER FED. SPEC. TT-E-529 CLASS A
MEDIUM GRAY, COLOR NO. 26231 OF FED.-STD.-593.

BAND HONEYCOMB EDGES USING HCA 501 EPOXY PUTTY.

MARKING: PIECEMARK WITH PER MIL-STD-130
CHARACTER AND BORDER LINES TO BE SILK SCREEN USING ________ PER FED. SPEC. , CLASS , WHITE COLOR NO. 37875 OF FED.-STD.-595 (NO CLEAR FLAT OVERCOAT). CHARACTERS UNLESS OTHERWISE SPECIFIED, ARE TO BE $\frac{1}{8}$ HIGH FUTURA DEMIBOLD. BORDER LINE TO BE $\frac{1}{16}$ THK.

Ⓑ REPLACED WITH CHANGE BY REV. C

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1		DECAL	35
2		WHEEL	34
1		SWITCH, TOGGLE	33
1		SWITCH, PUSH BUTTON ASS'Y	32
1		METER	31
4	1000104-13	SCREW, FLAT HD.	30
10	1000140	INSERT, THD. SELF LOCKING	29
10	1000093-25	SCREW, BUTTON HD.	28
3	NAS-1081-02-2	SCREW, SELF LOCKING SET	27
4	1000104-4	SCREW, FLAT HD.	26
2		WINDOW	25
1		SWITCH, ROTARY SELECTOR	24
1		SWITCH, ROTARY SELECTOR	23
1		SWITCH, ROTARY SELECTOR	22
1		SWITCH, PUSH BUTTON	21
1		SWITCH, PUSH BUTTON	20
1		SWITCH, TOGGLE	19
1		SWITCH, TOGGLE	18
2		SWITCH, TOGGLE	17
2		POT.	16
1		SWITCH, TOGGLE	15
7		SWITCH, PUSH BUTTON ASS'Y	14
1		SWITCH, PUSH BUTTON ASS'Y	13
1		CONNECTOR (HUGHES WS0108P08DN001)	12
1		ATTITUDE IMPULSE SWITCH ASS'Y	11
1	1014558	SEXTANT HAND CONTROLLER ASS'Y	10
1		SUPPORT, HAND CONTROLLER	9
3		KNOB	8
2		GASKET, WINDOW	7
2		CLAMP, WINDOW	6
2		MOUNTING, BRACKET	5
6	1014503	SCREW, CAPTIVE	4
2		PIN-CONNECTOR	3
2		PIN-PANEL	2
1		PANEL ①▷	1

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± $\frac{1}{64}$ DECIMALS ±.005 ANGLES ± $\frac{1}{2}$°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN M. De Zengo DATE 3/12/63
CHECKED
APPROVAL M. J. Whaler
APPROVAL
NASA APPROVAL 13 March 1963
MIT APPROVAL 13 March 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G & N INDICATOR
CONTROL PANEL ASS'Y

CODE IDENT NO.
SIZE J
NASA DRAWING NO. 1014578
SCALE 1:1
WT
SHEET 1 OF 1

F3 1014578

APOLLO G&N Specification
PS-1014578B
10 December 1963
Class A Release
TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3/10/64	A	06250	3	WLR	
3/31/64	B	06812	3, 4, 5, 6, and 7	WLR	

This specification consists of page i to iii and 1 to 18 inclusive.

APOLLO G&N Specification
PS-1014578
10 December 1963

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the G&N Indicator Control Panel Assembly for use in APOLLO Guidance and Navigation Equipment.

WKupfer 10 Dec 63
MIT/IL DATE

12/11/63
NASA/MSC APPROVAL DATE

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014578
10 December 1963

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the G&N Indicator Control Panel Assembly, Drawing 1014578, hereafter called the assembly.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014578	Final Test Method for G&N Indicator Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014578	G&N Indicator Control Panel Assembly
1014579	G&N Indicator Control Panel (Schematic) (For Reference Only)

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

1014578 C

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
C₁	Ⓒ REPLACES REV B WITH CHANGE TDRR 01646	6/18/63	WK

PICTURE INCOMPLETE

Ⓒ REPLACES REV. B WITH CHANGE

DRAWING FOR REFERENCE
1014579 SCHEMATIC DIAG-G&N PANEL
1014590 SCHEMATIC DIAG-RESISTOR MODULE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1010492	TRANSFORMER	
2	1010435-001	SWITCH-MICRO	
1	1010420	SWITCH-ROTARY	
1	1010478-2	SWITCH-TOGGLE	
1	1010417	SWITCH-ROTARY	
1	1010478-1	SWITCH-TOGGLE	
1	1010494	SWITCH-ROTARY	
1	1010489	SWITCH-TOGGLE	
1	1010484-1	SWITCH-TOGGLE	
1	1010478-3	SWITCH-TOGGLE	
1	1010347-1	CONNECTOR	
3	1010268	LAMP	
1	1014596	RESISTOR MODULE (INSEP. ASSY	
1	1014582	MOUNTING, BRACKET	
2	1014595	BRACKET, LAMP	
1	1014594	MOUNTING PLATE SWITCH	
1	1014591	BRACKET & POT ASS'Y.	
1	1014589	PLATE, MOUNTING, ATT. IMPULSE SW	
1	1014586	SUPPORT, HAND CONTROLLER	
2	1014583	CLAMP, WINDOW	
2	1014587	WINDOW	
4	1014584	GASKET, WINDOW	
2	1014588	WHEEL, POTENTIOMETER	
1	1014585-002	KNOB, ROTARY SWITCH	
2	1014585-001	KNOB, ROTARY SWITCH	
2	1014528	PIN-PANEL	
2	1014530	PIN-CONNECTOR	
6	1014503	SCREW-CAPTIVE, CAP. SOC. HD. FINE	
1	1014643	ATTITUDE IMPULSE SWITCH ASS'Y.	
1	1014558	SEXTANT HAND CONTROLLER ASS'Y.	
1	1014581	PANEL G&N INDICATOR CONTROL (INSEP)	

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± #   DECIMALS ± #   ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG. NO.   CONTRACT

DRAWN N. DE ZENZO DATE 6/14/63
CHECKED E J Boehm 6/18
APPROVAL
APPROVAL
NASA APPROVAL W J Rhine 6-18-63
MIT APPROVAL 19 Jun 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO.   SIZE D   NASA DRAWING NO. 1014578
SCALE #   WT   SHEET 1 OF 1

1014578 C

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014578B
10 December 1963
Class A Release
TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3/10/64	A	06250	3	WLR	
3/31/64	B	06812	3, 4, 5, 6, and 7	WLR	
5/19/64	C	08504	2, 3, and 4		

This specification consists of page i to iii and 1 to 10 inclusive.

APOLLO G&N Specification
PS-1014578 C
10 December 1963

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the G&N Indicator Control Panel Assembly for use in APOLLO Guidance and Navigation Equipment.

WKupfer 10 Dec 63
MIT/IL DATE

W L Swingle 12/11/63
NASA/MSC APPROVAL DATE

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014578 C
10 December 1963

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the G&N Indicator Control Panel Assembly, Drawing 1014578, hereafter called the assembly.

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2.1 The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

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STANDARDS

Military

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DRAWINGS

APOLLO G&N

1014578	G&N Indicator Control Panel Assembly
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D 1014578

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
C1	ⓒ REPLACES REV. B WITH CHANGE TDRR 01646	6/18/63	WK
D1	ⓓ REPLACED WITH CHANGE BY REV. E TDRR 02426	7 AUG 63	WK.

PICTURE INCOMPLETE

ⓓ REPLACED WITH CHANGE REV. E

ⓒ REPLACES REV. B WITH CHANGE

DRAWING FOR REFERENCE

1014579 SCHEMATIC DIAG-G&N PANEL

1014590 SCHEMATIC DIAG-RESISTOR MODULE

MASTER

LIST OF MATERIALS

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1010492	TRANSFORMER	
2	1010435-001	SWITCH-MICRO	
1	1010420	SWITCH-ROTARY	
1	1010478-2	SWITCH-TOGGLE	
1	1010417	SWITCH-ROTARY	
1	1010478-1	SWITCH-TOGGLE	
1	1010494	SWITCH-ROTARY	
1	1010489	SWITCH-TOGGLE	
1	1010484-1	SWITCH-TOGGLE	
1	1010478-3	SWITCH-TOGGLE	
1	1010347-1	CONNECTOR	
3	1010268	LAMP	
1	1014596	RESISTOR MODULE (INSEP. ASSY	
1	1014582	MOUNTING, BRACKET	
2	1014595	BRACKET, LAMP	
1	1014594	MOUNTING PLATE SWITCH	
1	1014591	BRACKET & POT ASS'Y.	
1	1014589	PLATE, MOUNTING, ATT. IMPULSE SW	
1	1014586	SUPPORT, HAND CONTROLLER	
2	1014583	CLAMP, WINDOW	
2	1014587	WINDOW	
4	1014584	GASKET, WINDOW	
2	1014588	WHEEL, POTENTIOMETER	
1	1014585-002	KNOB, ROTARY SWITCH	
2	1014585-001	KNOB, ROTARY SWITCH	
2	1014528	PIN-PANEL	
2	1014530	PIN-CONNECTOR	
6	1014503	SCREW-CAPTIVE, CAP. SOC. HD. FINE	
1	1014643	ATTITUDE IMPULSE SWITCH ASS'Y	
1	1014558	SEXTANT HAND CONTROLLER ASS'Y	
1	1014581	PANEL G&N INDICATOR CONTROL (INSEP)	

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES ON

FRACTIONS ± #   DECIMALS ± #   ANGLES ± #

DO NOT SCALE THIS DRAWING

MATERIAL #

HEAT TREATMENT #

FINAL FINISH #

MIT INSTRUMENTATION LAB

CAMBRIDGE, MASS.

DWG. NO.   CONTRACT

DRAWN N. DE FENZO DATE 6/14/63

CHECKED E J Boch

APPROVAL

APPROVAL

NASA APPROVAL W J Rhine 6-19-63

MIT APPROVAL 19 Jun 63

MANNED SPACECRAFT CENTER

HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO.   SIZE D   NASA DRAWING NO. 1014578

SCALE #   WT   SHEET 1 OF 1

1014578 D

INCHES

0 1 2

PHOTOGRAPHIC SCALE ONLY

Class A Release
TDRR 06139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3/10/64	A	06250	3	WLR	
3/31/64	B	06812	3, 4, 5, 6, and 7	WR	
5/19/64	C	08504	2, 3, and 4		
5/19/64	D	08498	6	WR	

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PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the G&N Indicator Control Panel Assembly for use in APOLLO Guidance and Navigation Equipment.

W Kupfer 10 Dec 63
MIT/IL DATE

W L Swingle 12/13/63
NASA/MSC APPROVAL DATE

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

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APOLLO G&N

1014578	G&N Indicator Control Panel Assembly
1014579	G&N Indicator Control Panel (Schematic) (For Reference Only)

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E		Ⓔ REPLACES REV. D WITH CHANGE	[illegible]	AUG 63	[illegible]

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS 1014578.
4. SERIALIZE PER ND 1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1) USING (66) AND (67).
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.

E	A	A
SHEET 1	SHEET 2	SHEET 3

REVISION STATUS OF SHEETS

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	X			PS1014578	SPECIFICATION
	X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
	1		68	1014624	WIRE LIST A-A
	AR		67	MIL-F-14256	FLUX (ES-2798)
				QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
	AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
NOTE 6	80		65	1010490-50	INSULATION-SLEEVING
NOTE 6	175		64	1010490-52	INSULATION-SLEEVING
	1		63	1014650-1	NAMEPLATE
	1		62	1014580	HARNESS
	1		61	1014600	DECAL
	2		60	MS-16633-4009	RING-RETAINING
NOTE 6	1		59	1000220-10	CLAMP-CABLE
NOTE 6	5		58	1000220-8	CLAMP-CABLE
NOTE 6	2		57	1000220-7	CLAMP-CABLE
			56		
NOTE 6	3		55	1000220-4	CLAMP-CABLE
NOTE 6	10		54		WASHER-CABLE CLAMP
NOTE 6	1		53		WASHER-CABLE CLAMP
NOTE 6	2		52	1000159-8	"O"-RING
NOTE 6	4		51	1010477-1	SCREW-FLAT HD., SELF LOCK
NOTE 6	18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6	2		49	1006783-96	SCREW-BUTTON HD.
NOTE 6	3		48	1006783-18	SCREW-BUTTON HD.
NOTE 6	2		47	1010630-25	SCREW-FLAT HD.
NOTE 6	10		46	1006783-19	SCREW-BUTTON HD.
	10		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6	12		44	1010630-14	SCREW-FLAT HD.
	6		43	1014503	SCREW-CAPTIVE
NOTE 6	2		42	1010634	NUT-HEX RETAINING
NOTE 6	2		41	1000159-7	"O"-RING
NOTE 6	2		40	1010635-002	WASHER-LOCK
NOTE 6	3		39	1010268-2	LAMP-INCANDESCENT
	2		38	1010625	HOLDER, LAMP
	2		37	1014595	BRACKET, MOUNTING-LAMP
	1		36	1014594	PLATE, MOUNTING SWITCH
	2		35	1014587	WINDOW
	4		34	1014584	GASKET, WINDOW
	2		33	1014583	CLAMP, WINDOW
	2		32	1014530	PIN-CONNECTOR
	2		31	1014528	PIN-PANEL
	2		30	1014588	WHEEL, POTENTIOMETER
	1		29	1014582	BRACKET, MOUNTING
	1		28	1014586	SUPPORT, HAND CONTROLLER
	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6	9		26	1010475	CAP, PUSHBUTTON
	1		25	1014585-002	KNOB, ROTARY SWITCH
	2		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6	1		23	1010494	SWITCH ASSY, ROTARY
	1		22	1010417-1	SWITCH ASSY, ROTARY
	1		21	1010417-2	SWITCH ASSY, ROTARY
	1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
	3		19	1010480-3	SWITCH ASSY, PUSH BUTTON
	4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
	2		17	1010480-1	SWITCH ASSY, PUSH BUTTON
	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1		15	1010479-2	SWITCH ASSY, TOGGLE
	1		14	1010479-1	SWITCH ASSY, TOGGLE
	1		13	1010484-1	SWITCH ASSY, TOGGLE
	1		12	1010478-3	SWITCH ASSY, TOGGLE
	1		11	1010478-2	SWITCH ASSY, TOGGLE
NOTE 6	1		10	1010478-1	SWITCH ASSY, TOGGLE
			9		
NOTE 6	1		8		POTENTIOMETER-PRECISION
NOTE 6	1		7	1010492	TRANSFORMER, POWER
NOTE 6	1		6	1010612	METER-ELECTRICAL INDICATING
	1		5	1014643	ATTITUDE IMPULSE SWITCH ASSY.
	1		4	1014558	SEXTANT HAND CONTROLLER ASSY
	1		3	1014596	RESISTOR MODULE A-2 ASSY.
	1		2	1014591	BRACKET & POT. ASSEMBLY
	1		1	1014581	PANEL G&N IND. CONT. INSERT

LIST OF PARTS AND MATERIALS

Ⓔ REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513	1014513	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± —— ± —— ± ——

DO NOT SCALE THIS DRAWING

MATERIAL ——

CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED 2 JUL 63
APPROVAL 2 JULY 63
APPROVAL 3 JULY 63
NASA APPROVAL 8/7/63 8/7/63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE ——
WEIGHT
SHEET 1 OF 3

Charleston 2-JUL-63

E 1014578

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS					
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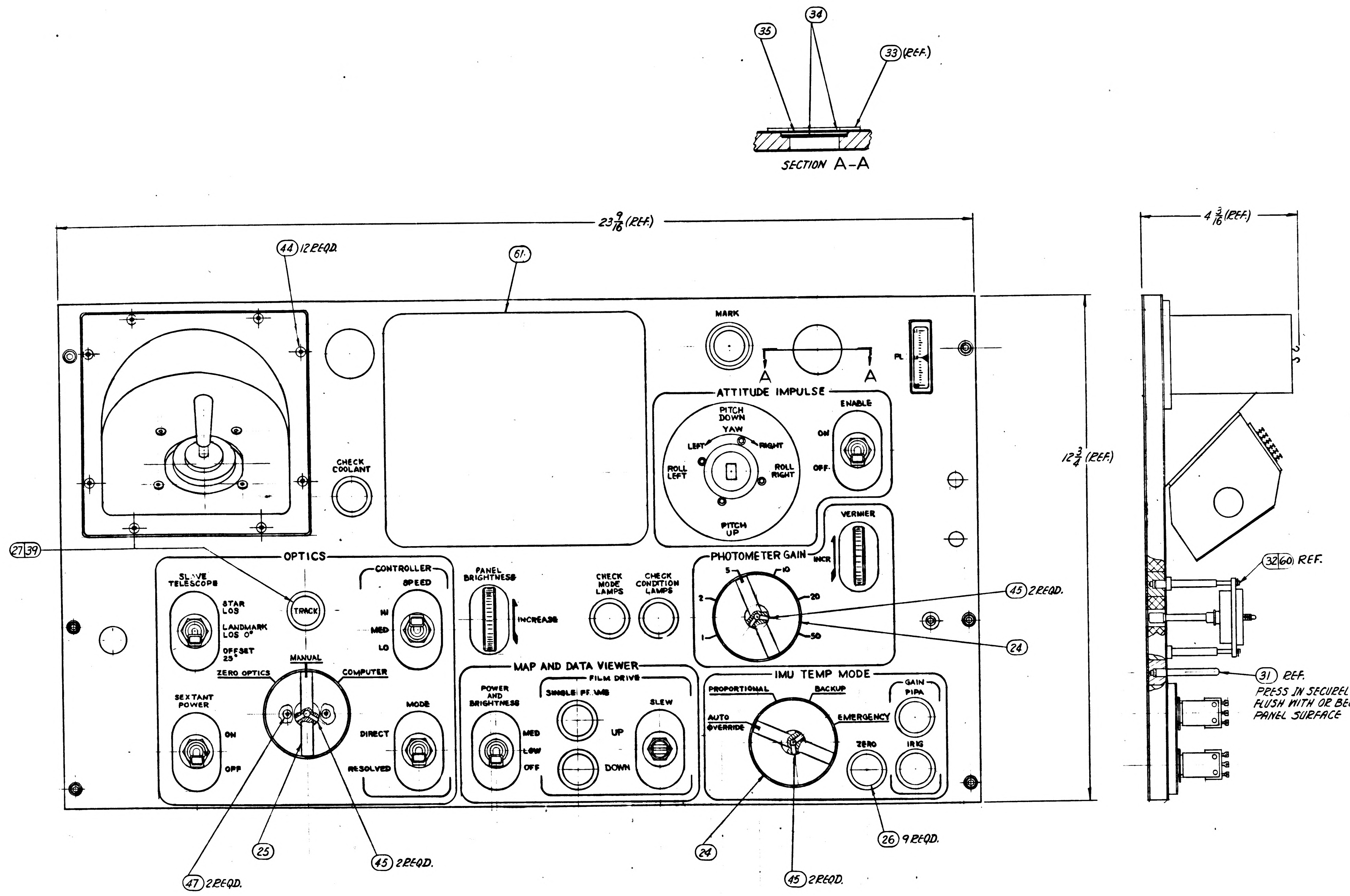
E			TJRK 02424	[illegible] 63	w.c


35
34
33 (REF.)
SECTION A-A
23 9/16 (REF.)
4 3/16 (REF.)
44 12 REQD.
61
MARK
A
A
PL
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
CHECK COOLANT
12 3/4 (REF.)
VERNIER
INCR
PHOTOMETER GAIN
5
10
2
20
1
50
27 39
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
45 2 REQD.
24
32 60 REF.
MANUAL
ZERO OPTICS
COMPUTER
SEXTANT POWER
ON
OFF
MODE
DIRECT
RESOLVED
MAP AND DATA VIEWER
POWER AND BRIGHTNESS
FILM DRIVE
SINGLE FRAME
SLEW
UP
DOWN
MED
LOW
OFF
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
IRIG
31 REF.
PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE
25
45 2 REQD.
47 2 REQD.
24
45 2 REQD.
26 9 REQD.

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
APPLICATION			DO NOT SCALE THIS DRAWING	DRAWN E. LITZOW DATE 26 JUNE 63 CHECKED W. Fiehl 2 [illegible] 63 APPROVAL D W Mueling [illegible] 63 APPROVAL [illegible] 3 July 63	G&N INDICATOR CONTROL PANEL ASSEMBLY
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES			MATERIAL	NASA APPROVAL [illegible] 8/7/63 [illegible] 8/7/63	CODE IDENT NO. — SIZE E — 1014578
			CONTRACT NAS 9-497	MIT APPROVAL [illegible] Aug 63	SCALE — SHEET 2 OF 3

1014578

INCHES 0 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
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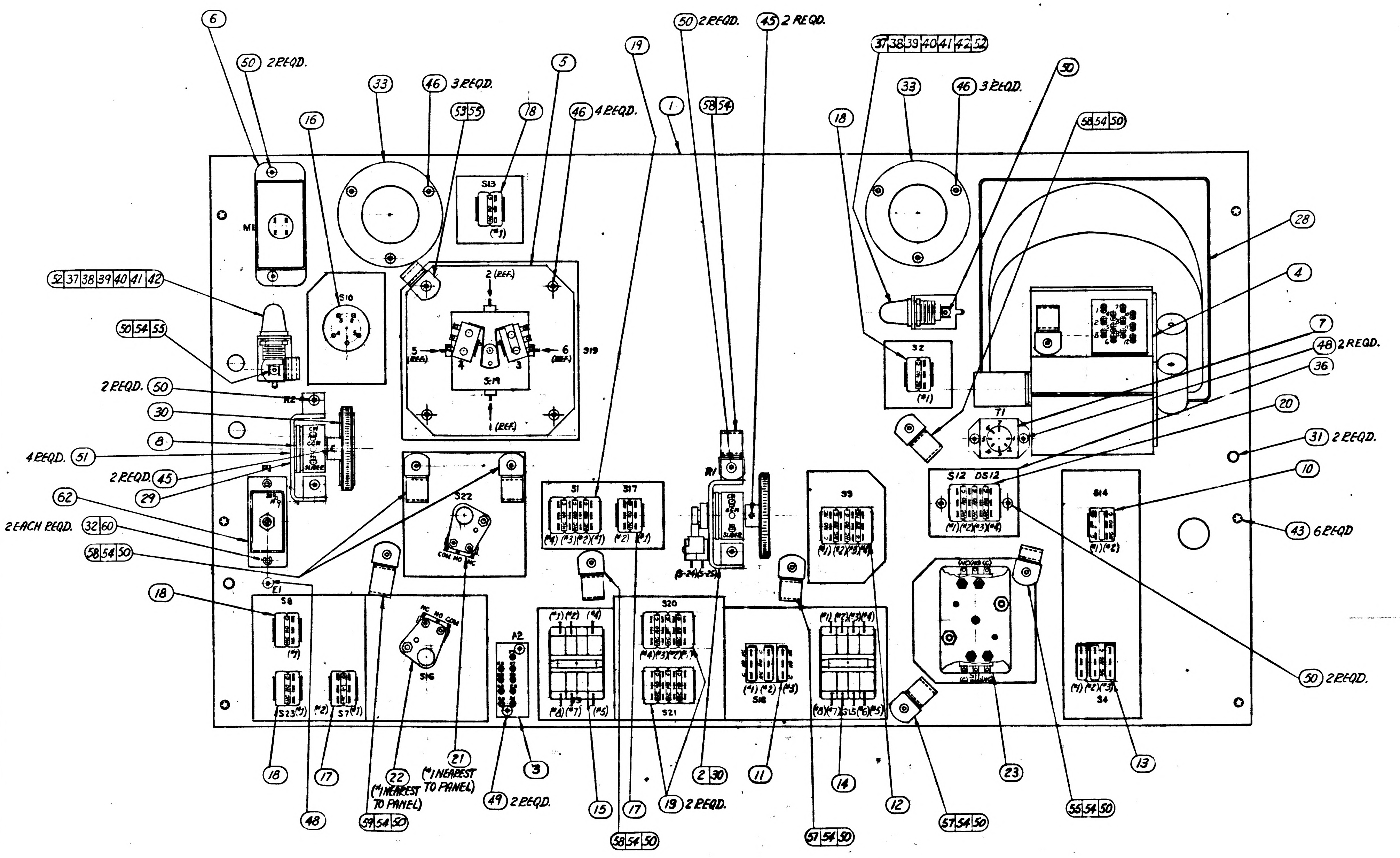

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50 2 REQD.
16
33
46 3 REQD.
53 55
18
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46 4 REQD.
19
1
50 2 REQD.
58 54
45 2 REQD.
37 38 39 40 41 42 52
33
46 3 REQD.
18
50
58 54 50
28
4
7
48 2 REQD.
36
20
31 2 REQD.
10
43 6 REQD
50 2 REQD.
52 37 38 39 40 41 42
50 54 55
2 REQD. 50
30
8
4 REQD. 51
2 REQD. 45
29
62
2 EACH REQD. 32 60
58 54 50
18
M1
S10
S13
(#1)
2 (REF.)
5 (REF.)
6 (REF.)
1 (REF.)
S19
R2
CW
CCW
SLIDER
R1
E1
S22
COM NO NC
S1
S17
(#4) (#3) (#2) (#1)
(#2) (#1)
(S-24)(S-25)
S2
T1
S9
S12 DS12
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S14
(#1)(#2)
S8
(#1)
S23(#1)
(#2)
S7(#1)
S16
NC NO COM
A2
(#1) (#2) (#4)
(#8)(#7) (#5)
S20
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S21
(#1) (#2) (#3)
S18
(#1) (#2)(#3)(#4)
(#8)(#7) S15 (#6)(#5)
S4
18
17
48
22
(#1 NEAREST TO PANEL)
59 54 50
21
(#1 NEAREST TO PANEL)
49 2 REQD.
3
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58 54 50
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2 30
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57 54 50
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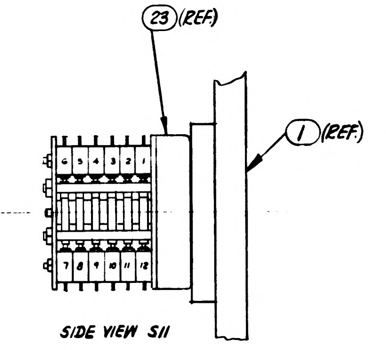
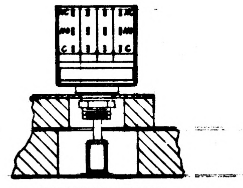
12
57 54 50
23
55 54 50
13



SIDE VIEW S11



TYPICAL VIEW
S9 AND S15

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+ — + — + —
— — — — — —
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MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Tiehl 2 JUL 63
APPROVAL D.W. Mealing 2 Jul '63
APPROVAL 3 JULY 63
NASA APPROVAL 8/7/63
MIT APPROVAL 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE —
SHEET 3 OF 3

1014578

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS 1014578.
4. SERIALIZE PER ND 1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1) USING ㊻ AND ㊼.
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E		Ⓔ REPLACES REV. D WITH CHANGE.	TDRR 02424	AUG. 63	
F		Ⓕ ADDED PART NO'S. 1011918-3 & 1011918-1. Ⓕ DELETED ITEMS 40, 41, 42, 52 & 61. TDRR 03198			

E	A	A
SHEET 1	SHEET 2	SHEET 3
REVISION STATUS OF SHEETS		

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	X			PS1014578	SPECIFICATION
	X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
	1		68	1014624	WIRE LIST A-A
	AR		67	MIL-F-14256	FLUX (ES-2798)
				QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
	AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
NOTE 6	80		65	1010490-50	INSULATION-SLEEVING
NOTE 6	175		64	1010490-52	INSULATION-SLEEVING
	1		63	1014650-1	NAME PLATE
	1		62	1014580	HARNESS
			61		
	2		60	MS-16633-4009	RING-RETAINING
NOTE 6	1		59	1000220-10	CLAMP-CABLE
NOTE 6	5		58	1000220-8	CLAMP-CABLE
NOTE 6	2		57	1000220-7	CLAMP-CABLE
			56		
NOTE 6	3		55	1000220-4	CLAMP-CABLE
NOTE 6	10		54	1011918-3	WASHER-CABLE CLAMP
NOTE 6	1		53	1011918-1	WASHER-CABLE CLAMP
			52		
NOTE 6	4		51	1010477-1	SCREW-FLAT HD., SELF LOCK
NOTE 6	18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6	2		49	1006783-96	SCREW-BUTTON HD.
NOTE 6	3		48	1006783-18	SCREW-BUTTON HD.
NOTE 6	2		47	1010630-25	SCREW-FLAT HD.
NOTE 6	10		46	1006783-19	SCREW-BUTTON HD.
	10		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6	12		44	1010630-14	SCREW-FLAT HD.

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	6		43	1014503	SCREW-CAPTIVE
			42		
			41		
			40		
NOTE 6	3		39	1010268-2	LAMP-INCANDESCENT
	2		38	1010625	HOLDER, LAMP
	2		37	1014595	BRACKET, MOUNTING-LAMP
	1		36	1014594	PLATE, MOUNTING SWITCH
	2		35	1014587	WINDOW
	4		34	1014584	GASKET, WINDOW
	2		33	1014583	CLAMP, WINDOW
	2		32	1014530	PIN-CONNECTOR
	2		31	1014528	PIN-PANEL
	2		30	1014588	WHEEL, POTENTIOMETER
	1		29	1014582	BRACKET, MOUNTING
	1		28	1014586	SUPPORT, HAND CONTROLLER
	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6	9		26	1010475	CAP, PUSHBUTTON
	1		25	1014585-002	KNOB, ROTARY SWITCH
	2		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6	1		23	1010494	SWITCH ASSY, ROTARY
	1		22	1010417-1	SWITCH ASSY, ROTARY
	1		21	1010417-2	SWITCH ASSY, ROTARY
	1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
	3		19	1010480-3	SWITCH ASSY, PUSH BUTTON
	4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
	2		17	1010480-1	SWITCH ASSY, PUSH BUTTON
	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1		15	1010479-2	SWITCH ASSY, TOGGLE
	1		14	1010479-1	SWITCH ASSY, TOGGLE
	1		13	1010484-1	SWITCH ASSY, TOGGLE
	1		12	1010478-3	SWITCH ASSY, TOGGLE
	1		11	1010478-2	SWITCH ASSY, TOGGLE
NOTE 6	1		10	1010478-1	SWITCH ASSY, TOGGLE
			9		
NOTE 6	1		8		POTENTIOMETER-PRECISION
NOTE 6	1		7	1010492	TRANSFORMER, POWER
NOTE 6	1		6	1010612	METER-ELECTRICAL INDICATING
	1		5	1014643	ATTITUDE IMPULSE SWITCH ASSY.
	1		4	1014558	SEXTANT HAND CONTROLLER ASSY.
	1		3	1014596	RESISTOR MODULE A-2 ASSY.
	1		2	1014591	BRACKET & POT. ASSEMBLY
	1		1	1014581	PANEL, G&N IND. CONT. (INSEP.)

Ⓔ REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513	1014513	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Dwell 2 Jul 63
APPROVAL D.W. Minkey 2 Jul 63
APPROVAL 3 Jul 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

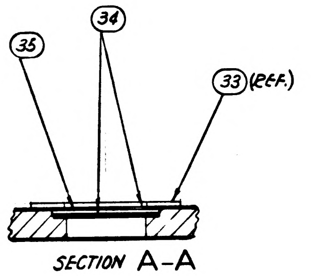
G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE
WEIGHT
SHEET 1 OF 3

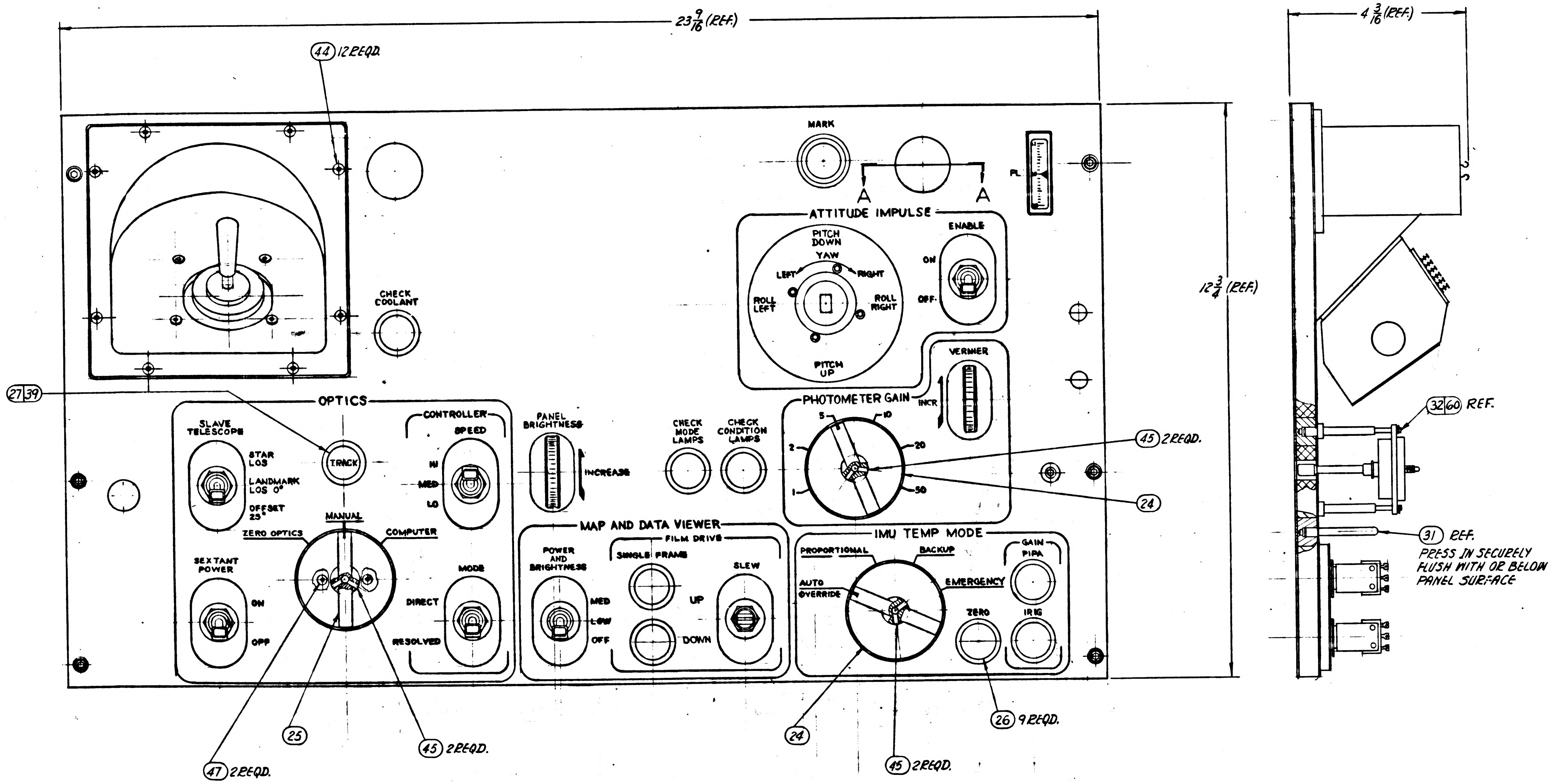
Charleston 2 JUL 63

1014578

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E			TDRR 02426	[illegible] 63	wil
F			TDRR 03198	9/18/63	wK



SECTION A-A



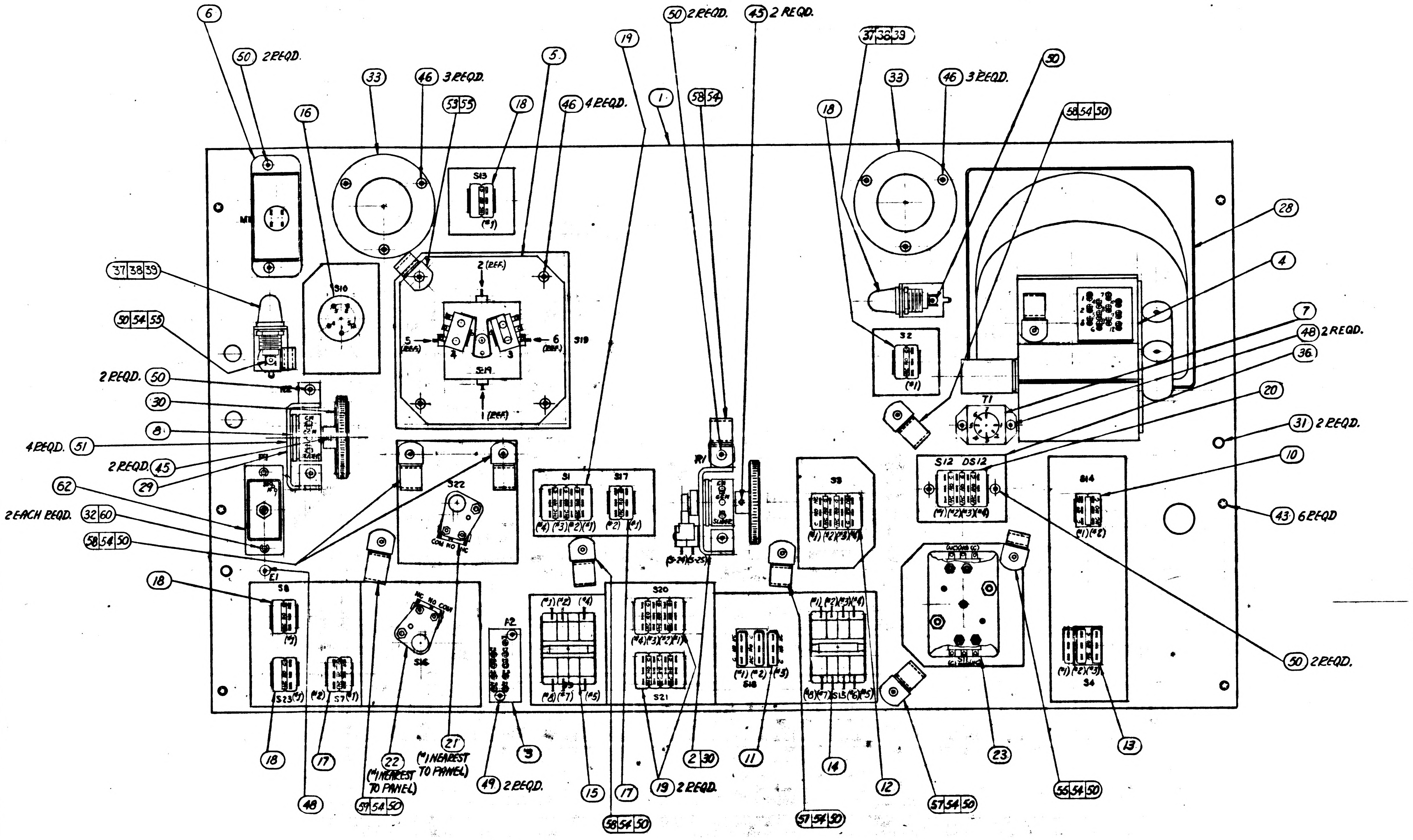
23 9/16 (REF.)
44 12 REQD.
MARK
A
A
PL
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
VERNIER
INCR
CHECK COOLANT
12 3/4 (REF.)
27 39
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
MANUAL
ZERO OPTICS
COMPUTER
SEXTANT POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
PHOTOMETER GAIN
5
10
2
20
1
50
45 2 REQD.
24
MAP AND DATA VIEWER
FILM DRIVE
POWER AND BRIGHTNESS
SINGLE FRAME
SLEW
MED
LOW
OFF
UP
DOWN
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
IRIG
26 9 REQD.
24
45 2 REQD.
25
45 2 REQD.
47 2 REQD.
4 3/16 (REF.)
32 60 REF.
31 REF.
PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE

THIS SHEET ADDED

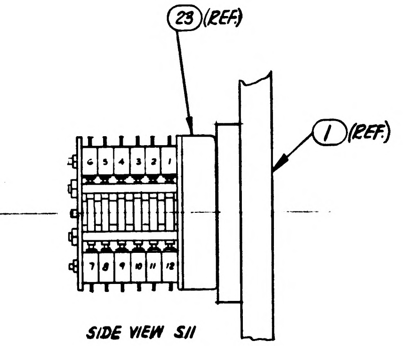
			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES + — + — + — — — — — — —	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
				ACSP PN
				DRAWN E. LITZOW DATE 26 JUNE 63
				CHECKED W. Diehl 2 JUL 63
				APPROVAL DW [illegible]
			DO NOT SCALE THIS DRAWING	APPROVAL [illegible] 3 Jul 63
NEXT ASSY	USED ON	APPLICABLE DASH NO.	MATERIAL	NASA APPROVAL [illegible]
APPLICATION				
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES			CONTRACT NAS 9-497	MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
G&N INDICATOR CONTROL PANEL ASSEMBLY		
CODE IDENT NO.	SIZE E	1014578
SCALE —		SHEET 2 OF 3

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E			TDRR 02426	7 Jan 63	[illegible]
F			TDRR 03198	9/18/63	W.C.

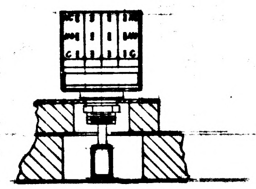


6
50 2 REQD.
33
46 3 REQD.
53 55
18
5
46 4 REQD.
19
1
50 2 REQD.
58 54
45 2 REQD.
37 38 39
33
46 3 REQD.
50
58 54 50
16
18
28
4
7
48 2 REQD.
36
20
31 2 REQD.
10
43 6 REQD
50 2 REQD.
37 38 39
50 54 55
2 REQD. 50
30
8
4 REQD. 51
2 REQD. 45
29
62
2 EACH REQD. 32 60
58 54 50
18
M1
S10
S13
(#1)
2 (REF.)
5 (REF.)
6 (REF.)
1 (REF.)
S19
R2
R1
E1
S22
COM NO NC
S1
(#4) (#3) (#2) (#1)
S17
(#2) (#1)
(S-24) (S-25)
S3
(#1) (#2) (#3) (#4)
S2
(#1)
T1
S12 DS12
(#1) (#2) (#3) (#4)
S14
(#1) (#2)
S8
(#1)
S23 (#1)
(#2) S7 (#1)
NC NO COM
S16
A2
(#1) (#2) (#4)
(#8) (#7) (#5)
S20
(#4) (#3) (#2) (#1)
S21
S18
(#1) (#2) (#3)
(#1) (#2) (#3) (#4)
(#8) (#7) S15 (#6) (#5)
S11
(#1) (#2) (#3)
S4
18
17
48
22
(#1 NEAREST TO PANEL)
57 54 50
21
(#1 NEAREST TO PANEL)
49 2 REQD.
3
15
17
58 54 50
19 2 REQD.
2 30
11
57 54 50
14
12
57 54 50
23
55 54 50
13



23 (REF.)
1 (REF.)
6 5 4 3 2 1
7 8 9 10 11 12

SIDE VIEW S11



TYPICAL VIEW
S9 AND S16

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Diehl 2 JUL 63
APPROVAL [illegible] 2 Jul '63
APPROVAL [illegible] 3 July 63
NASA APPROVAL [illegible]
MIT APPROVAL [illegible] 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE
SHEET 3 OF 3

1014578

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS 1014578.
4. SERIALIZE PER ND 1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1) USING (66) AND (67).
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.
7. ITEM 64 TO BE USED ON ALL SINGLE CONDUCTOR CONNECTIONS OF ITEMS 62 AND 68.
8 ITEM 65 TO BE USED ON ALL MULTIPLE CONDUCTOR CONNECTIONS OF ITEMS 62 AND 68.

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E		(E1) REPLACES REV. D WITH CHANGE	TDRR 02426	7 AUG 63	WK.
F		(F1) ADDED PART NO'S. 1011918-3 & 1011918-1. (F2) DELETED ITEMS 40, 41, 42, 52 & 61. TDRR 03198		9/19/63	WK
G 15		REVISED PER TDRR NO. 04622		18 NOV 63	WK

G	G	G
E	A	A
SHEET 1	SHEET 2	SHEET 3

REVISION STATUS OF SHEETS

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED			011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
NOTE 6				1		70	1006783-21	SCREW, BUTTON HD
NOTE 6				1		69	1010624-2	LAMP-INCANDESCENT
				X			PS1014578	SPECIFICATION
				X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
				1		68	1014624	WIRE LIST A-A
				AR		67	MIL-F-14256	FLUX (ES-2798)
							QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
				AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
NOTE 6 & 8				80		65	1010490-080	INSULATION-SLEEVING
NOTE 6 & 7				175		64	1010490-082	INSULATION-SLEEVING
				1		63	1014650-1	NAMEPLATE
				1		62	1014580	HARNESS
				2		60	MS-16633-4009	RING-RETAINING
NOTE 6				1		59	1000220-10	CLAMP-CABLE
NOTE 6				5		58	1000220-8	CLAMP-CABLE
NOTE 6				2		57	1000220-7	CLAMP-CABLE
						56		
NOTE 6				3		55	1000220-4	CLAMP-CABLE
NOTE 6				10		54		WASHER-CABLE CLAMP
NOTE 6				1		53	1011918-1	WASHER-CABLE CLAMP
NOTE 6				4		51	1010477-1	SCREW-FLAT HD., SELF LOCK
NOTE 6				18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6				2		49	1006783-96	SCREW-BUTTON HD.
NOTE 6				2		48	1006783-18	SCREW-BUTTON HD.
NOTE 6				2		47	1010630-25	SCREW-FLAT HD.
NOTE 6				10		46	1006783-19	SCREW-BUTTON HD.
				10		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6				12		44	1010630-14	SCREW-FLAT HD.
				6		43	1014503	SCREW-CAPTIVE
						42		
						41		
						40		
NOTE 6				2		39	1010268-2	LAMP-INCANDESCENT
				2		38	1010625	HOLDER, LAMP
				2		37	1014595	BRACKET, MOUNTING-LAMP
				1		36	1014594	PLATE, MOUNTING SWITCH
				2		35	1014587	WINDOW
				4		34	1014584	GASKET, WINDOW
				2		33	1014583	CLAMP, WINDOW
				2		32	1014530	PIN-CONNECTOR
				2		31	1014528	PIN-PANEL
				2		30	1014588	WHEEL, POTENTIOMETER
				1		29	1014582	BRACKET, MOUNTING
				1		28	1014586	SUPPORT, HAND CONTROLLER
				1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6				9		26	1010475	CAP, PUSH BUTTON
				1		25	1014585-002	KNOB, ROTARY SWITCH
				2		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6				1		23	1010494	SWITCH ASSY, ROTARY
				1		22	1010417-1	SWITCH ASSY, ROTARY
				1		21	1010417-2	SWITCH ASSY, ROTARY
				1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
				3		19	1010480-3	SWITCH ASSY, PUSH BUTTON
				4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
				2		17	1010480-1	SWITCH ASSY, PUSH BUTTON
				1		16	1010489-1	SWITCH ASSY, TOGGLE
				1		15	1010479-2	SWITCH ASSY, TOGGLE
				1		14	1010479-1	SWITCH ASSY, TOGGLE
				1		13	1010484-1	SWITCH ASSY, TOGGLE
				1		12	1010478-3	SWITCH ASSY, TOGGLE
				1		11	1010478-2	SWITCH ASSY, TOGGLE
NOTE 6				1		10	1010478-1	SWITCH ASSY, TOGGLE
						9		
NOTE 6				1		8		POTENTIOMETER-PRECISION
NOTE 6				1		7	1010492	TRANSFORMER, POWER
NOTE 6				1		6	1010612	METER-ELECTRICAL INDICATING
				1		5	1014643	ATTITUDE IMPULSE SWITCH ASSY
				1		4	1014558-011	SEXTANT HAND CONTROLLER ASSY
				1		3	1014590	RESISTOR MODULE A-2 ASSY
				1		2	1014591-011	BRACKET & POT. ASSEMBLY
				1		1	1014581	PANEL, G&N IND. CONT. (INSERT)

(E1) REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513	1014513	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 28 JUNE 63
CHECKED W. Deall 2 Jul 63
APPROVAL D.W. Minley 2 Jul 63
APPROVAL 3 Jul 63
NASA APPROVAL 9/17/63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

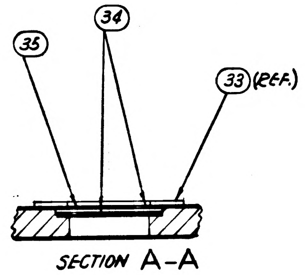
G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO. SIZE E 1014578
SCALE — WEIGHT SHEET 1 OF 3

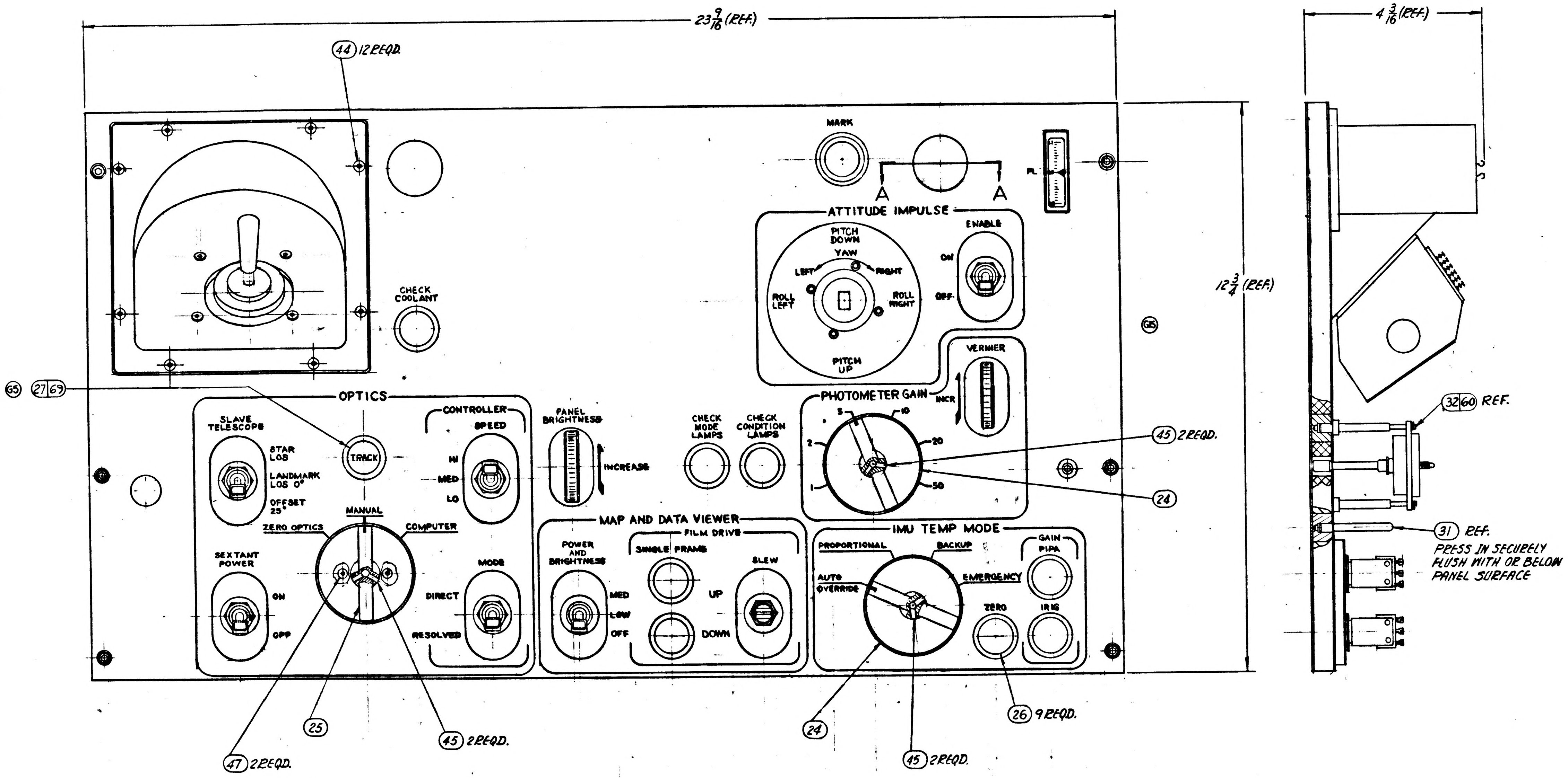
Charleston 2 Jul 63

1014578 G

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
E			TAR 02426	7 Aug 63	WK
F			TDRR 03198	9/18/63	WK
G		SEE SHEET 1		18 NOV 63	WK



35
34
33 (REF.)
SECTION A-A



23 9/16 (REF.)
4 3/16 (REF.)
12 3/4 (REF.)
44 12 REQD.
CHECK COOLANT
MARK
A
A
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
VERNIER
INCR
PHOTOMETER GAIN
5
10
2
20
1
50
45 2 REQD.
24
65
27 69
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
MANUAL
ZERO OPTICS
COMPUTER
SEXTANT POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
MAP AND DATA VIEWER
POWER AND BRIGHTNESS
FILM DRIVE
SINGLE FRAME
SLEW
MED
LOW
OFF
UP
DOWN
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
IRIG
25
47 2 REQD.
45 2 REQD.
24
45 2 REQD.
26 9 REQD.
32 60 REF.
31 REF.
PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

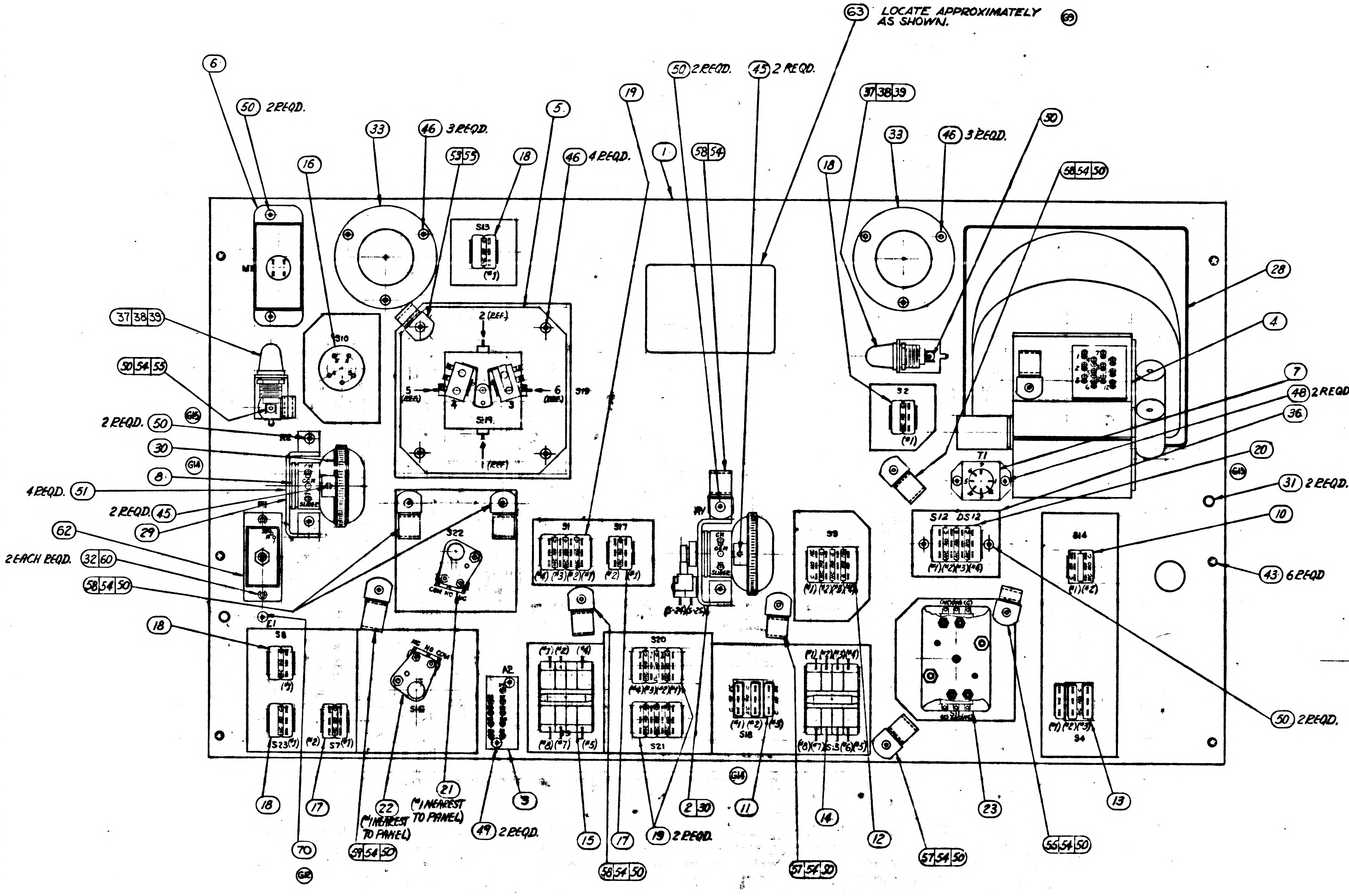
AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Diehl 2 Jul 63
APPROVAL DW Mulry
APPROVAL 3 July 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

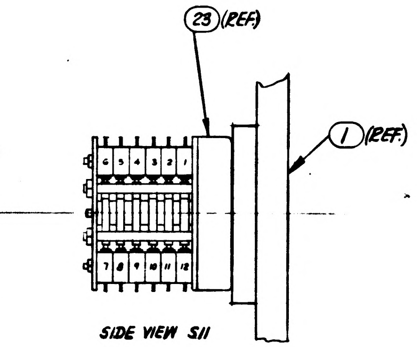
G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE —
SHEET 2 OF 3

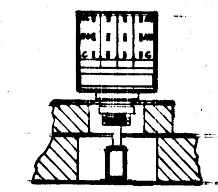
REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E			TDRR 02420	[illegible] 63	[illegible]
F			TDRR 03198	9/10/63	W.C.
G		SEE SHEET NO. 1		21 Nov 63	[illegible]



63 LOCATE APPROXIMATELY AS SHOWN.
69
6
50 2 REQD.
33
46 3 REQD.
53 55
16
18
5
46 4 REQD.
19
1
50 2 REQD.
58 54
45 2 REQD.
37 38 39
33
46 3 REQD.
50
18
58 54 50
28
4
7
48 2 REQD.
36
20
31 2 REQD.
10
43 6 REQD
50 2 REQD.
37 38 39
50 54 55
2 REQD. 50
30
8
4 REQD. 51
2 REQD. 45
29
62
2 EACH REQD. 32 60
58 54 50
18
M1
S10
S13
(#1)
2 (REF.)
5 (REF.)
6 (REF.)
1 (REF.)
4
3
S19
S22
COM NO NC
E1
S8
S23
S7
S16
A2
S1
S17
S20
S21
S18
S9
S15
S2
T1
S12 DS12
S14
S4
(S-24)(S-25)
G15
G14
G13
G12
18
17
70
22 (#1 NEAREST TO PANEL)
59 54 50
21 (#1 NEAREST TO PANEL)
49 2 REQD.
3
15
17
58 54 50
19 2 REQD.
2 30
11
57 54 50
14
12
57 54 50
23
55 54 50
13



SIDE VIEW S11



TYPICAL VIEW S9 AND S15

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN E. LITZOW DATE 26 JUNE 63 CHECKED W. Tiell 2 JUL 63 APPROVAL D.W. Mickey 2 Jul '63 APPROVAL [illegible] 3 July 63	MANNED SPACECRAFT CENTER HOUSTON, TEXAS G&N INDICATOR CONTROL PANEL ASSEMBLY
APPLICATION			MATERIAL	NASA APPROVAL [illegible]	CODE IDENT NO. SIZE E 1014578
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES			CONTRACT NAS 9-497	MIT APPROVAL [illegible] 63	SCALE — SHEET 3 OF 3

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014578 G
10 December 1963
Class A Release
TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3/10/64	A	06250	3	WK	WLS
3/31/64	B	06812	3, 4, 5, 6, and 7	WK	WLS
5/19/64	C	08504	2, 3, and 4	IH	WLS
5/19/64	D	08498	6	WK	WLS
5/26/64	E	08751	8	WK	WJR
6/16/64	F	10150	3, 4, 5, 7, 8	WK	WJR
6/9/64	G	10070	9	WK	WJR

This specification consists of page i to iii and 1 to 10 inclusive.

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the G&N Indicator Control Panel Assembly for use in APOLLO Guidance and Navigation Equipment.

WKupfer 10 Dec 63
MIT/IL DATE

12/11/63
NASA/MSC APPROVAL DATE

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the G&N Indicator Control Panel Assembly, Drawing 1014578, hereafter called the assembly.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014578	Final Test Method for G&N Indicator Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014578	G&N Indicator Control Panel Assembly
1014579	G&N Indicator Control Panel (Schematic) (For Reference Only)

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E		Ⓔ REPLACES REV. D WITH CHANGE	TDRR 02426	AUG 63	WK
F		Ⓕ ADDED PART NO'S. 1011918-3 & 1011918-1. Ⓕ DELETED ITEMS 40, 41, 42, 52 & 61. TDRR 03198		9/19/63	WK
G 15		REVISED PER TDRR NO. 04622		18 NOV 63	WK
H 4		REVISED PER TDRR NO. 04959		DEC 63	

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS 1014578.
4. SERIALIZE PER ND 1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1) USING (66) AND (67).
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.

(H2)

H	G	H
G	G	G
E	A	4
SHEET 1	SHEET 2	SHEET 3

REVISION STATUS OF SHEETS

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
NOTE 6	1		70	1006783-21	SCREW, BUTTON HD
NOTE 6	1		69	1010624-2	LAMP-INCANDESCENT
	X			PS1014578	SPECIFICATION
	X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
	1		68	1014624	WIRE LIST A-A
	AR		67	MIL-F-14256	FLUX (ES-2798)
				QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
	AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
(H1)					
	1		63	1014650-1	NAMEPLATE
	1		62	1014580	HARNESS
	2		60	MS-16633-4009	RING-RETAINING
NOTE 6	1		59	1000220-10	CLAMP-CABLE
NOTE 6	5		58	1000220-8	CLAMP-CABLE
NOTE 6	2		57	1000220-7	CLAMP-CABLE
			56		
NOTE 6	3		55	1000220-4	CLAMP-CABLE
NOTE 6	10		54	1011918-3	WASHER-CABLE CLAMP
NOTE 6	1		53	1011918-1	WASHER-CABLE CLAMP
NOTE 6	4		51	1010477-1	SCREW-FLAT HD., SELF LOCK
NOTE 6	18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6	2		49	1006783-96	SCREW-BUTTON HD.
NOTE 6	2		48	1006783-18	SCREW-BUTTON HD.
NOTE 6	2		47	1010630-25	SCREW-FLAT HD.
NOTE 6	10		46	1006783-19	SCREW-BUTTON HD.
	10		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6	12		44	1010630-14	SCREW-FLAT HD.
	6		43	1014503	SCREW-CAPTIVE
			42		
			41		
			40		
NOTE 6	2		39	1010268-2	LAMP-INCANDESCENT
	2		38	1010625	HOLDER, LAMP
	2		37	1014595	BRACKET, MOUNTING-LAMP
	1		36	1014594	PLATE, MOUNTING SWITCH
	2		35	1014587	WINDOW
	4		34	1014584	GASKET, WINDOW
	2		33	1014583	CLAMP, WINDOW
	2		32	1014530	PIN-CONNECTOR
	2		31	1014528	PIN-PANEL
	2		30	1014588	WHEEL, POTENTIOMETER
	1		29	1014582	BRACKET, MOUNTING
	1		28	1014586	SUPPORT, HAND CONTROLLER
	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6	9		26	1010475	CAP, PUSHBUTTON
	1		25	1014585-002	KNOB, ROTARY SWITCH
	2		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6	1		23	1010494	SWITCH ASSY, ROTARY
	1		22	1010417-1	SWITCH ASSY, ROTARY
	1		21	1010417-2	SWITCH ASSY, ROTARY
	1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
(H3)	2		19	1010480-3	SWITCH ASSY, PUSH BUTTON
	4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
	3		17	1010480-1	SWITCH ASSY, PUSH BUTTON
	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1		15	1010479-2	SWITCH ASSY, TOGGLE
	1		14	1010479-1	SWITCH ASSY, TOGGLE
	1		13	1010484-1	SWITCH ASSY, TOGGLE
	1		12	1010478-3	SWITCH ASSY, TOGGLE
	1		11	1010478-2	SWITCH ASSY, TOGGLE
NOTE 6	1		10	1010478-1	SWITCH ASSY, TOGGLE
			9		
NOTE 6	1		8		POTENTIOMETER-PRECISION
NOTE 6	1		7	1010492	TRANSFORMER, POWER
NOTE 6	1		6	1010612	METER-ELECTRICAL INDICATING
	1		5	1014643	ATTITUDE IMPULSE SWITCH ASSY.
	1		4	1014558-011	SEXTANT HAND CONTROLLER ASSY.
	1		3	1014596	RESISTOR MODULE A-2 ASSY.
	1		2	1014591-011	BRACKET & POT. ASSEMBLY
	1		1	1014581	PANEL, G&N IND. CONT. (INSERT)

LIST OF PARTS AND MATERIALS

Ⓔ REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513	1014513	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Deall 2 Jul 63
APPROVAL D.W. Mickey 2 Jul 63
APPROVAL 3 Jul 63
NASA APPROVAL 7/17/63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

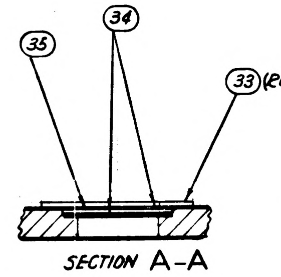
G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO. SIZE E 1014578
SCALE — WEIGHT SHEET 1 OF 3

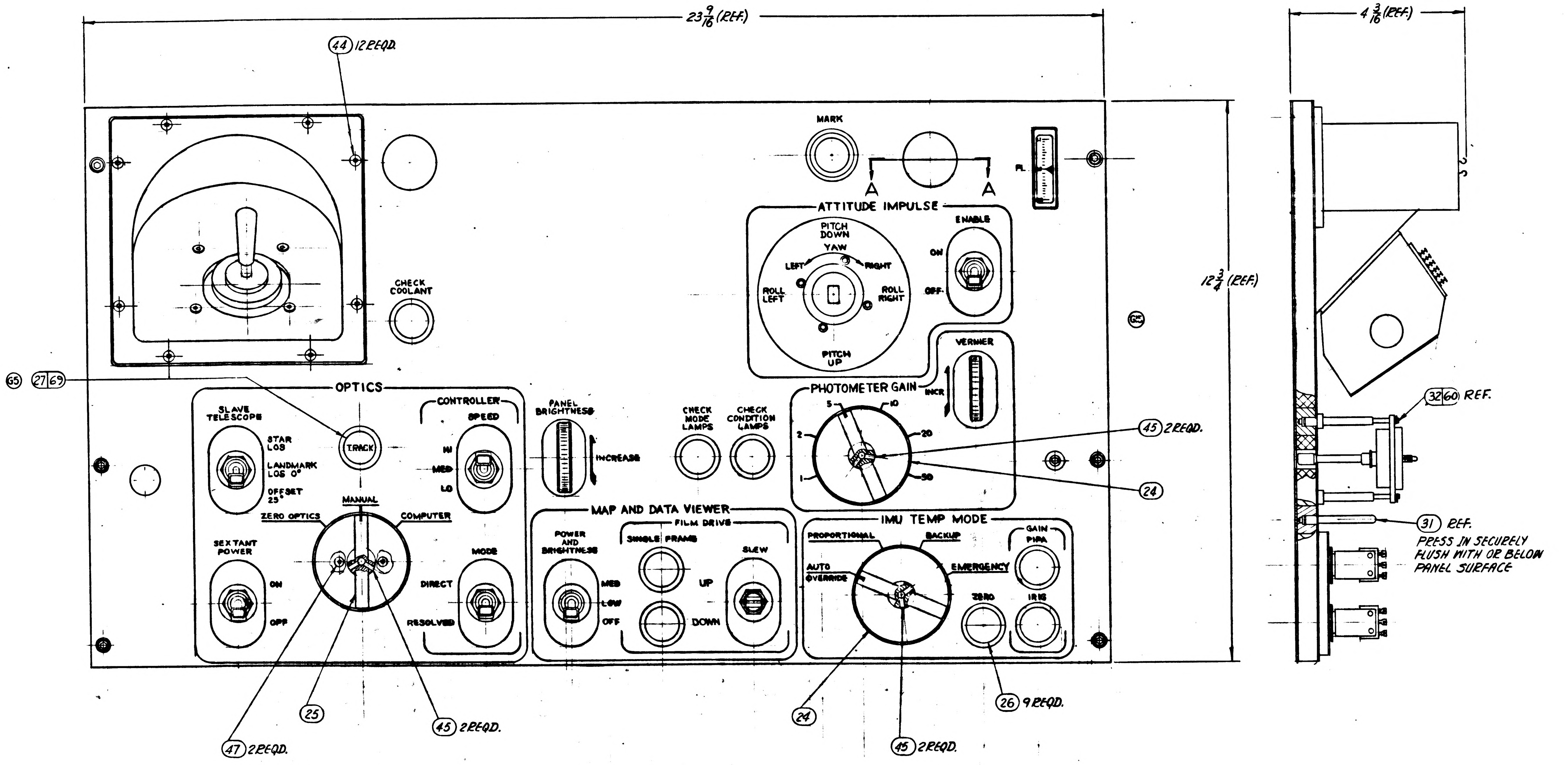
Charleston 2 JUL 63

1014578

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E			TDRR 02426	7 Aug 63	WK
F			TDRR 03198	9/18/63	WK
G		SEE SHEET 1		18 NOV 63	WK
H4		REVISED PER TDRR NO. 04959		11 DEC 63	



SECTION A-A



23 9/16 (REF.)
44 12 REQD.
65
27 69
CHECK COOLANT
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
MANUAL
ZERO OPTICS
COMPUTER
SEXTANT POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
MAP AND DATA VIEWER
FILM DRIVE
POWER AND BRIGHTNESS
MED
LOW
OFF
SINGLE FRAME
UP
DOWN
SLEW
MARK
A
A
FL
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
VERNIER
INCR
PHOTOMETER GAIN
1
2
5
10
20
50
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
IRIS
45 2 REQD.
24
47 2 REQD.
25
45 2 REQD.
24
45 2 REQD.
26 9 REQD.
12 3/4 (REF.)
4 3/16 (REF.)
32 60 REF.
31 REF.
PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Fiedl 2 JUL 63
APPROVAL D W Mueller 2 Jul 63
APPROVAL 3 Jul 63
NASA APPROVAL 8/13/63
MIT APPROVAL

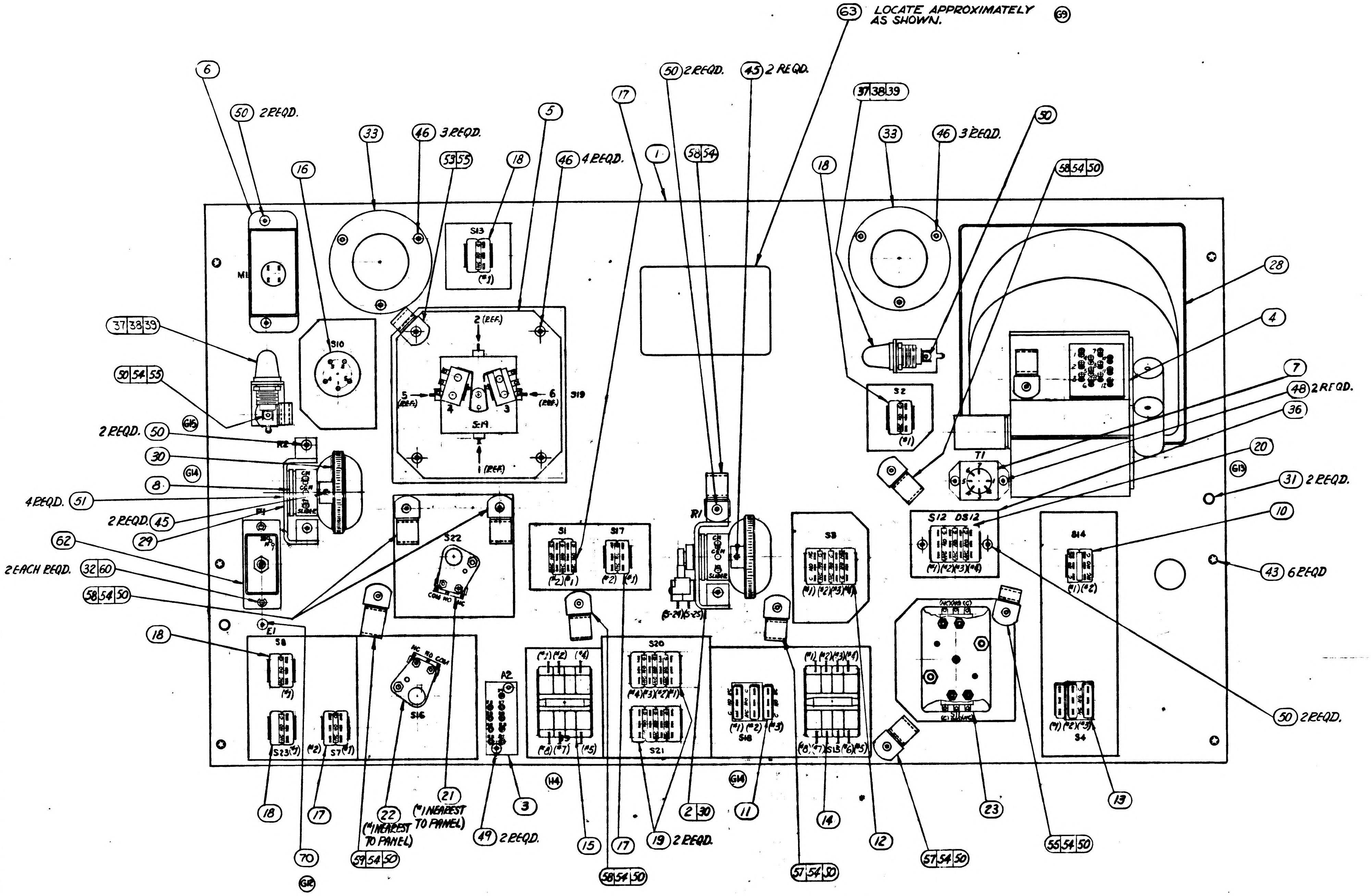
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

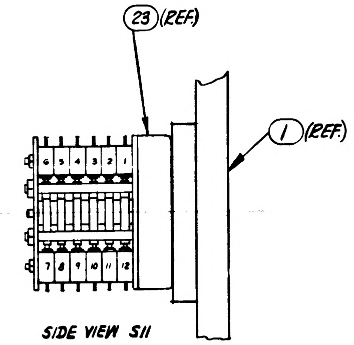
CODE IDENT NO.
SIZE E
1014578
SCALE
SHEET 2 OF 3

INCHES
PHOTOGRAPHIC SCALE ONLY

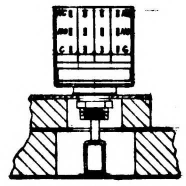
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E			TDRR 02426	7 Aug 63	WC
F			TDRR 03198	9/10/63	WC
G		SEE SHEET NO. 1		21 NOV 63	WC
H△		REVISED PER TDRR NO. 04959		11 DEC 63	



63 LOCATE APPROXIMATELY AS SHOWN.
69
6
50 2 REQD.
16
33
46 3 REQD.
53 55
18
5
46 4 REQD.
17
1
50 2 REQD.
58 54
45 2 REQD.
37 38 39
18
33
46 3 REQD.
50
58 54 50
28
4
7
48 2 REQD.
36
20
31 2 REQD.
10
43 6 REQD
50 2 REQD.
37 38 39
50 54 55
2 REQD. 50
30
8
4 REQD. 51
2 REQD. 45
29
62
2 EACH REQD. 32 60
58 54 50
18
M1
S10
S13
S19
S22
S1
S17
R1
S3
S12 DS12
S14
T1
S2
R2
P1
E1
S8
S23
S7
S16
A2
S20
S21
S18
S4
18
17
70
22 (*1 NEAREST TO PANEL)
21 (*1 NEAREST TO PANEL)
59 54 50
3
49 2 REQD.
15
58 54 50
17
19 2 REQD.
2 30
11
14
57 54 50
12
57 54 50
23
55 54 50
13



SIDE VIEW S11



TYPICAL VIEW S9 AND S15

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± —— ± —— ± ——
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Tickl 2 JUL 63
APPROVAL D.W. Mickey 2 Jul 63
APPROVAL 3 July 63
NASA APPROVAL
MIT APPROVAL 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E 1014578
SCALE ——
SHEET 3 OF 3

APOLLO G&N Specification
PS-1014578 H
10 December 1963
Class A **Release**
TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

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5/26/64	E	08751	8	WK	WJR
6/16/64	F	10150	3, 4, 5, 7, 8	WK	WJR
6/9/64	G	10070	9	WK	WJR
7/14/64	H	10946	3, 4	WK 8/4/64	[illegible]

This specification consists of page i to iii and 1 to 10 inclusive.

APOLLO G&N Specification
PS-1014578 C
10 December 1963

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the G&N Indicator Control Panel Assembly for use in APOLLO Guidance and Navigation Equipment.

WKupfer 10 Dec 63
MIT/IL DATE

12/11/63
NASA/MSC APPROVAL DATE

APOLLO G&N Specification
PS-1014578 C
10 December 1963

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the G&N Indicator Control Panel Assembly, Drawing 1014578, hereafter called the assembly.

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2.1 The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

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Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014578	G&N Indicator Control Panel Assembly
1014579	G&N Indicator Control Panel (Schematic) (For Reference Only)

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the G&N Indicator Control Panel Assembly for use in APOLLO Guidance and Navigation Equipment.

WKupfer 10 Dec 63
MIT/IL DATE

W L Swift Jr 12/10/63
NASA/MSC APPROVAL DATE

PREPARED BY	TITLE	DATE
DASlisbury AC Spark Plug	Engr Specifications Writer	4 Dec '63

EXAMINED BY	TITLE	DATE
R.E. Priest AC Spark Plug	Proj Engr.	12-3-63

APPROVED BY	TITLE	DATE
J F Nevin MIT/IL	Asst Dir.	12/10/63

APPROVED BY	TITLE	DATE
 MIT/IL		

APPROVED BY	TITLE	DATE
 MIT/IL		

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

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1014579	G&N Indicator Control Panel (Schematic) (For Reference Only)

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2.
3. INSPECT PER PS 1014578.
4. SERIALIZE PER ND 1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1) USING (66) AND (67).
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.

(H2)

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E		(E1) REFLACES REV. D WITH CHANGE	TDRR 02426	7 AUG. 63	WR
F		(F1) ADDED PART NOS. 1011918-3 & 1011918-1. (F2) DELETED ITEMS 40, 41, 42, 52 & 61. TDRR 03198			WR
G 15		REVISED PER TDRR NO. 04622		18 NOV 63	WR
H 4		REVISED PER TDRR NO. 04959		DEC 63	
J		REVISED PER TDRR NO. 05816		28 JAN 64	

J	H	H
H	G	H
G	G	G
E	A	A
SHEET 1	SHEET 2	SHEET 3

REVISION STATUS OF SHEETS

	QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				011			LIST OF PARTS AND MATERIALS	
NOTE 6				1		70	1006783-21	SCREW, BUTTON HD
NOTE 6				1		69	1010624-2	LAMP-INCANDESCENT
				X			PS1014578	SPECIFICATION
				X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
				1		68	1014624	WIRE LIST A-A
				AR		67	MIL-F-14256	FLUX (ES-2798)
							QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
				AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
(H1)								
				1		63	1014650-1	NAMEPLATE
				1		62	1014580	HARNESS
				2		60	MS-16633-4009	RING-RETAINING
NOTE 6				1		59	1000220-10	CLAMP-CABLE
NOTE 6				5		58	1000220-8	CLAMP-CABLE
NOTE 6				2		57	1000220-7	CLAMP-CABLE
						56		
NOTE 6				3		55	1000220-4	CLAMP-CABLE
NOTE 6				10		54	1011918-3	WASHER-CABLE CLAMP
NOTE 6				1		53	1011918-1	WASHER-CABLE CLAMP
NOTE 6				4		51	1010477-1	SCREW-FLAT HD., SELF LOCK
NOTE 6				18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6				2		49	1006783-96	SCREW-BUTTON HD.
NOTE 6				2		48	1006783-18	SCREW-BUTTON HD.
NOTE 6				2		47	1010630-25	SCREW-FLAT HD.
NOTE 6				10		46	1006783-19	SCREW-BUTTON HD.
				10		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6				12		44	1010630-14	SCREW-FLAT HD.
				6		43	1014503	SCREW-CAPTIVE
						42		
						41		
						40		
NOTE 6				2		39	1010268-2	LAMP-INCANDESCENT
				2		38	1010625	HOLDER, LAMP
				2		37	1014595	BRACKET, MOUNTING-LAMP
				1		36	1014594	PLATE, MOUNTING SWITCH
				2		35	1014587	WINDOW
				4		34	1014584	GASKET, WINDOW
				2		33	1014583	CLAMP, WINDOW
				2		32	1014530	PIN-CONNECTOR
				2		31	1014528	PIN-PANEL
				2		30	1014588	WHEEL, POTENTIOMETER
				1		29	1014582	BRACKET, MOUNTING
				1		28	1014586	SUPPORT, HAND CONTROLLER
				1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6				9		26	1010475	CAP, PUSHBUTTON
				1		25	1014585-002	KNOB, ROTARY SWITCH
				2		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6 ↑				1		23	1010494	SWITCH ASSY, ROTARY
				1		22	1010417-1	SWITCH ASSY, ROTARY
				1		21	1010417-2	SWITCH ASSY, ROTARY
				1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
(H3)				2		19	1010480-3	SWITCH ASSY, PUSH BUTTON
				4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
				3		17	1010480-1	SWITCH ASSY, PUSH BUTTON
				1		16	1010489-1	SWITCH ASSY, TOGGLE
				1		15	1010479-2	SWITCH ASSY, TOGGLE
				1		14	1010479-1	SWITCH ASSY, TOGGLE
				1		13	1010484-1	SWITCH ASSY, TOGGLE
				1		12	1010478-3	SWITCH ASSY, TOGGLE
				1		11	1010478-2	SWITCH ASSY, TOGGLE
↓ NOTE 6				1		10	1010478-1	SWITCH ASSY, TOGGLE
						9		
NOTE 6				1		8		POTENTIOMETER-PRECISION
NOTE 6				1		7	1010492	TRANSFORMER, POWER
NOTE 6				1		6	1010612	METER-ELECTRICAL INDICATING
				1		5	1014643	ATTITUDE IMPULSE SWITCH ASSY.
				1		4	1014558-021	SEXTANT HAND CONTROLLER ASSY.
				1		3	1014596	RESISTOR MODULE A-2 ASSY.
				1		2	1014591-011	BRACKET & POT. ASSEMBLY
				1		1	1014581	PANEL, G&N IND. CON [illegible]

(E1) REPLACES REV D WITH CHANGE

1014513	1014513	-011
NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Searll 2 Jul 63
APPROVAL D.W. Minley 2 Jul 63
APPROVAL Model 3 Jul 63
NASA APPROVAL 9/17/63 9/7/63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

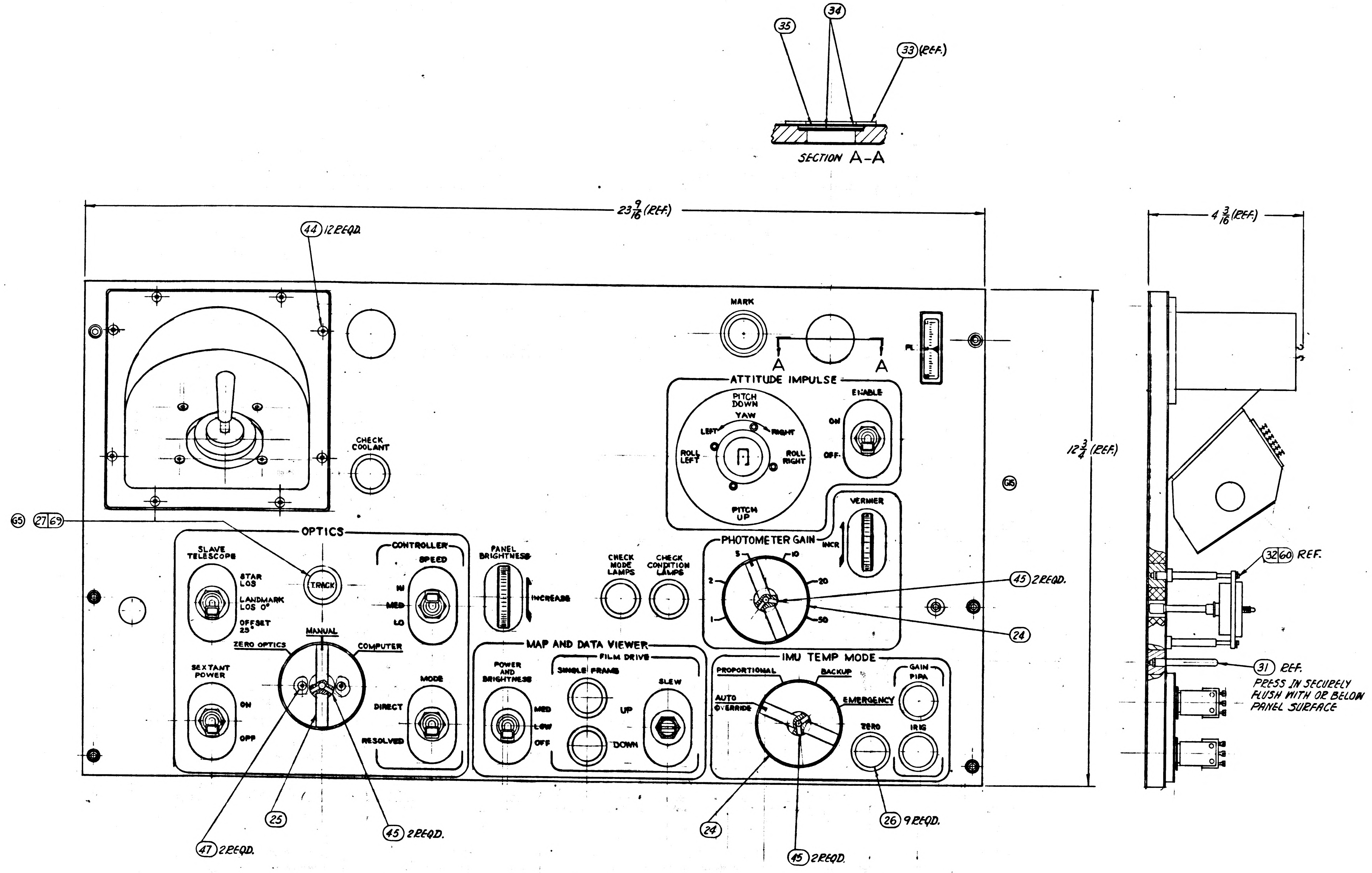
G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO. SIZE E 1014578
SCALE — WEIGHT SHEET 1 OF 3

Charleston 2 Jul 63

1014578 J

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E			TDRR 02426	7 Aug 63	WK
F			TDRR 03198	9/18/63	WK
G		SEE SHEET 1		18 NOV 63	WK
H4		REVISED PER TDRR NO. 04959		11 DEC 63	


35
34
33 (REF.)
SECTION A-A
23 9/16 (REF.)
44 12 REQD.
MARK
A
A
PL
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
VERNIER
INCR
CHECK COOLANT
G5
27 69
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
MANUAL
ZERO OPTICS
COMPUTER
SEXTANT POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
PHOTOMETER GAIN
1
2
5
10
20
50
45 2 REQD.
24
G5
MAP AND DATA VIEWER
POWER AND BRIGHTNESS
MED
LOW
OFF
FILM DRIVE
SINGLE FRAME
UP
DOWN
SLEW
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
IRIG
25
47 2 REQD.
45 2 REQD.
24
45 2 REQD.
26 9 REQD.
12 3/4 (REF.)
4 3/16 (REF.)
32 60 REF.
31 REF.

PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE

1014578

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

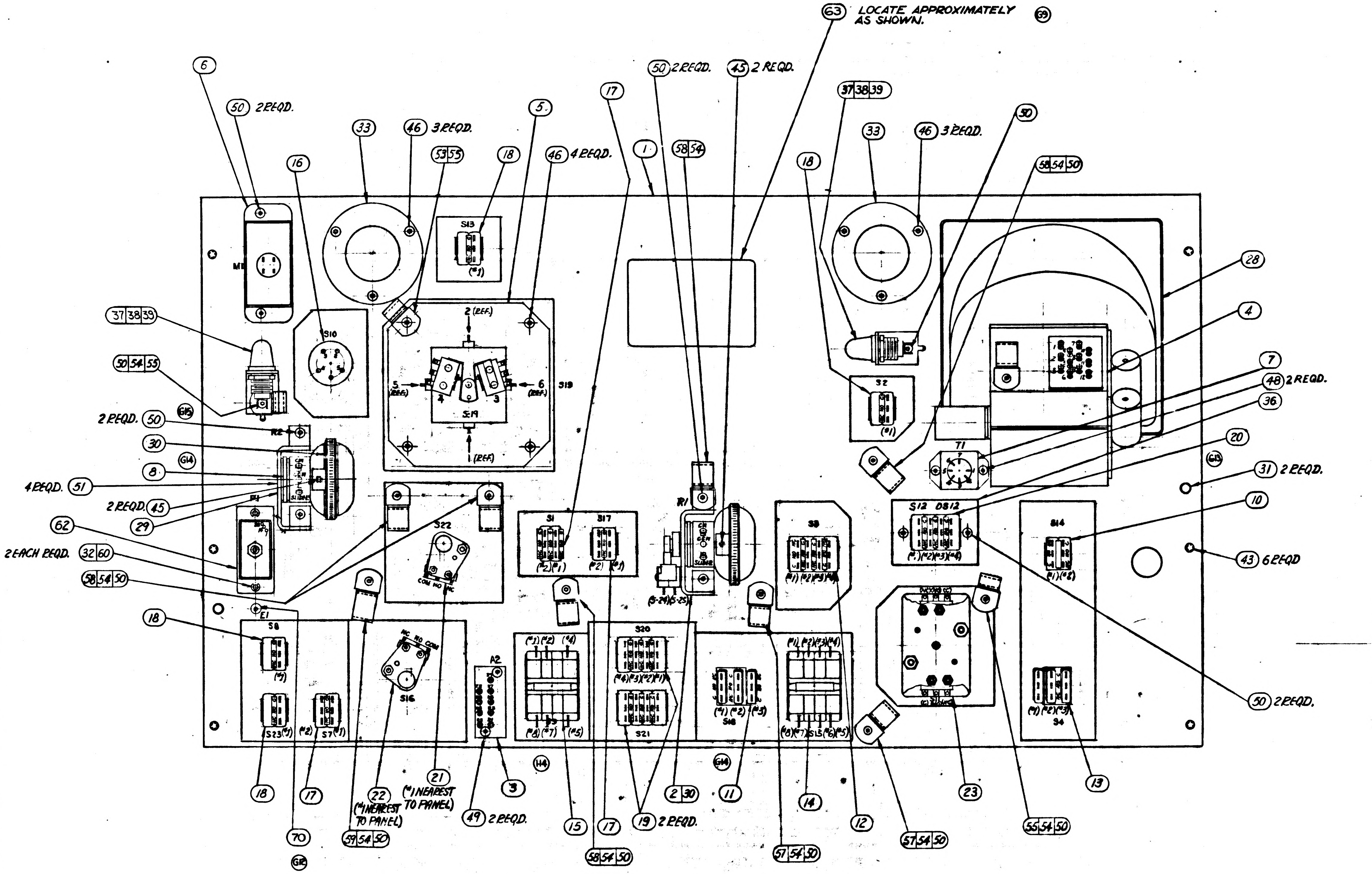
AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Diehl 2 Jul 63
APPROVAL D W Mushing
APPROVAL Kodal 3 Jul 63
NASA APPROVAL 8/17/63
MIT APPROVAL Aug 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

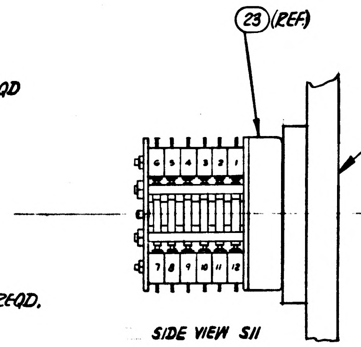
G & N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE —
SHEET 2 OF 3

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E			TDRR 02426	7 Jan 63	WK
F			TDRR 03198	9/19/63	WK
G		SEE SHEET NO. 1		21 NOV 63	WK
H		REVISED PER TDRR NO. 04959		11 DEC 63	

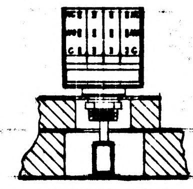


63 LOCATE APPROXIMATELY AS SHOWN.
69
6
50 2 REQD.
33
46 3 REQD.
53 55
18
5
46 4 REQD.
16
17
1
58 54
50 2 REQD.
45 2 REQD.
37 38 39
33
46 3 REQD.
18
50
58 54 50
M1
S13
(#1)
S10
2 (REF.)
5 (REF.)
6 (REF.)
4
3
S19
1 (REF.)
37 38 39
50 54 55
G15
2 REQD. 50
R2
30
G14
8
4 REQD. 51
2 REQD. 45
29
F1
62
2 EACH REQD. 32 60
58 54 50
E1
S22
COM NO NC
S1
S17
(#2)(#1)
R1
(S-24)(S-25)
S9
(#1)(#2)(#3)(#4)
S12 DS12
(#1)(#2)(#3)(#4)
S2
(#1)
T1
28
4
7
48 2 REQD.
36
20
G13
31 2 REQD.
10
S14
(#1)(#8)
43 6 REQD
18
S8
S23 (#1) (#2) S7 (#1)
S16
NC NO COM
A2
(#1)(#2)(#4)
(#8)(#7)(#5)
S20
(#4)(#3)(#2)(#1)
S21
(#1)(#2)(#3)
S18
(#1)(#2)(#3)(#4)
(#8)(#7) S15 (#6)(#5)
23
S4
(#1)(#2)(#3)
50 2 REQD.
18
17
70
G12
59 54 50
22 (#1 NEAREST TO PANEL)
21 (#1 NEAREST TO PANEL)
49 2 REQD.
3
H4
15
17
58 54 50
19 2 REQD.
2 30
G14
11
57 54 50
14
12
57 54 50
23
55 54 50
13



23 (REF.)
1 (REF.)
6 5 4 3 2 1
7 8 9 10 11 12

SIDE VIEW S11



TYPICAL VIEW
S9 AND S16

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+— +— +—
-— -— -—
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Tuell 2 Jul 63
APPROVAL D.W. Mickey 2 Jul 63
APPROVAL 3 July 63
NASA APPROVAL
MIT APPROVAL 7 Aug 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE —
SHEET 3 OF 3

APOLLO G&N Specification
PS-1014578 H
10 December 1963
Class A **Release**
TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3/10/64	A	06250	3	WK	WLS
3/31/64	B	06812	3, 4, 5, 6, and 7	WK	WLS
5/19/64	C	08504	2, 3, and 4	IH	WLS
5/19/64	D	08498	6	WK	WLS
5/26/64	E	08751	8	WK	WJR
6/16/64	F	10150	3, 4, 5, 7, 8	WK	WJR
6/9/64	G	10070	9	WK	WJR
7/14/64	H	10946	2, 4	WK 8/12/64	WM 8/12
8/12/64	J	11531	3	WK [illegible]	WM

This specification consists of page i to iii and 1 to 10 inclusive.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS 1014578.
4. SERIALIZE PER ND 1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1) USING (66) AND (67).
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.

(H2)

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E		(E1) REPLACES REV. D WITH CHANGE	TDRR 02426	7 AUG 63	WR
F		(F1) ADDED PART NO'S. 1011918-3 & 1011918-1. (F2) DELETED ITEMS 40, 41, 42, 52 & 61. TDRR 03198		9/18/63	WR
G15		REVISED PER TDRR NO. 04622		18 NOV 63	WR
H4		REVISED PER TDRR NO. 04959		11 DEC 63	
J		REVISED PER TDRR NO. 05816		28 JAN 64	
K5		REVISED PER TDRR NO. 06259		15 FEB	

SHEET 1	SHEET 2	SHEET 3
K	K	K
J	H	H
H	G	H
G	G	G
E	A	A

REVISION STATUS OF SHEETS

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
(K3)	1		72	1014660	PLATE
	1		71	1014659	PLATE
NOTE 6	1		70	1006783-21	SCREW, BUTTON HD
NOTE 6	1		69	1010624-2	LAMP-INCANDESCENT
	X			PS1014578	SPECIFICATION
	X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
	1		68	1014624	WIRE LIST A-A
	AR		67	MIL-F-14256	FLUX (ES-2798)
				QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
	AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
(H1)					
	1		63	1014650-1	NAMEPLATE
	1		62	1014580	HARNESS
	2		60	MS-16633-4009	RING-RETAINING
NOTE 6	1		59	1000220-10	CLAMP-CABLE
NOTE 6	5		58	1000220-8	CLAMP-CABLE
NOTE 6	2		57	1000220-7	CLAMP-CABLE
			56		
NOTE 6	3		55	1000220-4	CLAMP-CABLE
NOTE 6	10		54	1011918-3	WASHER-CABLE CLAMP
NOTE 6	1		53	1011918-1	WASHER-CABLE CLAMP
NOTE 6	18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6	2		48	1006783-18	SCREW-BUTTON HD.
NOTE 6	2		47	1010630-25	SCREW-FLAT HD.
NOTE 6	10		46	1006783-19	SCREW-BUTTON HD.
	6		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6	12		44	1010630-14	SCREW-FLAT HD.

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	6		43	1014503	SCREW-CAPTIVE
			42		
			41		
			40		
NOTE 6	2		39	1010268-2	LAMP-INCANDESCENT
	2		38	1010625	HOLDER, LAMP
	2		37	1014595	BRACKET, MOUNTING-LAMP
	1		36	1014594	PLATE, MOUNTING SWITCH
	2		35	1014587	WINDOW
	4		34	1014584	GASKET, WINDOW
	2		33	1014583	CLAMP, WINDOW
	2		32	1014530	PIN-CONNECTOR
	2		31	1014528	PIN-PANEL
(K1)	1		30	1014588	WHEEL, POTENTIOMETER
	1		28	1014586	SUPPORT, HAND CONTROLLER
	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6	9		26	1010475	CAP, PUSHBUTTON
	1		25	1014585-002	KNOB, ROTARY SWITCH
	1		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6	1		23	1010494	SWITCH ASSY, ROTARY
NOTE 6	1		22	1010417-1	SWITCH ASSY, ROTARY
NOTE 6	1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
(H3) ↑	2		19	1010480-3	SWITCH ASSY, PUSH BUTTON
	4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
	3		17	1010480-1	SWITCH ASSY, PUSH BUTTON
	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1		15	1010479-2	SWITCH ASSY, TOGGLE
	1		14	1010479-1	SWITCH ASSY, TOGGLE
	1		13	1010484-1	SWITCH ASSY, TOGGLE
	1		12	1010478-3	SWITCH ASSY, TOGGLE
	1		11	1010478-2	SWITCH ASSY, TOGGLE
↓ NOTE 6	1		10	1010478-1	SWITCH ASSY, TOGGLE
			9		
NOTE 6	1		7	1010492	TRANSFORMER, POWER
(K2)	1		5	1014643	ATTITUDE IMPULSE SWITCH ASSY.
	1		4	1014558-021	SEXTANT HAND CONTROLLER ASSY.
	1		2	1014591-011	BRACKET & POT. ASSEMBLY
	1		1	1014581	PANEL, G&N IND. CONT. (INSEP)

LIST OF PARTS AND MATERIALS

(E1) REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513	1014513	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Diehl 2 JUL 63
APPROVAL D. W. Mink 2 JUL 63
APPROVAL 3 JUL 63
NASA APPROVAL 8/7/63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

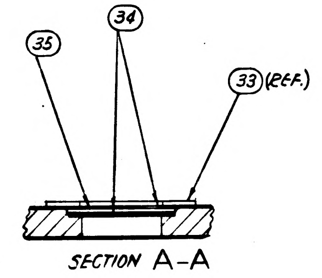
CODE IDENT NO. SIZE E 1014578
SCALE — WEIGHT SHEET 1 OF 3

Charleston 2 JUL 63

1014578 K

INCHES
0
PHOTOGRAPHIC SCALE ONLY

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E			TDRR 02426	7 Aug 63	WK
F			TDRR 03198	9/18/63	WK
G		SEE SHEET 1		18 NOV 63	WK
H_4		REVISED PER TDRR NO. 04959		11 DEC 63	
K_5		REVISED PER TDRR NO. 06259		18 FEB 64	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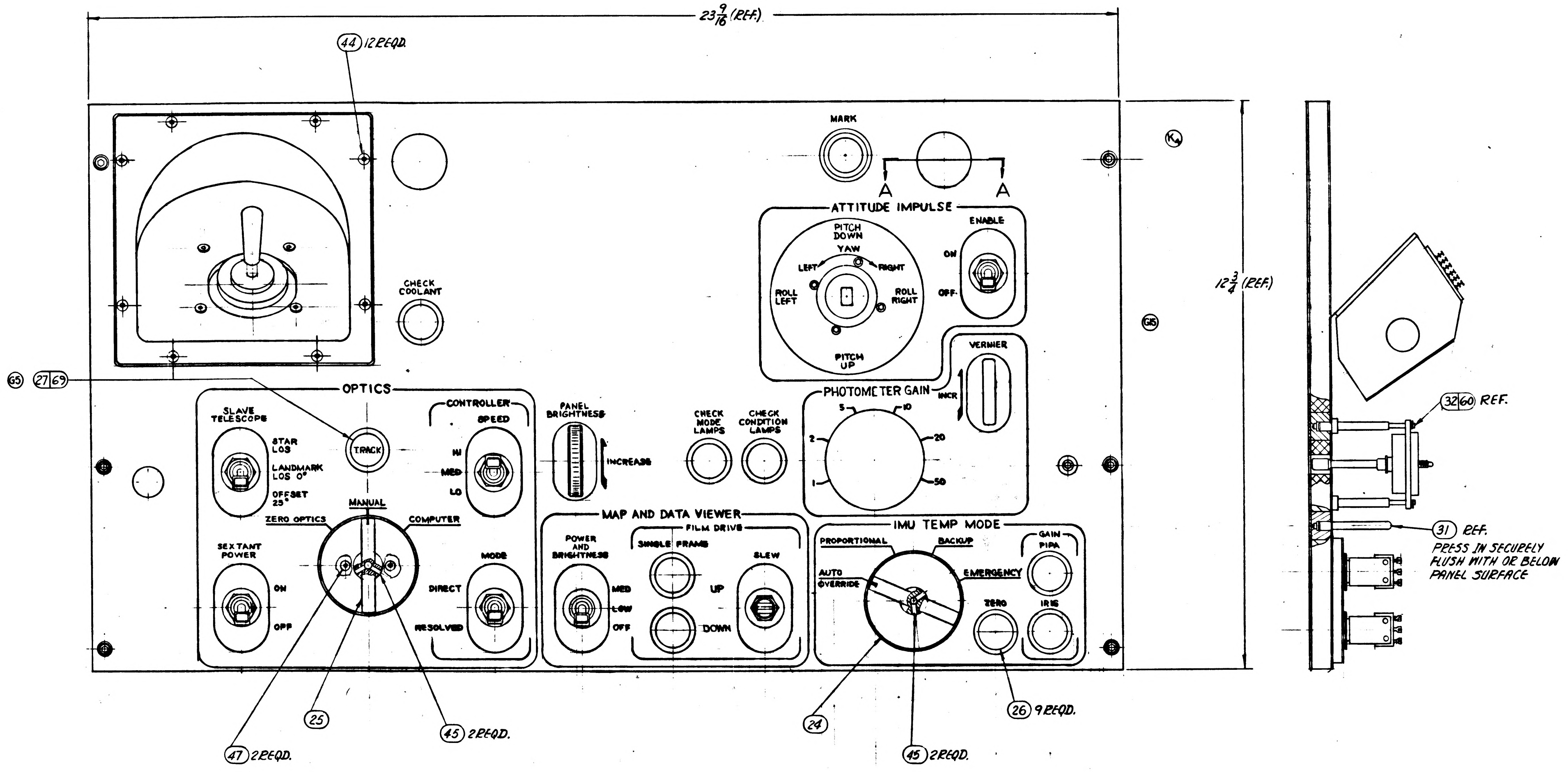
34
33 (REF.)
SECTION A-A


23 9/16 (REF.)
44 12 REQD.
MARK
A
A
K5
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
CHECK COOLANT
G6
12 3/4 (REF.)
VERNIER
INCR
65 27 69
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
PHOTOMETER GAIN
5
10
2
20
1
50
ZERO OPTICS
MANUAL
COMPUTER
SEXTANT POWER
ON
OFF
MODE
DIRECT
RESOLVED
MAP AND DATA VIEWER
FILM DRIVE
POWER AND BRIGHTNESS
SINGLE FRAME
SLEW
MED
LOW
OFF
UP
DOWN
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
IRIS
32 60 REF.
31 REF.
PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE
25
47 2 REQD.
45 2 REQD.
24
45 2 REQD.
26 9 REQD.

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W Diehl 2 Jul 63
APPROVAL DW Mi 2 Jul 63
APPROVAL 3 July 63
NASA APPROVAL 8/12/63
MIT APPROVAL Aug 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

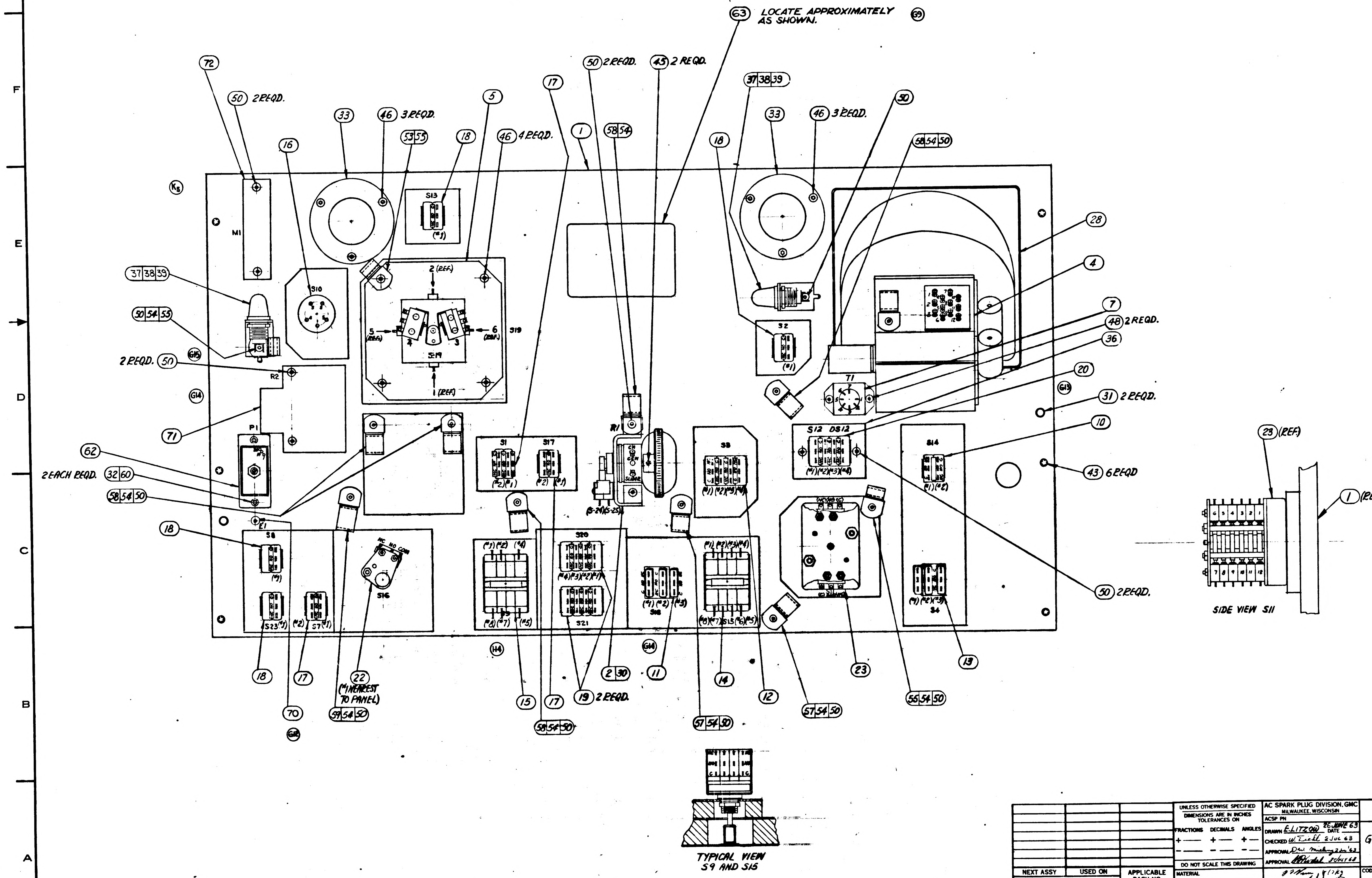
G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE —
SHEET 2 OF 3

K
1014578

INCHES
PHOTOGRAPHIC SCALE ONLY

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
E			TDRR 02426	7 Jan 63	
F			TDRR 03198	9/18/63	
G		SEE SHEET NO 1		21 NOV 63	
H4		REVISED PER TDRR NO. 04959		11 DEC 63	
K5		REVISED PER TDRR NO. 06259		18 FEB 64	



63 LOCATE APPROXIMATELY AS SHOWN.
G9
72
50 2 REQD.
16
33
46 3 REQD.
53 55
18
5
46 4 REQD.
17
1
50 2 REQD.
58 54
45 2 REQD.
37 38 39
18
33
46 3 REQD.
50
58 54 50
K5
M1
S13
(#1)
S10
2 (REF.)
5 (REF.)
6 (REF.)
S19
4
3
S19
1 (REF.)
37 38 39
50 54 55
G15
2 REQD. 50
R2
G14
71
P1
62
2 EACH REQD. 32 60
58 54 50
E1
18
S8
S23
S7
S16
NC NO COM
S1
S17
(#2)(#1)
R1
(S-24)(S-25)
S20
S21
S5
S18
S15
S3
S2
(#1)
T1
S12 DS12
(#1)(#2)(#3)(#4)
S14
(#1)(#2)
S4
28
4
7
48 2 REQD.
36
20
G13
31 2 REQD.
10
43 6 REQD
50 2 REQD.
18
17
22
(#1 NEAREST TO PANEL)
70
59 54 50
G12
H4
15
17
58 54 50
19 2 REQD.
2 30
G14
11
57 54 50
14
12
57 54 50
23
55 54 50
13
23 (REF.)
1 (REF.)
SIDE VIEW S11
TYPICAL VIEW S9 AND S15

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+— +— +—
-— -— -—
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Tiell 2 JUL 63
APPROVAL D.W. Micking 2 Jul '63
APPROVAL 3 JULY 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE —
SHEET 3 OF 3

APOLLO G&N Specification
PS-1014578 K
10 December 1963
Class A **Release**
TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3/10/64	A	06250	3	WK	WLS
3/31/64	B	06812	3, 4, 5, 6, and 7	WK	WLS
5/19/64	C	08504	2, 3, and 4	IH	WLS
5/19/64	D	08498	6	[illegible]	[illegible]
5/26/64	E	08751	8	WK	WJR
6/16/64	F	10150	3, 4, 5, 7, 8	WK	WJR
6/9/64	G	10070	9	WK	WJR
7/14/64	H	10946	2, 4	WK	[illegible]
8/12/64	J	11531	3	WK	WM
9/16/64	K	12651	1, 2, 8	LL	W.J.R.

(M)

(M)

This specification consists of page i to iii and 1 to 10 inclusive.

APOLLO G&N Specification
PS-1014578 J
10 December 1963

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the G&N Indicator Control Panel Assembly for use in APOLLO Guidance and Navigation Equipment.

10 Dec 63
MIT/IL DATE

12/10/63
NASA/MSC APPROVAL DATE

APOLLO G&N Specification
PS-1014578 J
10 December 1963

PREPARED BY	**TITLE**	**DATE**
AC Spark Plug	Engr Specification Writer	4 Dec '63
EXAMINED BY	**TITLE**	**DATE**
R.E. Priest AC Spark Plug	Proj. Engr.	12-3-63
APPROVED BY	**TITLE**	**DATE**
MIT/IL	Lead Div.	12/10/63
APPROVED BY	**TITLE**	**DATE**
MIT/IL		
APPROVED BY	**TITLE**	**DATE**
MIT/IL		

APOLLO G&N Specification
PS-1014578 K
10 December 1963
16 September 1964

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the G&N Indicator Control Panel Assembly, Drawing 1014578, hereafter called the assembly.

1.2 CLASSIFICATION. Unless otherwise specified, all types shall meet all the requirements specified herein. Special requirements for the equipment covered by this Specification shall be classified as follows:

a. Type I: The special requirements for Part No. 1014578-011 shall be designated as Type I.
b. Type II: The special requirements for Part No. 1014578-021 shall be designated as Type II.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014578	Final Test Method for G&N Indicator Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014578	G&N Indicator Control Panel Assembly
1014579	G&N Indicator Control Panel (Schematic) (For Reference Only)
1015018	G&N Indicator Control Panel (Schematic) (For Reference Only)

APOLLO G&N Specification
PS-1014578 J
10 December 1963

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the G&N Indicator Control Panel Assembly for use in APOLLO Guidance and Navigation Equipment.

WKupfer 10 Dec 63
MIT/IL DATE

12/16/63
NASA/MSC APPROVAL DATE

APOLLO G&N Specification
PS-1014578 K
10 December 1963
Class A **Release**
TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3/10/64	A	06250	3	WK	WLS
3/31/64	B	06812	3, 4, 5, 6, and 7	WK	WLS
5/19/64	C	08504	2, 3, and 4	IH	WLS
5/19/64	D	08498	6	WK	WLS
5/26/64	E	08751	8	WK	WJR
6/16/64	F	10150	3, 4, 5, 7, 8	WK	WJR
6/9/64	G	10070	9	WK	WJR
[illegible]	H	10946	3, 4	WK [illegible]	[illegible]
8/12/64	J	11531	3	WK [illegible]	WM
9/16/64	K	12651	1, 2, 8	LL [illegible]	WJR

This specification consists of page i to iii and 1 to 10 inclusive.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS 1014578.
4. SERIALIZE PER ND 1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1) USING (66) AND (67).
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.

(-2)

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E		(E1) REPLACES REV. D WITH CHANGE.	TDRR 02426	7 AUG 63	WK
F		(F1) ADDED PART NO'S. 1011918-3 & 1011918-1. (F2) DELETED ITEMS 40, 41, 42, 52 & 61. TDRR 03198		9 [illegible] 63	WK
G_{15}		REVISED PER TDRR NO. 04622		18 NOV 63	WK
H_4		REVISED PER TDRR NO. 04959		11 DEC 63	WK
J		REVISED PER TDRR NO. 05816		28 JAN 64	WK
K_5		REVISED PER TDRR NO. 06259		18 FEB 64	WK
L_4		REVISED PER TDRR NO. 06370		25 FEB 64	WK

SHEET 1	SHEET 2	SHEET 3
L	K	L
K	K	K
J	H	H
H	G	H
G	G	G
E	A	A

REVISION STATUS OF SHEETS

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
(K3)	1		72	1014660	PLATE
	1		71	1014659	PLATE
NOTE 6	1		70	1006783-21	SCREW, BUTTON HD
NOTE 6	1		69	1010624-2	LAMP-INCANDESCENT
	X			PS1014578	SPECIFICATION
	X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
	1		68	1014624	WIRE LIST A-A
	AR		67	MIL-F-14256	FLUX (ES-2798)
				QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
	AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
(H1)					
	1		63	1014650-1	NAMEPLATE
	1		62	1014580	HARNESS
	2		60	MS-16633-4009	RING-RETAINING
NOTE 6	1		59	1000220-10	CLAMP-CABLE
NOTE 6	5		58	1000220-8	CLAMP-CABLE
NOTE 6	2		57	1000220-7	CLAMP-CABLE
			56		
NOTE 6	3		55	1000220-4	CLAMP-CABLE
NOTE 6	10		54	1011918-3	WASHER-CABLE CLAMP
NOTE 6	1		53	1011918-1	WASHER-CABLE CLAMP
NOTE 6	18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6	2		48	1006783-18	SCREW-BUTTON HD.
NOTE 6	2		47	1010630-25	SCREW-FLAT HD.
NOTE 6	10		46	1006783-19	SCREW-BUTTON HD.
	6		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6	12		44	1010630-14	SCREW-FLAT HD.

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	6		43	1014503	SCREW-CAPTIVE
			42		
			41		
			40		
NOTE 6	2		39	1010268-2	LAMP-INCANDESCENT
	2		38	1010625	HOLDER, LAMP
	2		37	1014595	BRACKET, MOUNTING-LAMP
	1		36	1014594	PLATE, MOUNTING SWITCH
	2		35	1014587	WINDOW
	4		34	1014584	GASKET, WINDOW
	2		33	1014583	CLAMP, WINDOW
	2		32	1014530	PIN-CONNECTOR
	2		31	1014528	PIN-PANEL
(K1)	1		30	1014588	WHEEL, POTENTIOMETER
	1		28	1014586	SUPPORT, HAND CONTROLLER
	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6	9		26	1010475	CAP, PUSHBUTTON
	1		25	1014585-002	KNOB, ROTARY SWITCH
	1		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6	1		23	1010494	SWITCH ASSY, ROTARY
NOTE 6	1		22	1010417-1	SWITCH ASSY, ROTARY
NOTE 6	1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
(H3)	2		19	1010480-3	SWITCH ASSY, PUSH BUTTON
	4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
	3		17	1010480-1	SWITCH ASSY, PUSH BUTTON
	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1		15	1010479-2	SWITCH ASSY, TOGGLE
	1		14	1010479-1	SWITCH ASSY, TOGGLE
(L1)	1		13	1010484-1	SWITCH ASSY, TOGGLE
(L2)					
	1		11	1010478-2	SWITCH ASSY, TOGGLE
NOTE 6	2		10	1010478-1	SWITCH ASSY, TOGGLE
			9		
NOTE 6	1		7	1010492	TRANSFORMER, POWER
(K2)	1		5	1014643	ATTITUDE IMPULSE SWITCH ASSY.
	1		4	1014558-021	SEXTANT HAND CONTROLLER ASSY.
	1		2	1014591-011	BRACKET & POT. ASSEMBLY
	1		1	1014581	PANEL, G&N IND. CONT. (INSEP.)

(E1) REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513	1014513	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Deall 2 Jul 63
APPROVAL D W Minley 2 Jul 63
APPROVAL [illegible] 3 Jul 63
NASA APPROVAL [illegible] 8/7/63
MIT APPROVAL [illegible]

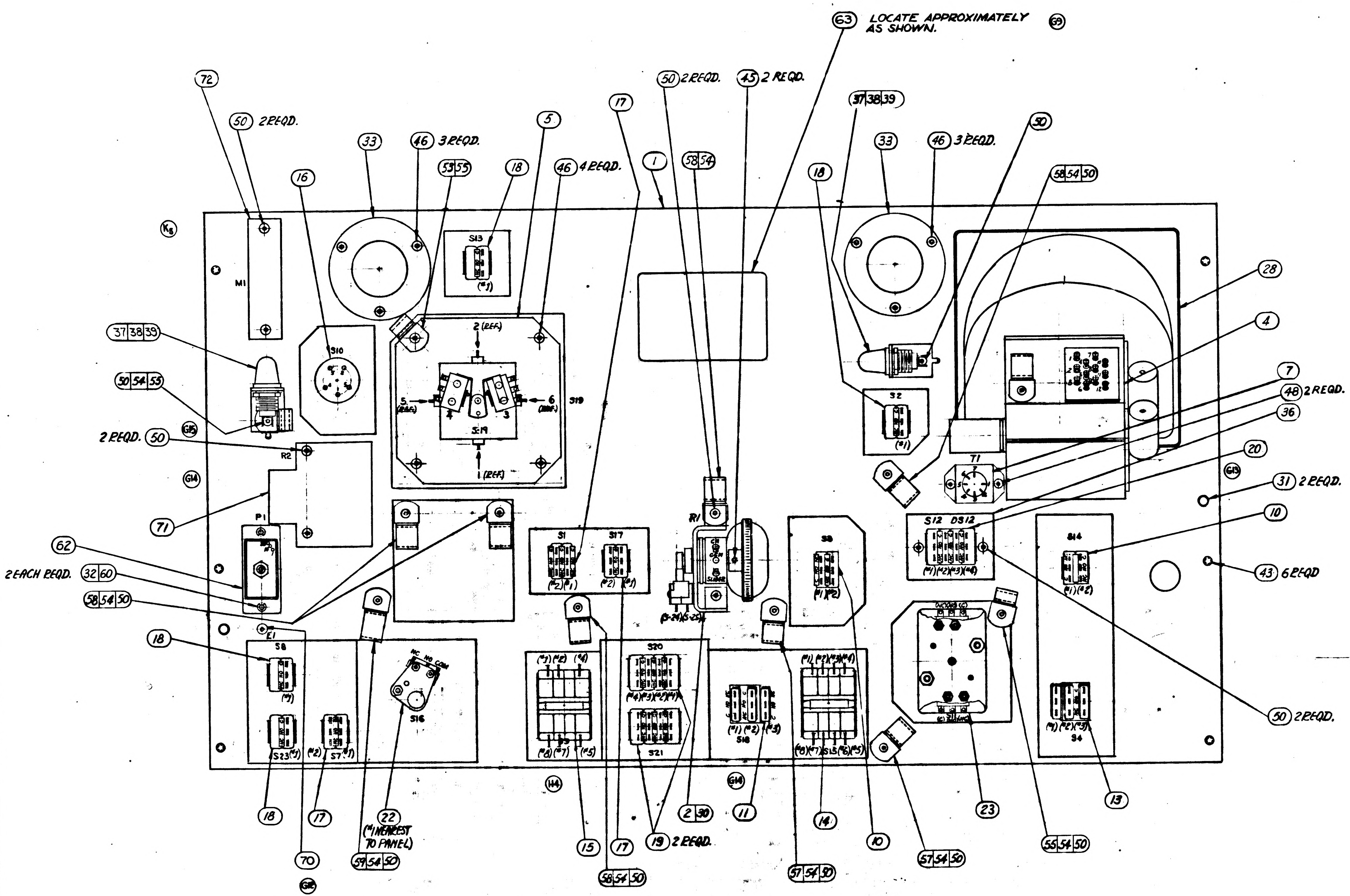
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

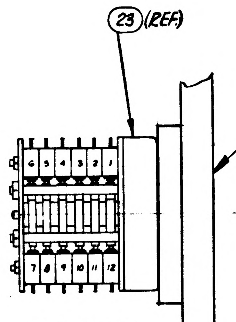
G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE ——
WEIGHT
SHEET 1 OF 3

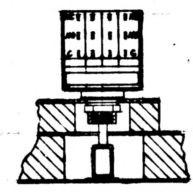
Cheeleston 2-Jul-63

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E			TDRR 02426	7 [illegible] 63	
F			TDRR 03198	9/10/63	W.C
G		SEE SHEET NO. 1		21 NOV 63	W.K
H4		REVISED PER TDRR NO. 04959		11 DEC 63	
K5		REVISED PER TDRR NO. 06259		18 FEB 64	
L4		REVISED PER TDRR NO. 06370		25 FEB 64	W.C


63 LOCATE APPROXIMATELY AS SHOWN.
69
72
50 2 REQD.
16
33
46 3 REQD.
53 55
18
S13
5
46 4 REQD.
17
1
50 2 REQD.
58 54
45 2 REQD.
37 38 39
18
33
46 3 REQD.
50
58 54 50
28
4
7
48 2 REQD.
36
20
31 2 REQD.
10
43 6 REQD
50 2 REQD.
M1
37 38 39
50 54 55
2 REQD. 50
R2
S10
S19
2 (REF)
1 (REF)
5 (REF)
6 (REF)
71
P1
62
2 EACH REQD. 32 60
58 54 50
E1
18
S6
S23
S7
S16
S1
S17
R1
(S-24) (S-25)
S9
S20
S21
S18
S15
S2
T1
S12 DS12
S14
S4
18
17
(*1 NEAREST TO PANEL)
22
59 54 50
70
15
17
56 54 50
19 2 REQD.
2 30
11
14
57 54 50
10
57 54 50
23
55 54 50
13



SIDE VIEW S11



TYPICAL VIEW S9 AND S15

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Tiehl 2 JUL 63
APPROVAL Dal Mickey 2 Jul '63
APPROVAL 3 JULY 63
NASA APPROVAL
MIT APPROVAL May 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO. SIZE E 1014578
SCALE — SHEET 3 OF 3

1014578

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014578 L
10 December 1963
Class A **Release**
TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3/10/64	A	06250	3	WK	WL
3/31/64	B	06812	3, 4, 5, 6, and 7	WK	WL
5/19/64	C	08504	2, 3, and 4	III	WL
5/19/64	D	08498	6	[illegible]	[illegible]
5/26/64	E	08751	8	WK	WJR
6/16/64	F	10150	3, 4, 5, 7, 8	WK	WJR
6/9/64	G	10070	9	WK	WJR
[illegible]	H	[illegible]	[illegible]	WK	[illegible]
8/12/64	J	11531	3	WK	WM
9/16/64	K	12651	1, 2, 8	LL	W. J. R.
10/14/64	L	13379	3	III	W. J. R.

This specification consists of page i to iii and 1 to 10 inclusive.

TABLE II

OPTICS GROUP AND SEXTANT HAND CONTROLLER OUTPUT AND CONTINUITY

SEXTANT HAND CONTROLLER POSITIONS	OPTICS GROUP SWITCH POSITIONS						OUTPUT				CONTINUITY		
	SPEED CONTROLLER	OPTICS MODE	MODE CONTROLLER	TRACK	SEXTANT POWER	SLAVE TELESCOPE	From Pin (Hi)	To Pin (Lo)	Voltage (V rms)	Phase ±10°	From Pin	To Pin	Resistance (Ohms)
"EXTREME (+) TRUNNION"	"MEDIUM"	"MANUAL"	"DIRECT"	Not Illu.	Optional	Optional	19	33	1.05 to 1.45	0	71	49	1.4 max
"EXTREME (-) TRUNNION"							19	33	1.05 to 1.45	π	71	49	1.4 max
"EXTREME (+) SHAFT"							35	34	1.05 to 1.45	0	71	38	1.4 max
"EXTREME (-) SHAFT	"MEDIUM"						35	34	1.05 to 1.45	π	71	38	1.4 max
"NORMAL"	Optional						-	-	-	-	23	10	1.7 max
							-	-	-	-	23	24	1.7 max
							-	-	-	-	56	19	100 meg min
							-	-	-	-	48	35	
							-	-	-	-	47	71	
							-	-	-	-	37	36	
							-	-	-	-	25	36	
							-	-	-	-	1	72	
							-	-	-	-	24	8	
							-	-	-	-	23	9	
							-	-	-	-	22	10	
							-	-	-	-	71	38	
							-	-	-	-	71	49	
"NORMAL"	Optional						-	-	-	-	38	49	
"EXTREME (+) TRUNNION"	"LO"						19	33	0.104 to 0.146	0	71	38	
"EXTREME (+) SHAFT"	"LO"						35	34	0.104 to 0.146	0	71	49	100 meg min
"EXTREME (+) TRUNNION"	"HI"						19	33	9 to 12	0	-	-	-
"EXTREME (+) SHAFT"	"HI"		"DIRECT"				35	34	9 to 12	0	-	-	-
"EXTREME (+) TRUNNION"	"HI"		"RESOLVED"				10	23	9 to 12	0	-	-	-
"EXTREME (+) SHAFT	"HI"						24	23	9 to 12	0	-	-	-
"NORMAL"	Optional						-	-	-	-	99	1	1.0 max
							-	-	-	-	38	49	
							-	-	-	-	34	35	
"NORMAL"		"MANUAL"	"RESOLVED"				-	-	-	-	33	19	1.0 max
Optional		"COMPUTER"	"DIRECT"				-	-	-	-	1	72	100 meg min
							-	-	-	-	36	25	100 meg min
							-	-	-	-	36	37	1.0 max
							-	-	-	-	56	19	1.7 max
							-	-	-	-	48	35	1.7 max
							-	-	-	-	47	71	1.0 max
							-	-	-	-	23	10	1.7 max
							-	-	-	-	23	24	1.7 max
			"DIRECT"				-	-	-	-	1	99	100 meg min
Optional	Optional	"COMPUTER"	Optional	Not Illum.	Optional	Optional	-	-	-	-	71	38	1.0 max

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS 1014578.
4. SERIALIZE PER ND 1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1) USING (66) AND (67).
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.

(H2)

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
E		(E) REPLACES REV. D WITH CHANGE	TDRR 02426	7 AUG 63	WK
F		(F1) ADDED PART NO'S. 1011918-3 & 1011918-1. (F2) DELETED ITEMS 40, 41, 42, 52 & 61. TDRR 03198		9/4/63	WK
G 15		REVISED PER TDRR NO. 04622		18 NOV 63	WK
H 4		REVISED PER TDRR NO. 04959		11 DEC 63	
J		REVISED PER TDRR NO. 05816		28 JAN 64	WK
K 5		REVISED PER TDRR NO. 06259		18 FEB 64	WK
L 4		REVISED PER TDRR NO. 06370		25 FEB 64	WK
M		REVISED PER TDRR NO. 07386		10 APR 64	J.K.

M	M	L
L	K	L
K	K	K
J	H	H
H	G	H
G	G	G
E	A	A
SHEET 1	SHEET 2	SHEET 3

REVISION STATUS OF SHEETS

	QUANTITY REQUIRED ON	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
(K2)	1		72	1014660	PLATE
	1		71	1014659	PLATE
NOTE 6	1		70	1006783-21	SCREW, BUTTON HD
NOTE 6	1		69	1010624-2	LAMP-INCANDESCENT
	X			PS:014578	SPECIFICATION
	X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
	1		68	1014624	WIRE LIST A-A
	AR		67	MIL-F-14256	FLUX (ES-2798)
				QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
	AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
(H1)					
	1		63	1014650-1	NAMEPLATE
	1		62	1014580	HARNESS
	2		60	MS-16633-4009	RING-RETAINING
NOTE 6	1		59	1000220-10	CLAMP-CABLE
NOTE 6	5		58	1000220-8	CLAMP-CABLE
NOTE 6	2		57	1000220-7	CLAMP-CABLE
			56		
NOTE 6	3		55	1000220-4	CLAMP-CABLE
NOTE 6	10		54	1011918-3	WASHER-CABLE CLAMP
NOTE 6	1		53	1011918-1	WASHER-CABLE CLAMP
NOTE 6	18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6	2		48	1006783-18	SCREW-BUTTON HD.
NOTE 6	2		47	1010630-25	SCREW-FLAT HD.
NOTE 6	10		46	1006783-19	SCREW-BUTTON HD.
	6		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6	12		44	1010630-14	SCREW-FLAT HD.

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED ON	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
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			42		
			41		
			40		
NOTE 6	2		39	1010268-2	LAMP-INCANDESCENT
	2		38	1010625	HOLDER, LAMP
	2		37	1014595	BRACKET, MOUNTING-LAMP
	1		36	1014594	PLATE, MOUNTING SWITCH
	2		35	1014587	WINDOW
	4		34	1014584	GASKET, WINDOW
	2		33	1014583	CLAMP, WINDOW
	2		32	1014530	PIN-CONNECTOR
	2		31	1014528	PIN-PANEL
(K1)	1		30	1014588	WHEEL, POTENTIOMETER
	1		28	1014586	SUPPORT, HAND CONTROLLER
	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6	9		26	1010475	CAP, PUSHBUTTON
	1		25	1014585-002	KNOB, ROTARY SWITCH
	1		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6	1		23	1010494	SWITCH ASSY, ROTARY
NOTE 6	1		22	1010417-1	SWITCH ASSY, ROTARY
NOTE 6	1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
(H3)	2		19	1010480-3	SWITCH ASSY, PUSH BUTTON
	4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
	3		17	1010480-1	SWITCH ASSY, PUSH BUTTON
	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1		15	1010479-2	SWITCH ASSY, TOGGLE
	1		14	1010479-1	SWITCH ASSY, TOGGLE
(L1)	1		13	1010484-1	SWITCH ASSY, TOGGLE
(L2)					
	1		11	1010478-2	SWITCH ASSY, TOGGLE
NOTE 6	2		10	1010478-1	SWITCH ASSY, TOGGLE
			9		
NOTE 6	1		7	1010492	TRANSFORMER, POWER
(K2)	1		5	1014643	ATTITUDE IMPULSE SWITCH ASSY.
	1		4	1014558-021	SEXTANT HAND CONTROLLER ASSY.
	1		2	1014591-011	BRACKET & POT. ASSEMBLY
	1		1	1014581	PANEL, G&N IND. CONT. (INSEP.)

LIST OF PARTS AND MATERIALS

M 1014578

(E) REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513	1014513	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. [illegible] 2 Jul '63
APPROVAL D.W. [illegible] 2 Jul '63
APPROVAL [illegible] 2 Jul '63
NASA APPROVAL [illegible] 8/7/63
MIT APPROVAL [illegible]

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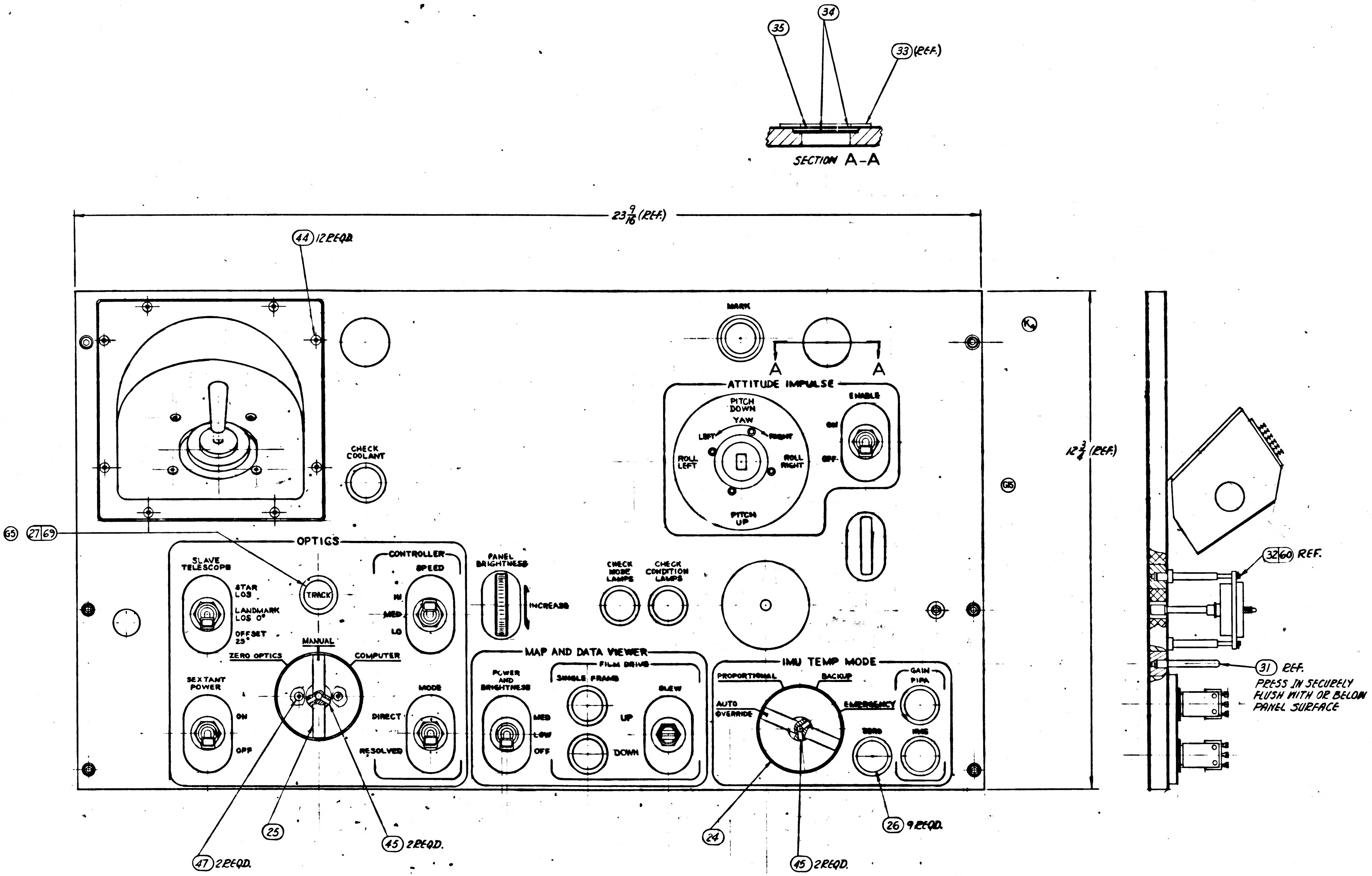
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO. SIZE E 1014578
SCALE — WEIGHT SHEET 1 OF 3

[illegible] 2 JUL 63

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
E		--	TDRR 02426	May 63	WK
F			TDRR 03198	9/18/63	WK
G		SEE SHEET 1		19 NOV 63	WK
H4		REVISED PER TDRR NO. 04959		11 DEC 63	
K5		REVISED PER TDRR NO. 06259		18 FEB 64	WK
M		REVISED PER TDRR NO. 07386		APR 64	



35
34
33 (REF.)
SECTION A-A
23 9/16 (REF.)
44 12 REQD.
MARK
A
A
K5
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
CHECK COOLANT
12 3/4 (REF.)
65
27 69
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
MANUAL
ZERO OPTICS
COMPUTER
SEXTANT POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
MAP AND DATA VIEWER
POWER AND BRIGHTNESS
MED
LOW
OFF
FILM DRIVE
SINGLE FRAME
UP
DOWN
SLEW
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
IMG
32 60 REF.
31 REF.
PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE
47 2 REQD.
25
45 2 REQD.
24
45 2 REQD.
26 9 REQD.

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Diehl 2 Jul 63
APPROVAL D W [illegible] 2 Jul 63
APPROVAL [illegible] 3 Jul 63
NASA APPROVAL [illegible] 8/17/63
MIT APPROVAL [illegible]

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G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE —
SHEET 2 OF 3

1014578 M

APOLLO G&N Specification

PS-1014578 E
10 December 1963
Class A Release
TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3/10/64	A	06250	3	WK	WLS
3/31/64	B	06812	3, 4, 5, 6, and 7	WK	WLS
5/19/64	C	08504	2, 3, and 4	IH	WLS
5/19/64	D	08498	6	WK	WLS
5/26/64	E	08751	8	WK	WJR
6/16/64	F	10150	3, 4, 5, 7, 8	WK	WJR
6/9/64	G	10070	9	WK	WJR
7/14/64	H	10946	3, 4	WK	[illegible]
8/12/64	J	11531	3	WK	WM
9/16/64	K	12651	1, 2, 8	LL	W.J.R.
10/14/64	L	13379	3	IH	W.J.R.

This specification consists of page i to iii and 1 to 10 inclusive.

(continued)

APOLLO G&N Specification
PS1014578 M
Original Issue Date: 10 December 1963
Release Authority: TDRR 05139
Class A Release

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

(continued)

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
1/18/64	M	14370	8	WK	WJR

This specification consists of page to inclusive.

APPROVALS	NASA/MSC	MIT/IL	ACSP

3.3.2.5 Panel Brightness Control. The PANEL BRIGHTNESS control shall operate as follows:

a. With PANEL BRIGHTNESS control set in the extreme "DECREASE" position and the switches actuated into their open position; the resistance between pins P1-32 and P1-26 shall be no less than 100 megohms, the resistance between pins P1-61 and P1-64 shall be no less than 100 megohms and the resistance between pins P1-44 and P1-32 shall be 1.0 ohm max.

b. With the PANEL BRIGHTNESS control rotated in the "INCREASE" direction to the point at which the switches are just actuated into their closed position; (approx. one-tenth of full rotation) the resistance between pins P1-32 and P1-26 shall be less than 0.5 ohm, the resistance between pins P1-61 and P1-64 shall be less 0.5 ohms, and the resistance of the potentiometer existing between pins P1-44 and P1-32 shall be 1.0 ohm max.

c. With the PANEL BRIGHTNESS control rotated in the "INCREASE" direction past the point of switch actuations, the resistance between pins 32 and 26 shall be no greater than 1.0 ohms, and the resistance between pins 61 and 64 shall be no greater than 1.0 ohms.

3.3.2.6 Check Condition Lamps. With no power applied and the CHECK CONDITION LAMPS switch in the positions specified in Table VII, the continuity through the switch shall be as specified in Table VII.

TABLE VII

CHECK CONDITION LAMP CONTINUITY

PINS		CONTINUITY FOR SWITCH POSITION (Ohms)	
From	To	OUT	IN
51	73	100 meg min	1.0 max
29	61	100 meg min	1.0 max
14	15	100 meg min	1.0 max

3.3.2.7 Mark Button. The MARK button operation shall be as follows:

a. With the MARK button not depressed, the resistance between pins 42 and 31 shall be 1.0 ohm max, and the resistance between pins 42 and 30 shall be greater than 100 megohms.

b. With the MARK button depressed, the resistance between pins 42 and 31 shall be greater than 100 megohms, and the resistance between pins 42 and 30 shall be 1.0 ohm max.

3.3.3 Insulation Resistance. The insulation resistance from pins 83 and 91 to all other pins shall be no less than 100 megohms when tested in accordance with Method 302 of Standard MIL-STD-202, with 150 to 200 vdc applied.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS 1014578.
4. SERIALIZE PER ND 1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1) USING (66) AND (67).
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.

(H2)

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
E		(E1) REPLACES REV. D WITH CHANGE	TDRR 02426	7 AUG 63	WK.
F		(F1) ADDED PART NOS. 1011918-3 & 1011918-1. (F2) DELETED ITEMS 40, 41, 42, 52 & 61. TDRR 03198		9/18/63	WK
G15		REVISED PER TDRR NO. 04622		18 NOV 63	WK
H4		REVISED PER TDRR NO. 04959		11 DEC 63	
J		REVISED PER TDRR NO. 05816		28 JAN 64	WK
K5		REVISED PER TDRR NO. 06259		18 FEB 64	WK
L4		REVISED PER TDRR NO. 06370		25 FEB 64	WK
M		REVISED PER TDRR NO. 07386		10 APR 64	
N		REVISED PER TDRR NO. 10168		24 JUN 64	

N	N	N
M	M	L
L	K	L
K	K	K
J	H	H
H	G	H
G	G	G
E	A	A
SHEET 1	SHEET 2	SHEET 3

REVISION STATUS OF SHEETS

	QUANTITY REQUIRED		021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			X	-			1015018	SCHEMATIC DIAGRAM, ELECTRICAL
			2	-		80	1014585-003	KNOB, ROTARY SWITCH
			1	-		79	1015016	PANEL, G&N IND. CONT. (INSEP)
			1	-		78	1015014	WIRE LIST AA
			1	-		77	1015015	HARNESS
NOTE 6			1	-		76	1010494-3	SWITCH ASSY, ROTARY
NOTE 6			1	-		75	1010494-2	SWITCH ASSY, ROTARY
			1	-		74	1014650-8	NAMEPLATE
			4	-		73	NAS 1081C06D3L	SCREW-SET, SELF LOCK
(K3)			1	1		72	1014660	PLATE
			1	1		71	1014659	PLATE
NOTE 6			1	1		70	1006783-21	SCREW, BUTTON HD
NOTE 6			1	1		69	1010624-2	LAMP-INCANDESCENT
			X	X			PS:014578	SPECIFICATION
			-	X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
			-	1		68	1014624	WIRE LIST A-A
			AR	AR		67	MIL-F-14256	FLUX (ES-2798)
							QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
			AR	AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
(H1)								
			-	1		63	1014650-1	NAMEPLATE
			-	1		62	1014580	HARNESS
			2	2		60	MS-16633-4009	RING-RETAINING
NOTE 6			1	1		59	1000220-10	CLAMP-CABLE
NOTE 6			5	5		58	1000220-8	CLAMP-CABLE
NOTE 6			2	2		57	1000220-7	CLAMP-CABLE
						56		
NOTE 6			3	3		55	1000220-4	CLAMP-CABLE
NOTE 6			10	10		54	1011918-3	WASHER-CABLE CLAMP
NOTE 6			1	1		53	1011918-1	WASHER-CABLE CLAMP
NOTE 6			18	18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6			2	2		48	1006783-18	SCREW-BUTTON HD.
NOTE 6			4	2		47	1010630-25	SCREW-FLAT HD.
NOTE 6			10	10		46	1006783-19	SCREW-BUTTON HD.
			2	6		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6			12	12		44	1010630-14	SCREW-FLAT HD.

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED		021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			6	6		43	1014503	SCREW-CAPTIVE
						42		
						41		
						40		
NOTE 6			2	2		39	1010268-2	LAMP-INCANDESCENT
			2	2		38	1010625-1	HOLDER, LAMP
			2	2		37	1014595	BRACKET, MOUNTING-LAMP
			1	1		36	1014594	PLATE, MOUNTING SWITCH
			2	2		35	1014587	WINDOW
			4	4		34	1014584	GASKET, WINDOW
			2	2		33	1014583	CLAMP, WINDOW
			2	2		32	1014530	PIN-CONNECTOR
			2	2		31	1014528	PIN-PANEL
(K1)			1	1		30	1014588	WHEEL, POTENTIOMETER
			1	1		28	1014586	SUPPORT, HAND CONTROLLER
			1	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6			9	9		26	1010475-1	CAP, PUSHBUTTON
			-	1		25	1014585-002	KNOB, ROTARY SWITCH
			-	1		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6			-	1		23	1010494-1	SWITCH ASSY, ROTARY
NOTE 6			-	1		22	1010417-1	SWITCH ASSY, ROTARY
NOTE 6			1	1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
(H3)			2	2		19	1010480-3	SWITCH ASSY, PUSH BUTTON
			4	4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
			3	3		17	1010480-1	SWITCH ASSY, PUSH BUTTON
			1	1		16	1010489-1	SWITCH ASSY, TOGGLE
			1	1		15	1010479-2	SWITCH ASSY, TOGGLE
			1	1		14	1010479-1	SWITCH ASSY, TOGGLE
(L1)			1	1		13	1010484-1	SWITCH ASSY, TOGGLE
(L2)								
			1	1		11	1010478-2	SWITCH ASSY, TOGGLE
NOTE 6			2	2		10	1010478-1	SWITCH ASSY, TOGGLE
						9		
NOTE 6			1	1		7	1010492	TRANSFORMER, POWER
(K2)			1	1		5	1014643	ATTITUDE IMPULSE SWITCH ASSY.
			1	1		4	1014558-021	SEXTANT HAND CONTROLLER ASSY.
			1	1		2	1014591-011	BRACKET & POT. ASSEMBLY
			-	1		1	1014581	PANEL, G&N IND. CONT. (INSEP.)

LIST OF PARTS AND MATERIALS

(E1) REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513	1014513	-021
1014513	1014513	-011

APPLICATION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Diehl 2 Jul '63
APPROVAL D.W. Mi[illegible] 2 Jul '63
APPROVAL [illegible] 3 Jul 63
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

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HOUSTON, TEXAS

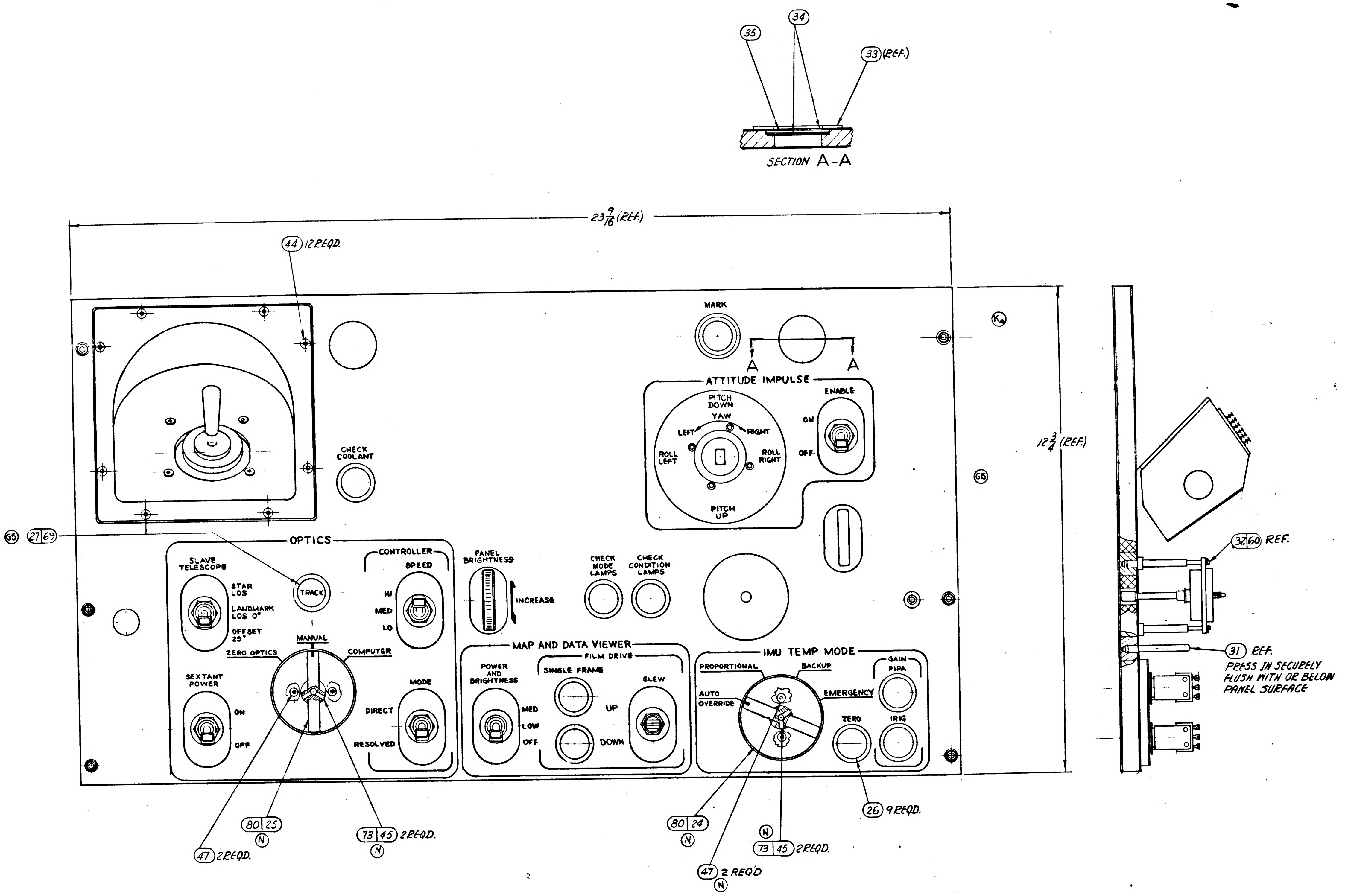
G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO. SIZE E 1014578
SCALE — WEIGHT SHEET 1 OF 3

1014578

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E			TDRR 02426	7 Aug 63	WK
F			TDRR 03198	9/11/63	WK
G		SEE SHEET 1		19 NOV 63	WK
H_4		REVISED PER TDRR NO. 04959		11 DEC 63	
K_5		REVISED PER TDRR NO. 06259		18 FEB 64	WK
M		REVISED PER TDRR NO. 07386		10 APR 64	
N		REVISED PER TDRR NO. 10168		24 JUN 64	



35
34
33 (REF.)
SECTION A-A
$23\frac{9}{16}$ (REF.)
44 12 REQD.
MARK
A
A
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
ENABLE
ON
OFF
K4
G5
$12\frac{3}{4}$ (REF.)
CHECK COOLANT
G5 27 69
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
TRACK
CONTROLLER
SPEED
HI
MED
LO
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
MANUAL
ZERO OPTICS
COMPUTER
SEXTANT POWER
ON
OFF
MODE
DIRECT
RESOLVED
MAP AND DATA VIEWER
FILM DRIVE
POWER AND BRIGHTNESS
SINGLE FRAME
SLEW
MED
LOW
OFF
UP
DOWN
IMU TEMP MODE
PROPORTIONAL
BACKUP
GAIN
PIPA
AUTO OVERRIDE
EMERGENCY
ZERO
IRIG
32 60 REF.
31 REF.
PRESS IN SECURELY FLUSH WITH OR BELOW PANEL SURFACE
80 25
N
73 45 2 REQD.
N
47 2 REQD.
80 24
N
N
73 45 2 REQD.
47 2 REQ'D
N
26 9 REQD.

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Diehl 2 Jul 63
APPROVAL DW Mulvey
APPROVAL Wodel 3 July 63
NASA APPROVAL
MIT APPROVAL

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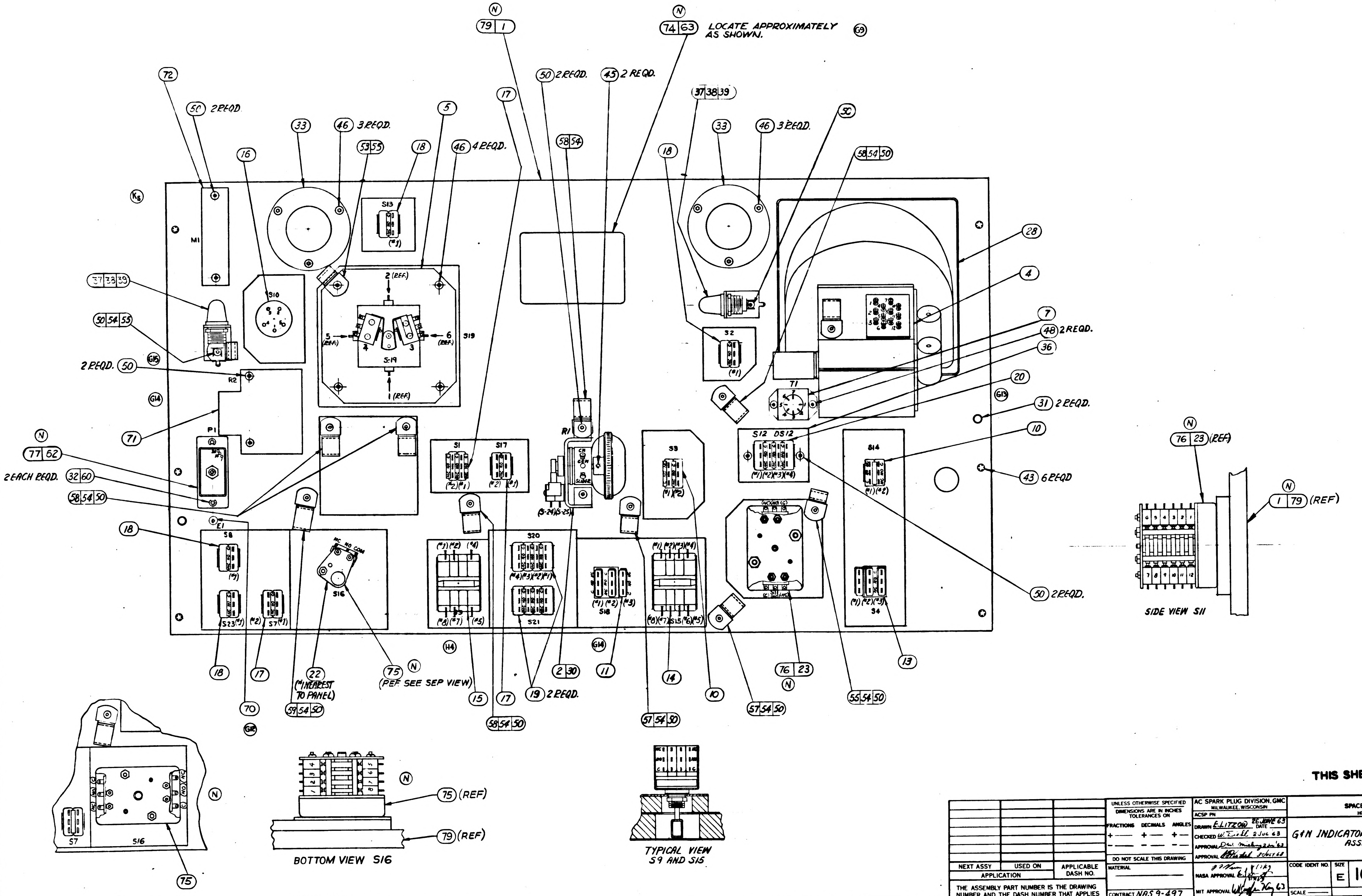
G & N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE
SHEET 2 OF 3

1014578

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E			TDRR 02426	7 Aug 63	WK
F			TDRR 03198	9/18/63	WK
G		SEE SHEET NO. 1		21 NOV 63	WK
H4		REVISED PER TDRR NO. 04959		11 DEC 63	
K5		REVISED PER TDRR NO. 06259		18 FEB 64	WK
L4		REVISED PER TDRR NO. 06370		25 FEB 64	WK
N		REVISED PER TDRR NO. 10168		24 JUN 64	



(N) 79 1
(N) 74 63 LOCATE APPROXIMATELY AS SHOWN.
(69)
72
50 2 REQD.
16
33
46 3 REQD.
53 55
18
5
46 4 REQD.
17
50 2 REQD.
45 2 REQD.
58 54
37 38 39
18
33
46 3 REQD.
50
58 54 50
28
4
7
48 2 REQD.
36
20
31 2 REQD.
10
43 6 REQD.
50 2 REQD.
K5
M1
S13
S10
37 33 39
50 54 55
2 REQD. 50
R2
(G14)
71
(N) 77 62
P1
2 EACH REQD. 32 60
58 54 50
E1
18
S8
S23
S7
S16
S19
2 (REF)
5 (REF)
6 (REF)
1 (REF)
S1
S17
R1
S20
S21
S18
S9
S15
S12 DS12
S14
S4
T1
S2
S11
18
17
22 (#1 NEAREST TO PANEL)
75 (N) (REF. SEE SEP VIEW)
59 54 50
70
15
17
19 2 REQD.
58 54 50
2 30
11
57 54 50
14
10
57 54 50
76 23 (N)
55 54 50
13
(H4)
(G14)
(G8)
(G13)
(N) 76 23 (REF)
(N) 1 79 (REF)
SIDE VIEW S11
(N) 75 (REF)
79 (REF)
BOTTOM VIEW S16
TYPICAL VIEW S9 AND S15
S7
S16
75
(N)

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

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AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Ewell 2 JUL 63
APPROVAL 2 Jul 63
APPROVAL 3 JULY 63
NASA APPROVAL
MIT APPROVAL May 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO. SIZE E 1014578
SCALE —
SHEET 3 OF 3

1014578

APOLLO G&N Specification
PS1014578 N
Original Issue Date: 10 December 1963
Release Authority: TDRR 05139
Class A Release

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

(continued)

Record of Revisions

Ⓝ

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
1/18/64	M	14370	8	WK	WJR
2/24-65	N	16787	8	WK	TM

This specification consists of page to inclusive.

APPROVALS	NASA/MSC	MIT/IL	ACSP

APOLLO G&N Specification
PS-1014578 L
10 December 1963
Class A **Release**
TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3/10/64	A	06250	3	WK	WL
3/31/64	B	06812	3, 4, 5, 6, and 7	WK	WL
5/19/64	C	08504	2, 3, and 4	IH	WL
5/19/64	D	08498	6		
5/26/64	E	08751	8	WK	[illegible]
6/16/64	F	10150	3, 4, 5, 7, 8	WK	[illegible]
6/9/64	G	10070	9	W.[illegible]	[illegible]
[illegible]	H	[illegible]	[illegible]	WK [illegible]	[illegible]
8/12/64	J	11531	3	WK [illegible]	WM
9/16/64	K	12651	1, 2, 8	LL [illegible]	W. J. R.
10/1/64	L	133[illegible]9	3	III [illegible]	W. J. R.

This specification consists of page i to iii and 1 to 10 inclusive.

(continued)

3.3.2.5 Panel Brightness Control. The PANEL BRIGHTNESS control shall operate as follows:

a. With PANEL BRIGHTNESS control set in the extreme "DECREASE" position and the switches actuated into their open position; the resistance between pins P1-32 and P1-26 shall be no less than 100 megohms, the resistance between pins P1-61 and P1-64 shall be no less than 100 megohms and the resistance between pins P1-44 and P1-32 shall be 1.0 ohm max.

b. With the PANEL BRIGHTNESS control rotated in the "INCREASE" direction to the point at which the switches are just actuated into their closed position; (approx one-tenth of full rotation) the resistance between pins P1-32 and P1-26 shall be less than 1.0 ohm, the resistance between pins P1-61 and P1-64 shall be less than 1.0 ohm, and the resistance of the potentiometer existing between pins P1-44 and P1-32 shall be 1.0 ohm max.

c. With the PANEL BRIGHTNESS control rotated to the extreme "INCREASE" position: The resistance between pins P1-32 and P1-26 shall be less than 1.0 ohm , the resistance between pins P1-61 and P1-64 shall be less than 1.0 ohm , and the potentiometer resistance existing between pins P1-44 and P1-32 shall be 1.5±0.15K ohms. The resistance of the potentiometer shall increase without interruption as the control is rotated to the extreme "INCREASE" position.

3.3.2.6 Check Condition Lamps. With no power applied and the CHECK CONDITION LAMPS switch in the positions specified in Table VII, the continuity through the switch shall be as specified in Table VII.

TABLE VII

CHECK CONDITION LAMP CONTINUITY

PINS		CONTINUITY FOR SWITCH POSITION (Ohms)	
From	To	OUT	IN
51	73	100 meg min	1.0 max
29	61	100 meg min	1.0 max
14	15	100 meg min	1.0 max

3.3.2.7 Mark Button. The MARK button operation shall be as follows:

a. With the MARK button not depressed, the resistance between pins 42 and 31 shall be 1.0 ohm max, and the resistance between pins 42 and 30 shall be greater than 100 megohms.

b. With the MARK button depressed, the resistance between pins 42 and 31 shall be greater than 100 megohms, and the resistance between pins 42 and 30 shall be 1.0 ohm max.

3.3.3 Insulation Resistance. The insulation resistance from pins 83 and 91 to all other pins shall be no less than 100 megohms when tested in accordance with Method 302 of Standard MIL-STD-202, with 150 to 200 vdc applied.

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS 1014578.
4. SERIALIZE PER ND 1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1) USING (66) AND (67).
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING

(H2)

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E		(E1) REPLACES REV. D WITH CHANGE	TDRR 02426	7 AUG 63	WK.
F		(F1) ADDED PART NO'S. 1011918-3 & 1011918-1. (F2) DELETED ITEMS 40, 41, 42, 52 & 61. TDRR 03198		9JUL63	WK
G 15		REVISED PER TDRR NO. 04622		18 NOV 63	WK
H 4		REVISED PER TDRR NO. 04959		11 DEC 63	
J		REVISED PER TDRR NO. 05816		28 JAN 64	WK
K 5		REVISED PER TDRR NO. 06259		18 FEB 64	WK
L 4		REVISED PER TDRR NO. 06370		25 FEB 64	WK
M		REVISED PER TDRR NO. 07386		10 APR 64	J.K.
N		REVISED PER TDRR NO. 10168		24 JUN 64	
P		REVISED PER TDRR NO. 10516		15 JUL 64	J.K.

SHEET 1	SHEET 2	SHEET 3
P	N	P
N	N	N
M	M	L
L	K	L
K	K	K
J	H	H
H	G	H
G	G	G
E	A	A

REVISION STATUS OF SHEETS

	QUANTITY REQUIRED 021	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	1	1		81	1015020-011	ATTITUDE IMPULSE SWITCH ASSY
	X	-			1015018	SCHEMATIC DIAGRAM, ELECTRICAL
	2	-		80	1014585-003	KNOB, ROTARY SWITCH
	1	-		79	1015016	PANEL, G&N IND. CONT. (INSEP)
	1	-		78	1015014	WIRE LIST AA
	1	-		77	1015015	HARNESS
NOTE 6	1	-		76	1010494-3	SWITCH ASSY, ROTARY
NOTE 6	1	-		75	1010494-2	SWITCH ASSY, ROTARY
	1	-		74	1014650-8	NAMEPLATE
	4	-		73	NAS 1081C06D3L	SCREW-SET, SELF LOCK
(K3)	1	1		72	1014660	PLATE
	1	1		71	1014659	PLATE
NOTE 6	1	1		70	1006783-21	SCREW, BUTTON HD
NOTE 6	1	1		69	1010624-2	LAMP-INCANDESCENT
	X	X			PS1014578	SPECIFICATION
	-	X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
	-	1		68	1014624	WIRE LIST A-A
	AR	AR		67	MIL-F-14256	FLUX (ES-2798)
					QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
	AR	AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
(H1)						
	-	1		63	1014650-1	NAMEPLATE
	-	1		62	1014580	HARNESS
	2	2		60	MS-16633-4009	RING-RETAINING
NOTE 6	1	1		59	1000220-10	CLAMP-CABLE
NOTE 6	5	5		58	1000220-8	CLAMP-CABLE
NOTE 6	2	2		57	1000220-7	CLAMP-CABLE
				56		
NOTE 6	3	3		55	1000220-4	CLAMP-CABLE
NOTE 6	10	10		54	1011918-3	WASHER-CABLE CLAMP
NOTE 6	1	1		53	1011918-1	WASHER-CABLE CLAMP
NOTE 6	18	18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6	2	2		48	1006783-18	SCREW-BUTTON HD.
NOTE 6	4	2		47	1010630-25	SCREW-FLAT HD.
NOTE 6	10	10		46	1006783-19	SCREW-BUTTON HD.
	2	6		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6	12	12		44	1010630-14	SCREW-FLAT HD.

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED 021	QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	6	6		43	1014503	SCREW-CAPTIVE
				42		
				41		
				40		
NOTE 6	2	2		39	1010268-2	LAMP-INCANDESCENT
	2	2		38	1010625-1	HOLDER, LAMP
	2	2		37	1014595	BRACKET, MOUNTING-LAMP
	1	1		36	1014594	PLATE, MOUNTING SWITCH
	2	2		35	1014587	WINDOW
	4	4		34	1014584	GASKET, WINDOW
	2	2		33	1014583	CLAMP, WINDOW
	2	2		32	1014530	PIN-CONNECTOR
	2	2		31	1014528	PIN-PANEL
(K1)	1	1		30	1014588	WHEEL, POTENTIOMETER
	1	1		28	1014586	SUPPORT, HAND CONTROLLER
	1	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6	9	9		26	1010475-1	CAP, PUSHBUTTON
	-	1		25	1014585-002	KNOB, ROTARY SWITCH
	-	1		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6	-	1		23	1010494-1	SWITCH ASSY, ROTARY
NOTE 6	-	1		22	1010417-1	SWITCH ASSY, ROTARY
NOTE 6	1	1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
(H3)	2	2		19	1010480-3	SWITCH ASSY, PUSH BUTTON
	4	4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
	3	3		17	1010480-1	SWITCH ASSY, PUSH BUTTON
	1	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1	1		15	1010479-2	SWITCH ASSY, TOGGLE
	1	1		14	1010479-1	SWITCH ASSY, TOGGLE
(L1)	1	1		13	1010484-1	SWITCH ASSY, TOGGLE
(L2)						
	1	1		11	1010478-2	SWITCH ASSY, TOGGLE
NOTE 6	2	2		10	1010478-1	SWITCH ASSY, TOGGLE
				9		
NOTE 6	1	1		7	1010492	TRANSFORMER, POWER
(K2)	~~1~~	~~1~~		~~5~~	~~1014643~~	~~ATTITUDE IMPULSE SWITCH ASSY.~~
	1	1		4	1014558-021	SEXTANT HAND CONTROLLER ASSY.
	1	1		2	1014591-011	BRACKET & POT. ASSEMBLY
	-	1		1	1014581	PANEL, G&N IND. CONT. (INSEP)

LIST OF PARTS AND MATERIALS

(E1) REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513	1014513	-021
1014513	1014513	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Diehl 2 Jul 63
APPROVAL D.W. Mulany 2 July 63
APPROVAL 3 July 63
NASA APPROVAL 8/7/63
MIT APPROVAL

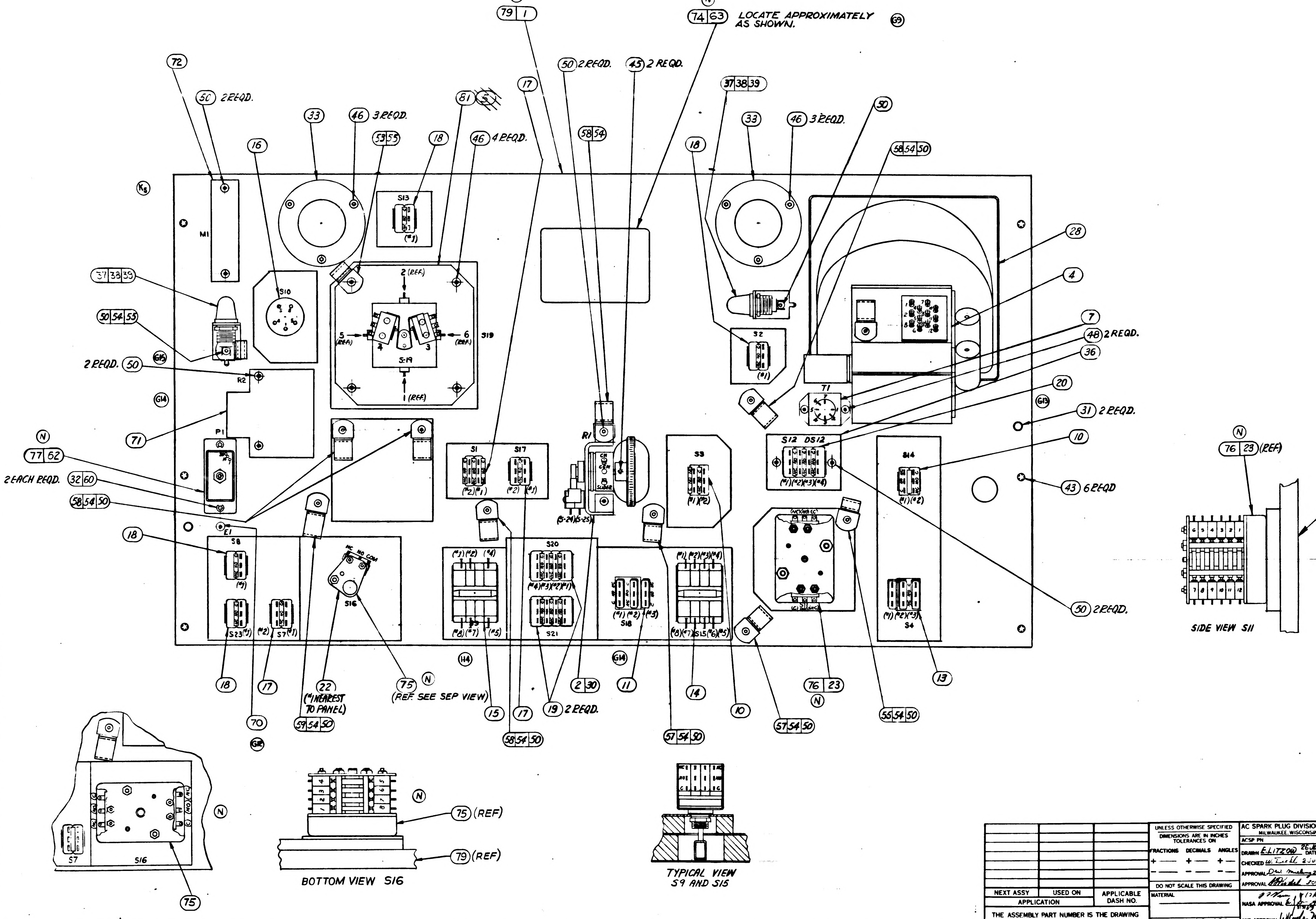
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE —
WEIGHT
SHEET 1 OF 3

Charleston 2 Jul 63

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
E			TDRR 02420	7 Aug 63	WK
F			TDRR 03138	9/18/63	WK
G		SEE SHEET NO. 1		21 NOV 63	WK
H_4		REVISED PER TDRR NO. 04959		11 DEC 63	
K_5		REVISED PER TDRR NO. 06259		18 FEB 64	WK
L_4		REVISED PER TDRR NO. 06370		25 FEB 64	WK
N		REVISED PER TDRR NO. 10168		24 JUN 64	
P		REVISED PER TDRR NO. 10516		15 JUL 64	


79 1
74 63 LOCATE APPROXIMATELY AS SHOWN.
50 2 REQD.
45 2 REQD.
72
50 2 REQD.
16
33
46 3 REQD.
53 55
18
81
46 4 REQD.
17
58 54
37 38 39
33
46 3 REQD.
50
58 54 50
28
4
7
48 2 REQD.
36
20
31 2 REQD.
10
43 6 REQD
50 2 REQD.
37 38 39
50 54 55
2 REQD. 50
71
77 62
2 EACH REQD. 32 60
58 54 50
18
M1
S10
S13
S19
R2
P1
E1
R1
S1
S17
S3
S12 DS12
S14
T1
S8
S7
S16
S20
S21
S18
S15
S4
S23
18
17
70
22 (#1 NEAREST TO PANEL)
59 54 50
75 (REF. SEE SEP VIEW)
15
17
58 54 50
19 2 REQD.
2 30
11
14
57 54 50
10
57 54 50
76 23
55 54 50
13
76 23 (REF)
1 79 (REF)
SIDE VIEW S11
75 (REF)
79 (REF)
BOTTOM VIEW S16
75
TYPICAL VIEW S9 AND S15

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS + — − — DECIMALS + — − — ANGLES + — − — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN E. LITZOW 26 JUNE 63 DATE CHECKED W. Tiell 2 JUL 63 APPROVAL D.W. Mickey 2 Jul '63 APPROVAL 3 JULY 63	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
APPLICATION			MATERIAL	NASA APPROVAL	G&N INDICATOR CONTROL PANEL ASSEMBLY	
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES			CONTRACT NAS 9-497	MIT APPROVAL	CODE IDENT NO. SCALE —	SIZE E 1014578 SHEET 3 OF 3

APOLLO G&N Specification
PS1014578 P
Original Issue Date: 10 December 1963
Release Authority: TDRR 05139
Class A Release

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

(continued)

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
1/18/64	M	14370	8	WK	WJR
2/24-65	N	16787	8	WK	TM
3/2/65	P	17052	1	WK	WJR

This specification consists of page to inclusive.

APPROVALS	NASA/MSC	MIT/IL	ACSP

APOLLO G&N Specification
PS-1014578 L
10 December 1963
Class A **Release**
TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Ⓜ

Date	**Revision Letter**	**TDRR No.**	**Pages Revised**	**Approvals**	
				MIT	**NASA**
3/10/64	A	06250	3	WK	WL
3/31/64	B	06812	3, 4, 5, 6, and 7	WK	WL
5/19/64	C	08504	2, 3, and 4	III	WL
5/19/64	D	08498	6		
5/26/64	E	08751	8	WK	[illegible]
6/16/64	F	10150	3, 4, 5, 7, 8	WK	[illegible]
6/9/64	G	10070	9	W. [illegible]	[illegible]
[illegible]	H	[illegible]	[illegible]	WK [illegible]	[illegible]
Ⓜ 8/12/64	J	11531	3	WK [illegible]	WM
Ⓜ 9/16/64	K	12651	1, 2, 8	LL [illegible]	W. J. R.
Ⓜ 10/14/64	L	13379	3	III [illegible]	W. J. R.

This specification consists of page i to iii and 1 to 10 **inclusive.**

(continued)

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the G&N Indicator Control Panel Assembly, Drawing 1014578, hereafter called the assembly.

1.2 CLASSIFICATION. Unless otherwise specified, all types shall meet all the requirements specified herein. Special requirements for the equipment covered by this Specification shall be classified as follows:

a. Type I: The special requirements for Part No. 1014578-011 and 1014578-021 and 1014578-031 shall be designated as Type I.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014578	Final Test Method for G&N Indicator Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014578	G&N Indicator Control Panel Assembly
1014579	G&N Indicator Control Panel (Schematic) (For Reference Only)
1015018	G&N Indicator Control Panel (Schematic) (For Reference Only)

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS 1014578.
4. SERIALIZE PER ND 1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1) USING (66) AND (67).
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING

(H2)

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
E		(E1) REPLACES REV. D WITH CHANGE	TDRR 02426	AUG 63	WK
F		(F1) ADDED PART NOS 1011918-3 & 1011918-1. (F2) DELETED ITEMS 40, 41, 42, 52 & 61. TDRR 03198		9/18/63	WK
G15		REVISED PER TDRR NO. 04622		18 NOV 63	WK
H4		REVISED PER TDRR NO. 04959		11 DEC 63	
J		REVISED PER TDRR NO 05816		28 JAN 64	
K5		REVISED PER TDRR NO. 06259		19 FEB 64	WK
L4		REVISED PER TDRR NO. 06370		25 FEB 64	WK
M		REVISED PER TDRR NO. 07386		13 APR 64	J.K.
N		REVISED PER TDRR NO. 10168		24 JUN 64	
P		REVISED PER TDRR NO. 10516		3 JUL 64	
R		REVISED PER TDRR 12647		25 SEP 64	LGC CH

SHEET 1	SHEET 2	SHEET 3
R	N	R
P	N	P
N	N	N
M	M	L
L	K	L
K	K	K
J	H	H
H	G	H
G	G	G
E	A	A

REVISION STATUS OF SHEETS

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED		021	011	EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			1	1		81	1015020	ATTITUDE IMPULSE SWITCH ASSY
			X	-			1015018	SCHEMATIC DIAGRAM, ELECTRICAL
			2	-		80	1014585-003	KNOB, ROTARY SWITCH
			1	-		79	1015016	PANEL, G&N IND. CONT. (INSEP)
			1	-		78	1015014	WIRE LIST AA
			1	-		77	1015015	HARNESS
NOTE 6			1	-		76	1010494-3	SWITCH ASSY, ROTARY
NOTE 6			1	-		75	1010494-2	SWITCH ASSY, ROTARY
			1	-		74	1014650-8	NAMEPLATE
			4	-		73	NAS 1081C06D3L	SCREW-SET, SELF LOCK
(K3)			1	1		72	1014660	PLATE
			1	1		71	1014659	PLATE
NOTE 6			1	1		70	1006783-21	SCREW, BUTTON HD
NOTE 6			1	1		69	1010624-2	LAMP-INCANDESCENT
			X	X			PS1014578	SPECIFICATION
			–	X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
			–	1		68	1014624	WIRE LIST A-A
			AR	AR		67	MIL-F-14256	FLUX (ES-2798)
							QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
			AR	AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
(H1)								
			–	1		63	1014650-1	NAMEPLATE
			–	1		62	1014580	HARNESS
			2	2		60	MS-16633-4009	RING-RETAINING
NOTE 6			1	1		59	1000220-10	CLAMP-CABLE
NOTE 6			5	5		58	1000220-8	CLAMP-CABLE
NOTE 6			2	2		57	1000220-7	CLAMP-CABLE
						56		
NOTE 6			3	3		55	1000220-4	CLAMP-CABLE
NOTE 6			10	10		54	1011918-3	WASHER-CABLE CLAMP
NOTE 6			1	1		53	1011918-1	WASHER-CABLE CLAMP
NOTE 6			18	18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6			2	2		48	1006783-18	SCREW-BUTTON HD.
NOTE 6			4	2		47	1010630-25	SCREW-FLAT HD.
NOTE 6			10	10		46	1006783-19	SCREW-BUTTON HD.
			2	6		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6			12	12		44	1010630-14	SCREW-FLAT HD.

	QUANTITY REQUIRED		021	011	EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
			6	6		43	1014503	SCREW-CAPTIVE
						42		
						41		
						40		
NOTE 6			2	2		39	1010268-2	LAMP-INCANDESCENT
			2	2		38	1010625-1	HOLDER, LAMP
			2	2		37	1014595	BRACKET, MOUNTING-LAMP
			1	1		36	1014594	PLATE, MOUNTING SWITCH
			2	2		35	1014587	WINDOW
			4	4		34	1014584	GASKET, WINDOW
			2	2		33	1014583	CLAMP, WINDOW
			2	2		32	1014530	PIN-CONNECTOR
			2	2		31	1014528	PIN-PANEL
(K1)			1	1		30	1014588	WHEEL, POTENTIOMETER
			1	1		28	1014586	SUPPORT, HAND CONTROLLER
			1	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6			9	9		26	1010475-1	CAP, PUSHBUTTON
			–	1		25	1014585-002	KNOB, ROTARY SWITCH
			–	1		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6			–	1		23	1010494-1	SWITCH ASSY, ROTARY
NOTE 6			–	1		22	1010417-1	SWITCH ASSY, ROTARY
NOTE 6			1	1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
(R2) (H3)			3	2		19	1010480-3	SWITCH ASSY, PUSH BUTTON
			4	4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
(R1)			2	3		17	1010480-1	SWITCH ASSY, PUSH BUTTON
			1	1		16	1010489-1	SWITCH ASSY, TOGGLE
			1	1		15	1010479-2	SWITCH ASSY, TOGGLE
			1	1		14	1010479-1	SWITCH ASSY, TOGGLE
(L1)			1	1		13	1010484-1	SWITCH ASSY, TOGGLE
(L2)								
			1	1		11	1010478-2	SWITCH ASSY, TOGGLE
NOTE 6			2	2		10	1010478-1	SWITCH ASSY, TOGGLE
						9		
NOTE 6			1	1		7	1010492	TRANSFORMER, POWER
(K2)								
			~~1~~	~~1~~		~~5~~	~~1014643~~	~~ATTITUDE IMPULSE SWITCH ASSY~~
			1	1		4	1014558-021	SEXTANT HAND CONTROLLER ASSY.
			1	1		2	1014591-011	BRACKET & POT. ASSEMBLY
			–	1		1	1014581	PANEL G&N IND. CONT. INSEP

(E1) REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513	1014513	-021
1014513	1014513	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Dreahl 2 JUL 63
APPROVAL D.W. Mulry 2 JUL 63
APPROVAL 3 JUL 63
NASA APPROVAL 8/7/63
MIT APPROVAL

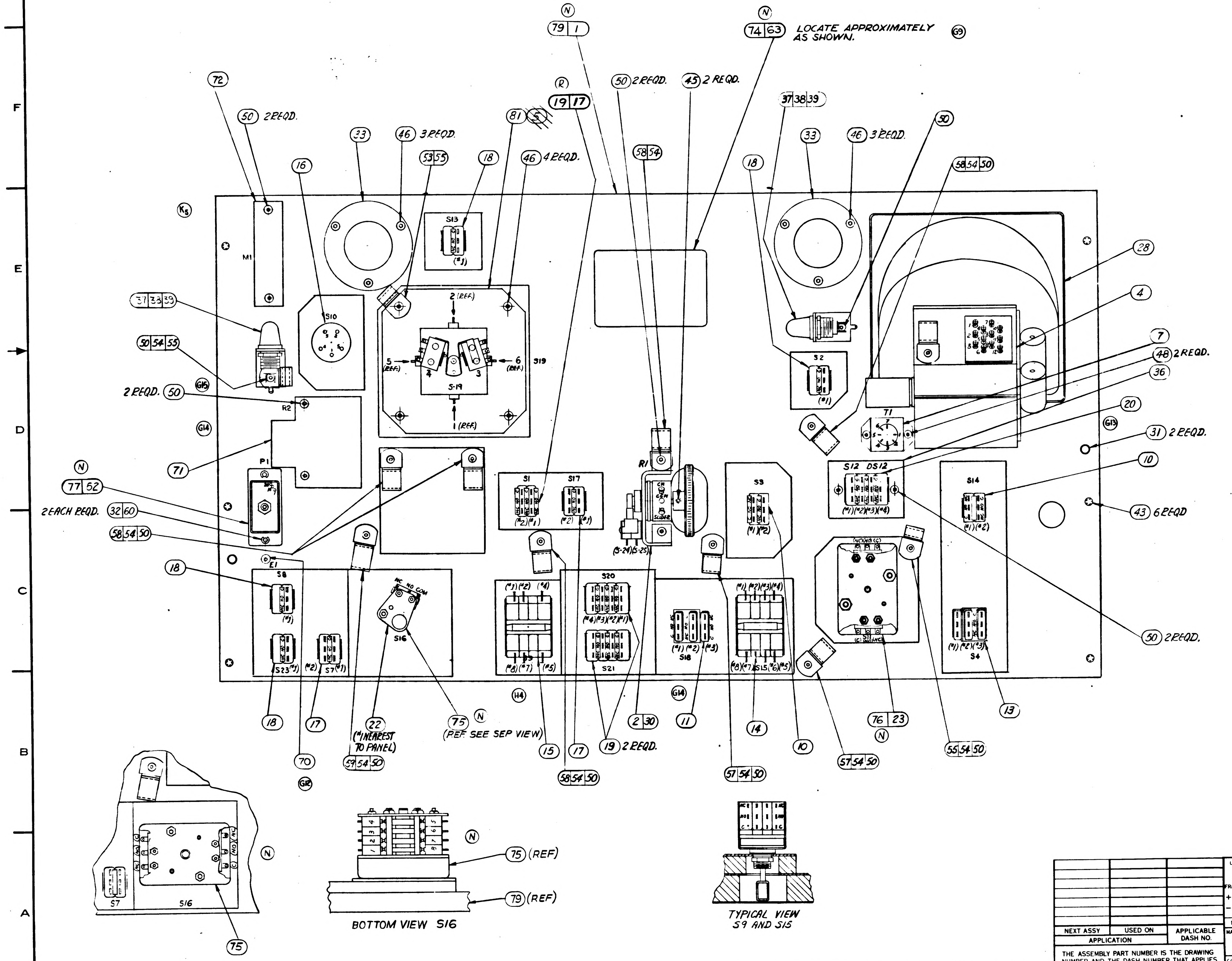
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

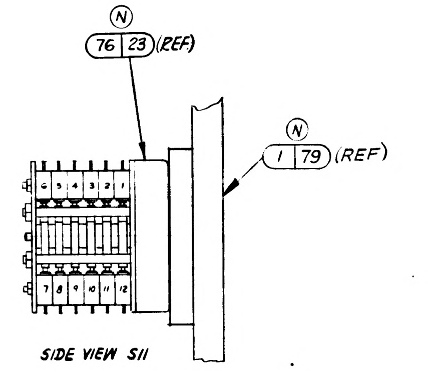
CODE IDENT NO
SIZE E
1014578
SCALE
WEIGHT
SHEET 1 OF 3

1014578

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
E			TDRR 02426	7 Aug 63	
F			TDRR 03 36	9/18/63	
G		SEE SHEET NO 1		21 NOV 63	
H4		REVISED PER TDRR NO. 04959		11 DEC 63	
K5		REVISED PER TDRR NO. 06259		18 FEB 64	
L4		REVISED PER TDRR NO. 06370		25 FEB 64	
N		REVISED PER TDRR NO. 10168		24 JUN 64	
P		REVISED PER TDRR NO. 10516		15 JUL 64	
R		REVISED PER TDRR 12647		25 SEP 64	CP



79 1
74 63
LOCATE APPROXIMATELY AS SHOWN.
G9
N
R
19 17
50 2 REQD.
45 2 REQD.
37 38 39
72
50 2 REQD.
81
58 54
33
46 3 REQD.
53 55
18
46 4 REQD.
16
18
33
46 3 REQD.
50
58 54 50
28
4
7
48 2 REQD.
36
20
31 2 REQD.
10
43 6 REQD
K6
M1
S13
S10
2 (REF.)
5 (REF.)
6 (REF.)
4
3
S-19
S19
1 (REF.)
37 33 39
50 54 55
G15
2 REQD. 50
R2
G14
71
P1
N
77 52
2 EACH REQD. 32 60
58 54 50
E1
R1
S1
S17
S3
S2
S12 DS12
S14
T1
G13
18
S8
S23
S7
S16
S20
S21
S18
S15
S9
S6
S4
H4
G14
18
17
59 54 50
22
(*1 NEAREST TO PANEL)
75
(REF. SEE SEP VIEW)
15
17
58 54 50
19 2 REQD.
2 30
11
57 54 50
14
10
57 54 50
76 23
55 54 50
13
50 2 REQD.
70
G8
S7
S16
75
N
BOTTOM VIEW S16
75 (REF)
79 (REF)
TYPICAL VIEW S9 AND S15



N
76 23 (REF)
N
1 79 (REF)
6 5 4 3 2 1
7 8 9 10 11 12

SIDE VIEW S11

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED 2 JUL 63
APPROVAL DW 2 Jul '63
APPROVAL
NASA APPROVAL
MIT APPROVAL 7 Aug 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO.
SIZE E 1014578
SCALE
SHEET 3 OF 3

1014578 R

APOLLO G&N Specification
PS1014578 R
Original Issue Date: 10 December 1963
Release Authority: TDRR 05139
Class A Release

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

(continued)

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
Ⓝ 1/18/64	M	14370	8 [illegible]	WK	WJR
2/24-65	N	16787	8 CG/AC	WK	TM
Ⓜ 3/2/65	P	17052	1 [illegible]	WK	WJR
8/17/65	R	21592	1 BH/AC	WK	WM

This specification consists of page i-i to 10 inclusive.

APPROVALS	NASA/MSC	MIT/IL	ACSP

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the G&N Indicator Control Panel Assembly, Drawing 1014578, hereafter called the assembly.

1.2 CLASSIFICATION. Unless otherwise specified, all types shall meet all the requirements specified herein. Special requirements for the equipment covered by this Specification shall be classified as follows:

a. Type I: The special requirements for Part No. 1014578-011, 1014578-021, 1014578-031 and 1014578-041 shall be designated as Type I.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014578	Final Test Method for G&N Indicator Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014578	G&N Indicator Control Panel Assembly
1014579	G&N Indicator Control Panel (Schematic) (For Reference Only)
1015018	G&N Indicator Control Panel (Schematic) (For Reference Only)

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS 1014578.
4. SERIALIZE PER ND 1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1) USING (66) AND (67).
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.

(H2)

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
E		(E1) REPLACES REV. D WITH CHANGE	TDRR 02426	6 AUG 63	WR
F		(F1) ADDED PART NOS 1011918-3 & 1011918-1. (F2) DELETED ITEMS 40, 41, 42, 52 & 61. TDRR 03198		9 AUG 63	WR
G 15		REVISED PER TDRR NO. 04622		18 NOV 63	WR
H 4		REVISED PER TDRR NO. 04959		11 DEC 63	
J		REVISED PER TDRR NO. 05816		28 JAN 64	WR
K 5		REVISED PER TDRR NO. 06259		18 FEB 64	WR
L 4		REVISED PER TDRR NO. 06370		25 FEB 64	WR
M		REVISED PER TDRR NO. 07386		10 APR 64	JJ
N		REVISED PER TDRR NO. 10168		24 JUN 64	JJJ
P		REVISED PER TDRR NO. 10516		15 JUL 64	JJJ
R		REVISED PER TDRR 12647		25 SEP 64	LGC
S		REVISED PER TDRR 14373		20 NOV 64	JJJ

SHEET 1	SHEET 2	SHEET 3
S	N	S
R	N	R
P	N	P
N	N	N
M	M	L
L	K	L
K	K	K
J	H	H
H	G	H
G	G	G
E	A	A

REVISION STATUS OF SHEETS

	021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	1	1		81	1015020	ATTITUDE IMPULSE SWITCH ASSY
	X	-			1015018	SCHEMATIC DIAGRAM, ELECTRICAL
	2	-		80	1014585-003	KNOB, ROTARY SWITCH
	1	-		79	1015016	PANEL, G&N IND. CONT. (INSEP)
	1	-		78	1015014	WIRE LIST AA
	1	-		77	1015015	HARNESS
NOTE 6	1	-		76	1010494-3	SWITCH ASSY, ROTARY
NOTE 6	1	-		75	1010494-2	SWITCH ASSY, ROTARY
	1	-		74	1014650-8	NAMEPLATE
	4	-		73	NAS 1081C06D3L	SCREW-SET, SELF LOCK
(K3)	1	1		72	1014660	PLATE
	1	1		71	1014659	PLATE
NOTE 6	1	1		70	1006783-21	SCREW, BUTTON HD
NOTE 6	1	1		69	1010624-2	LAMP-INCANDESCENT
	X	X			PS1014578	SPECIFICATION
	-	X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
	-	1		68	1014624	WIRE LIST A-A
	AR	AR		67	MIL-F-14256	FLUX (ES-2798)
					QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
	AR	AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
(H1)						
	-	1		63	1014650-1	NAMEPLATE
	-	1		62	1014580	HARNESS
	2	2		60	MS-16633-4009	RING-RETAINING
NOTE 6	1	1		59	1000220-10	CLAMP-CABLE
NOTE 6	5	5		58	1000220-8	CLAMP-CABLE
NOTE 6	2	2		57	1000220-7	CLAMP-CABLE
				56		
NOTE 6	3	3		55	1000220-4	CLAMP-CABLE
NOTE 6	10	10		54	1011918-3	WASHER-CABLE CLAMP
NOTE 6	1	1		53	1011918-1	WASHER-CABLE CLAMP
NOTE 6	18	18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6	2	2		48	1006783-18	SCREW-BUTTON HD.
NOTE 6	4	2		47	1010630-25	SCREW-FLAT HD.
NOTE 6	10	10		46	1006783-19	SCREW-BUTTON HD.
	2	6		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6	12	12		44	1010630-14	SCREW-FLAT HD.
	6	6		43	1014503	SCREW-CAPTIVE
				42		
				41		
				40		
NOTE 6	2	2		39	1010268-2	LAMP-INCANDESCENT
	2	2		38	1010625-1	HOLDER, LAMP
	2	2		37	1014595	BRACKET, MOUNTING-LAMP
	1	1		36	1014594	PLATE MOUNTING SWITCH
	2	2		35	1014587	WINDOW
	4	4		34	1014584	GASKET, WINDOW
	2	2		33	1014583	CLAMP, WINDOW
	2	2		32	1014530	PIN-CONNECTOR
	2	2		31	1014528	PIN-PANEL
(K1)	1	1		30	1014588	WHEEL, POTENTIOMETER
	1	1		28	1014586	SUPPORT, HAND CONTROLLER
	1	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6	9	9		26	1010475-1	CAP, PUSHBUTTON
	-	1		25	1014585-002	KNOB, ROTARY SWITCH
	-	1		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6	-	1		23	1010494-1	SWITCH ASSY, ROTARY
NOTE 6	-	1		22	1010417-1	SWITCH ASSY, ROTARY
NOTE 6	1	1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
(R2) (H3)	3	3		19	1010480-3	SWITCH ASSY, PUSH BUTTON
	4	4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
(E1)	2	2		17	1010480-1	SWITCH ASSY, PUSH BUTTON
	1	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1	1		15	1010479-2	SWITCH ASSY, TOGGLE
(L1)	1	1		14	1010479-1	SWITCH ASSY, TOGGLE
	1	1		13	1010484-1	SWITCH ASSY, TOGGLE
(L2)						
	1	1		11	1010478-2	SWITCH ASSY, TOGGLE
NOTE 6	2	2		10	1010478-1	SWITCH ASSY, TOGGLE
				9		
NOTE 6	1	1		7	1010492	TRANSFORMER, POWER
(K2)	~~1~~	~~1~~		~~5~~	~~1014643~~	~~ATTITUDE IMPULSE SWITCH ASSY~~
	1	1		4	1014558-021	SEXTANT HAND CONTROLLER ASSY.
	1	1		2	1014591-011	BRACKET & POT. ASSEMBLY
	-	1		1	1014581	PANEL, G&N IND. CONT. (INSEP)

QUANTITY REQUIRED — LIST OF PARTS AND MATERIALS

(E1) REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513	1014513	-021
1014513	1014513	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Dudl 2 JUL 63
APPROVAL D.W. Mutry 2 JUL 63
APPROVAL 3 JUL 63
NASA APPROVAL 8/7/63
MIT APPROVAL

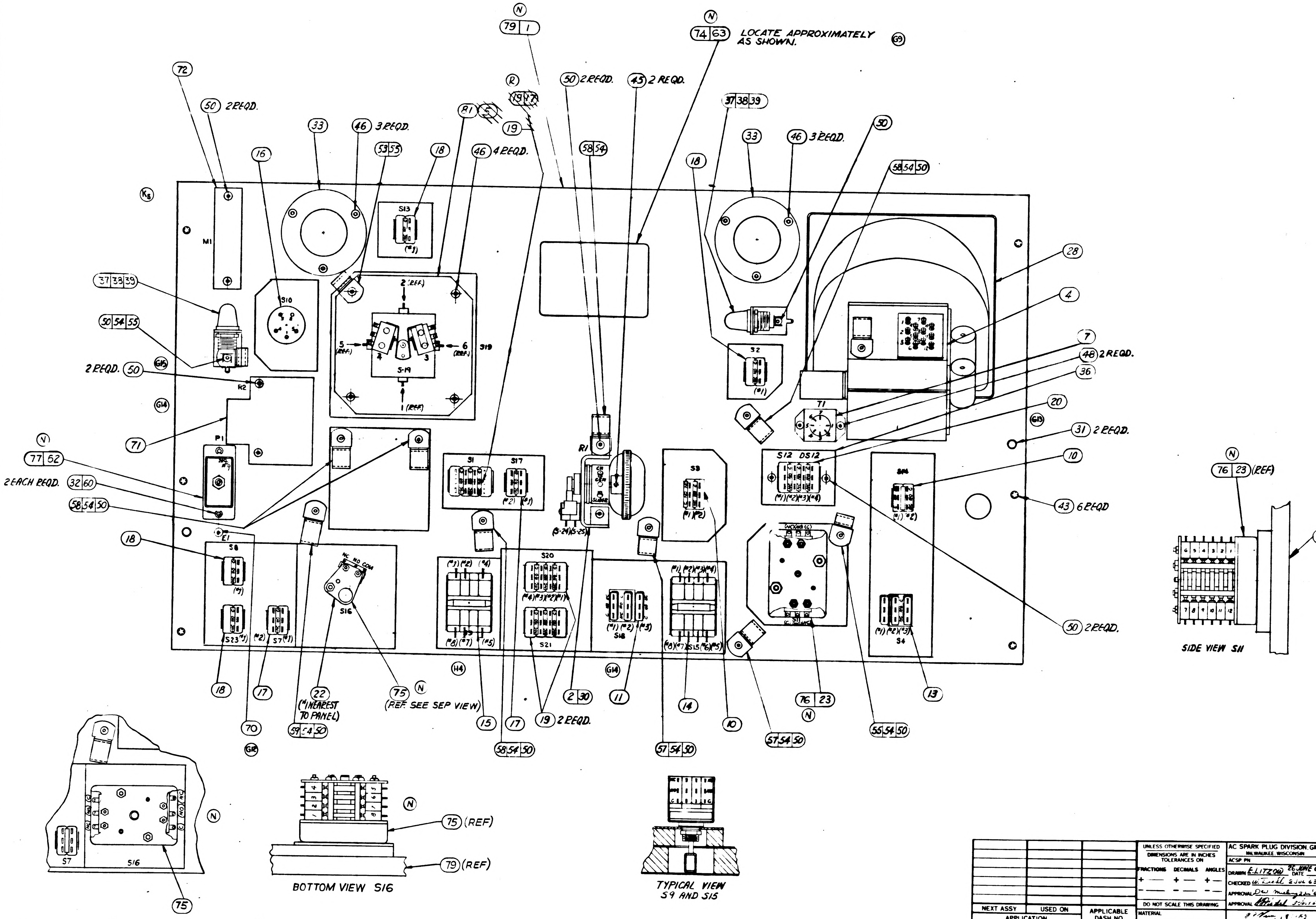
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO.
SIZE E
1014578
SCALE —
WEIGHT
SHEET 1 OF 3

Charleston 2 Jul 63

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
E			TDRR 02426	7 Jan 63	WK
F			TDRR 03198	3/18/63	WK
G		SEE SHEET NO. 1		21 NOV 63	WK
H		REVISED PER TDRR NO. 04959		11 DEC 63	
K		REVISED PER TDRR NO. 06259		18 FEB 64	WK
L		REVISED PER TDRR NO. 06370		25 FEB 64	WK
N		REVISED PER TDRR NO. 10168		24 JUN 64	JJJ
P		REVISED PER TDRR NO. 10516		15 JUL 64	JJJ
R		REVISED PER TDRR 12647		25 SEP 64	
S		REVISED PER TDRR 14373		25 NOV 64	


79 1
74 63 LOCATE APPROXIMATELY AS SHOWN.
72
50 2 REQD.
33
46 3 REQD.
53 55
18
81
19
50 2 REQD.
45 2 REQD.
58 54
37 38 39
46 3 REQD.
50
58 54 50
46 4 REQD.
16
M1
S13
S10
S19
2 (REF.)
5 (REF.)
6 (REF.)
1 (REF.)
37 38 39
50 54 55
2 REQD. 50
R2
71
P1
77 52
2 EACH REQD. 32 60
58 54 50
E1
18
S8
S23
S7
S16
NC NO COM
S1
S17
R1
S20
S21
S18
S3
S12 DS12
S14
S4
S11
T1
S2
28
4
7
48 2 REQD.
36
20
31 2 REQD.
10
43 6 REQD
50 2 REQD.
13
55 54 50
76 23
57 54 50
10
14
11
19 2 REQD.
2 30
17
15
58 54 50
75 (REF. SEE SEP VIEW)
22 (#1 NEAREST TO PANEL)
59 54 50
17
18
70
76 23 (REF)
1 79 (REF)
SIDE VIEW S11
S7
S16
75
75 (REF)
79 (REF)
BOTTOM VIEW S16
TYPICAL VIEW S9 AND S15

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Riehl 2 JUL 63
APPROVAL D.W. Mickey 2 Jul '63
APPROVAL 3 Jul 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO
SIZE E 1014578
SCALE ——
SHEET 3 OF 5

APOLLO G&N Specification
PS1014578 S
Original Issue Date: 10 December 1963
Release Authority: TDRR 05139
Class A Release

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

(continued)

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
1/18/64	M	14370	8	WK	WJR
2/24-65	N	16787	8	WK	TM
3/2/65	P	17052	1	WK	WJR
8/17/65	R	21592	1	WK	WM
2/10/66	S	26156	1, 2, 5	WK	--

This specification consists of page i-i to 10 inclusive.

APPROVALS	NASA/MSC	MIT/IL	ACSP

APOLLO G&N Specification

PS1014578 L
10 December 1963
Class A **Release**
TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Ⓜ

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3/10/64	A	06250	3	WK	WLS
3/31/64	B	06812	3, 4, 5, 6, and 7	WK	WLS
5/19/64	C	08504	2, 3, and 4	IH	WLS
5/19/64	D	08498	6	WK	WLS
5/26/64	E	08751	8	WK	WJR
6/16/64	F	10150	3, 4, 5, 7, 8	WK	WJR
6/9/64	G	10070	9	WK	WJR
7/14/64	H	10946	3, 4	WK	[illegible]
Ⓜ 8/12/64	J	11531	3	WK ROG/AC	WM
Ⓜ 9/16/64	K	12651	1, 2, 8	LL ROG/AC	W.J.R.
Ⓜ 10/14/64	L	13379	3	IH ROG/ACSP	W.J.R.

This specification consists of page i to iii and 1 to 10 **inclusive.**

(continued)

PROCUREMENT SPECIFICATION

FOR

G&N INDICATOR CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the G&N Indicator Control Panel Assembly, Drawing 1014578, hereafter called the assembly.

1.2 CLASSIFICATION. Unless otherwise specified, all types shall meet all the requirements specified herein. Special requirements for the equipment covered by this Specification shall be classified as follows:

a. Type I: The special requirements for Part No. 1014578-011, 1014578-021, 1014578-031 shall be designated as Type I.

b. Type II: The special requirements for Part No. 1014578-041 shall be designated as Type II.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM1014578	Final Test Method for G&N Indicator Control Panel Assembly

STANDARDS

Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014578	G&N Indicator Control Panel Assembly
1014579	G&N Indicator Control Panel (Schematic) (For Reference Only)
1015018	G&N Indicator Control Panel (Schematic) (For Reference Only)
1023068	G&N Indicator Control Panel Schematic (For Reference Only)

3. REQUIREMENTS

3.1 GENERAL SPECIFICATION. Unless otherwise specified herein, all of the requirements of Specification ND-1002210 shall apply as requirements for this specification.

3.2 DESCRIPTION. The assembly shall contain the Sextant Hand Controller Assembly, the Attitude Impulse Switch Assembly, the IMU temperature mode controls, the Map and Data Viewer controls, the Power and Film position controls, and the panel brightness control.

3.3 FUNCTIONAL REQUIREMENTS

3.3.1 Electrical Inputs. The assembly shall perform as specified herein with the following electrical inputs:

a. 24 vdc max
b. 5.50±0.25V rms, 400±20 cps
c. 28.00±0.28V rms, 760±40 cps

3.3.2 Continuity and DC Resistance. The continuity and dc resistance of the assembly shall be as specified in Table I and 3.3.2.1 through 3.3.2.7, using Method 303 of Standard MIL-STD-202 (Reference Drawings 1014579 and 1015018).

TABLE I

CONTINUITY AND DC RESISTANCE

PINS		RESISTANCE (ohms)	
FROM	TO		
40	50	220 to 265	Type I & Type II
61	62	0.5 max	
69	80	110 max	
63	64	0.5 max	
91	Chassis*	0.02 max	
51	67	0.5 max	Type II Only

*Connect to back skin, but not to mounting pads.

3.3.2.1 Optics Group and Sextant Hand Controller. With 28.00±0.28V rms, 720 cps ±1% and then 800 cps ±1% applied between pins 80 (Hi) and 64 (Lo); 5.50±0.25Vrms, 400±20 cps applied between pins 54 (Hi) and 52 (Lo); and the sextant hand controller and the optics switches in the positions specified in Table II, the outputs and continuity shall be as specified in Table II.

3.3.2.2 Type I Only Map and Data Viewer Switch Continuity. With no power applied and the map and data viewer switches set in the positions specified in Table III, the continuity through these switches shall be as specified in Table III.

TABLE III *

MAP AND DATA VIEWER GROUP SWITCH CONTINUITY

SWITCHES AND POSITIONS				CONTINUITY		
POWER AND BRIGHTNESS	SINGLE FRAME U	SINGLE FRAME D	SLEW	From Pin	To Pin	Resistance (ohms)
"OFF"	"OUT"	"OUT"	"CENTER	51	67	100 meg min
"OFF"	"IN"	"IN"	"UP"	51	67	↕
"OFF"	"IN"	"IN"	"DOWN"	51	67	↕
"OFF"	Optional	Optional	Optional	53	46	↕
"OFF"	Optional	Optional	Optional	53	55	100 meg min
"LOW"	"OUT"	"OUT"	"UP"	51	67	1.4 max
↕	↕	"OUT"	"CENTER"	51	67	100 meg min
↕	↕	"OUT"	"DOWN"	51	67	1.4 max
↕	"OUT"	"IN"	"CENTER"	51	67	1.4 max
↕	"IN"	"OUT"	"CENTER"	51	67	1.4 max
"LOW"	Optional	Optional	Optional	53	46	1.4 max
"LOW"	Optional	Optional	Optional	53	55	100 meg min
"MED"	"OUT"	"OUT"	"CENTER"	51	67	100 meg min
↕	↕	"OUT"	"UP"	51	67	1.4 max
↕	↕	"OUT"	"DOWN"	51	67	1.4 max
↕	"OUT"	"IN"	"CENTER"	51	67	1.4 max
↕	"IN"	"OUT"	"CENTER"	51	67	1.4 max
↕	Optional	Optional	Optional	53	46	100 meg min
"MED"	Optional	↕	↕	53	55	1.4 max
Optional	"OUT"	↕	↕	78	51	100 meg min
Optional	"OUT"	↕	↕	78	106	1.0 max
Optional	"IN"	↕	↕	78	106	100 meg min
"LOW" or "MED"	"IN"	Optional	↕	78	51	1.4 max
Optional	Optional	"OUT"	↕	79	51	100 meg min
Optional	Optional	"OUT"	↕	79	93	1.0 max
Optional	Optional	"IN"	↕	79	93	100 meg min
"LOW" or "MED"	Optional	"IN"	Optional	79	51	1.4 max
Optional	"OUT"	"OUT"	"CENTER"	95	81	100 meg min
↕	"IN"	"OUT"	"CENTER"	95	81	1.0 max
↕	"OUT"	"IN"	"CENTER"	95	81	1.0 max
↕	"OUT"	"OUT"	"UP"	95	81	1.0 max
↕	"OUT"	"OUT"	"DOWN"	95	81	1.0 max
↕	"OUT"	"OUT"	Optional	95	68	100 meg min
↕	"IN"	"OUT"	Optional	95	68	1.0 max
↕	"OUT"	"IN"	Optional	95	68	1.0 max
↕	Optional	Optional	"CENTER"	77	66	100 meg min
↕	↕	↕	"CENTER"	65	66	100 meg min
↕	↕	↕	"UP"	77	66	1.0 max
↕	↕	↕	"UP"	65	66	100 meg min
Optional	↕	↕	"DOWN"	77	66	100 meg min
	Optional	Optional	"DOWN"	65	66	1.0 max

*Type I Only

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2.
3. INSPECT PER PS 1014578.
4. SERIALIZE PER ND 1002023
5. SOLDER PER MIL-S-6872 (ES-2505-1) USING (66) AND (67).
6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING.

(H2)

7. ASSEMBLE AND MOISTUREPROOF "031" ASSEMBLIES AS FOLLOWS:
   - A. DO NOT USE HEAT SHRINKABLE SLEEVING, P/N 1010476-82 (FURNISHED WITH ITEMS (62) & (68)) WHEN TERMINATING ITEMS (62) & (68)
   - B. THE PANEL ASSEMBLY, WITHOUT THE SEXTANT HAND CONTROLLER, ITEM (82), SHALL HAVE ALL SOLDERED ELECTRICAL TERMINATIONS & THE REAR (WIRE SIDE) OF THE CONNECTOR, ENCAPSULATED USING ITEMS (87) & (88) PER ND 1002236.
   - C. UPON COMPLETION OF 7B ASSEMBLE THE SEXTANT HAND CONTROLLER, ITEM (82) INTO THE PANEL ASSEMBLY & ENCAPSULATE ALL SOLDERED ELECTRICAL TERMINATIONS ON TB-1 USING ITEMS (87) & (88) PER ND 1002236 EXCEPT THE OVEN TEMPERATURE SHALL BE 130° ± 5°F FOR 16 HOURS MINIMUM.
   - D. CONDUCTOR INSULATION SHALL EXTEND INTO THE ENCAPSULATION 0.18 ±0.06 INCHES EXCEPT THE CONDUCTORS AT THE CONNECTOR SHALL BE ENCAPSULATED FLUSH WITH THE POTTING DAM ON THE REAR OF THE CONNECTOR.
   - E. CENTER TERMINAL OF ITEM (38) TO BE KEPT FREE FROM ENCAPSULATION MATERIAL.
8. INSTALL ITEM (89) INTO UNUSED (SPARE) HOLES OF THE ELECTRICAL CONNECTOR OF ITEM (62) PRIOR TO ENCAPSULATION.

REVISIONS							
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD		
E		(E1) REPLACES REV. D WITH CHANGE	TDRR 02426	AUG 63	WK		
F		(F1) ADDED PART NOS 1011918-3 & 1011918-1. (F2) DELETED ITEMS 40, 41, 42, 52 & 61. TDRR 03198		9/19/63			
G 15		REVISED PER TDRR NO. 04622		18 NOV 63	WK		
H 4		REVISED PER TDRR NO. 04959		11 DEC 63			
J		REVISED PER TDRR NO. 05816		28 JAN 64			
K 5		REVISED PER TDRR NO. 06259		18 FEB 64			
L 4		REVISED PER TDRR NO. 06370		25 FEB 64			
M		REVISED PER TDRR NO. 07386		16 APR 64			
N		REVISED PER TDRR NO. 10168		24 JUN 64			
P		REVISED PER TDRR NO. 10516		3 JUL 64			
R		REVISED PER TDRR 12647		25 SEP 64			
S		REVISED PER TDRR 14373		25 NOV 64			
T		REVISED PER TDRR 17035		8 MAR 65			
–		REVISED CUSTOMER DATA (V2-65)		8 MAR 65	AU		

SHEET 1	SHEET 2	SHEET 3
T	N	T
S	N	S
R	N	R
P	N	P
N	N	N
M	M	L
L	K	L
K	K	K
J	H	H
H	G	H
G	G	G
E	A	A

REVISION STATUS OF SHEETS

	QUANTITY REQUIRED 031	021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
NOTE 6	6	–	–		89	1010738-1	CONTACT, ELECTRICAL
NOTE 6	AR	–	–		88	1012503-2	COMPOUND, POLYURETHANE
NOTE 6	AR	–	–		87	1012503-1	COMPOUND, POLYURETHANE
	1	–	–		86	1014650-22	NAMEPLATE
NOTE 6	1	–	–		85	1010812-3	SEAL, CONNECTOR
	1	–	–		84	1014643	ATTITUDE IMPULSE SWITCH ASSY
NOTE 6	1	–	–		83	1010478-3	SWITCH ASSY, TOGGLE
	1	–	–		82	1014558-031	SEXTANT HAND CONTROLLER ASSY
	–	1	1		81	1015020	ATTITUDE IMPULSE SWITCH ASSY
	–	X	–			1015018	SCHEMATIC DIAGRAM, ELECTRICAL
	–	2	–		80	1014585-003	KNOB, ROTARY SWITCH
	–	1	–		79	1015016	PANEL, G&N IND. CONT. (INSEP)
	–	1	–		78	1015014	WIRE LIST AA
	–	1	–		77	1015015	HARNESS
NOTE 6	–	1	–		76	1010494-3	SWITCH ASSY, ROTARY
NOTE 6	–	1	–		75	1010494-2	SWITCH ASSY, ROTARY
	–	1	–		74	1014650-8	NAMEPLATE
	–	4	–		73	NAS 1081C06D3L	SCREW-SET, SELF LOCK
(K3)	1	1	1		72	1014660	PLATE
	1	1	1		71	1014659	PLATE
NOTE 6	1	1	1		70	1006783-21	SCREW, BUTTON HD
NOTE 6	1	1	1		69	1010624-2	LAMP-INCANDESCENT
	X	X	X			PS1014578	SPECIFICATION
	X	–	X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
	1	–	1		68	1014624	WIRE LIST A-A
	AR	AR	AR		67	MIL-F-14256	FLUX (ES-2798)
						QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
	AR	AR	AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
(H1)							
	–	–	1		63	1014650-1	NAMEPLATE
	1	–	1		62	1014580	HARNESS
	2	2	2		60	MS-16633-4009	RING-RETAINING
NOTE 6	1	1	1		59	1000220-10	CLAMP-CABLE
NOTE 6	5	5	5		58	1000220-8	CLAMP-CABLE
NOTE 6	2	2	2		57	1000220-7	CLAMP-CABLE
					56		
NOTE 6	3	3	3		55	1000220-4	CLAMP-CABLE
NOTE 6	10	10	10		54	1011918-3	WASHER-CABLE CLAMP
NOTE 6	1	1	1		53	1011918-1	WASHER-CABLE CLAMP
NOTE 6	18	18	18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6	2	2	2		48	1006783-18	SCREW-BUTTON HD.
NOTE 6	2	4	2		47	1010630-25	SCREW-FLAT HD.
NOTE 6	10	10	10		46	1006783-19	SCREW-BUTTON HD.
	6	2	6		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6	12	12	12		44	1010630-14	SCREW-FLAT HD.

LIST OF PARTS AND MATERIALS

	QUANTITY REQUIRED 031	021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	6	6	6		43	1014503	SCREW-CAPTIVE
					42		
					41		
					40		
NOTE 6	2	2	2		39	1010268-2	LAMP-INCANDESCENT
NOTE 6	2	2	2		38	1010625-1	HOLDER, LAMP
	2	2	2		37	1014595	BRACKET, MOUNTING-LAMP
	1	1	1		36	1014594	PLATE, MOUNTING SWITCH
	2	2	2		35	1014587	WINDOW
	4	4	4		34	1014584	GASKET, WINDOW
	2	2	2		33	1014583	CLAMP, WINDOW
	2	2	2		32	1014530	PIN-CONNECTOR
	2	2	2		31	1014528	PIN-PANEL
(K1)	1	1	1		30	1014588	WHEEL, POTENTIOMETER
	1	1	1		28	1014586	SUPPORT, HAND CONTROLLER
	1	1	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6	9	9	9		26	1010475-1	CAP, PUSHBUTTON
	1	–	1		25	1014585-002	KNOB, ROTARY SWITCH
	1	–	1		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6	1	–	1		23	1010494-1	SWITCH ASSY, ROTARY
NOTE 6	1	–	1		22	1010417-1	SWITCH ASSY, ROTARY
NOTE 6	1	1	1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
(K2) (H3)	3	3	3		19	1010480-3	SWITCH ASSY, PUSH BUTTON
	4	4	4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
(K1)	2	2	2		17	1010480-1	SWITCH ASSY, PUSH BUTTON
	1	1	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1	1	1		15	1010479-2	SWITCH ASSY, TOGGLE
	1	1	1		14	1010479-1	SWITCH ASSY, TOGGLE
(L1)	1	1	1		13	1010484-1	SWITCH ASSY, TOGGLE
(L2)							
		1	1		11	1010478-2	SWITCH ASSY, TOGGLE
NOTE 6	1	2	2		10	1010478-1	SWITCH ASSY, TOGGLE
					9		
NOTE 6	1	1	1		7	1010492	TRANSFORMER, POWER
(K2)							
		~~1~~	~~1~~		~~5~~	~~1014643~~	~~ATTITUDE IMPULSE SWITCH ASSY~~
	–	1	1		4	1014558-021	SEXTANT HAND CONTROLLER ASSY.
	1	1	1		2	1014591-011	BRACKET & POT. ASSEMBLY
	1	–	1		1	1014581	PANEL G&N IND. CONT. (INSEP)

LIST OF PARTS AND MATERIALS

(E1) REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513	1014513	-021
1014513	1014513	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — DECIMALS + — ANGLES + —
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. Diehl 2 JUL 63
APPROVAL D.W. Mulkey 2 JULY 63
APPROVAL 3 JULY 63
NASA APPROVAL 8/7/63
MIT APPROVAL

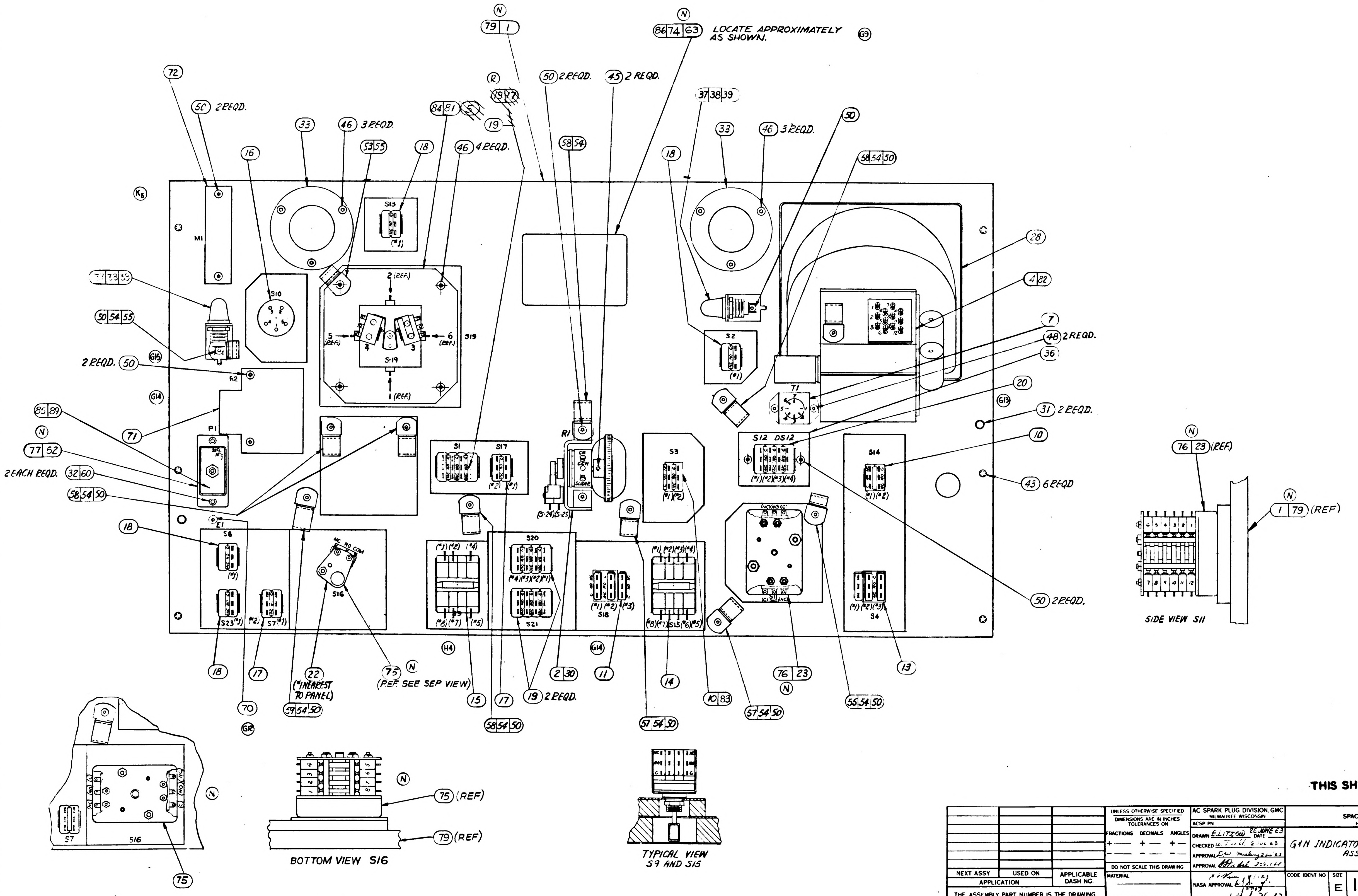
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL
ASSEMBLY

CODE IDENT NO
SIZE E
1014578
SCALE —
WEIGHT
SHEET 1 OF 3

Charleston 2 Jul 63

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
E			TDRR 02426	7 [illegible] 63	
F			TDRR 03 38	3/18/63	
G		SEE SHEET NO 1		2 NOV 63	
H4		REVISED PER TDRR NO. 04959		11 DEC 63	
K5		REVISED PER TDRR NO. 06259		18 FEB 64	
L4		REVISED PER TDRR NO. 06370		25 FEB 64	
N		REVISED PER TDRR NO. 10.68		24 JUN 64	
P		REVISED PER TDRR NO. 105.6		5 JUL 64	
R		REVISED PER TDRR 2647		25 SEP 64	CP
S		REVISED PER TDRR 4373		23 NOV 64	
T		REVISED PER TDRR 7035		6 MAR 65	


79 1
86 74 63 LOCATE APPROXIMATELY AS SHOWN.
69
72
50 2 REQD.
33
46 3 REQD.
53 55
18
84 81
19 72
19
46 4 REQD.
50 2 REQD.
45 2 REQD.
58 54
37 38 39
46 3 REQD.
50
58 54 50
16
M1
S13
S10
2 (REF)
5 (REF)
6 (REF)
4 3
S-19
S19
1 (REF)
K5
31 33 39
50 54 55
2 REQD. 50
G16
G14
K2
71
P1
E1
85 89
N
77 52
2 EACH REQD. 32 60
58 54 50
28
4 82
S2
71
7
48 2 REQD.
36
20
G13
31 2 REQD.
10
43 6 REQD
S12 DS12
S14
S3
S1 S17
R1
S-24 S-25
18
S8
S23
S7
S16
NC NO COM
S20
S21
S18
S15
S4
22 (*NEAREST TO PANEL)
75 (REF. SEE SEP VIEW)
59 54 50
70
18
17
15
17
58 54 50
2 30
19 2 REQD.
11
57 54 50
14
10 83
57 54 50
76 23
55 54 50
13
50 2 REQD.
H4
G14
G16
76 23 (REF)
1 79 (REF)
SIDE VIEW S11
S7
S16
75
75 (REF)
79 (REF)
BOTTOM VIEW S16
TYPICAL VIEW S9 AND S15

THIS SHEET ADDED

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED 2 JUL 63
APPROVAL 2 Jul '63
APPROVAL 3 Jul 63
NASA APPROVAL
MIT APPROVAL 7 Aug 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

CODE IDENT NO
SIZE E
1014578
SCALE
SHEET 3 OF 3

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2.

3. INSPECT PER PS 1014578.

4. SERIALIZE PER ND 1002023

5. SOLDER PER MIL-S-6872 (ES-2505-1) USING (66) AND (67).

6. VENDOR ITEM-SEE SPECIFICATION CONTROL DRAWING

7. ASSEMBLE AND MOISTUREPROOF 031" ASSEMBLIES AS FOLLOWS:
   - A. DO NOT USE HEAT SHRINKABLE SLEEVING, P/N 1010476-82 (FURNISHED WITH ITEMS (62) & (68)) WHEN TERMINATING ITEMS (62) & (68)
   - B. THE PANEL ASSEMBLY, WITHOUT THE SEXTANT HAND CONTROLLER, ITEM (82), SHALL HAVE ALL SOLDERED ELECTRICAL TERMINATIONS & THE REAR (WIRE SIDE) OF THE CONNECTOR, ENCAPSULATED USING ITEMS (87) & (88) PER ND 1002236.
   - C. UPON COMPLETION OF 7B ASSEMBLE THE SEXTANT HAND CONTROLLER, ITEM (82) INTO THE PANEL ASSEMBLY & ENCAPSULATE ALL SOLDERED ELECTRICAL TERMINATIONS ON TB-1 USING ITEMS (87) & (88) PER ND 1002236 EXCEPT THE OVEN TEMPERATURE SHALL BE 130° ± 5°F FOR 16 HOURS MINIMUM.
   - D. CONDUCTOR INSULATION SHALL EXTEND INTO THE ENCAPSULATION 0.18 ± 0.06 INCHES EXCEPT THE CONDUCTORS AT THE CONNECTOR SHALL BE ENCAPSULATED FLUSH WITH THE POTTING DAM ON THE REAR OF THE CONNECTOR.
   - E. CENTER TERMINAL OF ITEM (38) TO BE KEPT FREE FROM ENCAPSULATION MATERIAL.

8. INSTALL ITEM (89) INTO UNUSED (SPARE) HOLES OF THE ELECTRICAL CONNECTOR OF ITEM (62) PRIOR TO ENCAPSULATION.

9. ASSEMBLE AND MOISTUREPROOF "041" ASSEMBLIES AS FOLLOWS:
   - A. THE PANEL ASSEMBLY, WITHOUT THE SEXTANT HAND CONTROLLER, ITEM (91), SHALL HAVE ALL SOLDERED ELECTRICAL TERMINATIONS ENCAPSULATED USING ITEMS (87) AND (88) PER ND 1002236.
   - B. UPON COMPLETION OF 9A ASSEMBLE THE SEXTANT HAND CONTROLLER, ITEM (91), INTO THE PANEL ASSEMBLY AND ENCAPSULATE ALL SOLDERED ELECTRICAL TERMINATIONS ON TB-1 USING ITEMS (87) AND (88) PER ND 1002236 EXCEPT THE OVEN TEMPERATURE SHALL BE 130°±5°F FOR 16 HOURS MINIMUM.
   - C. CONDUCTOR INSULATION SHALL EXTEND INTO THE ENCAPSULATION 0.18±0.06 INCHES.
   - D. CENTER TERMINAL OF ITEM (38) TO BE KEPT FREE FROM ENCAPSULATION MATERIAL.

	041	031	021	011	EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	1	–	–	–		92	1014650-26	NAMEPLATE
	1	–	–	–		91	1014558-041	SEXTANT HAND CONTROLLER ASSY
	1	–	–	–		90	1023017	HARNESS
NOTE 6	–	6	–	–		89	1010738-1	CONTACT, ELECTRICAL
NOTE 6	AR	AR	–	–		88	1012503-2	COMPOUND, POLYURETHANE
NOTE 6	AR	AR	–	–		87	1012503-1	COMPOUND, POLYURETHANE
	–	1	–	–		86	1014650-22	NAMEPLATE
NOTE 6	–	1	–	–		85	1010812-3	SEAL, CONNECTOR
	–	1	–	–		84	1014643	ATTITUDE IMPULSE SWITCH ASSY
NOTE 6	–	1	–	–		83	1010478-3	SWITCH ASSY, TOGGLE
	–	1	–	–		82	1014558-031	SEXTANT HAND CONTROLLER ASSY
	1	-	1	1		81	1015020	ATTITUDE IMPULSE SWITCH ASSY
	X	-	X	-			1015018	SCHEMATIC DIAGRAM, ELECTRICAL
	2	-	2	-		80	1014585-003	KNOB, ROTARY SWITCH
	1	-	1	-		79	1015016	PANEL, G&N IND. CONT. (INSEP)
	–	-	1	-		78	1015014	WIRE LIST AA
	–	-	1	-		77	1015015	HARNESS
NOTE 6	1	-	1	-		76	1010494-3	SWITCH ASSY, ROTARY
NOTE 6	1	-	1	-		75	1010494-2	SWITCH ASSY, ROTARY
	–	–	1	-		74	1014650-8	NAMEPLATE
	4	–	4	-		73	NAS 1081C06D3L	SCREW-SET, SELF LOCK
(K3)	1	1	1	1		72	1014660	PLATE
	1	1	1	1		71	1014659	PLATE
NOTE 6	1	1	1	1		70	1006783-21	SCREW, BUTTON HD
NOTE 6	1	1	1	1		69	1010624-2	LAMP-INCANDESCENT
	X	X	X	X			PS1014578	SPECIFICATION
	–	X	–	X			1014579	SCHEMATIC DIAGRAM, ELECTRICAL
	–	1	–	1		68	1014624	WIRE LIST A-A
	AR	AR	AR	AR		67	MIL-F-14256	FLUX (ES-2798)
							QQ-S-571	FLUX TYPE AR (ES-2175 TYPE 1 OR 2)
	AR	AR	AR	AR		66	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)
(H1)								
	–	–	–	1		63	1014650-1	NAMEPLATE
	–	1	–	1		62	1014580	HARNESS
	2	2	2	2		60	MS-16633-4009	RING-RETAINING
NOTE 6	1	1	1	1		59	1000220-10	CLAMP-CABLE
NOTE 6	5	5	5	5		58	1000220-8	CLAMP-CABLE
NOTE 6	2	2	2	2		57	1000220-7	CLAMP-CABLE
						56		
NOTE 6	3	3	3	3		55	1000220-4	CLAMP-CABLE
NOTE 6	10	10	10	10		54	1011918-3	WASHER-CABLE CLAMP
NOTE 6	1	1	1	1		53	1011918-1	WASHER-CABLE CLAMP
NOTE 6	18	18	18	18		50	1006783-22	SCREW-BUTTON HD.
NOTE 6	2	2	2	2		48	1006783-18	SCREW-BUTTON HD.
NOTE 6	4	2	4	2		47	1010630-25	SCREW-FLAT HD.
NOTE 6	10	10	10	10		46	1006783-19	SCREW-BUTTON HD.
	2	6	2	6		45	NAS1081C04D3L	SCREW-SET, SELF LOCK
NOTE 6	12	12	12	12		44	1010630-14	SCREW-FLAT HD.

QUANTITY REQUIRED — LIST OF PARTS AND MATERIALS

	041	031	021	011	EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
	6	6	6	6		43	1014503	SCREW-CAPTIVE
						42		
						41		
						40		
NOTE 6	2	2	2	2		39	1010268-2	LAMP-INCANDESCENT
NOTE 6	2	2	2	2		38	1010625-1	HOLDER, LAMP
	2	2	2	2		37	1014595	BRACKET, MOUNTING-LAMP
	1	1	1	1		36	1014594	PLATE, MOUNTING SWITCH
	2	2	2	2		35	1014587	WINDOW
	4	4	4	4		34	1014584	GASKET, WINDOW
	2	2	2	2		33	1014583	CLAMP, WINDOW
	2	2	2	2		32	1014530	PIN-CONNECTOR
	2	2	2	2		31	1014528	PIN-PANEL
(K1)	1	1	1	1		30	1014588	WHEEL, POTENTIOMETER
	1	1	1	1		28	1014586	SUPPORT, HAND CONTROLLER
	1	1	1	1		27	1014651-7	CAP-PUSH BUTTON ILLUMINATED
NOTE 6	9	9	9	9		26	1010475-1	CAP, PUSHBUTTON
	–	1	–	1		25	1014585-002	KNOB, ROTARY SWITCH
	–	1	–	1		24	1014585-001	KNOB, ROTARY SWITCH
NOTE 6	–	1	–	1		23	1010494-1	SWITCH ASSY, ROTARY
NOTE 6	–	1	–	1		22	1010417-1	SWITCH ASSY, ROTARY
NOTE 6	1	1	1	1		20	1010627-2	SWITCH ASSY, PUSH BUTTON ILLUMINATED
(K2) (H3)	3	3	3	3		19	1010480-3	SWITCH ASSY, PUSH BUTTON
	4	4	4	4		18	1010480-2	SWITCH ASSY, PUSH BUTTON
(K1)	2	2	2	2		17	1010480-1	SWITCH ASSY, PUSH BUTTON
	1	1	1	1		16	1010489-1	SWITCH ASSY, TOGGLE
	1	1	1	1		15	1010479-2	SWITCH ASSY, TOGGLE
	1	1	1	1		14	1010479-1	SWITCH ASSY, TOGGLE
(L1)	1	1	1	1		13	1010484-1	SWITCH ASSY, TOGGLE
(L2)								
	1		1	1		11	1010478-2	SWITCH ASSY, TOGGLE
NOTE 6	2	1	2	2		10	1010478-1	SWITCH ASSY, TOGGLE
						9		
NOTE 6	1	1	1	1		7	1010492	TRANSFORMER, POWER
(K2)								
			~~1~~	~~1~~		~~5~~	~~1014643~~	~~ATTITUDE IMPULSE SWITCH ASSY~~
	–	–	1	1		4	1014558-021	SEXTANT HAND CONTROLLER ASSY.
	1	1	1	1		2	1014591-011	BRACKET & POT. ASSEMBLY
	–	1	–	1		1	1014581	PANEL G&N IND. CONT. (INSEP)

QUANTITY REQUIRED — LIST OF PARTS AND MATERIALS

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		(E1) REPLACES REV D WITH CHANGE	TDRR 02424	4 [illegible] 63	WK
F		(F1) ADDED PART NOS 1011918-3 & 1011918-1. (F2) DELETED ITEMS 40, 41, 42, 52 & 61. TDRR 03198		9-11-63	[illegible]
G_{15}		REVISED PER TDRR NO. 04622		18 NOV 63	WK
H_4		REVISED PER TDRR NO. 04959		11 DEC 63	[illegible]
J		REVISED PER TDRR NO. 05816		28 JAN 64	[illegible]
K_5		REVISED PER TDRR NO. 06259		18 FEB [illegible]	WK
L_4		REVISED PER TDRR NO. 06370		25 FEB 64	WK
M		REVISED PER TDRR NO. 07386		[illegible] APR 64	[illegible]
N		REVISED PER TDRR NO. 10168		[illegible] 64	[illegible]
P		REVISED PER TDRR NO 10518		3 JUL 64	[illegible]
R		REVISED PER TDRR 2647		[illegible] 64	[illegible]
S		REVISED PER TDRR 14373		[illegible] NOV 64	[illegible]
T		REVISED PER TDRR 17035		3 MAR 65	[illegible]
–		REVISED CUSTOMER DATA (V 2-65)		8 MAR 65	[illegible]
U		REVISED PER TDRR 21645		23 AUG 65	RLF

SHEET 1	SHEET 2	SHEET 3
~~U~~	N	~~U~~
~~T~~	N	~~T~~
~~S~~	N	~~S~~
~~R~~	N	~~R~~
~~P~~	N	P
N	N	N
M	M	~~L~~
L	K	L
K	K	K
J	H	H
H	G	H
G	G	G
E	A	A

REVISION STATUS OF SHEETS

(E1) REPLACES REV D WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014513-031	1014513-031	-041
1014513-021	1014513-021	-031
1014513-011	1014513-011	-031
1014513	1014513	-021
1014513	1014513	-011

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — DECIMALS + — ANGLES + —
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN E. LITZOW DATE 26 JUNE 63
CHECKED W. [illegible] 2 JUL 63
APPROVAL D. W. [illegible] 2 JUL 63
APPROVAL [illegible] 3 JUL 63
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

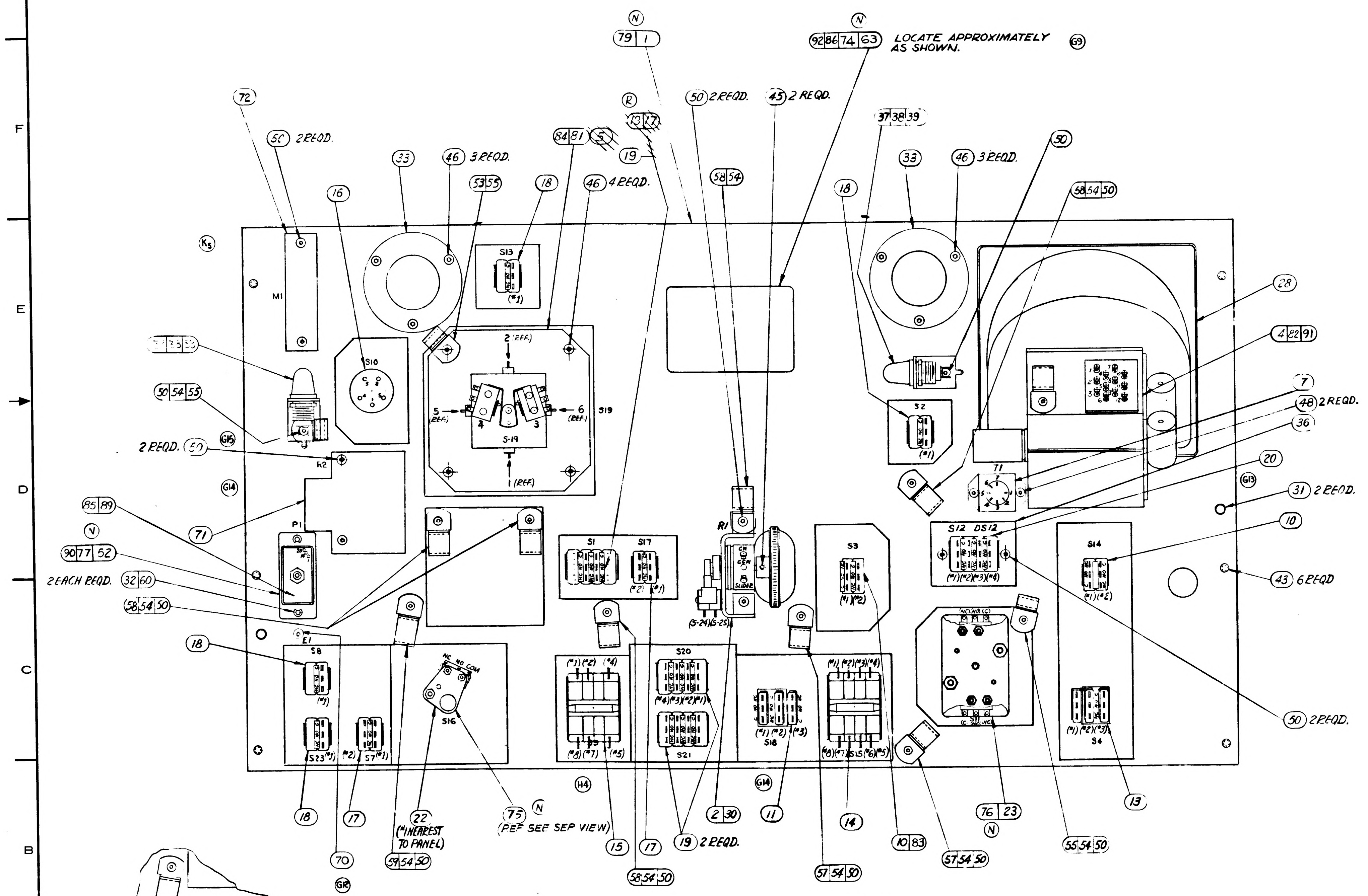
MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

G&N INDICATOR CONTROL PANEL ASSEMBLY

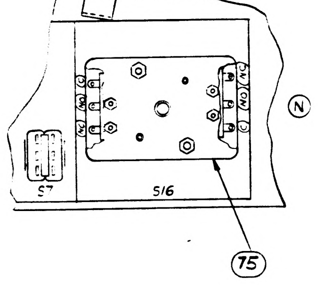
CODE IDENT NO 99974
SIZE E
1014578
SCALE —
WEIGHT
SHEET 1 OF 3

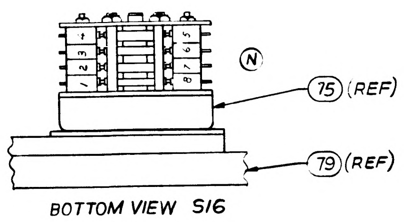
[illegible] 2 JUL 65

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
E			TDRR 02426		
F			TDRR 03 08		
G		SEE SHEET NO 1		2 NOV 63	
H_4		REVISED PER TDRR NO. 04959		DEC 63	
K_5		REVISED PER TDRR NO. 06259		18 FEB 64	
L_4		REVISED PER TDRR NO. 06370		25 FEB 64	
N		REVISED PER TDRR NO. 10 68		64	
P		REVISED PER TDRR NO. 10516		64	
R		REVISED PER TDRR 2647		25 SEP 64	
S		REVISED PER TDRR 4373		64	
T		REVISED PER TDRR 7035		6 MAR 65	
U		REVISED PER TDRR 2 645		23 AUG 65	



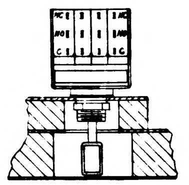
N
79 1
N
92 86 74 63
LOCATE APPROXIMATELY AS SHOWN.
G9
72
50 2 REQD.
33
46 3 REQD.
53 55
18
84 81
R
19
50 2 REQD.
45 2 REQD.
58 54
37 38 39
33
46 3 REQD.
50
58 54 50
16
S13
(*1)
M1
K5
S10
2 (REF)
5 (REF)
6 (REF)
S19
4
3
S-19
1 (REF)
28
4 22 91
7
48 2 REQD.
36
20
G13
31 2 REQD.
10
43 6 EQD
50 54 55
G15
2 REQD. 50
K2
G14
71
85 89
N
90 77 52
2 EACH REQD. 32 60
58 54 50
P1
E1
S1
S17
(*2) (*1)
R1
(S-24) (S-25)
S3
(*1) (*2)
S2
(*1)
T1
S12 DS12
(*1) (*2) (*3) (*4)
S14
(*1) (*2)
18
S8
(*1)
S23 (*1)
(*2)
S7 (*1)
NC NO COM
S16
(*1) (*2) (*4)
(*8) (*7) (*5)
S20
(*6) (*3) (*2) (*1)
S21
S18
(*1) (*2) (*3)
(*1) (*2) (*3) (*4)
(*8) (*7) S15 (*6) (*5)
NC NO (C)
S4
(*1) (*2) (*3)
50 2 REQD.
13
H4
G14
18
17
22
(*) NEAREST TO PANEL
75
N
(REF SEE SEP VIEW)
15
17
19 2 REQD.
2 30
11
14
76 23
N
10 83
55 54 50
70
G8
59 54 50
58 54 50
57 54 50
57 54 50
N
76 23 (REF)
N
1 79 (REF)
SIDE VIEW S11





N
75 (REF)
79 (REF)

BOTTOM VIEW S16



TYPICAL VIEW S9 AND S15

THIS SHEET ADDED

			UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± — ± — ± — DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON TEXAS
				DRAWN E. LITZOW DATE 26 JUNE 63 CHECKED 2 JUL 63 APPROVAL D W Mueling 2 Jul 63 APPROVAL	G&N INDICATOR CONTROL PANEL ASSEMBLY
NEXT ASSY	USED ON	APPLICABLE DASH NO.	MATERIAL	NASA APPROVAL	CODE IDENT NO 99974
APPLICATION					SIZE E
THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES			CONTRACT NAS 9-497	MIT APPROVAL May 63	1014578
					SCALE — SHEET 3 OF 3

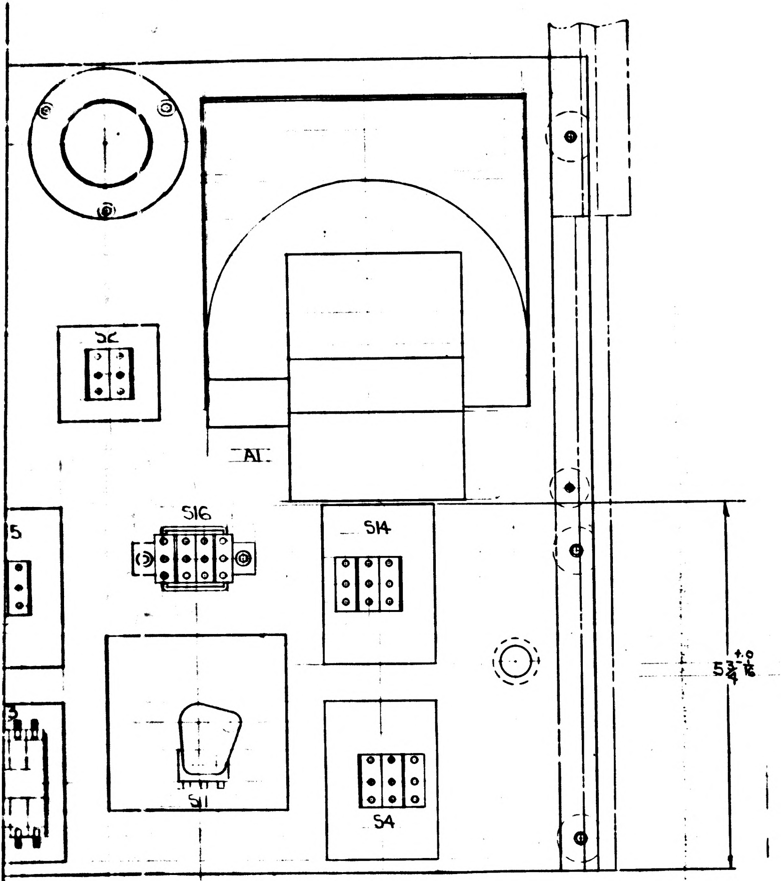
1014578

1014578

SYM	DESCRIPTION	DATE	APPROVAL
REVISIONS			

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00582 DATE 13 MAR 63



▷ BASIC 1/2 IN. PANEL MATERIAL: HONEYCOMB, 1/4 CELL SIZE, .002 FOIL GAUGE, 3003-H19 ALUM. 4.3 DENSITY CORE, .030 SKIN GAUGE, UNLESS OTHERWISE SPECIFIED 2024-T4 ALUM.

ALL PAD MATERIAL: HONEYCOMB, 1/8 CELL SIZE, .001 FOIL GAUGE, 3003-H19 ALUM. 4.5 DENSITY, .030 SKIN GAUGE, UNLESS OTHERWISE SPECIFIED 2024-T3

ADHESIVE: BOND PER MIL-A-25463, TYPE 2 CLASS 2

FINISH: CHEMICAL FILM PER MIL-C-5541
APPLY COATS OF SEMI-GLOSS PER FED. SPEC. TT-E-529 CLASS A MEDIUM GRAY, COLOR NO. 26231 OF FED.-STD.-593.

BAND HONEYCOMB EDGES USING HCA 501 EPOXY PUTTY.

MARKING: PIECEMARK WITH PER MIL-STD-130
CHARACTER AND BORDER LINES TO BE SILK SCREEN USING ______ PER FED. SPEC. , CLASS , WHITE COLOR NO. 37875 OF FED.-STD.-595 (NO CLEAR FLAT OVERCOAT). CHARACTERS UNLESS OTHERWISE SPECIFIED, ARE TO BE 1/8 HIGH FUTRA DEMIBOLD. BORDER LINE TO BE 1/16 THK.

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1		SWITCH, TOGGLE	33
1		SWITCH, PUSH BUTTON ASS'Y	32
1		METER	31
4	1000104-13	SCREW, FLAT HD.	30
10	1000140	INSERT, THD. SELF LOCKING	29
10	1000093-25	SCREW, BUTTON HD.	28
3	NAS-1081-02-2	SCREW, SELF LOCKING SET	27
4	1000104-4	SCREW, FLAT HD.	26
2		WINDOW	25
1		SWITCH, ROTARY SELECTOR	24
1		SWITCH, ROTARY SELECTOR	23
1		SWITCH, ROTARY SELECTOR	22
1		SWITCH, PUSH BUTTON	21
1		SWITCH, PUSH BUTTON	20
1		SWITCH, TOGGLE	19
1		SWITCH, TOGGLE	18
2		SWITCH, TOGGLE	17
2		POT.	16
1		SWITCH, TOGGLE	15
6		SWITCH, PUSH BUTTON ASS'Y	14
1		SWITCH, PUSH BUTTON ASS'Y	13
1		CONNECTOR (HUGHES WS5C108P08DN0C1)	12
1		ATTITUDE IMPULSE SWITCH ASSY	11
1	1014558	SEXTANT HAND CONTROLLER ASSY	10
1		SUPPORT, HAND CONTROLLER	9
3		KNOB	8
2		GASKET, WINDOW	7
2		CLAMP, WINDOW	6
2		MOUNTING, BRACKET	5
6	1014503	SCREW, CAPTIVE	4
2		PIN-CONNECTOR	3
2		PIN-PANEL	2
1		PANEL ▷	1

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ±1/64 DECIMALS ±.005 ANGLES ±1/2°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

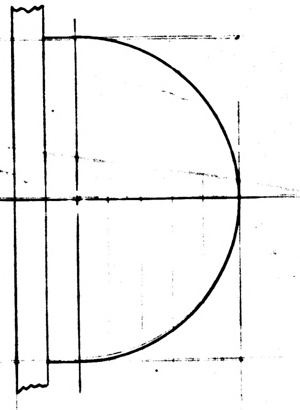
MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG. NO. CONTRACT
DRAWN N. DeZenga DATE 3/12/63
CHECKED
APPROVAL W. J. Blake
APPROVAL
NASA APPROVAL 13 March 1963
MIT APPROVAL 13 March 63

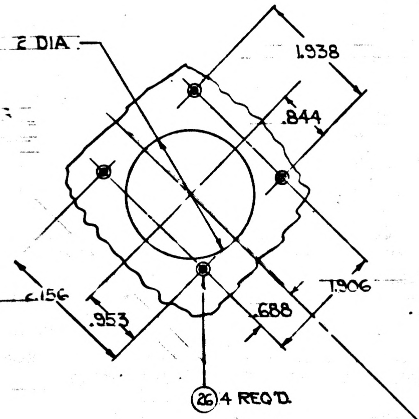
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

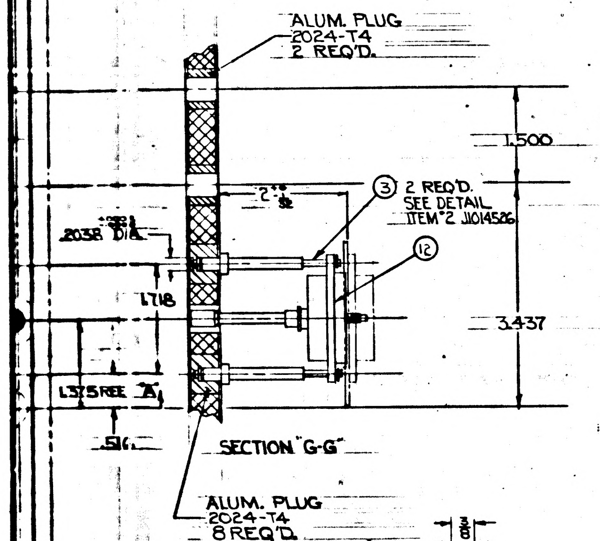
G&N INDICATOR
CONTROL PANEL ASS'Y

CODE IDENT NO.
SIZE J
NASA DRAWING NO. 1014578
SCALE 1:1
WT
SHEET 1 OF 1

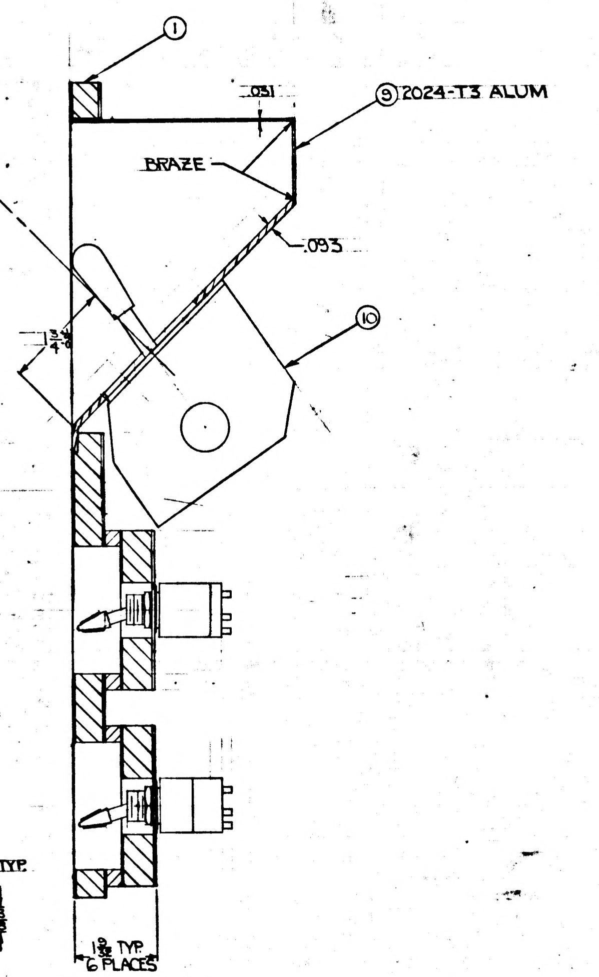
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY



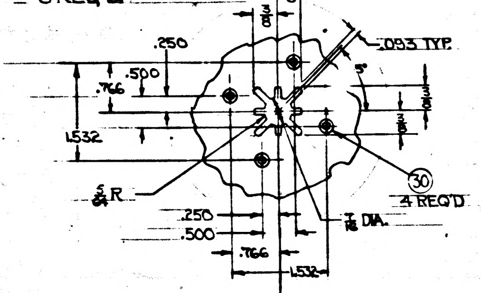

2 DIA.
1.938
.844
.156
.953
.688
1.906
㉖ 4 REQ'D.


ALUM. PLUG
2024-T4
2 REQ'D.
1.500
③ 2 REQ'D.
SEE DETAIL
ITEM 2 JJ014526
⑫
.2038 DIA.
1.718
3.437
1.375 REF
.516
ALUM. PLUG
2024-T4
8 REQ'D.

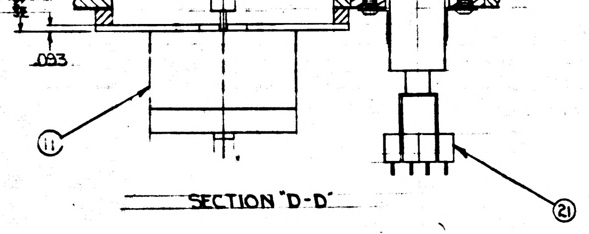
SECTION "G-G"


①
⑤ 2024-T3 ALUM
.031
BRAZE
.093
⑩
1 3/4
1/32 TYP.
6 PLACES

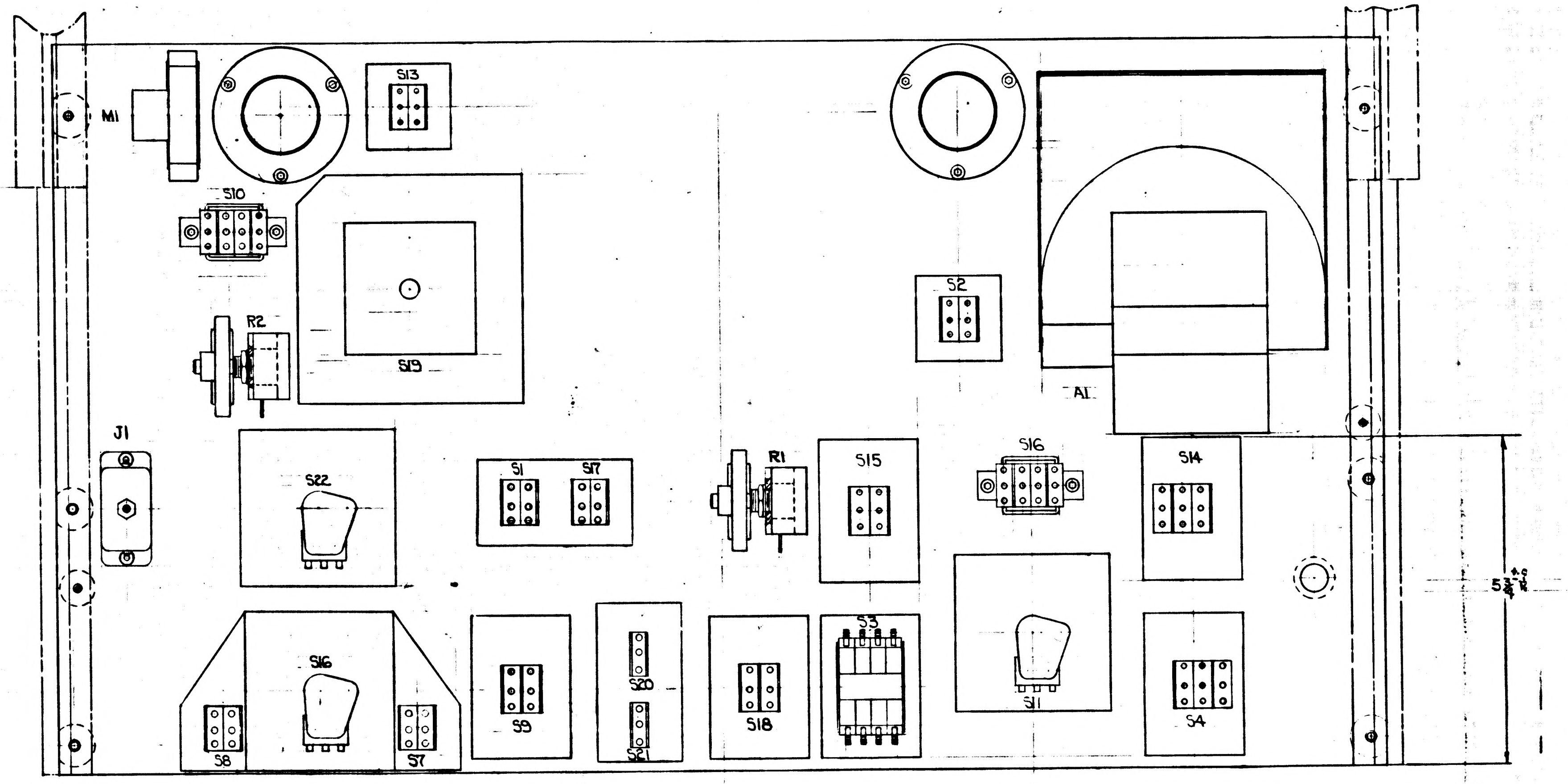
SECTION "H-H"


.250
.093 TYP.
.500
.766
1.532
5/64 R.
㉚
4 REQ'D.
1/16 DIA.
.250
.500
.766
1.532

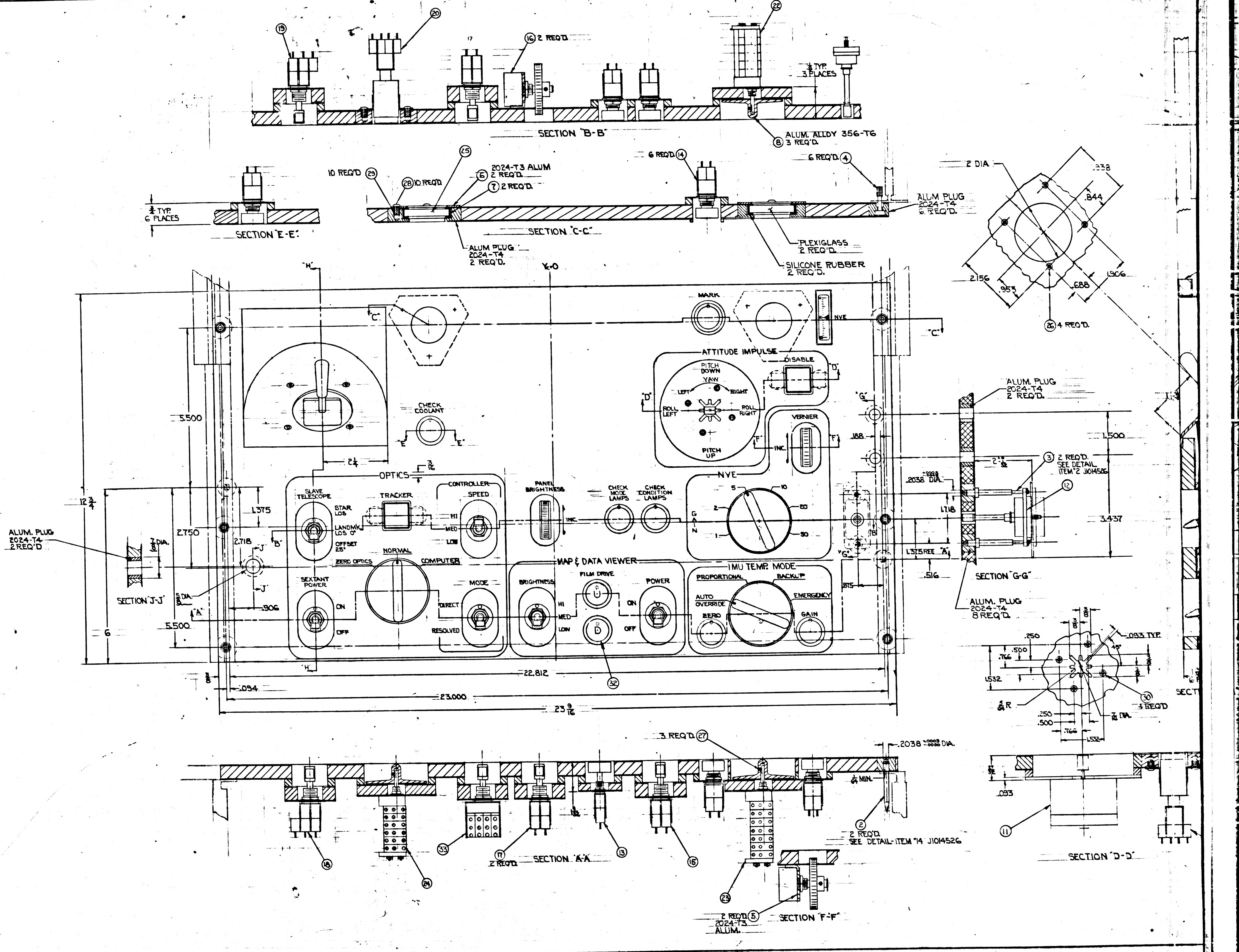
.2038 DIA.



SECTION "D-D"


M1
S13
S10
R2
S19
J1
S22
S1
S17
R1
S15
S16
S14
S2
A1
S16
S8
S7
S9
S20
S21
S18
S3
S11
S4
5 3/4

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY


SECTION "B-B"
⑲
⑳
17
⑯ 2 REQ'D.
㉒
1/8 TYP. 3 PLACES
ALUM. ALLOY 356-T6
⑧ 3 REQ'D.
1/8 TYP. 6 PLACES
SECTION "E-E"
10 REQ'D ㉙
㉘ 10 REQ'D.
㉕
2024-T3 ALUM 2 REQ'D. ⑥
⑦ 2 REQ'D.
SECTION "C-C"
ALUM PLUG 2024-T4 2 REQ'D.
6 REQ'D. ⑭
6 REQ'D. ④
ALUM PLUG 2024-T4 6 REQ'D.
PLEXIGLASS 2 REQ'D.
SILICONE RUBBER 2 REQ'D.
2 DIA
.338
.844
2.156
.953
.688
1.906
㉖ 4 REQ'D.
Y-0
"H"
"C"
MARK
NVE
ATTITUDE IMPULSE
PITCH DOWN
YAW
LEFT
RIGHT
ROLL LEFT
ROLL RIGHT
PITCH UP
DISABLE
"D"
VERNIER
INC.
"F"
"G"
.188
CHECK COOLANT
"E"
5.500
2 1/4
OPTICS
3/16
SLAVE TELESCOPE
STAR LOS
LANDMK LOS 0°
OFFSET 25°
TRACKER
CONTROLLER
SPEED
HI
MED
LOW
PANEL BRIGHTNESS
INC.
CHECK MODE LAMPS
CHECK CONDITION LAMPS
NVE
5
10
2
20
1
50
GAIN
12 3/4
1.375
2.750
2.718
"B"
"J"
ZERO OPTICS
NORMAL
COMPUTER
SEXTANT POWER
ON
OFF
MODE
DIRECT
RESOLVED
MAP & DATA VIEWER
BRIGHTNESS
FILM DRIVE
POWER
HI
MED
LOW
ON
OFF
IMU TEMP. MODE
PROPORTIONAL
BACK-UP
AUTO OVERRIDE
EMERGENCY
ZERO
GAIN
ALUM. PLUG 2024-T4 2 REQ'D
1/2 DIA.
SECTION "J-J"
5/8 DIA.
"A"
.906
5.500
6
22.812
.094
23.000
23 9/16
㉜
.2038 DIA.
1.718
1.375 REF. "A"
.516
.515
ALUM. PLUG 2024-T4 2 REQ'D.
1.500
③ 2 REQ'D. SEE DETAIL ITEM "2 J1014526
⑫
3.437
SECTION "G-G"
ALUM. PLUG 2024-T4 8 REQ'D.
.250
.500
.766
1.532
.093 TYP.
45°
5/64 R
7/16 DIA.
㉚ 4 REQ'D
3 REQ'D. ㉗
.2038 +.0003/-.0000 DIA.
1/4 MIN.
② 2 REQ'D. SEE DETAIL-ITEM "14 J1014526
⑱
㉔
㉝
⑪ 2 REQ'D.
SECTION "A-A"
⑬
⑮
㉓
2 REQ'D. ⑤ 2024-T3 ALUM.
SECTION "F-F"
.093
⑪
SECTION "D-D"
SECT
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS-1014578
10 December 1963
Class A Release
TDRR 05139

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page i to iii and 1 to 18 inclusive.

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

The purpose of this document is to establish the requirements for the procurement of the G&N Indicator Control Panel Assembly for use in APOLLO Guidance and Navigation Equipment.

WKupfer 10Dec63
MIT/IL DATE

W L Swingle 12/10/63
NASA/MSC APPROVAL DATE

PROCUREMENT SPECIFICATION
FOR
G&N INDICATOR CONTROL PANEL ASSEMBLY

1. SCOPE

1.1 PURPOSE. This specification establishes the requirements for the procurement of the G&N Indicator Control Panel Assembly, Drawing 1014578, hereafter called the assembly.

2. APPLICABLE DOCUMENTS

2.1 The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
FTM-1014578	Final Test Method for G&N Indicator Control Panel Assembly

STANDARDS

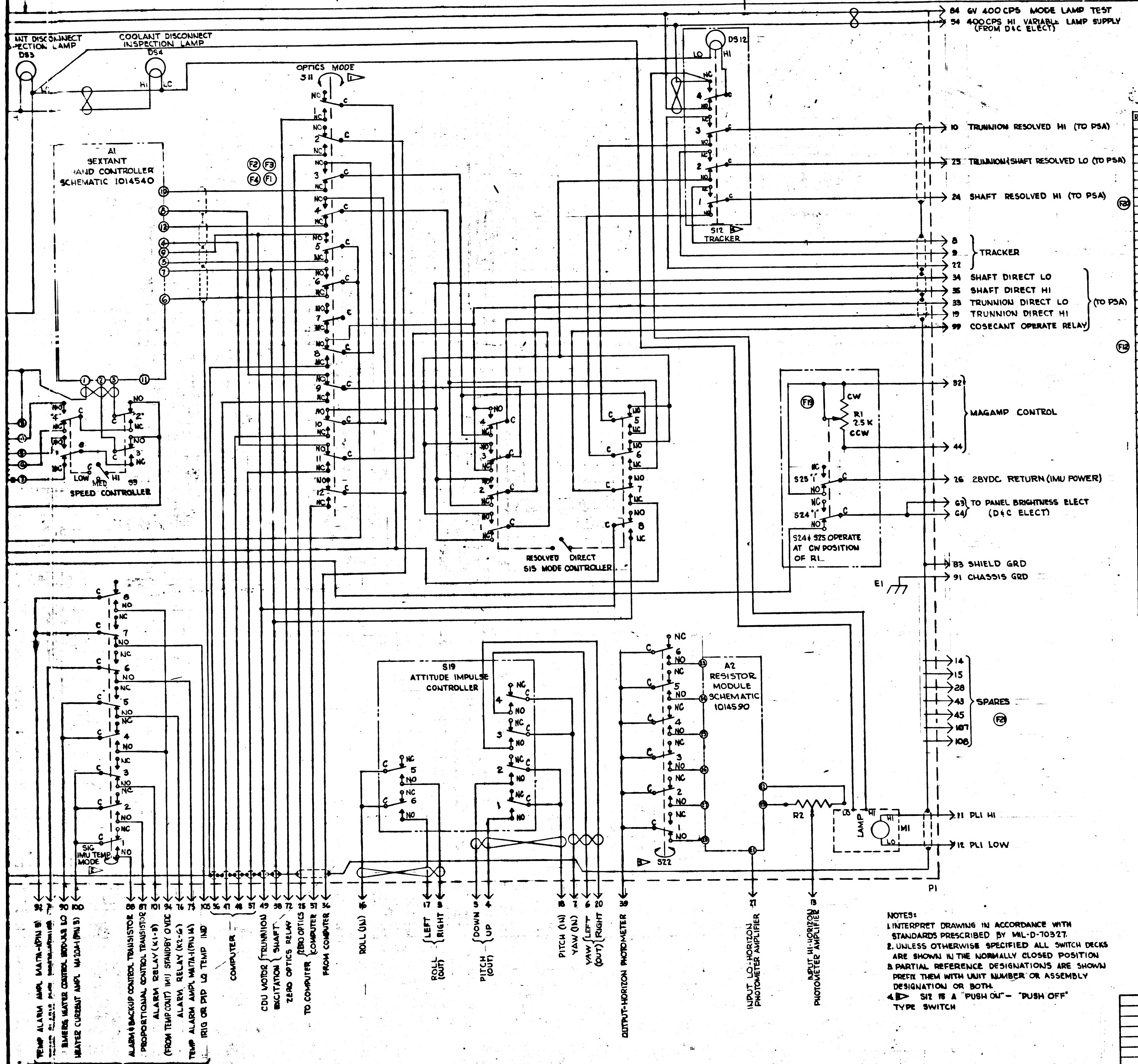
Military

MIL-STD-202	Test Methods for Electronic and Electrical Component Parts

DRAWINGS

APOLLO G&N

1014578	G&N Indicator Control Panel Assembly
1014579	G&N Indicator Control Panel (Schematic) (For Reference Only)


84 6V 400 CPS MODE LAMP TEST
54 400CPS HI VARIABLE LAMP SUPPLY (FROM D&C ELECT)
ANT DISCONNECT INSPECTION LAMP DS3
COOLANT DISCONNECT INSPECTION LAMP DS4
HI LC
OPTICS MODE S11
DS12 LO HI
S12 TRACKER
A1 SEXTANT HAND CONTROLLER SCHEMATIC 1014540
F2 F3 F4 F1
10 TRUNNION RESOLVED HI (TO PSA)
23 TRUNNION/SHAFT RESOLVED LO (TO PSA)
24 SHAFT RESOLVED HI (TO PSA)
8 9 22 TRACKER
34 SHAFT DIRECT LO
35 SHAFT DIRECT HI
33 TRUNNION DIRECT LO
19 TRUNNION DIRECT HI
(TO PSA)
99 COSECANT OPERATE RELAY
F20
32 44 MAGAMP CONTROL
F19 CW R1 2.5K CCW
26 28VDC RETURN (IMU POWER)
63 64 TO PANEL BRIGHTNESS ELECT (D&C ELECT)
S25 S24 NC NO C
S24 & S25 OPERATE AT CW POSITION OF R1
83 SHIELD GRD
91 CHASSIS GRD
E1
LOW MED HI S3
SPEED CONTROLLER
RESOLVED DIRECT S15 MODE CONTROLLER
S19 ATTITUDE IMPULSE CONTROLLER
A2 RESISTOR MODULE SCHEMATIC 1014590
S22
R2 LAMP M1 LO HI
11 PLI HI
12 PLI LOW
14 15 28 43 45 107 108 SPARES F22
S16 IMU TEMP MODE
P1
92 7 90 100 88 87 101 94 76 75 105 56 47 48 57 49 58 72 25 37 36 16 17 8 5 4 18 7 6 20 39 27 13
TEMP ALARM AMPL MA1TA-(PIN 8)
EMERG HEATER CONTROL MODULE LO
HEATER CURRENT AMPL MA20A-1(PIN 5)
ALARM & BACKUP CONTROL TRANSISTOR
PROPORTIONAL CONTROL TRANSISTOR
ALARM RELAY (K1-B)
(FROM TEMP CONT) IMU STANDBY OVDC
ALARM RELAY (K2-G)
TEMP ALARM AMPL MA1TA-1 (PIN 14)
IRIG OR PIP LO TEMP IND
(PSA)
COMPUTER
CDU MOTOR EXCITATION TRUNNION SHAFT
ZERO OPTICS RELAY
TO COMPUTER ZERO OPTICS COMPUTER
FROM COMPUTER
ROLL (IN)
ROLL (OUT) LEFT RIGHT
PITCH (OUT) DOWN UP
PITCH (IN)
YAW (IN)
YAW (OUT) LEFT RIGHT
OUTPUT-HORIZON PHOTOMETER
INPUT LO-HORIZON PHOTOMETER AMPLIFIER
INPUT HI-HORIZON PHOTOMETER AMPLIFIER

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1014558	SEXTANT HAND CONT			
A2	1014596	RESISTOR MODULE			
DS1	DELETED	LAMP			
DS2	DELETED				
DS3	1010268-2				
DS4	1010268-2				
DS12	1010624-2				
E1	1010638-6	TERMINAL LUG			
M1		METER			
P1	1010347-1	CONNECTOR			
R1	1010611-001	POTENTIOMETER	2.5K		2W
R2		POTENTIOMETER			
R3	DELETED	RESISTOR			
R4					
R5					
R6					
R7					
R8					
S1	1010480-1	SWITCH-PUSH BUTTON			
S2	1010480-2	PUSH BUTTON			
S3	1010478-3	TOGGLE			
S4	1010484-1	TOGGLE			
S7	1010480-1	PUSH BUTTON			
S8	1010480-2	PUSH BUTTON			
S9	1010479-2	TOGGLE			
S10	1010489-1	TOGGLE			
S11	1010494-1	ROTARY			
S12	1010627-2	PUSH BUTTON			
S13	1010480-2	PUSH BUTTON			
S14	1010478-1	TOGGLE			
S15	1010479-1	TOGGLE			
S16	1010417-1	ROTARY			
S17	1010480-1	PUSH BUTTON			
S18	1010478-2	TOGGLE			
S19	1014643	IMPULSE			
S20	1010480-3	PUSH BUTTON			
S21	1010480-3	PUSH BUTTON			
S22	1010417-2	ROTARY			
S23	1010480-2	PUSH BUTTON			
S24	1010435-001				
S25	1010435-001				
T1	1010492	TRANSFORMER			

F12

REVISIONS 00649 27 MARCH

SYM	DESCRIPTION	DATE	APPROVAL
A5	Ⓐ REVISED T1 & S3 CIRCUIT Ⓐ REVISED S10 CIRCUIT & REMD DS1 Ⓐ REMD R3 THRU R8 Ⓐ P1 WAS J1, RENUMBERED P1 Ⓐ REVISED MODE TABLE S16 TDRR 00961	23 APRIL 63	WR
B5	Ⓑ REVISED S9, S20 & S21 CIRCUIT Ⓑ ADDED A2 Ⓑ REVISED S3, S4, S15H & S18 CKT Ⓑ REVISED P1 SIGNAL INFO Ⓑ ADDED DECK "H" TO S16 TDRR 01154	1 MAY 63	WK
C7	Ⓒ REVISED S16 & S1 Ⓒ REVISED NOMENCLATURE TO S7, S8 & S23 Ⓒ ADDED SHIELDING Ⓒ REVISED TERM A1, A2 & T1 Ⓒ REVISED 28VDC CKT Ⓒ REVISED TABLE P/N Ⓒ RENUMBERED P1 TDRR 01492	11 JUNE 63	P.K.B.
D13	Ⓓ ADDED E1, Ⓓ DS12 WAS DS2, Ⓓ REVISED SW. DECK'S FROM LETTER TO NO. SEQUENCE, Ⓓ REVISED IMU PWR CVDC CKT, Ⓓ REVISED SHIELDING & ADDED TWISTED CONDUCTORS. Ⓓ ADDED LAMP TO M1 Ⓓ REMOVED P1-94 AS SPARE Ⓓ REVISED A1 TERM., Ⓓ REVISED P/N OF SWITCHES Ⓓ REVISED S11, S16, S22 POSITION BLOCKS. Ⓓ REVISED NOTE #4 Ⓓ CHANGED 6V TO 28VDC IN CONDITION LAMPS. Ⓓ UPGRADED FOR CLASS A RELEASE TDRR 02424	31 JULY 63	WK
E2	Ⓔ REMOVED CONNECTIONS OF S21-3-NC & S20-2-NC FROM P1-51. Ⓔ ADDED CONNECTIONS OF S21-3-NC & S20-2-NC TO S20-1-C & S9-8NO. 02522	13 AUG 63	WK
F21	REVISED PER TDRR NO 05250	23 DEC 63	WK

① S11 OPTICS MODE SWITCH

POSITION	DECK ACTUATED
ZERO OPTICS	1,2
MANUAL	3,4,5,6,7
COMPUTER	8,9,10,11,12

② S16 IMU TEMP MODE SWITCH

POSITION	DECK ACTUATED
AUTO OVERIDE	3,5,6,7
PROPORTIONAL	2,6,7
BACK-UP	1
EMERGENCY	4,8

③ S22 HORIZON PHOTOMETER

POSITION	DECK ACTUATED
1	1
2	2
5	3
10	4
20	5
50	6

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. UNLESS OTHERWISE SPECIFIED ALL SWITCH DECKS ARE SHOWN IN THE NORMALLY CLOSED POSITION
3. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
4. ④ S12 IS A "PUSH ON" - "PUSH OFF" TYPE SWITCH

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

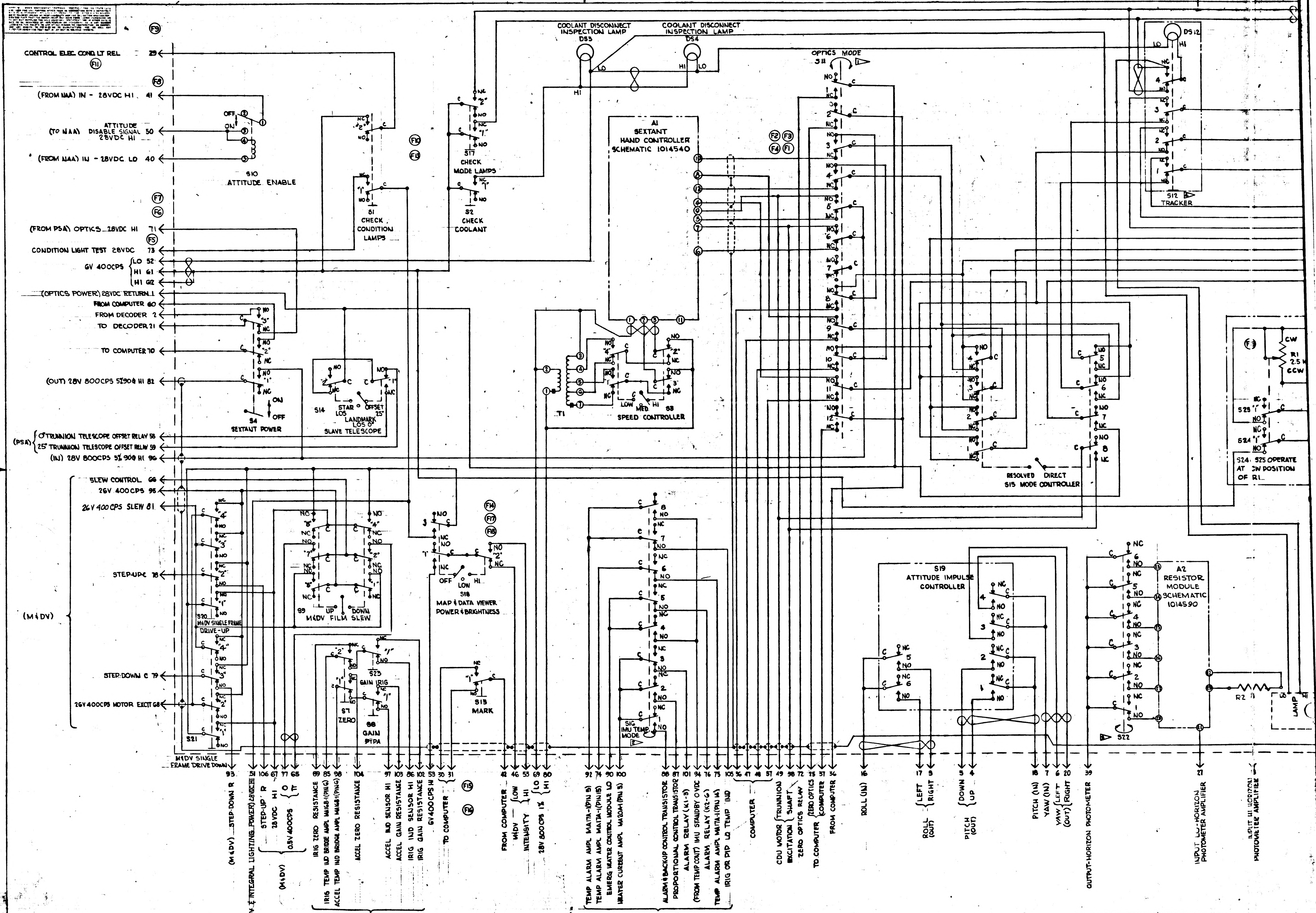
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN R. La Marr DATE 20 MAR 63
CHECKED
APPROVAL
APPROVAL 5/7/63
NASA APPROVAL W. J. Rhine 7-27-63
MIT APPROVAL 27 Jan 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

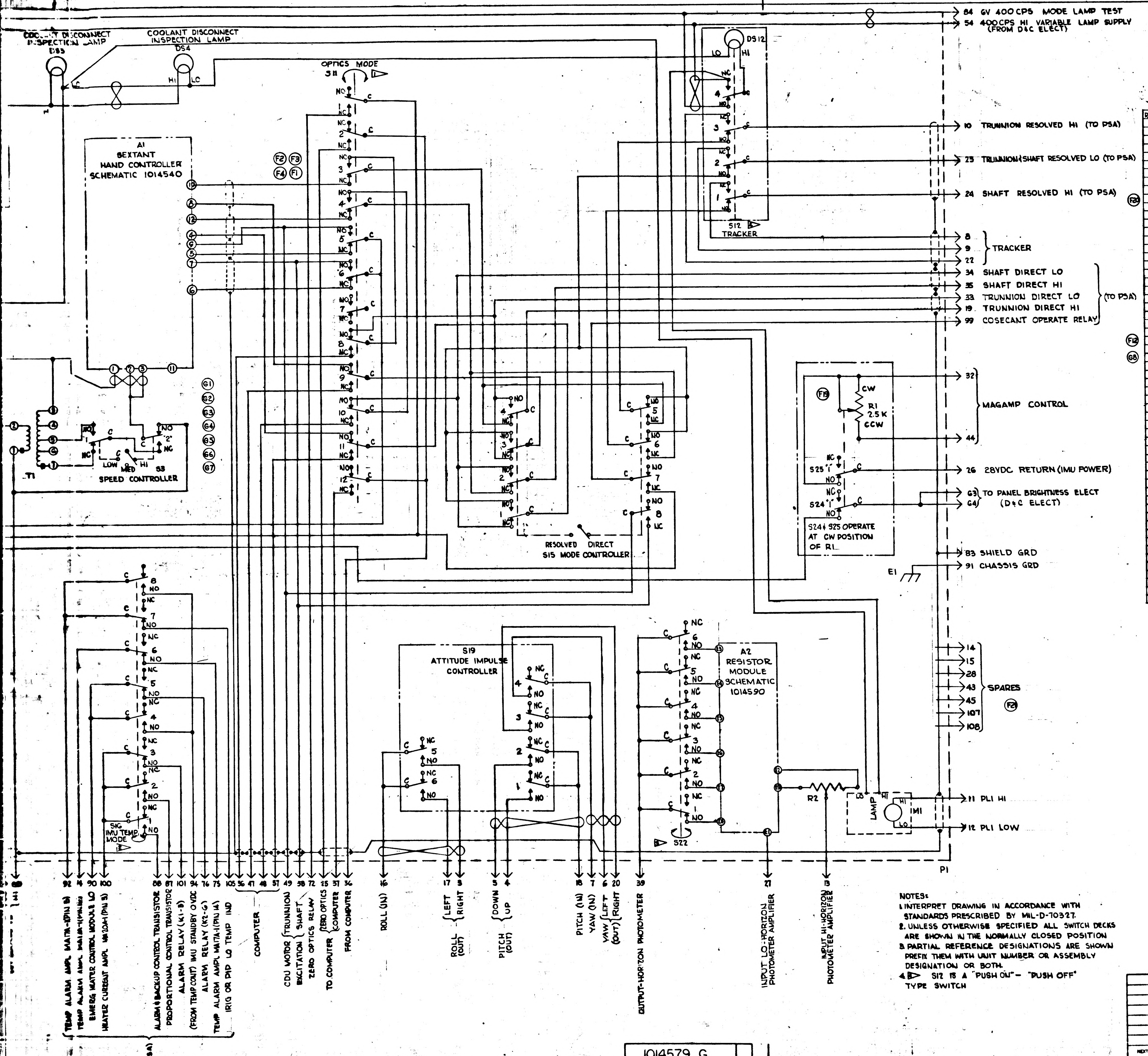
G&N INDICATOR
CONTROL PANEL
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE J
NASA DRAWING NO. 1014579
SCALE #
WT
SHEET OF


CONTROL ELEC. COND. LT REL 29
(FROM NAA) IN - 28VDC HI 41
ATTITUDE DISABLE SIGNAL 28VDC HI (TO NAA) 50
(FROM NAA) IN - 28VDC LO 40
S10 ATTITUDE ENABLE
OFF
ON
S1 CHECK CONDITION LAMPS
S17 CHECK MODE LAMPS
S2 CHECK COOLANT
(FROM PSA) OPTICS 28VDC HI 71
CONDITION LIGHT TEST 28VDC 73
6V 400CPS LO 52
HI 61
HI 62
(OPTICS POWER) 28VDC RETURN 1
FROM COMPUTER 60
FROM DECODER 2
TO DECODER 21
TO COMPUTER 70
(OUT) 28V 800CPS 5% 90° HI 82
S4 SEXTANT POWER
S14
STAR LOS
OFFSET 25°
LANDMARK LOS 0°
SLAVE TELESCOPE
(PSA)
0° TRUNNION TELESCOPE OFFSET RELAY 58
25° TRUNNION TELESCOPE OFFSET RELAY 59
(IN) 28V 800CPS 5% 90° HI 96
(M & DV)
SLEW CONTROL 66
26V 400CPS 95
26V 400CPS SLEW 81
STEP-UP C 78
STEP-DOWN C 79
26V 400CPS MOTOR EXCIT 68
S20 M & DV SINGLE FRAME DRIVE-UP
S21 M & DV SINGLE FRAME DRIVE DOWN
S9 M & DV FILM SLEW
UP
DOWN
S23 GAIN IRIG
S7 ZERO
S8 GAIN PIPA
S18 MAP & DATA VIEWER POWER & BRIGHTNESS
OFF
LOW
HI
S13 MARK
COOLANT DISCONNECT INSPECTION LAMP DS3
COOLANT DISCONNECT INSPECTION LAMP DS4
HI
LO
A1 SEXTANT HAND CONTROLLER SCHEMATIC 1014540
T1
S3 SPEED CONTROLLER
LOW
MED
HI
OPTICS MODE S11
S16 SIG IMU TEMP MODE
DS12
S12 TRACKER
S15 MODE CONTROLLER
RESOLVED
DIRECT
R1 2.5K
CW
CCW
S24, S25 OPERATE AT CW POSITION OF R1
S19 ATTITUDE IMPULSE CONTROLLER
A2 RESISTOR MODULE SCHEMATIC 1014590
R2
LAMP
S22
F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 F13 F14 F15 F16 F17 F18
93 (M & DV) STEP-DOWN R
51 (M & DV) & INTEGRAL LIGHTING POWER 28VDC HI
106 STEP-UP R
67 28VDC HI
77 0.5V 400CPS 0
65 0.5V 400CPS π
(M & DV)
89 IRIG ZERO RESISTANCE
85 IRIG TEMP IND BRIDGE AMPL MAIGB-1 (PIN 6)
98 ACCEL TEMP IND BRIDGE AMPL MAIGB-1 (PIN 6)
104 ACCEL ZERO RESISTANCE
97 ACCEL IND SENSOR HI
103 ACCEL GAIN RESISTANCE
86 IRIG IND SENSOR HI
102 IRIG GAIN RESISTANCE
(PSA)
53 6V 400CPS HI
30 31 TO COMPUTER
42 FROM COMPUTER
46 M & DV INTENSITY LOW
55 HI
69 28V 800CPS 1% LO
80 HI
92 TEMP ALARM AMPL MA17A-1 (PIN 5)
74 TEMP ALARM AMPL MA17A-1 (PIN 15)
90 EMERG HEATER CONTROL MODULE LO
100 HEATER CURRENT AMPL MA20AH (PIN 5)
88 ALARM & BACKUP CONTROL TRANSISTOR
87 PROPORTIONAL CONTROL TRANSISTOR
101 ALARM RELAY (K1-3)
94 (FROM TEMP CONT) IMU STANDBY 0 VDC
76 ALARM RELAY (K2-6)
73 TEMP ALARM AMPL MA17A-1 (PIN 14)
105 IRIG OR PIP LO TEMP IND
(PSA)
36 47 48 57 COMPUTER
49 CDU MOTOR EXCITATION TRUNNION
38 SHAFT
72 ZERO OPTICS RELAY
75 TO COMPUTER ZERO OPTICS
37 COMPUTER
36 FROM COMPUTER
16 ROLL (IN)
17 ROLL (OUT) LEFT
3 RIGHT
5 PITCH (OUT) DOWN
4 UP
18 PITCH (IN)
7 YAW (IN)
6 YAW (OUT) LEFT
20 RIGHT
39 OUTPUT-HORIZON PHOTOMETER
27 INPUT LO-HORIZON PHOTOMETER AMPLIFIER
INPUT HI HORIZON PHOTOMETER AMPLIFIER

1014579 F

INCHES
PHOTOGRAPHIC SCALE ONLY


COOLANT DISCONNECT INSPECTION LAMP
DS3
COOLANT DISCONNECT INSPECTION LAMP
DS4
HI
LO
OPTICS MODE
S11
DS12
S12
TRACKER
A1
SEXTANT
HAND CONTROLLER
SCHEMATIC 1014540
F2 F3 F4 F1
NO
NC
C
LOW
MED
HI
S3
SPEED CONTROLLER
T1
G1 G2 G3 G4 G5 G6 G7
RESOLVED
DIRECT
S15 MODE CONTROLLER
CW
R1
2.5K
CCW
S25
S24
S24 & S25 OPERATE AT CW POSITION OF R1
E1
S19
ATTITUDE IMPULSE CONTROLLER
A2
RESISTOR MODULE
SCHEMATIC
1014590
S22
R2
LAMP
M1
S16
IMU TEMP MODE
84 6V 400CPS MODE LAMP TEST
54 400CPS HI VARIABLE LAMP SUPPLY (FROM D&C ELECT)
10 TRUNNION RESOLVED HI (TO PSA)
23 TRUNNION & SHAFT RESOLVED LO (TO PSA)
24 SHAFT RESOLVED HI (TO PSA)
8
9
22
TRACKER
34 SHAFT DIRECT LO
35 SHAFT DIRECT HI
33 TRUNNION DIRECT LO
19 TRUNNION DIRECT HI
99 COSECANT OPERATE RELAY
(TO PSA)
32
44
MAGAMP CONTROL
26 28VDC RETURN (IMU POWER)
G3
G4
TO PANEL BRIGHTNESS ELECT (D&C ELECT)
83 SHIELD GRD
91 CHASSIS GRD
14
15
28
43
45
107
108
SPARES
F20
11 PLI HI
12 PLI LOW
P1
92 TEMP ALARM AMPL MA17A-1(PIN 8)
14 TEMP ALARM AMPL MA17A-1(PIN 12)
90 EMERG HEATER CONTROL MODULE LO
100 HEATER CURRENT AMPL MA20A-1 (PIN 5)
88 ALARM & BACKUP CONTROL TRANSISTOR
87 PROPORTIONAL CONTROL TRANSISTOR
101 ALARM RELAY (K1-8)
94 (FROM TEMP CONT) IMU STANDBY OVDC
76 ALARM RELAY (K2-6)
75 TEMP ALARM AMPL MA17A-1 (PIN 14)
105 IRIG OR PIP LO TEMP IND
(PSA)
36 47 48 57 COMPUTER
49 CDU MOTOR EXCITATION TRUNNION
58 SHAFT
72 ZERO OPTICS RELAY
25 TO COMPUTER ZERO OPTICS
37 COMPUTER
36 FROM COMPUTER
16 ROLL (IN)
17 9 ROLL (OUT) LEFT RIGHT
5 4 PITCH (OUT) DOWN UP
18 PITCH (IN)
7 YAW (IN)
6 20 YAW (OUT) LEFT RIGHT
39 OUTPUT-HORIZON PHOTOMETER
27 INPUT LO-HORIZON PHOTOMETER AMPLIFIER
13 INPUT HI-HORIZON PHOTOMETER AMPLIFIER

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1014558	SEXTANT HAND CONT			
A2	1014596	RESISTOR MODULE			
DS1	DELETED	LAMP			
DS2	DELETED				
DS3	1010268-2				
DS4	1010268-2				
DS12	1010624-2				
E1	1010638-6	TERMINAL LUG			
M1		METER			
P1	1010347-1	CONNECTOR			
R1	1010611-001	POTENTIOMETER	2.5K		2W
R2		POTENTIOMETER			
R3	DELETED	RESISTOR			
R4					
R5					
R6					
R7					
R8					
S1	1010480-1	SWITCH-PUSH BUTTON			
S2	1010480-2	PUSH BUTTON			
S3	1010478-1	TOGGLE			
S4	1010484-1	TOGGLE			
S7	1010480-1	PUSH BUTTON			
S8	1010480-2	PUSH BUTTON			
S9	1010479-2	TOGGLE			
S10	1010489-1	TOGGLE			
S11	1010494-1	ROTARY			
S12	1010627-2	PUSH BUTTON			
S13	1010480-2	PUSH BUTTON			
S14	1010478-1	TOGGLE			
S15	1010479-1	TOGGLE			
S16	1010417-1	ROTARY			
S17	1010480-1	PUSH BUTTON			
S18	1010478-2	TOGGLE			
S19	1014643	IMPULSE			
S20	1010480-3	PUSH BUTTON			
S21	1010480-3	PUSH BUTTON			
S22	1010417-2	ROTARY			
S23	1010480-2	PUSH BUTTON			
S24	1010435-001				
S25	1010435-001				
T1	1010492	TRANSFORMER			

REVISIONS 00649 27 MARCH

SYM	DESCRIPTION	DATE	APPROVAL
A_5	Ⓐ REVISED T1 & S3 CIRCUIT Ⓐ REVISED S10 CIRCUIT & REMD DS1 Ⓐ REMD R3 THRU R8 Ⓐ P1 WAS J1, RENUMBERED P1 Ⓐ REVISED MODE TABLE S16 TDRR 00964	23 APRIL 63	WR
B_5	Ⓑ REVISED S9, S20 & S21 CIRCUIT Ⓑ ADDED A2 Ⓑ REVISED S3, S4, S15 & S19 CKT Ⓑ REVISED P1 SIGNAL INFO Ⓑ ADDED DECK "H" TO S16 TDRR 01154	1 MAY 63	WK
C_7	Ⓒ REVISED S16 & S1 Ⓒ REVISED NOMENCLATURE TO S7, S8 & S23 Ⓒ ADDED SHIELDING Ⓒ REVISED TERM A1, A2 & T1 Ⓒ REVISED 28VDC CKT Ⓒ REVISED TABLE P/N Ⓒ RENUMBERED P1 TDRR-01497	11 JUNE 63	
D_{13}	Ⓓ ADDED E1, Ⓓ DS12 WAS D2, Ⓓ REVISED SW. DECK'S FROM LETTER TO NO. SEQUENCE, Ⓓ REVISED IMU PWR OVDC CKT, Ⓓ REVISED SHIELDING & ADDED TWISTED CONDUCTORS. Ⓓ ADDED LAMP TO M1 Ⓓ REMOVED P1-94 AS SPARE Ⓓ REVISED A1 TERM., Ⓓ REVISED P/N OF SWITCHES Ⓓ REVISED S11, S16, S22 POSITION BLOCKS. Ⓓ REVISED NOTE *4 Ⓓ CHANGED 6V TO 28VDC IN CONDITION LAMPS. Ⓓ UPGRADED FOR CLASS A RELEASE TDRR 02424	31 JULY 63	WK
E_2	Ⓔ REMOVED CONNECTIONS OF S21-3-NC & S20-2-NC FROM P1-51. Ⓔ ADDED CONNECTIONS OF S21-3-NC & S20-2-NC TO S20-1-C & S9-8NO. 02522	13 AUG 63	WK
F_{21}	REVISED PER TDRR NO. 05250	23 DEC 63	WK
G_8	REVISED PER TDRR NO. 06165	11 FEB 64	WK

1 S11 OPTICS MODE SWITCH

POSITION	DECK ACTUATED
ZERO OPTICS	1,2
MANUAL	3,4,5,6,7
COMPUTER	8,9,10,11,12

2 S16 IMU TEMP MODE SWITCH

POSITION	DECK ACTUATED
AUTO OVERIDE	3,5,6,7
PROPORTIONAL	2,6,7
BACK-UP	1
EMERGENCY	4,8

3 S22 HORIZON PHOTOMETER

POSITION	DECK ACTUATED
1	1
2	2
5	3
10	4
20	5
50	6

NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. UNLESS OTHERWISE SPECIFIED ALL SWITCH DECKS ARE SHOWN IN THE NORMALLY CLOSED POSITION
3. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
4. 4 S12 IS A "PUSH ON" - "PUSH OFF" TYPE SWITCH

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #
NEXT ASSY | USED ON
APPLICATION

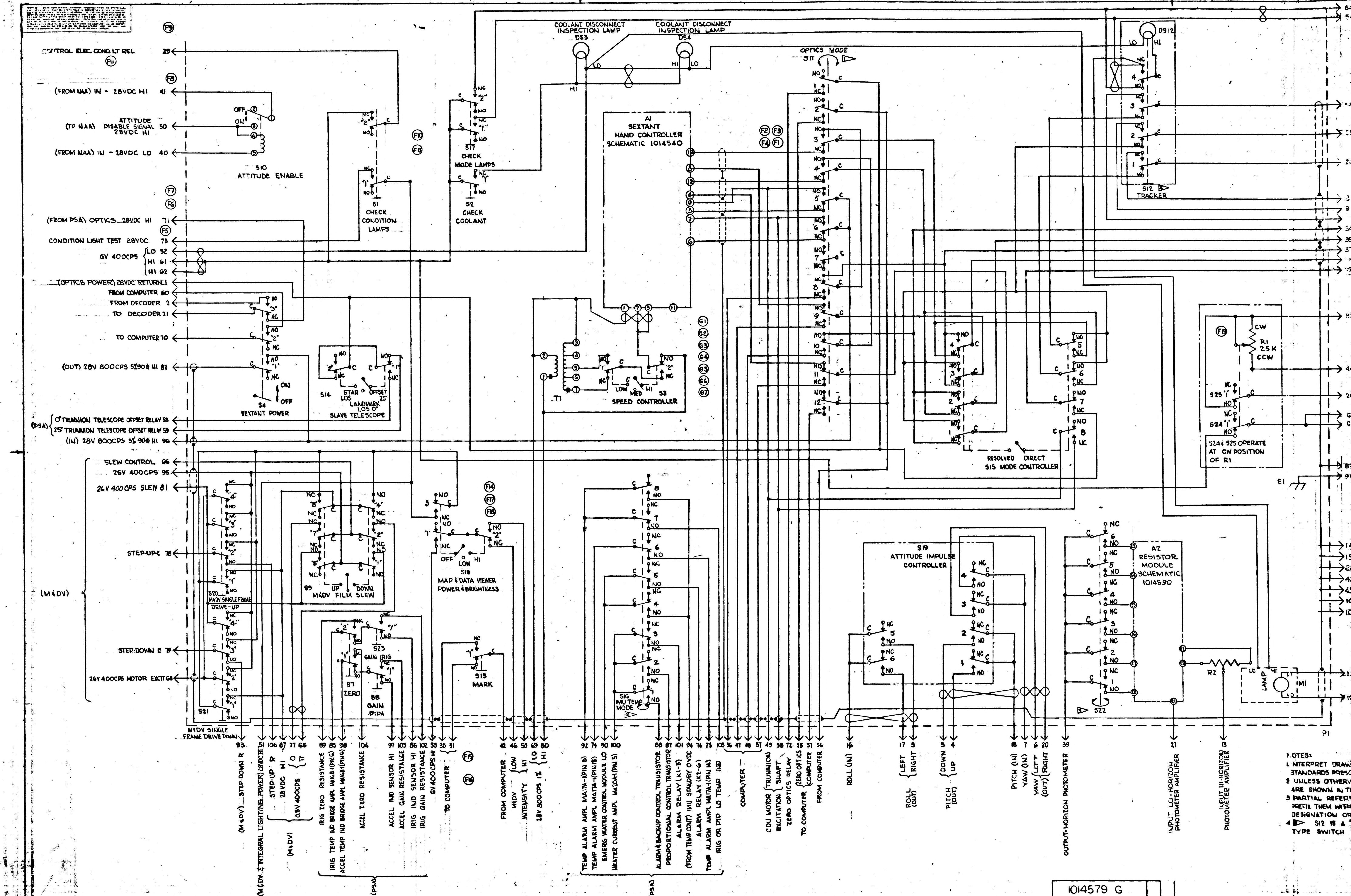
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS
DRAWN
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL 3-27-63
MIT APPROVAL 27 Mar 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR
CONTROL PANEL
SCHEMATIC DIAGRAM

CODE IDENT NO. | SIZE J | NASA DRAWING NO 1014579
SCALE # | WT | SHEET OF

1014579 G

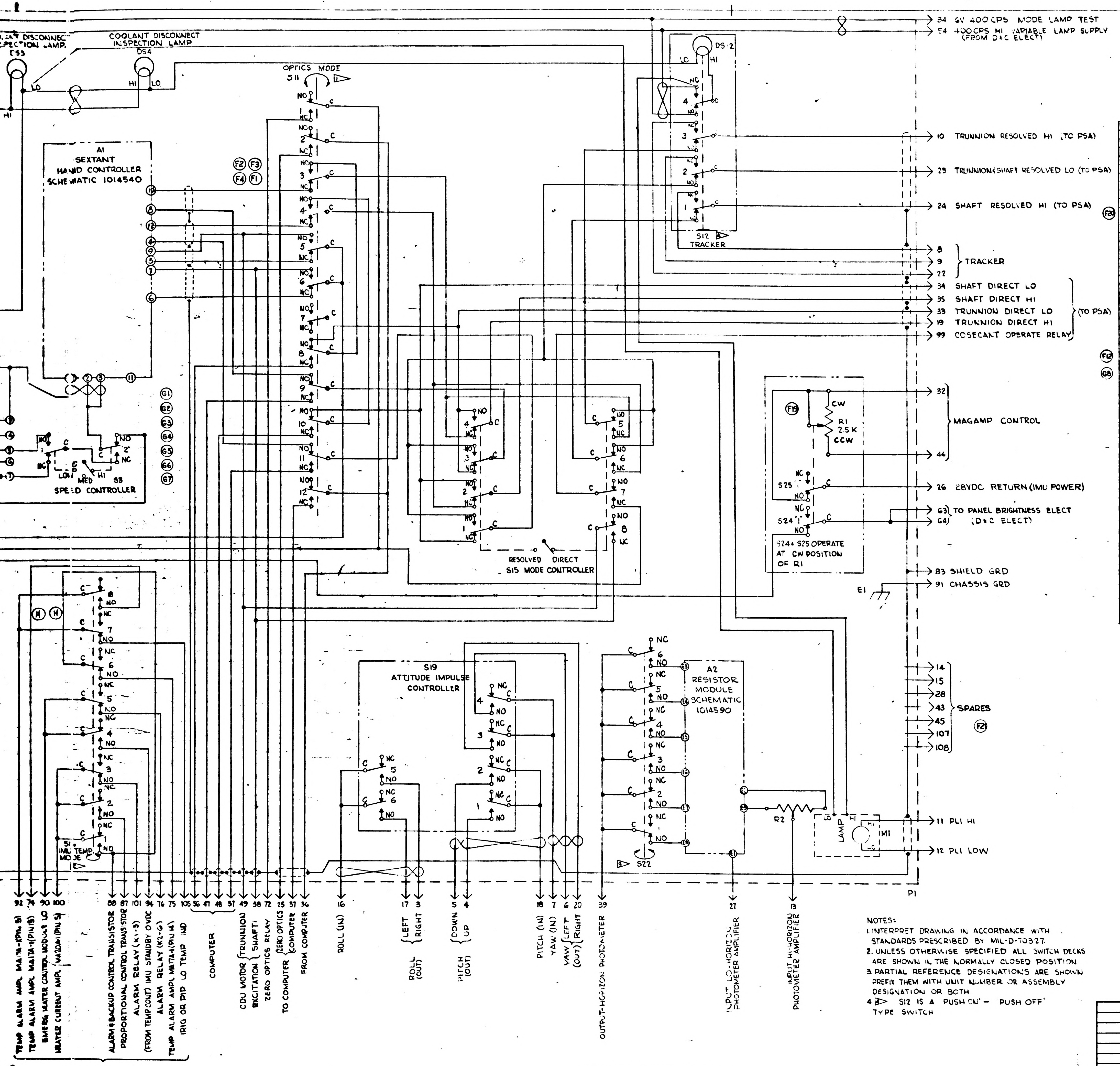

CONTROL ELEC. COND. LT REL 29
(FROM NAA) IN - 28VDC HI 41
ATTITUDE (TO NAA) DISABLE SIGNAL 28VDC HI 50
(FROM NAA) IN - 28VDC LO 40
S10 ATTITUDE ENABLE
(FROM PSA) OPTICS 28VDC HI 71
CONDITION LIGHT TEST 28VDC 73
6V 400CPS LO 52 HI 61 HI 62
(OPTICS POWER) 28VDC RETURN 1
FROM COMPUTER 60
FROM DECODER 2
TO DECODER 21
TO COMPUTER 70
(OUT) 28V 800CPS 5% 90° HI 82
S4 SEXTANT POWER
ON
OFF
S14 STAR LOS OFFSET 25° LANDMARK LOS 0° SLAVE TELESCOPE
(PSA) 0° TRUNNION TELESCOPE OFFSET RELAY 58
25° TRUNNION TELESCOPE OFFSET RELAY 59
(IN) 28V 800CPS 5% 90° HI 96
S1 CHECK CONDITION LAMPS
S17 CHECK MODE LAMPS
S2 CHECK COOLANT
COOLANT DISCONNECT INSPECTION LAMP DS3
COOLANT DISCONNECT INSPECTION LAMP DS4
HI
LO
A1 SEXTANT HAND CONTROLLER SCHEMATIC 1014540
T1
S3 SPEED CONTROLLER
LOW
MED
HI
OPTICS MODE S11
DS12
S12 TRACKER
F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F13 F14 F15 F16 F17 F18 F19
G1 G2 G3 G4 G5 G6 G7
RESOLVED DIRECT S15 MODE CONTROLLER
R1 2.5 K CW CCW
S25 "1"
S24 "1"
S24 & S25 OPERATE AT CW POSITION OF R1
E1
(M&DV)
SLEW CONTROL 66
26V 400CPS 95
26V 400CPS SLEW 81
STEP-UP C 78
STEP-DOWN C 79
26V 400CPS MOTOR EXCIT 68
S20 M&DV SINGLE FRAME DRIVE-UP
S21 M&DV SINGLE FRAME DRIVE DOWN
S9 UP DOWN M&DV FILM SLEW
S23 GAIN IRIG
S7 ZERO
S8 GAIN PIPA
S18 MAP & DATA VIEWER POWER & BRIGHTNESS
OFF LOW HI
S13 MARK
SIG IMU TEMP MODE
S19 ATTITUDE IMPULSE CONTROLLER
A2 RESISTOR MODULE SCHEMATIC 1014590
R2
LAMP
M1
S22
P1
93 (M&DV) STEP-DOWN R
51 (M&DV & INTEGRAL LIGHTING POWER) 28VDC HI
106 STEP-UP R
67 28VDC HI
77 65 0.5V 400CPS O T
(M&DV)
89 IRIG ZERO RESISTANCE
85 IRIG TEMP IND BRIDGE AMPL MA16B-1(PIN G)
98 ACCEL TEMP IND BRIDGE AMPL MA16B1(PIN G)
104 ACCEL ZERO RESISTANCE
97 ACCEL IND SENSOR HI
103 ACCEL GAIN RESISTANCE
86 IRIG IND SENSOR HI
102 IRIG GAIN RESISTANCE
53 6V 400CPS HI
(PSA)
30 31 TO COMPUTER
42 FROM COMPUTER
46 55 M&DV INTENSITY LOW HI
69 80 28V 800CPS 1% LO HI
92 TEMP ALARM AMPL MA17A-1(PIN 5)
74 TEMP ALARM AMPL MA17A-1(PIN 15)
90 EMERG HEATER CONTROL MODULE LO
100 HEATER CURRENT AMPL MA20A-1(PIN 5)
88 ALARM & BACKUP CONTROL TRANSISTOR
87 PROPORTIONAL CONTROL TRANSISTOR
101 ALARM RELAY (K1-3)
94 (FROM TEMP CONT) IMU STANDBY 0VDC
76 ALARM RELAY (K2-6)
75 TEMP ALARM AMPL MA17A-1(PIN 14)
105 IRIG OR PIP LO TEMP IND
(PSA)
36 47 48 57 COMPUTER
49 38 CDU MOTOR EXCITATION TRUNNION SHAFT
72 ZERO OPTICS RELAY
25 37 TO COMPUTER ZERO OPTICS COMPUTER
36 FROM COMPUTER
16 ROLL (IN)
17 3 ROLL (OUT) LEFT RIGHT
5 4 PITCH (OUT) DOWN UP
18 PITCH (IN)
7 YAW (IN)
6 20 YAW (OUT) LEFT RIGHT
39 OUTPUT-HORIZON PHOTOMETER
27 INPUT LO-HORIZON PHOTOMETER AMPLIFIER
13 INPUT HI-HORIZON PHOTOMETER AMPLIFIER

NOTES:
1. INTERPRET DRAW
STANDARDS PRESC
2. UNLESS OTHERV
ARE SHOWN IN T
3. PARTIAL REFERE
PREFIX THEM WITH
DESIGNATION OR
4. ▷ S12 IS A
TYPE SWITCH

1014579 G

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

H 1014579



COOLANT DISCONNECT INSPECTION LAMP
DS3
COOLANT DISCONNECT INSPECTION LAMP
DS4
HI
LO
OPTICS MODE
S11
NO
NC
C
A1
SEXTANT
HAND CONTROLLER
SCHEMATIC 1014540
F2 F3
F4 F1
G1 G2 G3 G4 G5 G6 G7
LOW
MED
HI
S3
SPEED CONTROLLER
DS12
LC
TRACKER
S12
54 6V 400CPS MODE LAMP TEST
54 400CPS HI VARIABLE LAMP SUPPLY (FROM D&C ELECT)
10 TRUNNION RESOLVED HI (TO PSA)
23 TRUNNION SHAFT RESOLVED LO (TO PSA)
24 SHAFT RESOLVED HI (TO PSA)
8
9
22
TRACKER
34 SHAFT DIRECT LO
35 SHAFT DIRECT HI
33 TRUNNION DIRECT LO
19 TRUNNION DIRECT HI
99 COSECANT OPERATE RELAY
(TO PSA)
32
44
MAGAMP CONTROL
F19
CW
R1
2.5 K
CCW
S25
S24
S24 & S25 OPERATE AT CW POSITION OF R1
26 28VDC RETURN (IMU POWER)
63 TO PANEL BRIGHTNESS ELECT
64 (D&C ELECT)
83 SHIELD GRD
91 CHASSIS GRD
E1
RESOLVED
DIRECT
S15 MODE CONTROLLER
14
15
28
43
45
107
108
SPARES
F21
S19
ATTITUDE IMPULSE CONTROLLER
A2
RESISTOR MODULE SCHEMATIC 1014590
S22
R2
LAMP
M1
11 PLI HI
12 PLI LOW
P1
S1
IMU TEMP MODE
92 74 90 100
TEMP ALARM AMPL MA17A-1(PIN 8)
TEMP ALARM AMPL MA17A-1(PIN 15)
EMERG HEATER CONTROL MODULE LO
HEATER CURRENT AMPL MA20A-1(PIN 5)
88 87 101 94 76 75 105
ALARM & BACKUP CONTROL TRANSISTOR
PROPORTIONAL CONTROL TRANSISTOR
ALARM RELAY (K1-3)
(FROM TEMP CONT) IMU STANDBY OVDC
ALARM RELAY (K2-6)
TEMP ALARM AMPL MA17A-1(PIN 14)
IRIG OR PIP LO TEMP IND
(PSA)
56 47 48 57
COMPUTER
49 38
CDU MOTOR EXCITATION TRUNNION SHAFT
72 ZERO OPTICS RELAY
25 37 TO COMPUTER ZERO OPTICS COMPUTER
36 FROM COMPUTER
16 ROLL (IN)
17 3 ROLL (OUT) LEFT RIGHT
5 4 PITCH (OUT) DOWN UP
18 7 6 20
PITCH (IN)
YAW (IN)
YAW (OUT) LEFT RIGHT
39 OUTPUT-HORIZON PHOTOMETER
27 INPUT LO-HORIZON PHOTOMETER AMPLIFIER
13 INPUT HI-HORIZON PHOTOMETER AMPLIFIER

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1014558	SEXTANT HAND CONT			
A2	1014596	RESISTOR MODULE			
DS1	DELETED	LAMP			
DS2	DELETED				
DS3	1010268-2				
DS4	1010268-2				
DS12	1010624-2				
E1	1010638-6	TERMINAL LUG			
M1		METER			
P1	1010347-1	CONNECTOR			
R1	1010611-001	POTENTIOMETER	2.5K		2W
R2		POTENTIOMETER			
R3	DELETED	RESISTOR			
R4					
R5					
R6					
R7					
R8					
S1	1010480-1	SWITCH-PUSH BUTTON			
S2	1010480-2	PUSH BUTTON			
S3	1010478-1	TOGGLE			
S4	1010484-1	TOGGLE			
S7	1010480-1	PUSH BUTTON			
S8	1010480-2	PUSH BUTTON			
S9	1010419-2	TOGGLE			
S10	1010489-1	TOGGLE			
S11	1010494-1	ROTARY			
S12	1010627-2	PUSH BUTTON			
S13	1010480-2	PUSH BUTTON			
S14	1010478-1	TOGGLE			
S15	1010479-1	TOGGLE			
S16	1010417-1	ROTARY			
S17	1010480-1	PUSH BUTTON			
S18	1010478-2	TOGGLE			
S19	1014643	IMPULSE			
S20	1010480-3	PUSH BUTTON			
S21	1010480-3	PUSH BUTTON			
S22	1010417-2	ROTARY			
S23	1010480-2	PUSH BUTTON			
S24	1010435-001				
S25	1010435-001				
T1	1010492	TRANSFORMER			

F20 F12 G8

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A5	(A1) REVISED T1 & S3 CIRCUIT (A2) REVISED S10 CIRCUIT & REMD DS1 (A3) REMD R3 THRU R8 (A4) P1 WAS J1, RENUMBERED P1 (A5) REVISED MODE TABLE S16 TDRR 00961	23 APRIL 63	WK.
B	(B1) REVISED S9, S20 & S21 CIRCUIT (B2) ADDED A2 (B3) REVISED S3, S4, S15 & S19 CKT (B4) REVISED P1 SIGNAL INFO (B5) ADDED DECK "11" TO S16	1 MAY 63	WK
C7	(C1) REVISED S16 & S1 (C2) REVISED NOMENCLATURE TO S7 S8 & S23 (C3) ADDED SHIELDING (C4) REVISED TERM A1 A2 & T1 (C5) REVISED 28VDC CKT (C6) REVISED TABLE P/N (C7) RENUMBERED P1 TDRR-01497	11 JUNE 63	NKB
D13	(D1) ADDED E1, (D2) DS12 WAS D2, REVISED SW. DECK'S FROM LETTER TO NO. SEQUENCE, (D3) REVISED IMU PWR OVDC CKT, (D4) REVISED SHIELDING & ADDED TWISTED CONDUCTORS. (D5) ADDED LAMP TO M1 (D6) REMOVED P1-34 AS SPARE (D7) REVISED A1 TERM., (D8) REVISED P/N OF SWITCHES (D9) REVISED S11, S16, S22 POSITION BLOCKS. (D10) REVISED NOTE #4 (D11) CHANGED 6V TO 28VDC IN CONDITION LAMPS. (D13) UPGRADED FOR CLASS A RELEASE TDRR 02424	31 JULY 63	WK.
E2	E1 REMOVED CONNECTIONS OF S21-3-NC & S20-2-NC FROM P1-51. E2 ADDED CONNECTIONS OF S21-3-NC & S20-2-NC TO S20-1-C & S9-8NO. 02522	13 AUG 63	WK.
F21	REVISED PER TDRR NO. 05250	23 DEC 63	WK
G8	REVISED PER TDRR NO. 06165	11 FEB 64	WK
H	REVISED PER TDRR 08490	3 JUN 64	

▷1 S11 OPTICS MODE SWITCH

POSITION	DECK ACTUATED
ZERO OPTICS	1,2
MANUAL	3,4,5,6,7
COMPUTER	8,9,10,11,12

▷2 S16 IMU TEMP MODE SWITCH

POSITION	DECK ACTUATED
AUTO OVERIDE	3,5,6,7
PROPORTIONAL	2,6,7
BACK-UP	1
EMERGENCY	4,8

▷3 S22 HORIZON PHOTOMETER

POSITION	DECK ACTUATED
1	1
2	2
5	3
10	4
20	5
50	6

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. UNLESS OTHERWISE SPECIFIED ALL SWITCH DECKS ARE SHOWN IN THE NORMALLY CLOSED POSITION
3. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
4. ▷4 S12 IS A "PUSH ON" - "PUSH OFF" TYPE SWITCH

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO. CONTRACT
DRAWN R. Ta Lan DATE 20 MAR 63
CHECKED
APPROVAL
APPROVAL 8/7/63
NASA APPROVAL 3-27-63
MIT APPROVAL WKaff 27 Mar 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

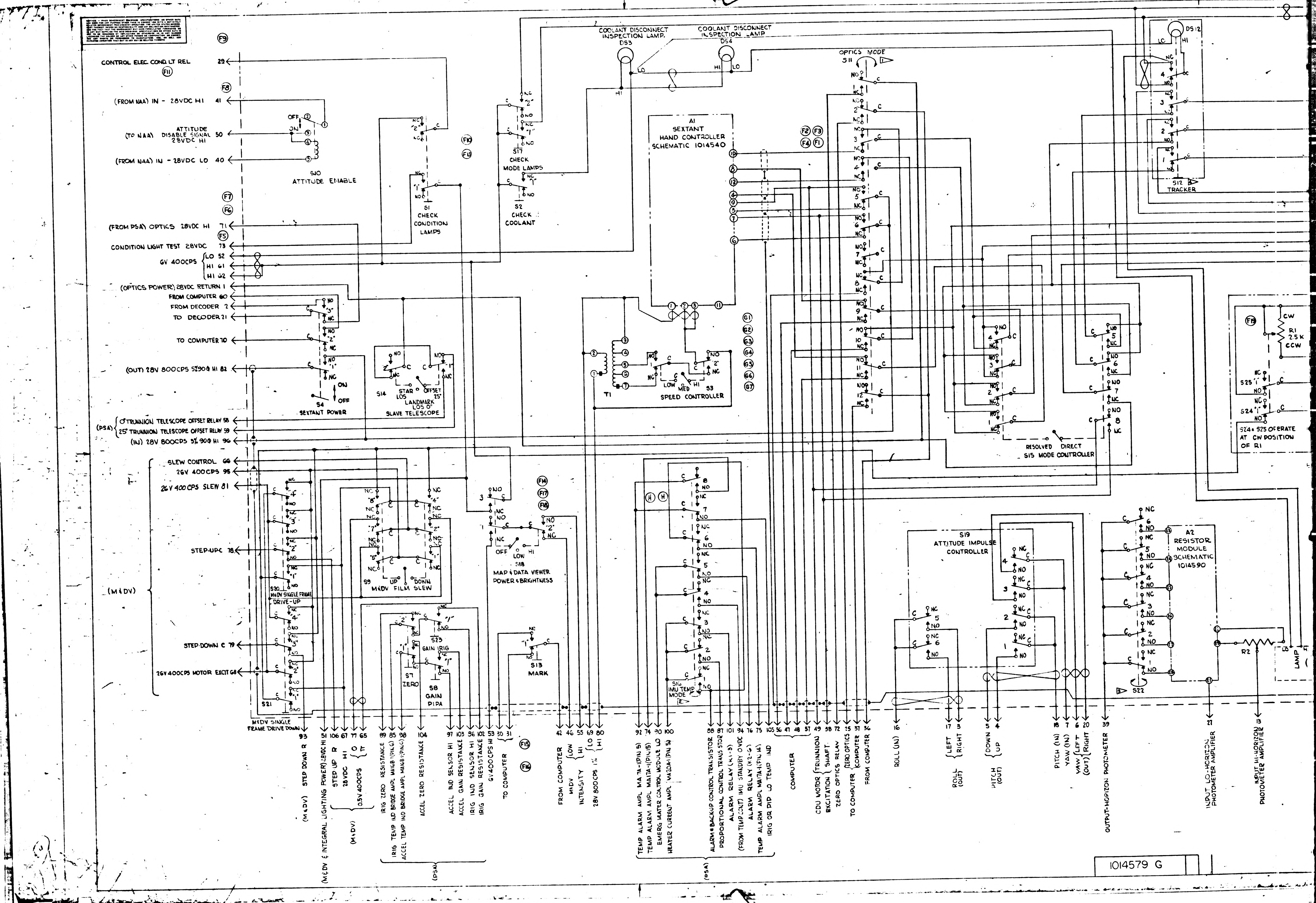
G&N INDICATOR
CONTROL PANEL
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE J
NASA DRAWING NO. 1014579
SCALE #
WT
SHEET OF

1014579 H

1014579 G

2/1014579



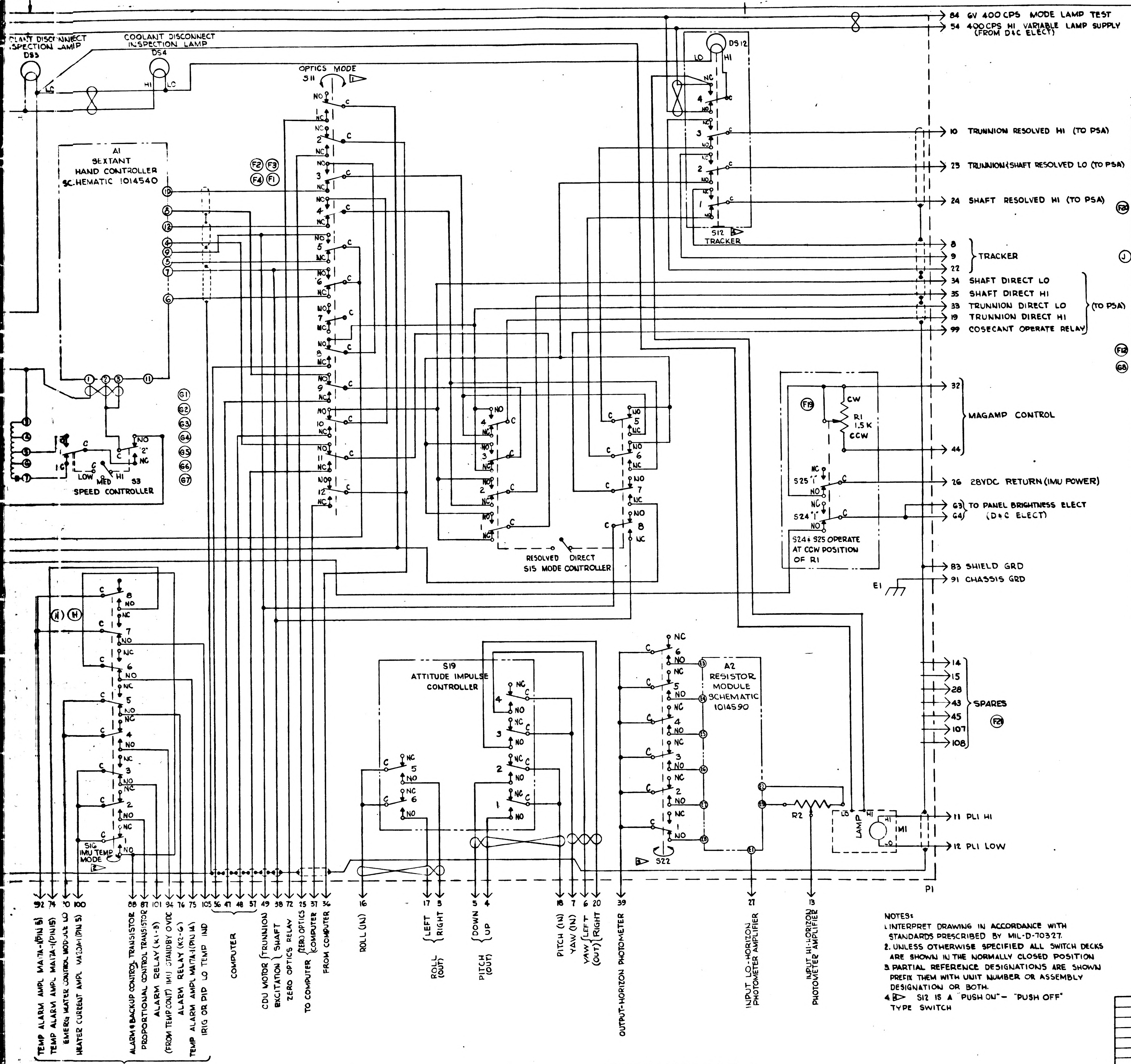
CONTROL ELEC COND LT REL 29
(FROM NAA) IN - 28VDC HI 41
ATTITUDE DISABLE SIGNAL 28VDC HI (TO NAA) 50
(FROM NAA) IN - 28VDC LO 40
S10 ATTITUDE ENABLE
OFF
ON
S1 CHECK CONDITION LAMPS
S17 CHECK MODE LAMPS
S2 CHECK COOLANT
COOLANT DISCONNECT INSPECTION LAMP DS3
COOLANT DISCONNECT INSPECTION LAMP DS4
HI
LO
OPTICS MODE S11
DS12
S12 TRACKER
A1 SEXTANT HAND CONTROLLER SCHEMATIC 1014540
T1
S3 SPEED CONTROLLER
LOW
MED
HI
(FROM PSA) OPTICS 28VDC HI 71
CONDITION LIGHT TEST 28VDC 73
6V 400CPS LO 52
HI 61
HI 62
(OPTICS POWER) 28VDC RETURN 1
FROM COMPUTER 60
FROM DECODER 2
TO DECODER 21
TO COMPUTER 70
(OUT) 28V 800CPS 5% 90° HI 82
S4 SEXTANT POWER
ON
OFF
S14 STAR LOS
LANDMARK LOS 0°
OFFSET 25°
SLAVE TELESCOPE
(PSA) 0° TRUNNION TELESCOPE OFFSET RELAY 58
25° TRUNNION TELESCOPE OFFSET RELAY 59
(IN) 28V 800CPS 5% 90° HI 96
RESOLVED
DIRECT
S15 MODE CONTROLLER
R1 2.5K
CW
CCW
S25
S24
S24 & S25 OPERATE AT CW POSITION OF R1
SLEW CONTROL 66
26V 400CPS 95
26V 400CPS SLEW 81
STEP-UP C 78
(M&DV)
S20 M&DV SINGLE FRAME DRIVE-UP
STEP-DOWN C 79
26V 400CPS MOTOR EXCIT 68
S21 M&DV SINGLE FRAME DRIVE DOWN
S9 M&DV FILM SLEW
UP
DOWN
S18 MAP & DATA VIEWER POWER & BRIGHTNESS
OFF
LOW
HI
S7 ZERO
S23 GAIN IRIG
S8 GAIN PIPA
S13 MARK
S16 IMU TEMP MODE
S19 ATTITUDE IMPULSE CONTROLLER
A2 RESISTOR MODULE SCHEMATIC 1014590
S22
R2
LAMP
93 STEP DOWN R (M&DV)
51 (M&DV & INTEGRAL LIGHTING POWER) 28VDC HI
106 STEP UP R
67 28VDC HI
77 0.5V 400CPS 0
65 π
(M&DV)
89 IRIG ZERO RESISTANCE
85 IRIG TEMP IND BRIDGE AMPL
98 ACCEL TEMP IND BRIDGE AMPL
104 ACCEL ZERO RESISTANCE
97 ACCEL IND SENSOR HI
103 ACCEL GAIN RESISTANCE
56 IRIG IND SENSOR HI
102 IRIG GAIN RESISTANCE
53 6V 400CPS HI
(PSA)
30 31 TO COMPUTER
42 46 FROM COMPUTER
55 M&DV LOW
69 INTENSITY HI
80 28V 800CPS 1% LO HI
92 TEMP ALARM AMPL
74 TEMP ALARM AMPL
90 EMERG HEATER CONTROL MODULE LO
100 HEATER CURRENT AMPL
88 ALARM & BACKUP CONTROL TRANSISTOR
87 PROPORTIONAL CONTROL TRANS STOR
101 ALARM RELAY (K1-3)
94 (FROM TEMP CUT) IMU STANDBY 0 VDC
76 ALARM RELAY (K2-6)
75 TEMP ALARM AMPL
105 IRIG OR PIP LO TEMP IND
(PSA)
56 47 48 57 COMPUTER
49 CDU MOTOR EXCITATION (TRUNNION SHAFT)
38 72 ZERO OPTICS RELAY
15 TO COMPUTER (ZERO OPTICS)
37 (COMPUTER)
36 FROM COMPUTER
16 ROLL (IN)
17 3 ROLL (OUT) LEFT RIGHT
5 4 PITCH (OUT) DOWN UP
18 PITCH (IN)
7 YAW (IN)
6 20 YAW (OUT) LEFT RIGHT
39 OUTPUT-HORIZON PHOTOMETER
27 INPUT LO-HORIZON PHOTOMETER AMPLIFIER
13 INPUT HI-HORIZON PHOTOMETER AMPLIFIER

1014579 G

1/1014579

H 1014579

SYM	REVISIONS 00649 DESCRIPTION	DATE	APPROVAL
A5	Ⓐ REMOVED T1 & S3 CIRCUIT Ⓐ REVISED S10 CIRCUIT & REMD DS1 Ⓐ REMD R3 THRU R8 Ⓐ P1 WAS J1, RENUMBERED P1 Ⓐ REVISED MODE TABLE S16 TDRR 00961	23 APRIL 63	WK
B5	Ⓑ REVISED S9, S20 & S21 CIRCUIT Ⓑ ADDED A2 Ⓑ REVISED S3, S4, S15 & S19 CKT Ⓑ REVISED P1 SIGNAL INFO Ⓑ ADDED DECK "H" TO S16 TDRR 01154	1 MAY 63	WK
C7	Ⓒ REVISED S16 & S1 Ⓒ REVISED NOMENCLATURE TO S7, S8 & S23 Ⓒ ADDED SHIELDING Ⓒ REVISED TERM A1, A2 & T1 Ⓒ REVISED 28VDC CKT Ⓒ REVISED TABLE P/N Ⓒ RENUMBERED P1 TDRR-01497	11 JUNE 63	P.I.C.B.
D13	Ⓓ ADDED E1, Ⓓ DS12 WAS D2, Ⓓ REVISED SW. DECK'S FROM LETTER TO NO. SEQUENCE, Ⓓ REVISED IMU PWR 28VDC CKT, Ⓓ REVISED SHIELDING & ADDED TWISTED CONDUCTORS. Ⓓ ADDED LAMP TO M1 Ⓓ REMOVED P1-94 AS SPARE Ⓓ REVISED A1 TERM., Ⓓ REVISED P/N OF SWITCHES Ⓓ REVISED S11 S16, S22 POSITION BLOCKS Ⓓ REVISED NOTE #4 Ⓓ CHANGED 5V TO 28VDC IN CONDITION LAMPS. Ⓓ UPGRADED FOR CLASS A RELEASE TDRR 02424	31 JULY 63	WK
E2	Ⓔ REMOVED CONNECTIONS OF S21-3-NC & S20-2-NC FROM P1-5 Ⓔ ADDED CONNECTIONS OF S21-3-NC & S20-2-NC TO S20-1-C & S9-8NO. 02522	13 AUG 63	WK.
F21	REVISED PER TDRR NO. 05250	23 DEC 63	WK
G8	REVISED PER TDRR NO. 06165	11 FEB 64	WK
H	REVISED PER TDRR 08490	5 JUN	[illegible]
J	REVISED PER TDRR 08748	11 JUN 64	FK



PLANT DISCONNECT INSPECTION LAMP
DS3
COOLANT DISCONNECT INSPECTION LAMP
DS4
LO
HI
OPTICS MODE
S11
NO
NC
C
A1
SEXTANT HAND CONTROLLER SCHEMATIC 1014540
F2 F3 F4 F1
LOW
MED
HI
S3
SPEED CONTROLLER
G1 G2 G3 G4 G5 G6 G7
DS12
S12 TRACKER
84 6V 400 CPS MODE LAMP TEST
54 400 CPS HI VARIABLE LAMP SUPPLY (FROM D&C ELECT)
10 TRUNNION RESOLVED HI (TO PSA)
25 TRUNNION/SHAFT RESOLVED LO (TO PSA)
24 SHAFT RESOLVED HI (TO PSA)
8
9
22
TRACKER
34 SHAFT DIRECT LO
35 SHAFT DIRECT HI
33 TRUNNION DIRECT LO
19 TRUNNION DIRECT HI
99 COSECANT OPERATE RELAY
(TO PSA)
32
44
MAGAMP CONTROL
CW
R1 1.5K
CCW
S25
S24
S24 & S25 OPERATE AT CCW POSITION OF R1
26 28VDC RETURN (IMU POWER)
63 TO PANEL BRIGHTNESS ELECT
64 (D&C ELECT)
83 SHIELD GRD
91 CHASSIS GRD
E1
RESOLVED
DIRECT
S15 MODE CONTROLLER
S19 ATTITUDE IMPULSE CONTROLLER
A2 RESISTOR MODULE SCHEMATIC 1014590
S22
R2
LAMP
M1
11 PLI HI
12 PLI LOW
14 15 28 43 45 107 108
SPARES
S16 IMU TEMP MODE
P1
TEMP ALARM AMPL MA7A-I (PIN 6)
TEMP ALARM AMPL MA7A-I (PIN 15)
EMERG HEATER CONTROL MODULE LO
HEATER CURRENT AMPL MA20A-I (PIN 5)
ALARM & BACKUP CONTROL TRANSISTOR
PROPORTIONAL CONTROL TRANSISTOR
ALARM RELAY (K1-3)
(FROM TEMP CONT) IMU STANDBY 0VDC
ALARM RELAY (K2-6)
TEMP ALARM AMPL MA7A-I (PIN 14)
IRIG OR PIP LO TEMP IND
(PSA)
COMPUTER
CDU MOTOR (TRUNNION) EXCITATION SHAFT
ZERO OPTICS RELAY
TO COMPUTER
(ZERO OPTICS) COMPUTER FROM COMPUTER
ROLL (IN)
LEFT RIGHT
ROLL (OUT)
DOWN UP
PITCH (OUT)
PITCH (IN)
YAW (IN)
YAW (LEFT) (OUT) RIGHT
OUTPUT-HORIZON PHOTOMETER
INPUT LO-HORIZON PHOTOMETER AMPLIFIER
INPUT HI-HORIZON PHOTOMETER AMPLIFIER

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1014558	SEXTANT HAND CONT			
A2	1014596	RESISTOR MODULE			
DS1	DELETED	LAMP			
DS2	DELETED				
DS3	1010268-2				
DS4	1010268-2				
DS12	1010624-2				
E1	1010638-6	TERMINAL LUG			
M1		METER			
P1	1010347-1	CONNECTOR			
R1	1010764-2	POTENTIOMETER	1.5K		5W
R2		POTENTIOMETER			
R3	DELETED	RESISTOR			
R4					
R5					
R6					
R7					
R8					
S1	1010480-1	SWITCH-PUSH BUTTON			
S2	1010480-2	PUSH BUTTON			
S3	1010478-1	TOGGLE			
S4	1010484-1	TOGGLE			
S7	1010480-1	PUSH BUTTON			
S8	1010480-2	PUSH BUTTON			
S9	1010479-2	TOGGLE			
S10	1010489-1	TOGGLE			
S11	1010494-1	ROTARY			
S12	1010627-2	PUSH BUTTON			
S13	1010480-2	PUSH BUTTON			
S14	1010478-1	TOGGLE			
S15	1010479-1	TOGGLE			
S16	1010417-1	ROTARY			
S17	1010480-1	PUSH BUTTON			
S18	1010478-2	TOGGLE			
S19	1014643	IMPULSE			
S20	1010480-3	PUSH BUTTON			
S21	1010480-3	PUSH BUTTON			
S22	1010417-2	ROTARY			
S23	1010480-2	PUSH BUTTON			
S24	1010435-001				
S25	1010435-001				
T1	1010492	TRANSFORMER			

1▷ S11 OPTICS MODE SWITCH

POSITION	DECK ACTUATED
ZERO OPTICS	1,2
MANUAL	3,4,5,6,7
COMPUTER	8,9,10,11,12

2▷ S16 IMU TEMP MODE SWITCH

POSITION	DECK ACTUATED
AUTO OVERIDE	3,5,6,7
PROPORTIONAL	2,6,7
BACK-UP	1
EMERGENCY	4,8

3▷ S22 HORIZON PHOTOMETER

POSITION	DECK ACTUATED
1	1
2	2
5	3
10	4
20	5
50	6

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. UNLESS OTHERWISE SPECIFIED ALL SWITCH DECKS ARE SHOWN IN THE NORMALLY CLOSED POSITION
3. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
4. 4▷ S12 IS A "PUSH ON" - "PUSH OFF" TYPE SWITCH

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± # DECIMALS ± # ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN R. La Rue DATE 20 MAR 63
CHECKED
APPROVAL
APPROVAL 8/7/63
NASA APPROVAL W. J. 7-27-63
MIT APPROVAL 27 Jan 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

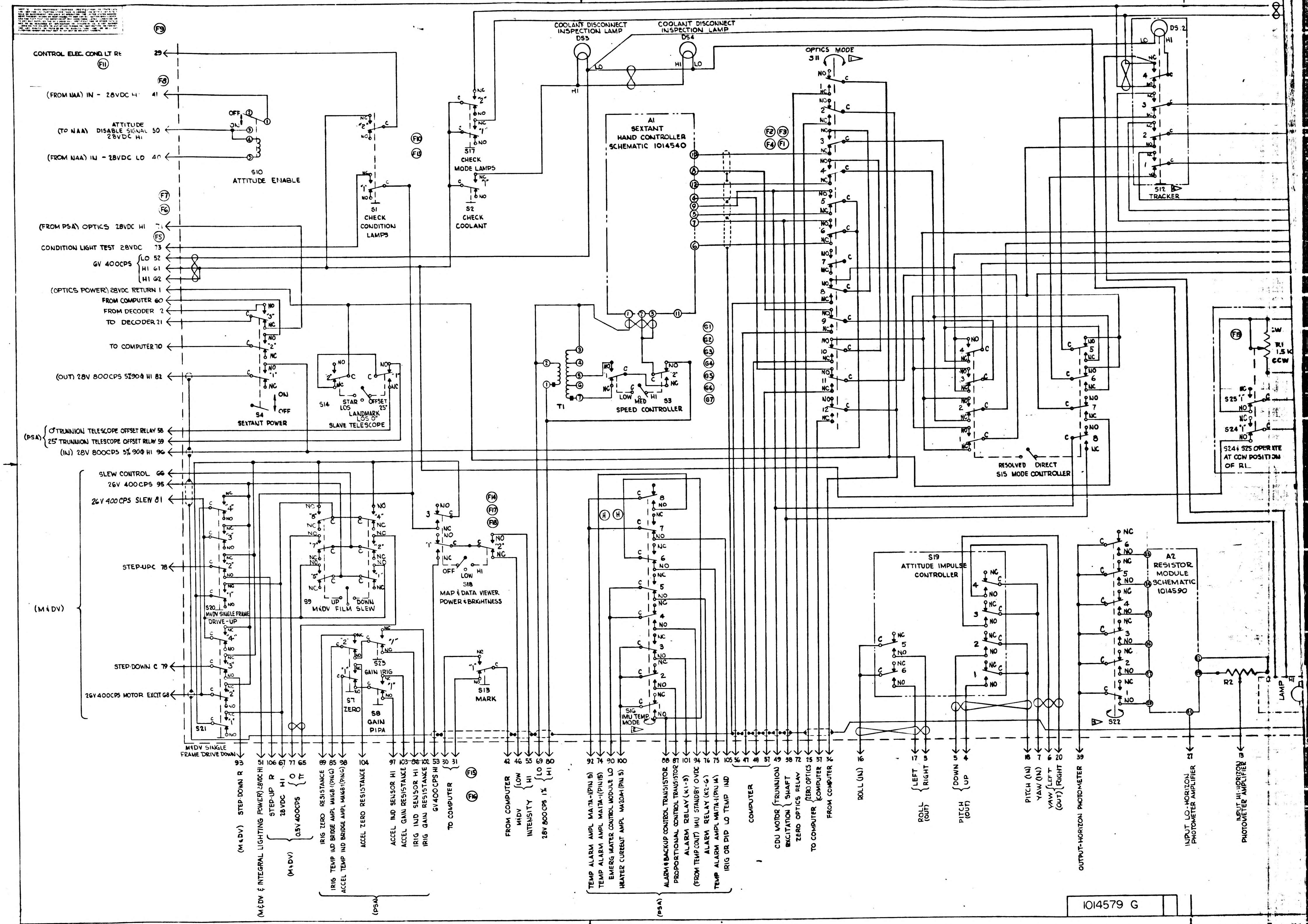
G&N INDICATOR CONTROL PANEL SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE J
NASA DRAWING NO. 1014579
SCALE #
WT
SHEET OF

J 1014579

1014579 G

27 1014579


CONTROL ELEC. COND. LT RE 29
(FROM NAA) IN - 28VDC HI 41
ATTITUDE DISABLE SIGNAL 28VDC HI (TO NAA) 50
(FROM NAA) IN - 28VDC LO 40
S10 ATTITUDE ENABLE
OFF
ON
S1 CHECK CONDITION LAMPS
S17 CHECK MODE LAMPS
S2 CHECK COOLANT
(FROM PSA) OPTICS 28VDC HI 71
CONDITION LIGHT TEST 28VDC 73
6V 400CPS LO 52 HI 61 HI 62
(OPTICS POWER) 28VDC RETURN 1
FROM COMPUTER 60
FROM DECODER 2
TO DECODER 21
TO COMPUTER 70
(OUT) 28V 800CPS 5% 900 HI 82
S4 SEXTANT POWER
S14 STAR LOS
OFFSET 25°
LANDMARK LOS 0°
SLAVE TELESCOPE
(PSA) 0° TRUNNION TELESCOPE OFFSET RELAY 58
25° TRUNNION TELESCOPE OFFSET RELAY 59
(IN) 28V 800CPS 5% 900 HI 96
SLEW CONTROL 66
26V 400CPS 95
26V 400CPS SLEW 81
STEP-UP C 78
(M&DV)
S20 M&DV SINGLE FRAME DRIVE-UP
STEP-DOWN C 79
26V 400CPS MOTOR EXCIT 68
S21 M&DV SINGLE FRAME DRIVE DOWN
S9 M&DV FILM SLEW
UP
DOWN
S23
S7 ZERO
S8 GAIN PIPA
GAIN IRIG
S18 MAP & DATA VIEWER POWER & BRIGHTNESS
OFF LOW HI
S13 MARK
COOLANT DISCONNECT INSPECTION LAMP DS3
COOLANT DISCONNECT INSPECTION LAMP DS4
HI LO
A1 SEXTANT HAND CONTROLLER SCHEMATIC 1014540
T1
LOW MED HI
S3 SPEED CONTROLLER
OPTICS MODE S11
DS 2
S12 TRACKER
RESOLVED DIRECT
S15 MODE CONTROLLER
R1 1.5K
CW
CCW
S25 "1"
S24 "1"
S24 & S25 OPERATE AT CCW POSITION OF R1
S16 IMU TEMP MODE
S19 ATTITUDE IMPULSE CONTROLLER
S22
A2 RESISTOR MODULE SCHEMATIC 1014590
R2
LAMP
F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F13 F14 F15 F16 F17 F18 F19
G1 G2 G3 G4 G5 G6 G7
H H
93 (M&DV) STEP-DOWN R
51 (M&DV & INTEGRAL LIGHTING POWER) 28VDC HI
106 STEP-UP R
67 28VDC HI
77 65 0.5V 400CPS O T
(M&DV)
89 IRIG ZERO RESISTANCE
85 IRIG TEMP IND BRIDGE AMPL MA16B-1 (PIN G)
98 ACCEL TEMP IND BRIDGE AMPL MA16B-1 (PIN G)
104 ACCEL ZERO RESISTANCE
97 ACCEL IND SENSOR HI
103 ACCEL GAIN RESISTANCE
86 IRIG IND SENSOR HI
102 IRIG GAIN RESISTANCE
53 6V 400CPS HI
(PSA)
30 31 TO COMPUTER
42 FROM COMPUTER
46 55 M&DV INTENSITY LOW HI
69 80 28V 800CPS 1% LO HI
92 TEMP ALARM AMPL MA17A-1 (PIN 5)
74 TEMP ALARM AMPL MA17A-1 (PIN 15)
90 EMERG HEATER CONTROL MODULE LO
100 HEATER CURRENT AMPL MA20A-1 (PIN 5)
88 ALARM & BACKUP CONTROL TRANSISTOR
87 PROPORTIONAL CONTROL TRANSISTOR
101 ALARM RELAY (K1-3)
94 (FROM TEMP CONT) IMU STANDBY 0VDC
76 ALARM RELAY (K2-6)
75 TEMP ALARM AMPL MA17A-1 (PIN 14)
105 IRIG OR PIP LO TEMP IND
(PSA)
56 47 48 57 COMPUTER
49 38 CDU MOTOR EXCITATION TRUNNION SHAFT
72 ZERO OPTICS RELAY
25 37 TO COMPUTER ZERO OPTICS COMPUTER
36 FROM COMPUTER
16 ROLL (IN)
17 3 ROLL (OUT) LEFT RIGHT
5 4 PITCH (OUT) DOWN UP
18 PITCH (IN)
7 YAW (IN)
6 20 YAW (OUT) LEFT RIGHT
39 OUTPUT-HORIZON PHOTOMETER
27 INPUT LO-HORIZON PHOTOMETER AMPLIFIER
13 INPUT HI-HORIZON PHOTOMETER AMPLIFIER

1014579 G

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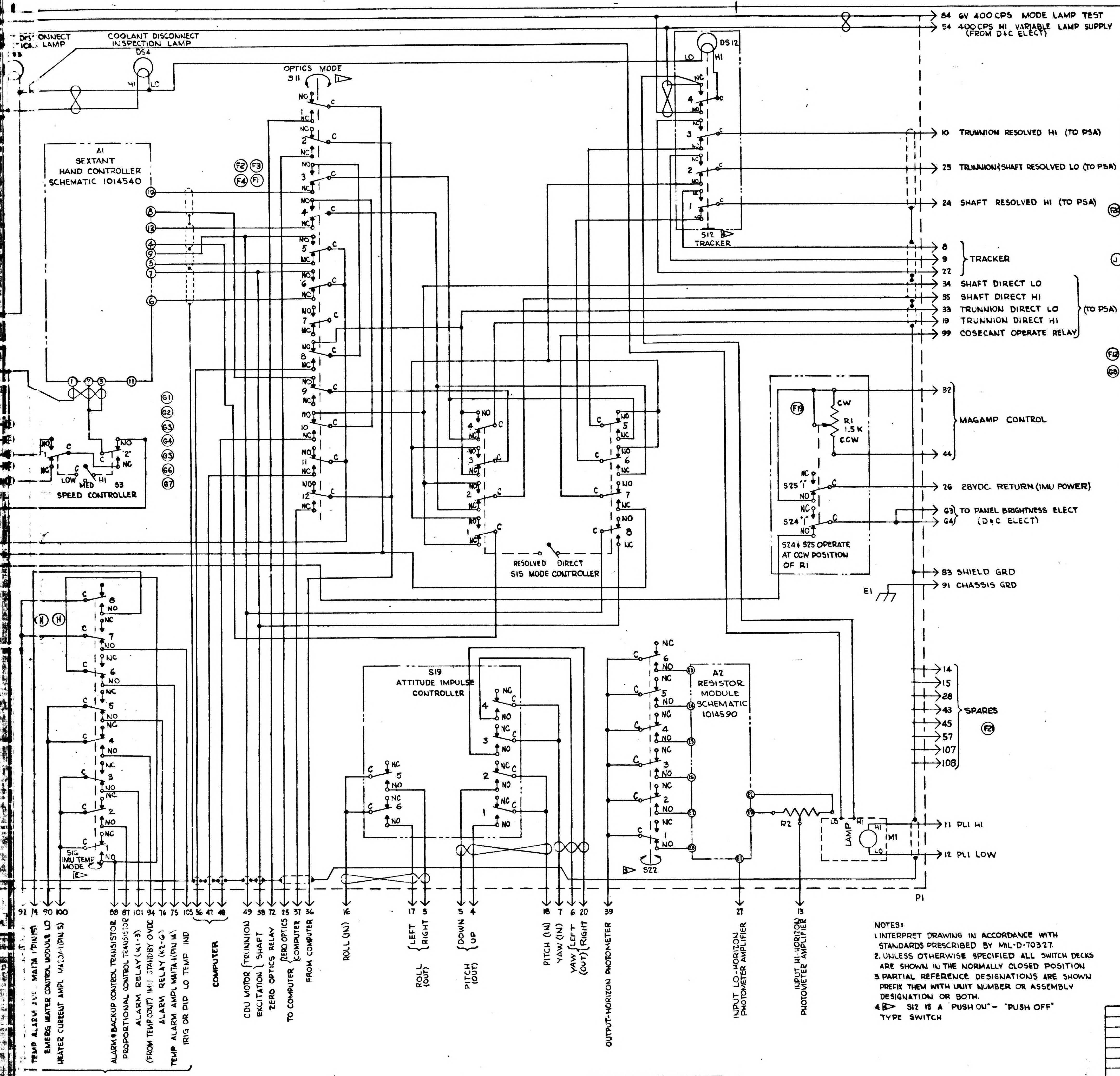

DS3 DISCONNECT LAMP
COOLANT DISCONNECT INSPECTION LAMP
DS4
HI
LO
OPTICS MODE
S11
DS12
S12 TRACKER
A1 SEXTANT HAND CONTROLLER SCHEMATIC 1014540
S3 SPEED CONTROLLER
LOW
MED
HI
84 6V 400CPS MODE LAMP TEST
54 400CPS HI VARIABLE LAMP SUPPLY (FROM D&C ELECT)
10 TRUNNION RESOLVED HI (TO PSA)
25 TRUNNION&SHAFT RESOLVED LO (TO PSA)
24 SHAFT RESOLVED HI (TO PSA)
8
9
22
TRACKER
34 SHAFT DIRECT LO
35 SHAFT DIRECT HI
33 TRUNNION DIRECT LO
19 TRUNNION DIRECT HI
99 COSECANT OPERATE RELAY
(TO PSA)
32
44
MAGAMP CONTROL
CW
R1 1.5K
CCW
S25
S24
S24 & S25 OPERATE AT CCW POSITION OF R1
26 28VDC RETURN (IMU POWER)
G3
G4
TO PANEL BRIGHTNESS ELECT (D&C ELECT)
83 SHIELD GRD
91 CHASSIS GRD
E1
RESOLVED
DIRECT
S15 MODE CONTROLLER
S19 ATTITUDE IMPULSE CONTROLLER
A2 RESISTOR MODULE SCHEMATIC 1014590
S22
R2
LAMP
M1
14
15
28
43
45
57
107
108
SPARES
11 PLI HI
12 PLI LOW
P1
S16 IMU TEMP MODE
92
74 TEMP ALARM AMPL MA17A-1 (PIN 15)
90 EMERG HEATER CONTROL MODULE LO
100 HEATER CURRENT AMPL MA20A-1 (PIN 5)
88 ALARM & BACK-UP CONTROL TRANSISTOR
87 PROPORTIONAL CONTROL TRANSISTOR
101 ALARM RELAY (K1-3)
94 (FROM TEMP CONT) IMU STANDBY OVDC
76 ALARM RELAY (K2-6)
75 TEMP ALARM AMPL MA17A-1 (PIN 14)
105 IRIG OR PIP LO TEMP IND
(PSA)
56
47
48
COMPUTER
49 CDU MOTOR EXCITATION TRUNNION
38 SHAFT
72 ZERO OPTICS RELAY
25 TO COMPUTER ZERO OPTICS
37 COMPUTER
36 FROM COMPUTER
16 ROLL (IN)
17 LEFT
3 RIGHT
ROLL (OUT)
5 DOWN
4 UP
PITCH (OUT)
18 PITCH (IN)
7 YAW (IN)
6 LEFT
20 RIGHT
YAW (OUT)
39 OUTPUT-HORIZON PHOTOMETER
27 INPUT LO-HORIZON PHOTOMETER AMPLIFIER
13 INPUT HI-HORIZON PHOTOMETER AMPLIFIER

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1014558	SEXTANT HAND CONT			
A2	1014596	RESISTOR MODULE			
DS1	DELETED	LAMP			
DS2	DELETED				
DS3	1010268-2				
DS4	1010268-2				
DS12	1010624-2				
E1	1010638-6	TERMINAL LUG			
M1		METER			
P1	1010347-1	CONNECTOR			
R1	1010764-2	POTENTIOMETER	1.5K		5W
R2		POTENTIOMETER			
R3	DELETED	RESISTOR			
R4					
R5					
R6					
R7					
R8					
S1	1010480-1	SWITCH-PUSH BUTTON			
S2	1010480-2	PUSH BUTTON			
S3	1010478-1	TOGGLE			
S4	1010484-1	TOGGLE			
S7	1010480-1	PUSH BUTTON			
S8	1010480-2	PUSH BUTTON			
S9	1010479-2	TOGGLE			
S10	1010489-1	TOGGLE			
S11	1010494-1	ROTARY			
S12	1010627-2	PUSH BUTTON			
S13	1010480-2	PUSH BUTTON			
S14	1010478-1	TOGGLE			
S15	1010479-1	TOGGLE			
S16	1010417-1	ROTARY			
S17	1010480-1	PUSH BUTTON			
S18	1010478-2	TOGGLE			
S19	1014643	IMPULSE			
S20	1010480-3	PUSH BUTTON			
S21	1010480-3	PUSH BUTTON			
S22	1010417-2	ROTARY			
S23	1010480-2	PUSH BUTTON			
S24	1010435-001				
S25	1010435-001				
T1	1010492	TRANSFORMER			

REVISIONS 00649 27 MARCH WK

SYM	DESCRIPTION	DATE	APPROVAL
A5	Ⓐ REMOVED T1 & S3 CIRCUIT Ⓐ REVISED S10 CIRCUIT & REMD DS1 Ⓐ REMD R3 THRU R8 Ⓐ P1 WAS J1, RENUMBERED P1 Ⓐ REVISED MODE TABLE S16 TDRR 00961	23 APRIL 63	WK
B5	Ⓑ REVISED S9, S20 & S21 CIRCUIT Ⓑ ADDED A2 Ⓑ REVISED S3, S4, S15, H & S19 CKT Ⓑ REVISED P1 SIGNAL INFO Ⓑ ADDED DECK "H" TO S16 TDRR 01154	1 MAY 63	WK
C7	Ⓒ REVISED S16 & S1 Ⓒ REVISED NOMENCLATURE TO S7, S8 & S23 Ⓒ ADDED SHIELDING Ⓒ REVISED TERM A1, A2 & T1 Ⓒ REVISED 28VDC CKT Ⓒ REVISED TABLE P/N Ⓒ RENUMBERED P1 TDRR-01491	11 JUNE 63	
D13	Ⓓ ADDED E1, Ⓓ DS12 WAS D2, Ⓓ REVISED SW. DECK'S FROM LETTER TO NO. SEQUENCE, Ⓓ REVISED IMU PWR 28VDC CKT, Ⓓ REVISED SHIELDING & ADDED TWISTED CONDUCTORS. Ⓓ ADDED LAMP TO M1 Ⓓ REMOVED P1-94 AS SPARE Ⓓ REVISED A1 TERM., Ⓓ REVISED P/N OF SWITCHES Ⓓ REVISED S11, S16, S22 POSITION BLOCKS. Ⓓ REVISED NOTE #4 Ⓓ CHANGED 6V TO 28VDC IN CONDITION LAMPS. Ⓓ UPGRADED FOR CLASS A RELEASE TDRR 02424	31 JULY 63	WK
E2	Ⓔ REMOVED CONNECTIONS OF S21-3-NC & S20-2-NC FROM P1-51. Ⓔ ADDED CONNECTIONS OF S21-3-NC & S20-2-NC TO S20-1-C & S9-8NO. 02522	13 AUG 63	WK
F21	REVISED PER TDRR NO. 05250	23 DEC 63	WK
G8	REVISED PER TDRR NO. 06165	11 FEB 64	WK
H	REVISED PER TDRR 08490	5 JUN 64	
J	REVISED PER TDRR 08748	11 JUN 64	
K	REVISED PER TDRR 10950	27 JUL 64	JWP.

1▷ S11 OPTICS MODE SWITCH

POSITION	DECK ACTUATED
ZERO OPTICS	1,2
MANUAL	3,4,5,6,7
COMPUTER	8,9,10,11,12

2▷ S16 IMU TEMP MODE SWITCH

POSITION	DECK ACTUATED
AUTO OVERIDE	3,5,6,7
PROPORTIONAL	2,6,7
BACK-UP	1
EMERGENCY	4,8

3▷ S22 HORIZON PHOTOMETER

POSITION	DECK ACTUATED
1	1
2	2
5	3
10	4
20	5
50	6

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. UNLESS OTHERWISE SPECIFIED ALL SWITCH DECKS ARE SHOWN IN THE NORMALLY CLOSED POSITION
3. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
4. 4▷ S12 IS A "PUSH ON" - "PUSH OFF" TYPE SWITCH

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± #   DECIMALS ± #   ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS

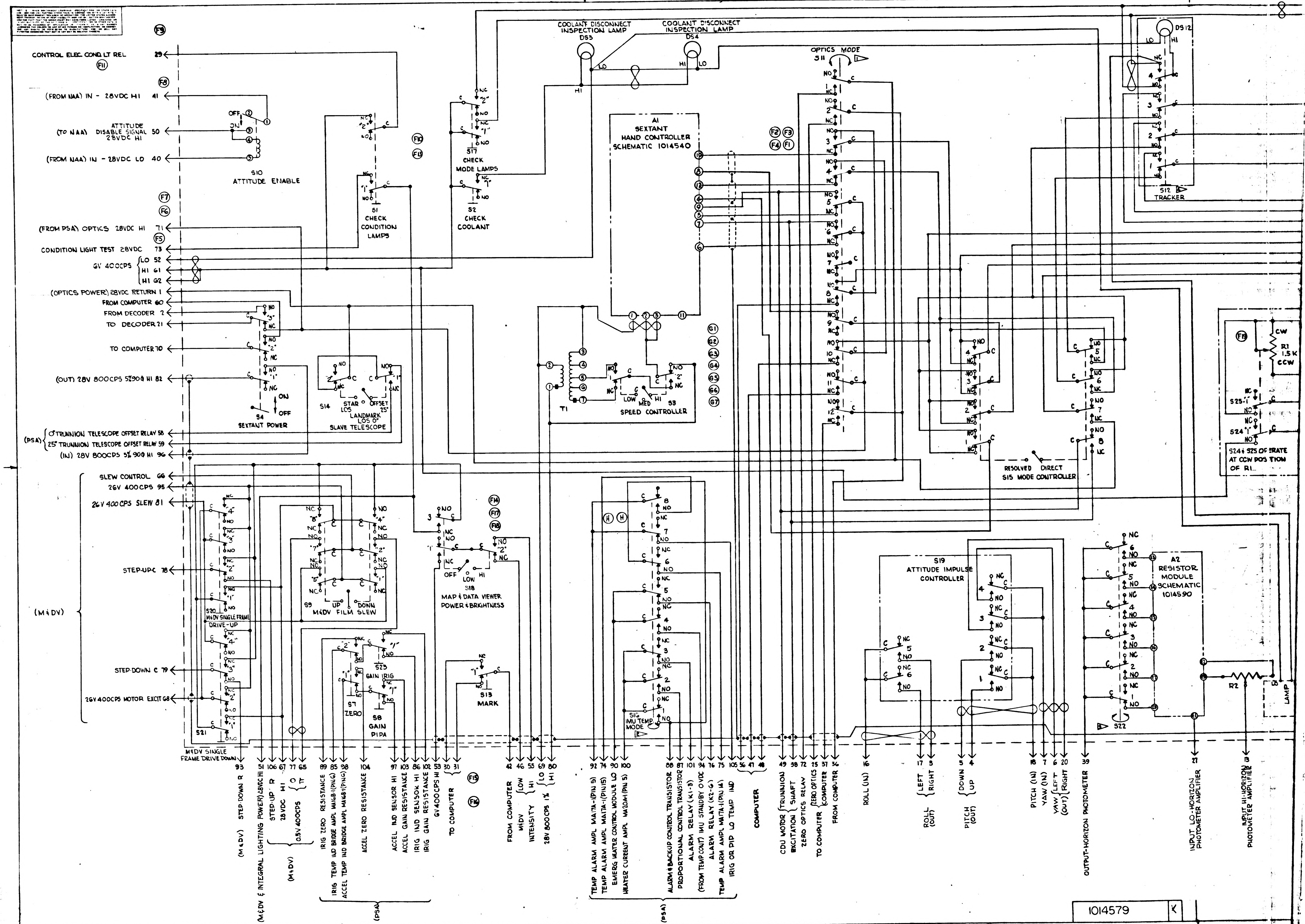
DRAWN   DATE 20 MAR 63
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL 3-27-63
MIT APPROVAL 27 Mar 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

G&N INDICATOR
CONTROL PANEL
SCHEMATIC DIAGRAM

CODE IDENT NO.
SIZE J
NASA DRAWING NO 1014579
SCALE #
WT
SHEET OF

2/1014579

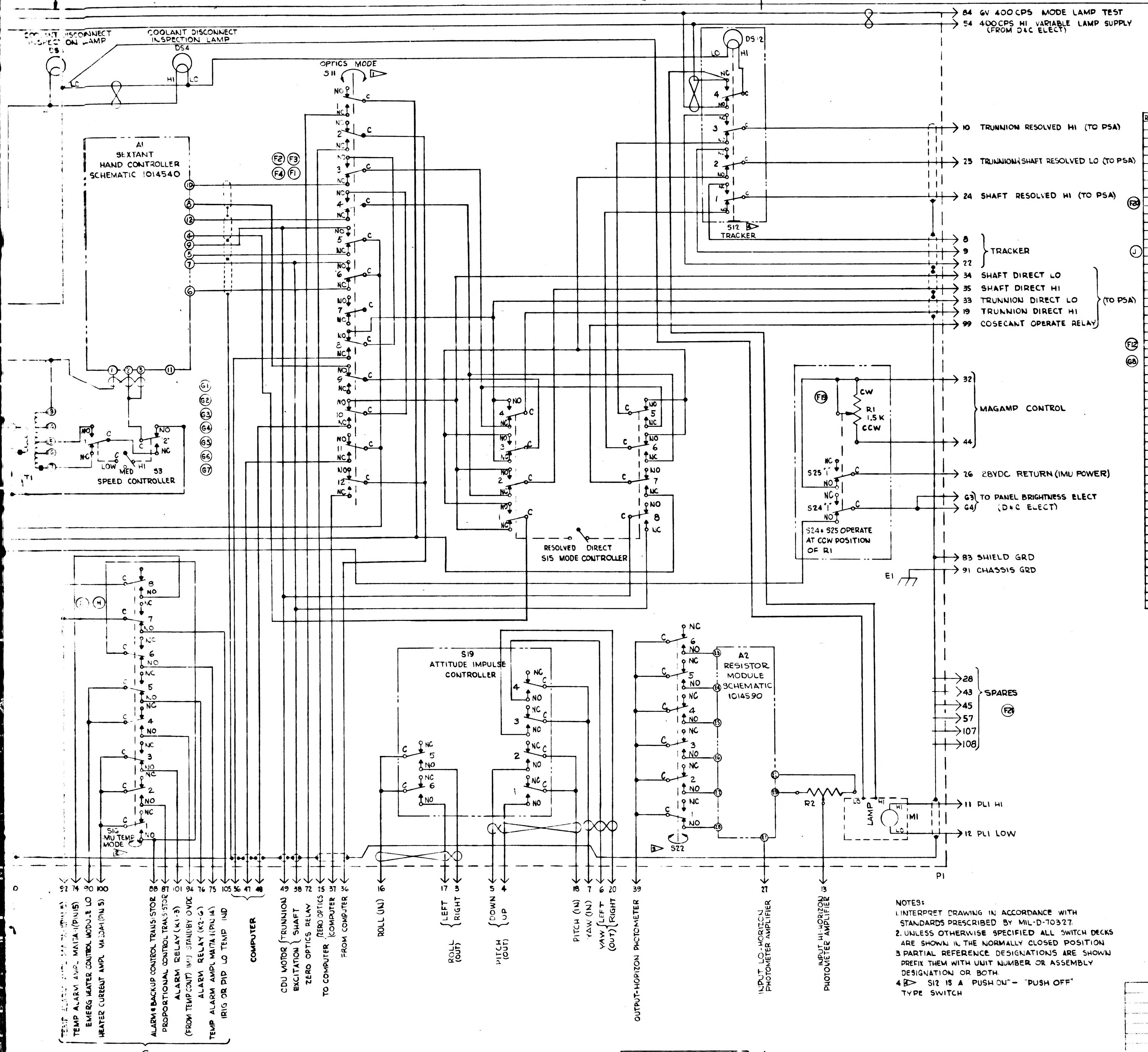

CONTROL ELEC COND LT REL 29
(FROM NAA) IN - 28VDC HI 41
(TO NAA) ATTITUDE DISABLE SIGNAL 28VDC HI 50
(FROM NAA) IN - 28VDC LO 40
S10 ATTITUDE ENABLE
OFF ON
(FROM PSA) OPTICS 28VDC HI 71
CONDITION LIGHT TEST 28VDC 73
6V 400CPS LO 52 HI 61 HI 62
(OPTICS POWER) 28VDC RETURN 1
FROM COMPUTER 60
FROM DECODER 2
TO DECODER 21
TO COMPUTER 70
(OUT) 28V 800CPS 5% 90 0 HI 82
S4 SEXTANT POWER
ON OFF
S14 STAR LOS LANDMARK LOS 0° OFFSET 25° SLAVE TELESCOPE
(PSA) 0° TRUNNION TELESCOPE OFFSET RELAY 58
25° TRUNNION TELESCOPE OFFSET RELAY 59
(IN) 28V 800CPS 5% 90 0 HI 96
SLEW CONTROL 66
26V 400CPS 95
26V 400CPS SLEW 81
STEP-UP C 78
(M&DV)
S20 M&DV SINGLE FRAME DRIVE-UP
STEP-DOWN C 79
26V 400CPS MOTOR EXCIT 68
S21 M&DV SINGLE FRAME DRIVE DOWN
S1 CHECK CONDITION LAMPS
S17 CHECK MODE LAMPS
S2 CHECK COOLANT
COOLANT DISCONNECT INSPECTION LAMP DS3
COOLANT DISCONNECT INSPECTION LAMP DS4
HI LO
A1 SEXTANT HAND CONTROLLER SCHEMATIC 1014540
T1
LOW MED HI S3 SPEED CONTROLLER
OPTICS MODE S11
S12 TRACKER
DS12 LO HI
RESOLVED DIRECT S15 MODE CONTROLLER
R1 1.5 K CW CCW
S24 & S25 OPERATE AT CCW POSITION OF R1.
S9 M&DV FILM SLEW UP DOWN
S18 MAP & DATA VIEWER POWER & BRIGHTNESS OFF LOW HI
S7 ZERO
S23 GAIN IRIG
S8 GAIN PIPA
S13 MARK
SIG IMU TEMP MODE
S19 ATTITUDE IMPULSE CONTROLLER
A2 RESISTOR MODULE SCHEMATIC 1014590
R2 LAMP
S22
F1 F2 F3 F4 F5 F6 F7 F8 F9 F10 F11 F12 F13 F14 F15 F16 F17 F18 F19
G1 G2 G3 G4 G5 G6 G7
93 (M&DV) STEP-DOWN R
51 (M&DV & INTEGRAL LIGHTING POWER) 28VDC HI
106 STEP-UP R
67 28VDC HI
77 65 0.5V 400CPS (M&DV)
89 IRIG ZERO RESISTANCE
85 IRIG TEMP IND BRIDGE AMPL M1(6B (PIN 6)
98 ACCEL TEMP IND BRIDGE AMPL M1(6B (PIN 6)
104 ACCEL ZERO RESISTANCE
97 ACCEL IND SENSOR HI
103 ACCEL GAIN RESISTANCE
86 IRIG IND SENSOR HI
102 IRIG GAIN RESISTANCE
(PSA)
53 6V 400CPS HI
30 31 TO COMPUTER
42 FROM COMPUTER
46 M&DV INTENSITY LOW 55 HI
69 LO 80 HI 28V 800CPS 1%
92 TEMP ALARM AMPL M1A1A-1 (PIN 5)
74 TEMP ALARM AMPL M1A1A-1 (PIN 15)
90 EMERG HEATER CONTROL MODULE LO
100 HEATER CURRENT AMPL M1A2A-1 (PIN 5)
88 ALARM & BACKUP CONTROL TRANSISTOR
87 PROPORTIONAL CONTROL TRANSISTOR
101 ALARM RELAY (K1-3)
94 (FROM TEMP CONT) IMU STANDBY 0VDC
76 ALARM RELAY (K3-G)
75 TEMP ALARM AMPL M1A1A-1 (PIN 14)
105 IRIG OR PIP LO TEMP IND
36 47 48 COMPUTER
49 CDU MOTOR EXCITATION (TRUNNION SHAFT)
58 ZERO OPTICS RELAY
72 TO COMPUTER
25 ZERO OPTICS
37 COMPUTER
34 FROM COMPUTER
16 ROLL (IN)
17 LEFT 3 RIGHT ROLL (OUT)
5 DOWN 4 UP PITCH (OUT)
18 PITCH (IN)
7 YAW (IN)
6 LEFT 20 RIGHT YAW (OUT)
39 OUTPUT-HORIZON PHOTOMETER
27 INPUT LO-HORIZON PHOTOMETER AMPLIFIER
13 INPUT HI-HORIZON PHOTOMETER AMPLIFIER

1014579	K

1/1014579

1014579 L

SYM	DESCRIPTION	DATE	
A5	(A1) REVISED T1 & S3 CIRCUIT (A2) REVISED S10 CIRCUIT & REMD DS1 (A3) REMD R3 THRU R8 (A4) P1 WAS J1, RENUMBERED P1 (A5) REVISED MODE TABLE S16 TDRR 00961	23 APRIL 63	WK.
B5	(B1) REVISED S9, S20 & S21 CIRCUIT (B2) ADDED A2 (B3) REVISED S3, S4, S15, S16 & S19 CKT (B4) REVISED P1 SIGNAL INFO (B5) ADDED DECK "H" TO S16 TDRR 01154	1 MAY 63	WK
C7	(C1) REVISED S16 & S1 (C2) REVISED NOMENCLATURE TO S7, S8 & S23 (C3) ADDED SHIELDING (C4) REVISED TERM A1, A2 & T1 (C5) REVISED 28VDC CKT (C6) REVISED TABLE P/N (C7) RENUMBERED P1 TDRR-01497	11 JUNE 63	R.B.
D13	(D1) ADDED E1, (D2) DS12 WAS DS2, (D3) REVISED SW. DECK'S FROM LETTER TO NO. SEQUENCE, (D4) REVISED IMU PWR 28VDC CKT, (D5) REVISED SHIELDING & ADDED TWISTED CONDUCTORS. (D6) ADDED LAMP TO M1 (D7) REMOVED P1-94 AS SPARE (D8) REVISED A1 TERM., (D9) REVISED P/N OF SWITCHES (D10) REVISED S11, S16, S22 POSITION BLOCKS. (D11) REVISED NOTE #4 (D12) CHANGED 6V TO 28VDC IN CONDITION LAMPS. (D13) UPGRADED FOR CLASS A RELEASE TDRR 02424	31 JULY 63	WK.
E2	(E1) REMOVED CONNECTIONS OF S21-3-NC & S20-2-NC FROM P1-51. (E2) ADDED CONNECTIONS OF S21-3-NC & S20-2-NC TO S20-1-C & S9-8NO. 02522	13 AUG 63	WK.
F21	REVISED PER TDRR NO. 05250	23 DEC 63	WK
G8	REVISED PER TDRR NO. 06165	11 FEB 64	WK
H	REVISED PER TDRR 08490	5 JUN 64	
J	REVISED PER TDRR 08748	11 JUN 64	
K	REVISED PER TDRR 10950	27 JUL 64	J.E.G.
L	REVISED PER TDRR NO. 14371	24 NOV 64	



COOLANT DISCONNECT INSPECTION LAMP
DS3
LO
COOLANT DISCONNECT INSPECTION LAMP
DS4
HI
LO
OPTICS MODE
S11
NO
NC
C
A1
SEXTANT HAND CONTROLLER SCHEMATIC 1014540
F2
F3
F4
F1
10
8
12
4
9
5
7
6
1
2
3
11
G1
G2
G3
G4
G5
G6
G7
T1
LOW
MED
HI
S3
SPEED CONTROLLER
DS12
TRACKER
S12
84 6V 400CPS MODE LAMP TEST
54 400CPS HI VARIABLE LAMP SUPPLY (FROM D&C ELECT)
10 TRUNNION RESOLVED HI (TO PSA)
25 TRUNNION & SHAFT RESOLVED LO (TO PSA)
24 SHAFT RESOLVED HI (TO PSA)
8
9
22
TRACKER
34 SHAFT DIRECT LO
35 SHAFT DIRECT HI
33 TRUNNION DIRECT LO
19 TRUNNION DIRECT HI
99 COSECANT OPERATE RELAY
(TO PSA)
32
44
MAGAMP CONTROL
CW
R1
1.5K
CCW
F18
S25
S24
26 28VDC RETURN (IMU POWER)
G3
G4
TO PANEL BRIGHTNESS ELECT (D&C ELECT)
S24 & S25 OPERATE AT CCW POSITION OF R1
RESOLVED
DIRECT
S15 MODE CONTROLLER
83 SHIELD GRD
91 CHASSIS GRD
E1
28
43
45
57
107
108
SPARES
F21
S19
ATTITUDE IMPULSE CONTROLLER
A2
RESISTOR MODULE SCHEMATIC 1014590
R2
LAMP
M1
11 PL1 HI
12 PL1 LOW
S16
IMU TEMP MODE
S22
P1
92
74
90
100
TEMP ALARM AMPL MA1TA-1 (PIN 6)
TEMP ALARM AMPL MA1TA-1 (PIN 15)
EMERG HEATER CONTROL MODULE LO
HEATER CURRENT AMPL MA20A-1 (PIN 5)
88
87
101
94
76
75
105
ALARM & BACKUP CONTROL TRANSISTOR
PROPORTIONAL CONTROL TRANSISTOR
ALARM RELAY (K1-3)
(FROM TEMP CONT) IMU STANDBY OVDC
ALARM RELAY (K2-6)
TEMP ALARM AMPL MA1TA-1 (PIN 14)
IRIG OR PID LO TEMP IND
(PSA)
56
47
48
COMPUTER
49
38
72
25
37
36
CDU MOTOR EXCITATION TRUNNION
SHAFT
ZERO OPTICS RELAY
TO COMPUTER ZERO OPTICS
COMPUTER
FROM COMPUTER
16
ROLL (IN)
17
3
LEFT
RIGHT
ROLL (OUT)
5
4
DOWN
UP
PITCH (OUT)
18
7
6
20
PITCH (IN)
YAW (IN)
YAW (OUT) LEFT
RIGHT
39
OUTPUT-HORIZON PHOTOMETER
27
INPUT LO-HORIZON PHOTOMETER AMPLIFIER
13
INPUT HI-HORIZON PHOTOMETER AMPLIFIER

REF DES	PART NO	DESCRIPTION	VALUE	TOL	RATING
A1	1014558	SEXTANT HAND CONT			
A2	1014596	RESISTOR MODULE			
DS1	DELETED	LAMP			
DS2	DELETED				
DS3	1010268-2				
DS4	1010268-2				
DS12	1010624-2				
E1	1010638-6	TERMINAL LUG			
M1		METER			
P1	1010347-1	CONNECTOR			
R1	1010764-2	POTENTIOMETER	1.5K		5W
R2		POTENTIOMETER			
R3	DELETED	RESISTOR			
R4					
R5					
R6					
R7					
R8					
S1	1010480-3	SWITCH PUSH BUTTON			
S2	1010480-2	PUSH BUTTON			
S3	1010478-1	TOGGLE			
S4	1010484-1	TOGGLE			
S7	1010480-1	PUSH BUTTON			
S8	1010480-2	PUSH BUTTON			
S9	1010479-2	TOGGLE			
S10	1010489-1	TOGGLE			
S11	1010494-1	ROTARY			
S12	1010627-2	PUSH BUTTON			
S13	1010480-2	PUSH BUTTON			
S14	1010478-1	TOGGLE			
S15	1010479-1	TOGGLE			
S16	1010417-1	ROTARY			
S17	1010480-1	PUSH BUTTON			
S18	1010478-2	TOGGLE			
S19	1014643	IMPULSE			
S20	1010480-3	PUSH BUTTON			
S21	1010480-3	PUSH BUTTON			
S22	1010417-2	ROTARY			
S23	1010480-2	PUSH BUTTON			
S24	1010435-001				
S25	1010435-001				
T1	1010492	TRANSFORMER			

1 S11 OPTICS MODE SWITCH

POSITION	DECK ACTUATED
ZERO OPTICS	1, 2
MANUAL	3, 4, 5, 6, 7
COMPUTER	8, 9, 10, 11, 12

2 S16 IMU TEMP MODE SWITCH

POSITION	DECK ACTUATED
AUTO OVERIDE	3, 5, 6, 7
PROPORTIONAL	2, 6, 7
BACK-UP	1
EMERGENCY	4, 8

3 S22 HORIZON PHOTOMETER

POSITION	DECK ACTUATED
1	1
2	2
5	3
10	4
20	5
50	6

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. UNLESS OTHERWISE SPECIFIED ALL SWITCH DECKS ARE SHOWN IN THE NORMALLY CLOSED POSITION
3. PARTIAL REFERENCE DESIGNATIONS ARE SHOWN PREFIX THEM WITH UNIT NUMBER OR ASSEMBLY DESIGNATION OR BOTH.
4. 4 S12 IS A "PUSH ON" – "PUSH OFF" TYPE SWITCH

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± #
DECIMALS ± #
ANGLES ± #
DO NOT SCALE THIS DRAWING
MATERIAL #
HEAT TREATMENT #
FINAL FINISH #
NEXT ASSY
USED ON

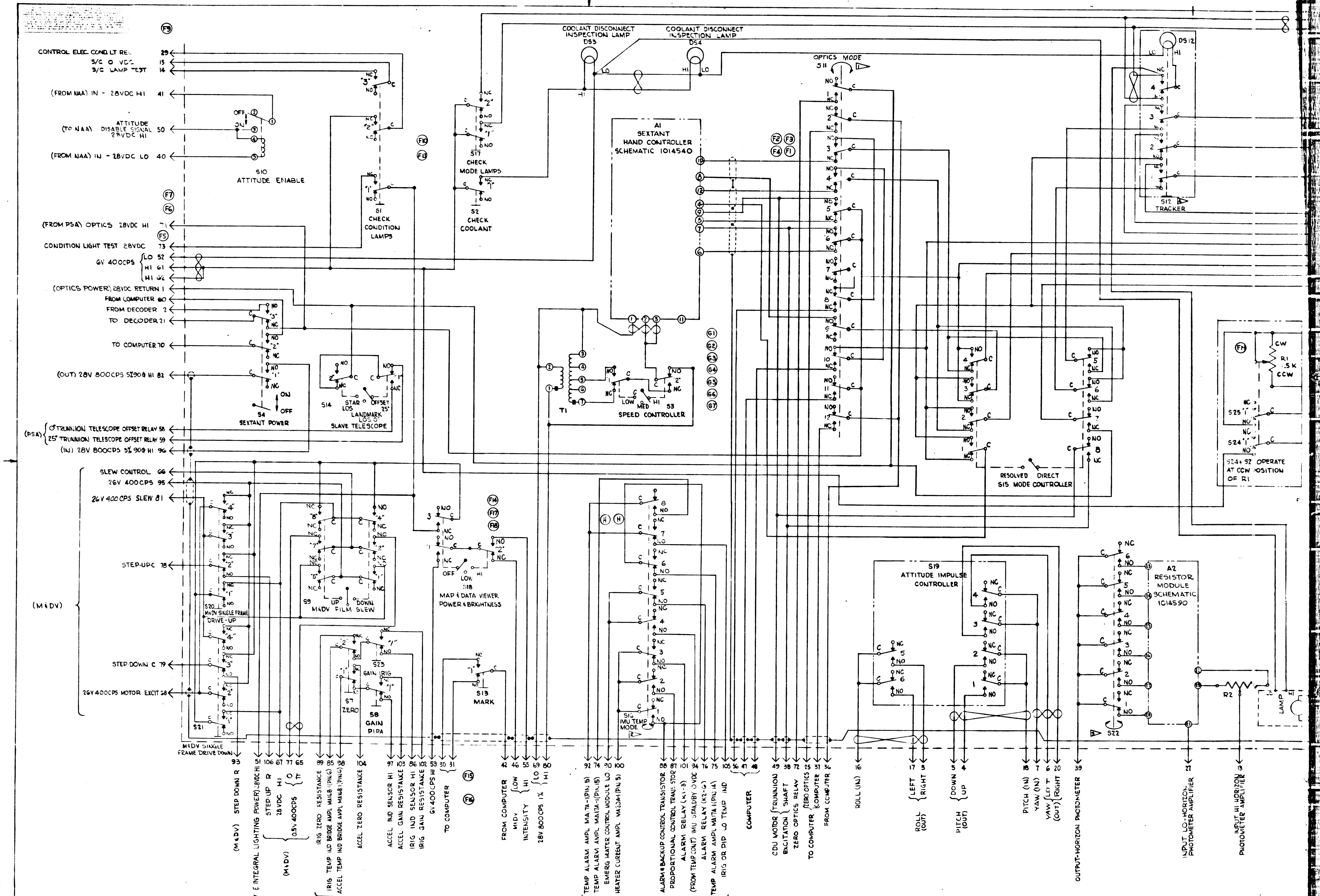
M I T
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN R. La Rue DATE 20 MAR 63
CHECKED
APPROVAL
APPROVAL 7-27-63
NASA APPROVAL 7-27-63
MIT APPROVAL W Kupfer 27 Mar 63

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

G&N INDICATOR CONTROL PANEL
SCHEMATIC DIAGRAM

CODE IDENT NO
SIZE J
NASA DRAWING NO 1014579
SCALE #

27101 4579


CONTROL ELEC. COND. LT RET 29
S/C 0 VDC 15
S/C LAMP TEST 14
(FROM NAA) IN - 28VDC HI 41
ATTITUDE DISABLE SIGNAL 28VDC HI (TO NAA) 50
(FROM NAA) IN - 28VDC LO 40
S10 ATTITUDE ENABLE
OFF
ON
(FROM PSA) OPTICS 28VDC HI 71
CONDITION LIGHT TEST 28VDC 73
6V 400CPS LO 52 HI 61 HI 62
(OPTICS POWER) 28VDC RETURN 1
FROM COMPUTER 60
FROM DECODER 2
TO DECODER 21
TO COMPUTER 70
(OUT) 28V 800CPS 5%900 HI 82
S4 SEXTANT POWER
(PSA) 0° TRUNNION TELESCOPE OFFSET RELAY 58
25° TRUNNION TELESCOPE OFFSET RELAY 59
(IN) 28V 800CPS 5%900 HI 96
SLEW CONTROL 66
26V 400CPS 95
26V 400CPS SLEW 81
STEP-UP C 78
(M&DV)
STEP DOWN C 79
26V 400CPS MOTOR EXCIT 68
S20 M&DV SINGLE FRAME DRIVE-UP
S21
M&DV SINGLE FRAME DRIVE DOWN
S1 CHECK CONDITION LAMPS
S17 CHECK MODE LAMPS
S2 CHECK COOLANT
S14 STAR LOS LANDMARK LOS 0° OFFSET 25° SLAVE TELESCOPE
COOLANT DISCONNECT INSPECTION LAMP DS3
COOLANT DISCONNECT INSPECTION LAMP DS4
A1 SEXTANT HAND CONTROLLER SCHEMATIC 1014540
T1
LOW MED HI S3 SPEED CONTROLLER
OPTICS MODE S11
DS12
S12 TRACKER
RESOLVED DIRECT S15 MODE CONTROLLER
CW R1 .5K CCW
S25
S24
S24 & S25 OPERATE AT CCW POSITION OF R1
S9 M&DV FILM SLEW UP DOWN
S18 MAP & DATA VIEWER POWER & BRIGHTNESS OFF LOW HI
S7 ZERO
S8 GAIN PIPA
S23 GAIN IRIG
S13 MARK
S16 IMU TEMP MODE
S19 ATTITUDE IMPULSE CONTROLLER
A2 RESISTOR MODULE SCHEMATIC 1014590
R2
LAMP
S22
F1 F2 F3 F4 F5 F6 F7 F9 F10 F13 F14 F15 F16 F17 F18 F19
G1 G2 G3 G4 G5 G6 G7
H H
93 STEP DOWN R (M&DV)
51 (M&DV & INTEGRAL LIGHTING POWER) 28VDC HI
106 STEP-UP R
67 28VDC HI
77 65 0.5V 400CPS 0 ⊤ (M&DV)
89 IRIG ZERO RESISTANCE
85 IRIG TEMP IND BRIDGE AMPL MA16B (PIN G)
98 ACCEL TEMP IND BRIDGE AMPL MA16B (PIN G)
104 ACCEL ZERO RESISTANCE
97 ACCEL IND SENSOR HI
103 ACCEL GAIN RESISTANCE
86 IRIG IND SENSOR HI
102 IRIG GAIN RESISTANCE
(PSA)
53 6V 400CPS HI
30 31 TO COMPUTER
42 FROM COMPUTER
46 55 M&DV INTENSITY LOW HI
69 80 28V 800CPS 1% LO HI
92 TEMP ALARM AMPL MA7A-1 (PIN 5)
74 TEMP ALARM AMPL MA11A-1 (PIN 5)
90 EMERG HEATER CONTROL MODULE LO
100 HEATER CURRENT AMPL MA12A (PIN 5)
88 ALARM & BACKUP CONTROL TRANSISTOR
87 PROPORTIONAL CONTROL TRANS. STOR
101 ALARM RELAY (K1-3)
94 (FROM TEMP CONT) IMU STANDBY 0 VDC
76 ALARM RELAY (K2-G)
75 TEMP ALARM AMPL MA11A 1 (PIN 14)
105 IRIG OR PIP LO TEMP IND
(PSA)
56 47 48 COMPUTER
49 CDU MOTOR TRUNNION
38 EXCITATION SHAFT
72 ZERO OPTICS RELAY
25 TO COMPUTER (ZERO OPTICS)
37 COMPUTER
36 FROM COMPUTER
16 ROLL (IN)
17 3 LEFT RIGHT ROLL (OUT)
5 4 DOWN UP PITCH (OUT)
18 PITCH (IN)
7 YAW (IN)
6 20 YAW LEFT RIGHT (OUT)
39 OUTPUT-HORIZON PHOTOMETER
27 INPUT LO-HORIZON PHOTOMETER AMPLIFIER
13 INPUT HI HORIZON PHOTOMETER AMPLIFIER

1014579 L

17 1014579

G H 9DA1 A 1014580

PENNANT GENERAL NOTES

NOTE

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK CONDUCTOR IDENTIFICATION OMITTING ALL SUFFIX LETTERS EXCEPT A,B,C, AND D PER NO . (ES-2479-7)

5 TAPE HARNESS USING NO . 3/4 INCH WIDE (ES-2716-2 WHITE)

6 SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 16 AND 17

7 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

8 GRID MODULE IS 1 INCH.

9 UNLESS OTHERWISE SPECIFIED -
FEATURE CENTERLINES ARE LOCATED WITHIN + OR - 1/4 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - 1/8 INCH

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

~~11 [illegible] NOTES.~~

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING OR CONDUCTOR COLOR.
A - FROM END SHIELD
B - TO END SHIELD
L - BLUE
R - RED
W - WHITE

13 INSTALL CRIMP STYLE TERMINALS IN ACCORDANCE WITH NAV ORD INST 9020.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE A	1014580	
SCALE NONE	REV LTR C	SHEET 2 OF 20

G H 9DA1 A 1014580

PENNANT GENERAL NOTES

NOTE

14 BIND WIRES TOGETHER USING NO . FORM 5 OR 7 LOCK STITCH AT 1/2 INCH SPACING

15 TWIST CONDUCTORS A1,A2 AND A3 APPROX 6 TURNS PER FOOT
16- TWIST CONDUCTORS A32 AND A33 APPROX 6 TURNS PER FOOT
17- TWIST CONDUCTORS A38 AND A39 APPROX 6 TURNS PER FOOT
18- TWIST CONDUCTORS A60 AND A61 APPROX 6 TURNS PER FOOT
19- TWIST CONDUCTORS A63 A64 AND A65 APPROX 6 TURNS PER FOOT
20- TWIST CONDUCTORS A66,A67,A68,A70 AND A80 APPROX 6 TURNS PER FOOT
21- TWIST CONDUCTORS A90 AND A91 APPROX 6 TURNS PER FOOT
~~22- TWIST CONDUCTORS A92 AND A93 APPROX 6 TURNS PER FOOT~~
23- TWIST CONDUCTORS A94 AND A95 APPROX 6 TURNS PER FOOT
24- TWIST CONDUCTORS A97 AND A98 APPROX 6 TURNS PER FOOT
25- TWIST CONDUCTORS A99 AND A100 APPROX 6 TURNS PER FOOT
26- TWIST CONDUCTORS A112 AND A113 APPROX 6 TURNS PER FOOT
27- TWIST CONDUCTORS A130,A131 AND A132 APPROX 6 TURNS PER FOOT
28- TWIST CONDUCTORS A134,A135 AND A136 APPROX 6 TURNS PER FOOT
29- TWIST CONDUCTORS A138,A139 AND A140 APPROX 6 TURNS PER FOOT
30- TWIST CONDUCTORS A66,A68,A72 AND A73 APPROX 6 TURNS PER FOOT

31 PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 9DA1

32 CONDUCTOR LENGTHS ARE FOR MFG. REF ONLY

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE A	1014580	
SCALE NONE	REV LTR A	SHEET 3 OF 20

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014518		A	COMPLETELY REVISED		
		B	REVISED WIRE LENGTH TOTALS (SHEET 8)	63	JRS
		C,	Ⓒ UPGRADED FOR CLASS A RELEASE	5 Aug 63	

REV STATUS OF SHEETS																				
REV	C	C	A	A	B	A	A	A	A	A	A	A	C	A	A	A	A	A	C	A
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
CONTRACT NAS9-495

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
G&N INDICATOR CONTROL PANEL

CODE IDENT NO.	SIZE		REV
		1014580	C
SCALE —		SHEET 1 OF 20	

G H 9DA1 A 1014580

PENNANT GENERAL NOTES

NOTE

33 TOLERANCE CHART. UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.00	+.06-.00	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

SIZE A	1014580	
SCALE NONE	REV LTR A	SHEET 4 OF 20

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

S H 50A1 A 1014980

PERMANENT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	17	AR	QQ-S-571	FLUX AR (ES-2179 TYPE 1 OR 2) OR MIL 14256 FLUX (ES-2790)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014980

SCALE NONE | REV LTR A | SHEET 6 OF 20

S H 50A1 A 1014980

PERMANENT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014980- 1	WIRE PER MO1002108 TYPE 6, WHT JKT 24AWG WHT, 17 FT 10 IN TOTAL LENGTH
	2	1	1014980- 2	WIRE PER MO1002108 TYPE 7-2, WHT JKT 24AWG WHITE, RED, 13 FT 6 IN TOTAL LENGTH
	3	1	1014980- 3	WIRE PER MO1002108 TYPE 7-3, WHT JKT 24AWG WHITE, RED, BLUE, 7 FT 10 IN TOTAL LENGTH
	4	1	1014980- 4	WIRE PER MO1002108 TYPE 1, 24AWG WHITE, ~~[illegible]~~ 130 FT ~~[illegible]~~ 5 IN TOTAL LENGTH
	5	1	1014980- 5	WIRE PER MO1002108 TYPE 1, 22AWG WHITE, 4 FT 3 IN TOTAL LENGTH
	6	10	1010490-170	INSULATION SLEEVING HEAT SHRINK
	7	5	1010490-160	INSULATION SLEEVING HEAT SHRINK
	8	~~[illegible]~~ 125	1010490-052	INSULATION SLEEVING HEAT SHRINK
	9	27	1010490-050	INSULATION SLEEVING HEAT SHRINK
	10	16	1010402- 1	SOLDER SLEEVE
	11	12	1010402- 2	SOLDER SLEEVE
	12	13	1010490-172	INSULATION SLEEVING HEAT SHRINK
	13	6		SOLDER SLEEVE (DEAD END)
~~[illegible]~~	14	108	1010464-001	CONTACT ELECTRICAL
16	15	1	1010467- 1	CONNECTOR, PLUG, ELECTRICAL
	16	AR	QQ-S-571	SOLDER SN60 (ES-2179 ALLOY 1)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014980

SCALE NONE | REV LTR C | SHEET 5 OF 20

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6 H 50A1 A 1014980

	CONDUCTOR INDIVIDUAL LENGTH NUMBER	ITEM NO	1	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	1	2	TERMINATION SPEC ITEM NO	1	NO	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	1	2	TERMINATION SPEC ITEM NO	1	NO
A	1	4	1100	A1- 1	25W		6		21	T1- 3	25W				22
A	2	4	1400	A1- 2	25W		6		21	S3-3-C	25W		6		47
A	3	4	1400	A1- 3	25W		6		21	S3-2-C	25W		6		47
A	4	2	1800		450	475	6	7A			750	725	11	6A	
A	4A	4	60U	2	25W				40	SHLD A4	25W				
A	4B			A1-12	25W		6		21	S11-4-NC	25W		6		27
A	4C			A1- 4	25W	200	6		21	S11-11-NO	25W	200	6		26
A	5	2	1750		250	275	6	7A			750	725	11	6A	
A	5A	4	60U	2	25W				40	SHLD A5	25W				
A	5B			A1-10	25W		6		21	S11-5-NC	25W		6		27
A	5C			A1- 8	25W		6		21	S11-4-NO	25W	100	6		26
A	6	2	1400		250	275	6	7A			350	325	11	6A	
A	6A	4	60U	2	25W				40	SHLD A6	25W				
A	6B			A1- 5	25W		6		21	S11-5-NC	25W		6		27
A	6C			A1- 9	25W		6		21	S11-5-NO	25W		6		27
A	7	2	1400		250	275	6	7A			350	325	11	6A	
A	7A	4	60U	2	25W				40	SHLD A7	25W				
A	7B			A1- 6	25W		6		21	S11-6-NC	25W		6		27

1 > THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014980

SCALE NONE | REV LTR A | SHEET 7 OF 20

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6 H 50A1 A 1014980

	CONDUCTOR INDIVIDUAL LENGTH NUMBER	ITEM NO	1	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	1	2	TERMINATION SPEC ITEM NO	1	NO	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	1	2	TERMINATION SPEC ITEM NO	1	NO
A	7C			A1- 7	25W		6		21	S11-6-NO	25W		6		27
A	8	4	2400		450	475	11	6A			350	375	6	7A	
A	8A	4	60U	SHLD A8	25W					A8	25W				51
A	8B			P1- 80	12W		14		1	T1- 1	25W		6		22
A	8C			P1- 69	12W		14		1	T1- 2	25W				22
A	9	4	1000	S3-2-NO	25W				47	T1- 1	25W				22
A	10	4	1000	S3-1-NC	25W		6		47	T1- 7	25W		6		22
A	11	4	1000	S3-1-NO	25W		6		47	T1- 5	25W		6		22
A	12	4	1000	S3-4-NO	25W		6		47	T1- 4	25W		6		22
A	13	4	1000	S3-4-NC	25W		6		47	T - 6	25W		6		22
A	14	4	700	P1- 92	12W		14		1	S10-7-C	25W				36
A	15	4	850	P1- 76	12W		14		1	S10-6	25W		6		36
A	16	4	650	P1- 90	12W		14		1	S10-4-C	25W				36
A	17	4	750	P1-100	12W		14		1	S10-3-C	25W				36
A	18	4	750	P1- 88	12W		14		1	S10-1-NO	25W		6		36
A	19	4	750	P1- 87	12W		14		1	S10-2-NO	25W		6		36
A	20	4	750	P1-101	12W		14		1	S10-3-NO	25W		6		36
A	21	4	750	P1- 94	12W		14		1	S10-4-NO	25W		6		36

1 > THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014980

SCALE NONE | REV LTR A | SHEET 8 OF 20

INCHES

0 2

PHOTOGRAPHIC SCALE ONLY

6 M 9BA1 A 1014980

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.	
30W			P1- 40	1.2N	14	1	B19-8-C	25Y	8	30	
31	2	1900			10 6A			225 200	12 7A		A
31A	4	600	SHLD A31	25W			34	25N		52	
31W			P1- 30	1.2N	14	1	B19-8-NC	25Y	8	30	
32	4	1000	B19-8-C	25Y		30	B11-9-NO	25Y		27	
33	4	1000	B19-8-NC	25Y		30	B11-6-NO	25Y		27	
34	4	2100	P1- 72	1.2N	14	1	B11-1-NC	25Y	8	27	
35	2	2100		400 275	10 6A			400 275	7 7A		B
35A	4	600	SHLD A35	25W			34	25N		52	
35U			P1- 37	1.2N	14	1	B11-12-NC	25Y	8	28	
35W			P1- 29	1.2N	14	1	B11-2-NC	25Y	8	27	
[illegible]			P1- 26	1.2N	14	1	B11-12-C	25Y	9	28	
36	4	700	B11-12-C	25Y		28	B11-2-C	25Y	8	27	
37	4	2400	P1- 1	1.2N	14	1	B13-7-NC	25Y	9	30	A
38	4	1100	B19-7-NC	25Y		30	B11-1-C	25Y	9	27	
39	4	600	B11-1-C	25Y		27	B14-2-C	25Y	8	29	
40	2	2100		400 275	10 6A			400 275	12 7A		B
41A	4	600	SHLD A41	25W			34	25N		52	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014980
SCALE NONE | REV LTR A | SHEET 10 OF 20

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6 M 9BA1 A 1014980

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.	
61W			P1- 96	1.2N	14	1	B11-9-C	25Y	6	27	
62	4	800	B11-9-C	25Y		27	B11-6-C	25Y	6	27	
63	4	800	B11-6-C	25Y		27	B6-1-NO	25Y	6	26	
64	4	400	B19-6-NC	25Y	6	30	B19-8-NC	25Y	6	26	
65	4	700	B11-4-C	25Y	6	27	B19-8-NC	25Y		26	
66	4	800	B11-11-C	25Y	6	26	B19-1-C	25Y	6	26	
67	4	700	B11-4-NO	25Y	6	27	B11-10-C	25Y	6	26	
68	4	800	B11-10-NO	25Y	6	26	B19-1-NC	25Y	6	26	
69	2	1800		250 225	11 6A			250 225	6 7A		A
69A	4	600	SHLD A49	25Y			24	25W		52	
69R			P1- 35	1.2N	14	1	B13-2-C	25Y	5	27	
69Y			P1- 34	1.2N	14	1	B19-8-NO	25W		26	
90	4	700	B11-3-C	25Y	6	27	B19-6-NC	25Y		26	
91	4	800	B11-9-C	25Y	6	29	B19-9-C	25Y	6	26	
92	4	700	B11-8-NO	25Y	6	26	B19-9-NC	25Y		26	
93	2	1700		250 275	11 6A			250 275	6 7A		A
93A	4	600	SHLD A93	25Y			23	25W		53	
93B			P1- 19	1.2N	14	1	B19-4-C	25W	6	26	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014980
SCALE NONE | REV LTR A | SHEET 11 OF 20

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6 M 9BA1 A 1014980

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.	
22	4	3100	B16-4-NO	25Y		39	B16-8-NO	25Y	8	39	
23	4	700	P1- 76	1.2N	14	1	B16-5-NO	25Y	8	39	
24	4	400	P1- 75	1.2N	14	1	B16-6-NO	25Y	8	39	
25	4	600	P1-105	1.2N	14	1	B16-7-NO	25Y	8	39	
26	2	2400		200 225	10 6A			200 225	12 7A		B
26A	4	600	SHLD A26	25W			23	25N		51	
26W			P1- 50	1.2N	14	1	B11-8-NC	25Y	8	28	
27	2	2000		200 225	10 6A			200 225	12 7A		B
27A	4	600	SHLD A27	25W			23	25N		51	
27W			P1- 47	1.2N	14	1	B11-9-NC	25Y	8	28	
28	2	2000		200 225	10 6A			200 275	12 7A		B
28A	4	600	SHLD A28	25W			23	25N		51	
28W			P1- 48	1.2N	14	1	B11-10-NC	25Y	8	28	
29	2	2100		200 225	10 6A			200 275	12 7A		B
29A	4	600	SHLD A29	25W			23	25N		51	
29W			P1- 57	1.2N	14	1	B11-11-NC	25Y	8	28	
30	2	1900		200 225	10 6A			225 200	12 7A		A
30A	4	600	SHLD A30	25W			24	25N		52	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014980
SCALE NONE | REV LTR A | SHEET 9 OF 20

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6 M 9BA1 A 1014980

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.	
93W			P1- 33	1.2N	14	1	B19-4-NO	25W		26	
94	4	2100	P1- 99	1.2N	14		B19-7-C	25W	6	30	A
95	2	1300		300 475	7 7A			275 300	12 6A		
95B	4	600	2	25W		48	SHLD A95	25W			
95L			B12-3-NO	25Y	6	24	B19-3-C	25Y	6	30	
95R			B12-2-NO	25Y	6	24	B19-3-NO	25Y		26	
95W			B12-1-NO	25Y	6	24	B19-4-C	25W	6	30	
96	2	2200		300 275	10 6A			250 275	7 7A		B
96A	4	600	SHLD A96	25Y			23	25N		51	
96W			P1- 10	1.2N	14	1	B12-3-C	25Y	6	24	
96L			P1- 24	1.2N 50	14	1	B12-1-C	25Y	6	24	
96R			P1- 23	1.2N 25	14	1	B12-2-C	25Y	6	24	
97	2	2200		450 275	11 6A			250 275	7 7A		B
97A	4	600	SHLD A97	25Y			73	25N		51	
97L			P1- 22	1.2N 100	14	4	B12-3-NC	25W	4	24	
97R			P1- 9	1.2N 25	14	1	B12-2-NC	25W	4	24	
97W			P1- 8	1.2N 50	14	1	B12-1-NC	25W	6	24	
98	4	1400	P1- 84	1.2N	14	1	B17-7-NC	25Y	9	49	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014980
SCALE NONE | REV LTR A | SHEET 14 OF 20

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G M 90A1 A 1014580

NUMBER	ITEM NO	LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION ITEM NO	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION ITEM NO	NO.
77	4	1400	P1- 44	1.20	14	1	M1-CCW	25V		90
78	4	1400	P1- 26	1.20	14	1	S29-1-C	25V	8	44
79	4	1400	P1- 63	1.20	14	1	S26-1-C	25V	8	44
80	4	1400	P1- 64	1.20	14	1	S26-1-C	25V		44
81	2	1400		250 225	11	8A		250 225	8	7A
81A	4	600	SHLD A81	25V			13	25N		53
81B			P1- 32	1.20	14	1	M1-LO	25V		7
81C			P1- 33	1.20	14	1	M1-HI	25V		7
82	4	900	P1- 33	1.20	14	1	R2-WIPER	25V	8	4
83	4	1000	P1- 27	1.20	14	1	A2-E1	25V	8	37
84	4	700	P1- 39	1.20	14	1	S22-1-C	25V		43
85	4	1100	J2-LO	25V	8	4	A2-E9	25V	8	36
86	4	1200	J2-HI	25V	8	4	A2-E2	25V	8	38
87	4	1400	P1- 41	1.20	14	1	S10-3-1	25V	8	6
88	4	1400	P1- 50	1.20	14	1	S10-3-3	25V		6
89	4	1400	P1- 36	1.20	14	1	S1-4-NC	25V	8	44
90	4	1900	P1- 59	1.20	14	1	S1-3-NO	25V	8	44
91	4	1900	P1- 43	1.20	14	1	S1-2-NO	25V	8	44

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580 | SCALE NONE | REV LTR A | SHEET 14 OF 20

G M 90A1 A 1014580

NUMBER	ITEM NO	LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION ITEM NO	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION ITEM NO	NO.
59	4	1400	P1- 54	1.20	14	1	S17-1-NC	25V	8	43
60	4	1300	S17-2-NC	25V		43	S12-4-NO	25V	8	24
61	4	1300	S17-1-NC	25V		43	S12-4-NC	25V	8	24
62	4	400	S12-4-C	25V	8	24	DS12-HI	25V	8	23
63	4	1400	S12-4-NC	25V		24	M1 LAMP-HI	25V	8	7
64	4	2500	DS 4-LO	25V	8	20	DS 3-LO	25V	8	5
65	4	2500	DS 4-HI	25V	8	20	DS 3-HI	25V		5
66	4	2400	P1- 92	1.20	14	1	DS12-LO	25V	8	23
67	4	1900	P1- 81	1.20	14	1	S1-3-NC	25V		44
68	4	2400	P1- 82	1.20	14	1	A2-1-C	25V	8	19
69	4	[illegible]	S1-4-C	25V		44	[illegible]	25V		44
70	4	600	S17-2-C	25V		43	S26-1-NO	25V	8	44
71	4	700	S26-1-NO	25V		44	S18-1-NC	25V	8	31
72	4	1400	S18-1-NC	25V		31	A2-1-C	25V		19
73	4	400	DS12-LO	25V		23	DS 4-LO	25V		20
74	4	400	A2-1-NC	25V	8	19	DS 4-HI	25V		20
75	4	1900	P1- 52	1.20	14	1	S29-1-NO	25V	8	44
76	4	400	S29-1-NO	25V		44	M1-CW	25V	8	44

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580 | SCALE NONE | REV LTR C | SHEET 13 OF 20

G M 90A1 A 1014580

NUMBER	ITEM NO	LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION ITEM NO	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION ITEM NO	NO.
92	4	1500	P1- 93	1.20	14	1	S1-2-NC	25V	8	44
93	4	1500	P1- 73	1.20	14	1	S1-1-NC	25V	8	44
94	4	1500	P1- 28	1.20	14	1	S1-1-C	25V	8	44
95	4	1500	P1- 29	1.20	14	1	S1-3-C	25V	8	44
96	4	2500	P1- 71	1.20	14	1	S4-3-NC	25V	8	20
97	4	2500	P1- 60	1.20	14	1	S4-2-NO	25V	8	20
98	4	2500	P1- 70	1.20	14	1	S4-2-C	25V	8	20
99	4	2400	P1- 2	1.20	14	1	S4-3-NO	25V	8	20
100	4	2400	P1- 21	1.20	14	1	S4-3-C	25V	8	20
101	2	2400		400	10	8A		200 175	12	7A
101A	4	600	SHLD A101	25V			13	25N		53
101B			P1- 82	1.20	14	1	S4-1-C	25V	8	20
102	4	2400	P1- 58	1.20	14	1	S16-1-NC	25V	8	29
103	4	2500	P1- 59	1.20	14	1	S16-1-NO	25V	8	29
104	2	1800		250 225	11	8A		250 225	7	7A
104A	4	600	SHLD A104	25V			16	25N		54
104B			P1- 42	1.20	14	1	S13-1-C	25V	8	4
104C			P1- 31	1.20	14	1	S13-1-NO	25V	8	4

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580 | SCALE NONE | REV LTR A | SHEET 15 OF 20

G M 90A1 A 1014580

NUMBER	ITEM NO	LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION ITEM NO	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TERMINATION ITEM NO	NO.
104D			P1- 30	1.20	14	1	S13-1-NC	25V	8	4
105	2	1700		250 225	11	8A		250 225	8	7A
105A	4	600	SHLD A105	25V			16	25N		54
105B			P1- 55	1.20	14	1	S10-2-NO	25V	8	31
105C			P1- 46	1.20	14	1	S10-2-NC	25V	8	31
106	2	1700		250 225	10	8A		250 225	12	7A
106A	4	600	SHLD A106	25V			16	25N		54
106B			P1- 65	1.20	14	1	S10-2-C	25V		32
107	4	900	S10-3-NC	25V	8	31	S21-3-NC	25V		33
108	4	1900	P1- 51	1.20	14	1	S20-2-NC	25V		32
109	4	900	S10-3-C	25V	8	31	S21-1-C	25V		33
110	4	1100	P1- 66	1.20	14	1	S9-2-C	25V		34
111	2	1100		250 225	11	8A		250 225	8	7A
111A	4	600	SHLD A111	25V			16	25N		54
111B			P1- 95	1.20	14	1	S9-1-C	25V		34
111C			P1- 81	1.20	14	1	S9-1-NO	25V		34
112	4	1250	P1- 65	1.20	14	1	S9-2-NO	25V	8	34
113	4	1350	P1- 77	1.20	14	1	S9-7-NO	25V	8	35

THE STD CONDUCTOR TERMINATION FIGURES ARE PER

DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580 | SCALE NONE | REV LTR A | SHEET 16 OF 20

INCHES

0 2

PHOTOGRAPHIC SCALE ONLY

6 M 3JA1 A 1014980

CONDUCTOR NUMBER	ITEM NO	INDIVIDUAL LENGTH	FROM CIRCUIT POINT		TERMINATION ITEM NO	NO	TO CIRCUIT POINT		TERMINATION ITEM NO	NO
130	4	1200	1- 10	1.2N	14	1	S19-5-C	29Y	8	12
131	4	1200	1- 17	1.2N	14	1	S19-6-NO	29Y	8	13
132	4	1200	1- 3	1.2N	14	1	S19-5-NO	29Y	8	12
133	4	1100	19-5-C	2.9Y		12	S19-6-C	29Y	8	16
134	4	1000	1- 7	1.2N	14	1	S19-4-C	29Y	8	11
135	4	1000	1- 8	1.2N	14	1	S19-4-NO	29Y	8	11
136	4	1200	1- 20	1.2N	14	1	S19-3-NO	29Y	8	17
137	4	1100	19-4-C	2.9Y		11	S19-3-C	29Y	8	18
138	4	1200	1- 9	1.2N	14	1	S19-2-NO	29Y	8	9
139	4	1200	1- 6	1.2N	14	1	S19-1-NO	29Y	8	14
140	4	1000	1- 18	1.2N	14	1	S19-1-C	29Y	8	14A
141	4	1100	19-1-C	2.9Y		13	S19-2-C	29Y	8	10
142	5	600	1- 91	1.2N	14	1	E1	29N		3
143	5	1000	1- 83	1.2N	14	1	E7	29N		2
144	5	900	8	2.9N		94	E7	29N		2
145	5	900	5	2.9N		93	E7	29N		2
146	5	900	6	2.9N		92	E7	29N		2
147	5	900	3	2.9N		91	E7	29N		2

1 > THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014980 | SCALE NONE | REV LTR A | SHEET 18 OF 20

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6 M 3JA1 A 1014980

CONDUCTOR NUMBER	ITEM NO	INDIVIDUAL LENGTH	FROM CIRCUIT POINT		TERMINATION ITEM NO	NO	TO CIRCUIT POINT		TERMINATION ITEM NO	NO
A 148	5	1900	2	2.9N		46	E7	29N		2
A 149	4	1200	1- 48	1.2N	14	1	[illegible] ~~[illegible]~~	29Y	8	6
A 150	4	1200	XDS3-LO	2.5Y		5	HI LAMP LO	2.5Y	8	7
A 151	4	1000	S17-1-C	2.5Y		45	S1-3-NC	2.5N		44

1 > THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014980 | SCALE NONE | REV LTR C | SHEET 19 OF 20

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6 M 3JA1 A 1014980

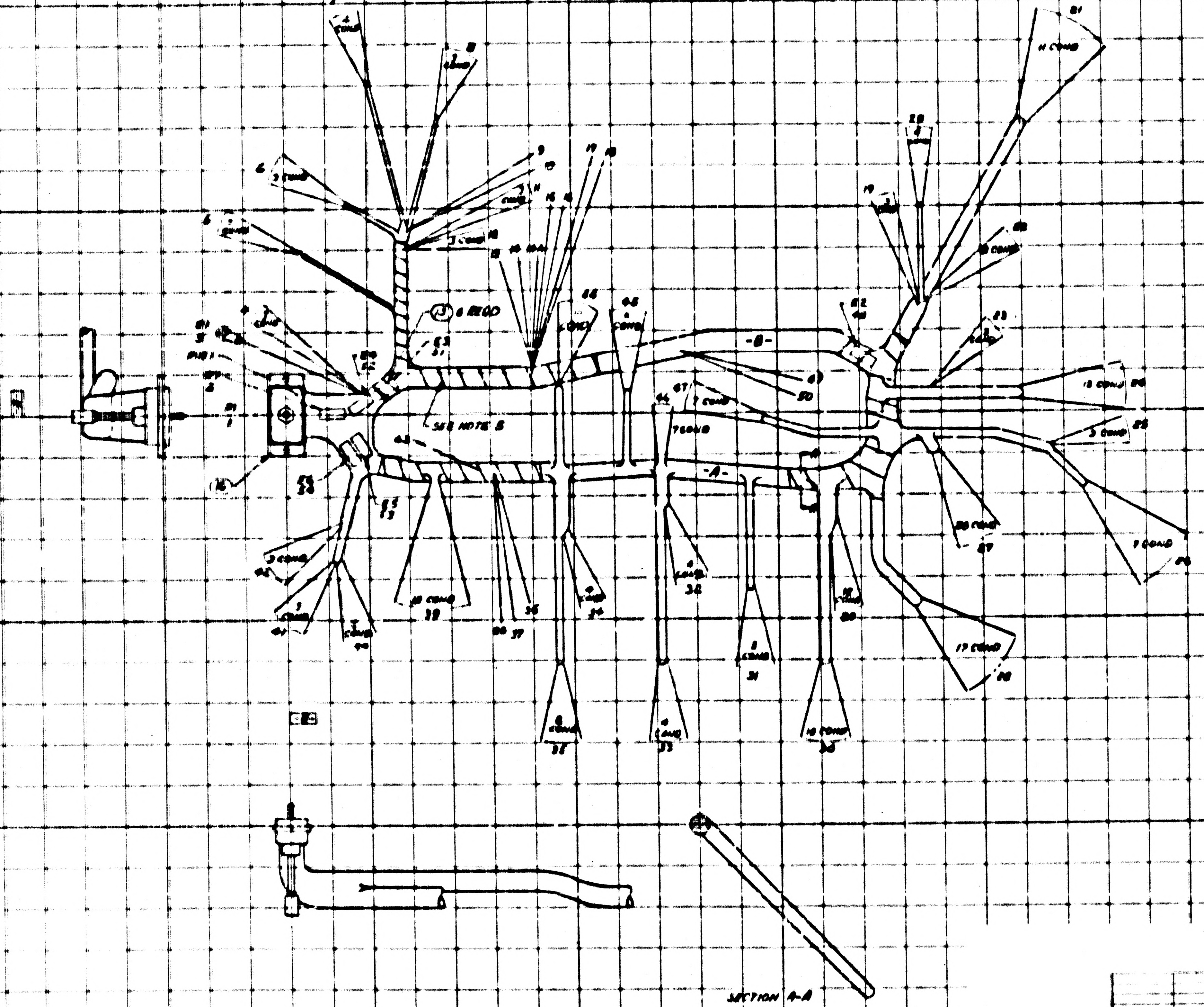
CONDUCTOR NUMBER	ITEM NO	INDIVIDUAL LENGTH	FROM CIRCUIT POINT		TERMINATION ITEM NO	NO	TO CIRCUIT POINT		TERMINATION ITEM NO	NO
114	4	1300	1- 67	1.2N	14	1	S9-8-C	29Y		33
115	4	1300	1- 76	1.2N	14	1	S20-2-C	29Y	8	32
116	4	1700	1- 79	1.2N	14	1	S21-3-C	29Y	8	33
117	2	1900		200 225	10	6A		225 200	12	7A
117A	4	[illegible]	WLD A117	2.9N			E6	29N		34
117B			1- 60	1.2N	14	1	S20-4-C	29Y		32
118	4	1700	1- 93	1.2N	14	1	S21-3-NO	29Y	8	33
119	4	1900	1-100	1.2N	14	1	S20-2-NO	29Y	8	32
120	4	1800	1- 89	1.2N	14	1	S7-2-C	29Y	8	60
121	4	1800	1- 86	1.2N	14	1	S23-1-NO	29Y	8	61
122	4	1800	1- 89	1.2N	14	1	S7-2-NC	29Y	8	60
123	4	1700	1- 97	1.2N	14	1	S8-1-NO	29Y	8	62
124	4	1800	1- 90	1.2N	14	1	S7-1-C	29Y	8	60
125	4	1800	1-102	1.2N	14	1	S23-1-NC	29Y	8	61
126	4	1700	1-103	1.2N	14	1	S8-1-NC	29Y	8	62
127	4	1800	1-104	1.2N	14	1	S7-1-NC	29Y	8	60
128	4	1700	7-1-NO	2.9Y	8	40	S8-1-C	29Y	8	62
129	4	1800	7-2-NO	2.9Y	8	40	S23-1-C	29Y	8	61

1 > THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014980 | SCALE NONE | REV LTR A | SHEET 17 OF 20

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY


2
4 COND
8 COND
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3 COND
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3 COND
11
12
3 COND
17
18
15
14
16
13
6 REQD
12
61
7
PIN 1
63
51
SEE NOTE 5
-A-
-B-
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46
COND
67
7 COND
7 COND
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11 COND
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3 COND
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4 COND
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4 COND
36
10 COND
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37
3 COND
42
3 COND
41
40
53
SECTION A-A
TYPICAL

WIRING HARNESS A

C 1014580

APPLICATION	
NEXT ASSY	USED ON
1014578	

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	COMPLETELY REVISED	23 JULY	
B	REVISED WIRE LENGTH TOTALS (SHEET 5)	23 JULY 63	J.R.S.
C₁	(C₁) UPGRADED FOR CLASS A RELEASE TDRR 02420	5 AUG 63	WK.
D4	(D1) ITEM 4, 1014580-4 WAS 130 FT 5 IN (SH5) (D2) REMD COND A107 (D3) REVISED COND A108 LENGTH WAS 15.00. "TO" CIR PT WAS S20-2-NC, "TO" TERM. NO. WAS 32 (SH16) (D4) TERM. NO.'S 32 & 33 WERE 4 COND. (SH 20) TDRR 02624	13 AUG 63	WK.

Charleston
14 Jun 63

REV																						
SHEET																						
REV STATUS	REV	D	C	A	A	D	A	A	A	A	A	A	A	C	A	A	D	A	A	C	D	
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN C. M. Kulp DATE 31 MAY 63
CHECKED C. Piojda 18 JUN 63
APPROVAL J. J. Moran 18 JUN. 63
APPROVAL 20 JUN 63
NASA APPROVAL 6/7/63
MIT APPROVAL 63
CONTRACT NAS9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
G&N INDICATOR CONTROL PANEL

CODE IDENT NO.
SIZE
1014580
REV D
SCALE —
SHEET 1 OF 20

G H 50A1 A 1014580

PENNANT

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014580- 1	WIRE PER ND1002105 TYPE 6, WHT JKT 24AWG WHT. 17 FT 10 IN TOTAL LENGTH
	2	1	1014580- 2	WIRE PER ND1002105 TYPE 7-2, WHT JKT 24AWG WHITE, RED. 13 FT 6 IN TOTAL LENGTH
	3	1	1014580- 3	WIRE PER ND1002105 TYPE 7-3, WHT JKT 24AWG WHITE, RED, BLUE. 7 FT 10 IN TOTAL LENGTH
	4	1	1014580- 4	WIRE PER ND1002105 TYPE 1, 24AWG WHITE. ~~129~~ 130 FT ~~10~~ 2 IN TOTAL LENGTH
	5	1	1014580- 5	WIRE PER ND1002105 TYPE 1, 22AWG WHITE. 4 FT 1 IN TOTAL LENGTH
	6	10	1010490-170	INSULATION SLEEVING HEAT SHRINK
	7	5	1010490-168	INSULATION SLEEVING HEAT SHRINK
	8	~~134~~ 135	1010490-052	INSULATION SLEEVING HEAT SHRINK
	9	27	1010490-050	INSULATION SLEEVING HEAT SHRINK
	10	10	1010402- 1	SOLDER SLEEVE
	11	12	1010402- 2	SOLDER SLEEVE
	12	13	1010490-172	INSULATION SLEEVING HEAT SHRINK
	13	6		SOLDER SLEEVE (DEAD END)
~~11~~	14	108	1010464-001	CONTACT ELECTRICAL
10	15	1	1010347- 1	CONNECTOR, PLUG, ELECTRICAL
	16	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A
1014580
SCALE - NONE
REV LTR D
SHEET 5 OF 20

MIL 2084 4-63

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	FROM STRIP WIRE OR JACKET 2	FROM TIN	FROM CUT WIRE OR SHIELD 2	FROM TERMINATION ITEM NO.	FROM TERMINATION SPEC. 1	FROM NO.	TO CIRCUIT POINT 2	TO STRIP WIRE OR JACKET 2	TO TIN	TO CUT WIRE OR SHIELD 2	TO TERMINATION ITEM NO.	TO TERMINATION SPEC 1	TO NO.	
A 104W			P1- 30	12	N		14		1	S13-1-NC	25	Y		8		8	
A 105	2	1700		350		325	11	8B			350		325	6	7A		A
A 105A	4	600	SHLD A105	25	Y					E6	25	N				54	
A 105R			P1- 55	12	N		14		1	S18-2-NO	25	Y		8		31	
A 105W			P1- 46	12	N		14		1	S18-2-NC	25	Y		8		31	
A 106	1	1700		350		325	10	8B			350		325	12	7A		
A 106A	4	600	SHLD A106	25	Y					E6	25	N				54	
A 106W			P1- 45	12	N		14		1	S18-2-C	25	Y				31	
A 107	~~4~~	~~900~~	~~S18-3-NC~~	~~25~~	~~Y~~		~~8~~		~~31~~	~~S21-3-NC~~	~~25~~	~~Y~~				~~33~~	
A 108	4	~~1500~~ 2100	P1- 51	12	N		14		1	~~S20-2-NC~~ S18-3-NC	25	Y				~~32~~ 31	
A 109	4	900	S18-3-C	25	Y		8		31	S21-1-C	25	Y				33	
A 110	4	1100	P1- 66	12	N		14		1	S9-2-C	25	Y				34	
A 111	2	1100		250		225	11	8A			250		225	6	7A		
A 111A	4	600	SHLD A111	25	Y					E6	25	N				54	
A 111R			P1- 95	12	N		14		1	S9-1-C	25	Y				34	
A 111W			P1- 81	12	N		14		1	S9-1-NO	25	Y				34	
A 112	4	1250	P1- 65	12	N		14		1	S9-2-NO	25	Y		8		34	
A 113	4	1550	P1- 77	12	N		14		1	S9-7-NO	25	Y		8		35	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

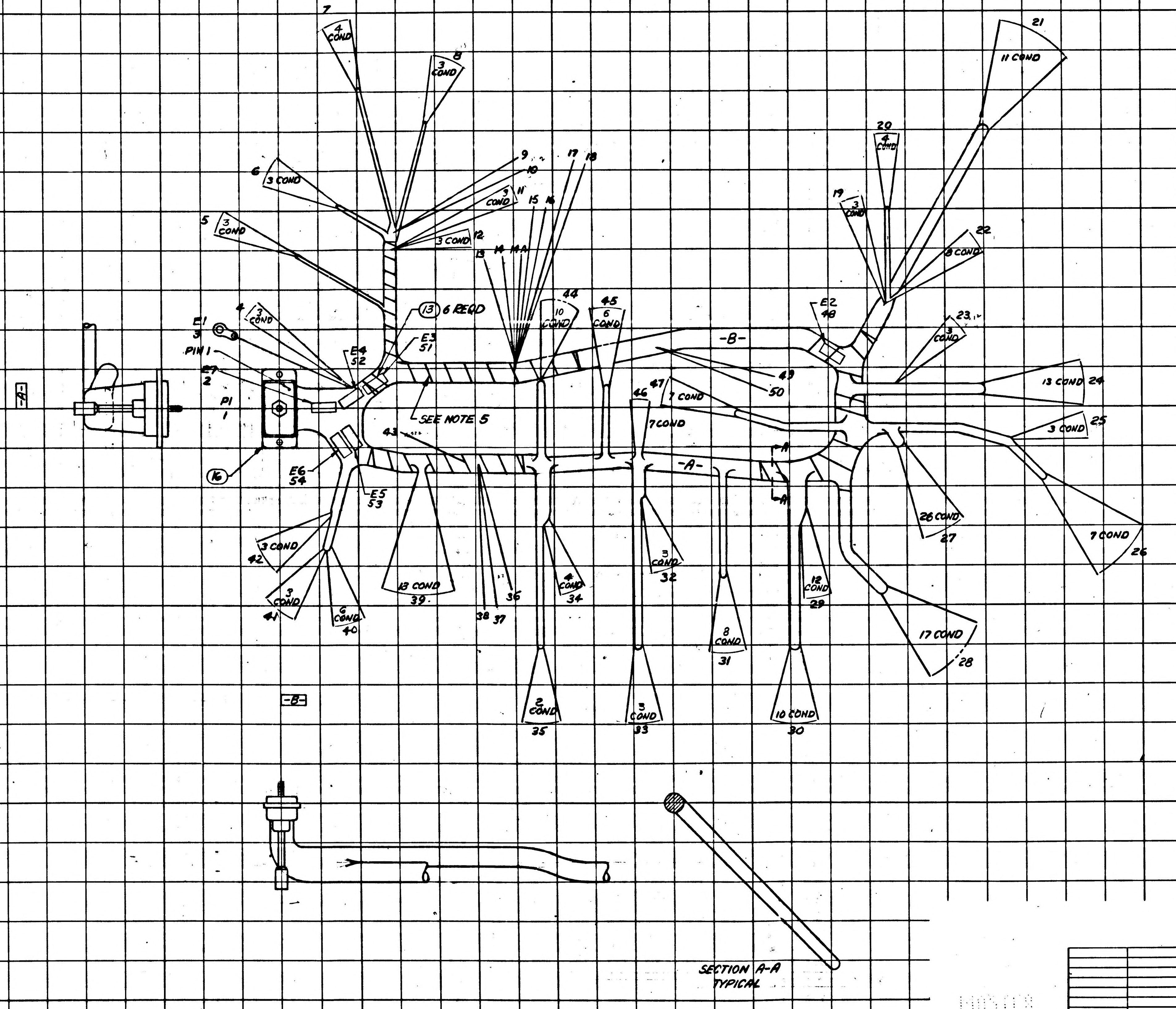
MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A
1014580
SCALE - NONE
REV LTR D
SHEET 16 OF 20

MIL 2085 · 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

Ⓑ TDRR 02420
TDRR 02524



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E5
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3 COND
32
8 COND
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12 COND
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10 COND
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-B-
SECTION A-A
TYPICAL

1014580

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS-9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 15 JULY 63 DATE
CHECKED PIOJDA 18 JUN 63
APPROVAL F.J. MORAN 18 JUN
APPROVAL A KODEL 20 JUN 63
9/7/63
NASA APPROVAL 9/7/63
MIT APPROVAL 7 Aug 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS A
G&N INDICATOR CONTROL PANEL

CODE IDENT NO. SIZE E 1014580
SCALE 1/1 SHEET 20 OF 20

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G H 50A1 A 1014580

PENNANT GENERAL NOTES

NOTE

14 BIND WIRES TOGETHER PER ND1002032 USING MIL-T-713, TYPE P, CLASS 2 TAPE. FORM RUNNING LOCKSTITCH AT 1/2 INCH SPACING.

15 TWIST CONDUCTORS A1, A2 AND A3 APPROX 18 TURNS PER FOOT
16- TWIST CONDUCTORS A32 AND A33 APPROX 18 TURNS PER FOOT
17- TWIST CONDUCTORS A58 AND A59 APPROX 18 TURNS PER FOOT
18- TWIST CONDUCTORS A60 AND A61 APPROX 18 TURNS PER FOOT
19- TWIST CONDUCTORS A63, A64 AND A65 APPROX 18 TURNS PER FOOT
20- TWIST CONDUCTORS A66, A67, A68, A79 AND A80 APPROX 18 TURNS PER FOOT
~~21- TWIST CONDUCTORS A90 AND A91 APPROX 4 TURNS PER FOOT~~
~~22- TWIST CONDUCTORS A92 AND A93 APPROX 4 TURNS PER FOOT~~
~~23- TWIST CONDUCTORS A94 AND A95 APPROX 4 TURNS PER FOOT~~
24- TWIST CONDUCTORS A97 AND A98 APPROX 18 TURNS PER FOOT
25- TWIST CONDUCTORS A99 AND A100 APPROX 18 TURNS PER FOOT
26- TWIST CONDUCTORS A112 AND A113 APPROX 18 TURNS PER FOOT
27- TWIST CONDUCTORS A130, A131 AND A132 APPROX 18 TURNS PER FOOT
28- TWIST CONDUCTORS A134, A135 AND A136 APPROX 18 TURNS PER FOOT
29- TWIST CONDUCTORS A138, A139 AND A140 APPROX 18 TURNS PER FOOT
30- TWIST CONDUCTORS A66, A68, A72 AND A73 APPROX 18 TURNS PER FOOT

31 PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A1

32 CONDUCTOR LENGTHS ARE FOR MFG. REF ONLY

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR F | SHEET 3 OF 20

MIL 2084 4-63

G H 50A1 A 1014580

PENNANT GENERAL NOTES

NOTE

33 TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

34 USE A FIGURE EIGHT TYPE STITCH IN BRANCH A BETWEEN SECTION B-B AND C-C (APPROXIMATELY 4"). WIDTH SHALL NOT EXCEED 5/16" PER BUNDLE. CONDUCTORS BREAKING OUT ON TOP SIDE TO TERMINATION POINTS 34 THRU 39, 43 & 44 SHALL BE ROUTED IN TOP BUNDLES.

35 INSULATION SHALL BE RECESSED INTO INSULATION CUP OF PIN BODY ON ALL CONDUCTORS TERMINATING IN TERMINATION NO. 1.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR A | SHEET 4 OF 20

MIL 2084 4-63

G H 50A1 A 1014580

PENNANT GENERAL NOTES

NOTE

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK CONDUCTOR IDENTIFICATION OMITTING ALL SUFFIX LETTERS EXCEPT A, B, C, AND D PER ND1002019. (ES-2475-7).

~~5 TAPE HARNESS USING ND - 3/4 INCH WIDE (ES-2716-3 WHITE)~~

6 SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 16 AND 17

7 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

8 GRID MODULE IS 1 INCH.

9 UNLESS OTHERWISE SPECIFIED -
FEATURE CENTERLINES ARE LOCATED WITHIN + OR - 1/4 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - 1/8 INCH

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

~~11 QTY 106 REQUIRED. FURNISHED WITH ITEM 15. ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.~~

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING OR CONDUCTOR COLOR.
A - FROM END SHIELD
B - TO END SHIELD
L - BLUE
R - RED
W - WHITE

13 INSTALL CRIMP STYLE TERMINALS IN ACCORDANCE WITH ND1002206.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR F | SHEET 2 OF 20

MIL 2084 4-63

APPLICATION	
NEXT ASSY	USED ON
1014578	

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A	COMPLETELY REVISED	23 July	
B	REVISED WIRE LENGTH TOTALS (SHEET 8)	23 JULY 63	J.R.S.
C1	Ⓒ UPGRADED FOR CLASS A RELEASE TDRR 02722	5 AUG 63	WK.
D4	Ⓓ ITEM 4, 1014580-4 WAS 180FT 5IN (SH5) Ⓓ REMD COND A107 Ⓓ REVISED COND A108 LENGTH WAS 15.00. "TO" CIR PT WAS 520-2-NC, "TO" TERM. NO. WAS 92 (SH16) Ⓓ TERM. NO.'S 32 & 83 WERE 4 COND. (SH 20) TDRR 02624	13 AUG 63	WK.
E	REVISED PER TDRR NO. 05249	20 DEC 63	WK
F	REVISED PER TDRR NO. 05252	20 DEC 63	WK

Charleston
14 Jun 63

REV STATUS OF SHEETS																				
REV	F	F	F	A	E	E	A	F	A	F	F	A	E	F	F	E	A	E	E	F
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ACSP PN

DRAWN C. M. Kula DATE 31 MAY 63
CHECKED C. Pigida 18 JUN 63
APPROVAL J. J. Moran 18 Jun 63
APPROVAL Kittle 20 Jun 63
NASA APPROVAL 1/7/63
MIT APPROVAL 63
CONTRACT NAS9-497

WIRING HARNESS "A"
G&N INDICATOR CONTROL PANEL

CODE IDENT NO. | SIZE A | 1014580 | REV F
SCALE — | SHEET 1 OF 20

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR				FROM							TO							
NUMBER		ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.		NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
A	1	4	1100	A1- 1	25	Y		8		21	T1- 3	25	Y				22	
A	2	4	1500	A1- 2	25	Y		8		21	S3-3-C	25	Y		8		47	
A	3	4	1500	A1- 3	25	Y		8		21	S3-2-C	25	Y		8		47	
A	4	2	1850		450		425	6	7A			750		725	11	8A		
A	4B	4	600	E2	25	N				48	SHLD A4	25	Y					
A	4R			A1-12	25	Y		8		21	S11-4-NC	25	Y		8		27	
A	4W			A1- 4	25	Y	200	8		21	S11-11-NO	25	Y	200	8		28	
A	5	2	1750		250		225	6	7A			750		725	11	8A		
A	5B	4	600	E2	25	N				48	SHLD A5	25	Y					
A	5R			A1-10	25	Y		8		21	S11-3-NC	25	Y		8		27	
A	5W			A1- 8	25	Y		8		21	S11-9-NO	25	Y	100	8		28	
A	6	2	1400		250		225	6	7A			350		325	11	8A		
A	6B	4	600	E2	25	N				48	SHLD A6	25	Y					
A	6R			A1- 5	25	Y		8		21	S11-5-NC	25	Y		8		27	
A	6W			A1- 9	25	Y		8		21	S11-5-NO	25	Y		9		27	
A	7	2	1400		250		225	6	7A			350		325	11	8A		
A	7B	4	600	E2	25	N				48	SHLD A7	25	Y					
A	7R			A1- 6	25	Y		8		21	S11-6-NC	25	Y		8		27	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR A
SHEET 7 OF 20

MIL 2085 - 4-63 WIR

CONDUCTOR				FROM							TO							
NUMBER		ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.		NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
A	7W			A1- 7	25	Y		8		21	S11-6-NO	25	Y		9		27	
A	8	2	2050		250		225	11	8A			300		275	6	7A		B
A	8A	4	600	SHLD A8	25	Y					E3	25	N				51	
A	8R			P1- 80	10	N		14		1	T1- 1	25	Y		9		22	
A	8W			P1- 69	10	N		14		1	T1- 2	25	Y				22	
A	9	4	1100	S3-2-NO	25	Y				47	T1- 1	25	Y				22	
A	10	4	1100	S3-1-NC	25	Y		8		47	T1- 7	25	Y		8		22	
A	11	4	1100	S3-1-NO	25	Y		8		47	T1- 5	25	Y		8		22	
A	12	4	1100	S3-4-NO	25	Y		8		47	T1- 4	25	Y		8		22	
A	13	4	1100	S3-4-NC	25	Y		8		47	T1- 6	25	Y		8		22	
A	14	4	700	P1- 92	10	N		14		1	S16-7-C	25	Y				39	
A	15	4	850	P1- 74	10	N		14		1	S16-6-C	25	Y		8		39	
A	16	4	650	P1- 90	10	N		14		1	S16-4-C	25	Y				39	
A	17	4	750	P1-100	10	N		14		1	S16-3-C	25	Y				39	
A	18	4	750	P1- 88	10	N		14		1	S16-1-NO	25	Y		8		39	
A	19	4	750	P1- 87	10	N		14		1	S16-2-NO	25	Y		8		39	
A	20	4	750	P1-101	10	N		14		1	S16-3-NO	25	Y		8		39	
A	21	4	750	P1- 94	10	N		14		1	S16-4-NO	25	Y		9		39	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR F
SHEET 8 OF 20

MIL 2085 - 4-63 WIR

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	17	AR	QQ-S-571	FLUX AR (ES-2175 TYPE 1 OR 2) OR MIL 14256 FLUX (ES-2798)
	18	1	1010638-6	TERMINAL
	19	AR	MIL-T-713 TYPE P, CLASS 2, BLACK	TAPE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR F
SHEET 6 OF 20

MIL 2084 4-63

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014580- 1	WIRE PER ND1002105 TYPE 6, WHT JKT 24AWG WHT. 117 FT 10 IN TOTAL LENGTH
	2	1	1014580- 2	WIRE PER ND1002105 TYPE 7-2, WHT JKT 24AWG WHITE, RED. 13 FT 6 IN TOTAL LENGTH
	3	1	1014580- 3	WIRE PER ND1002105 TYPE 7-3, WHT JKT 24AWG WHITE, RED, BLUE. 7 FT 10 IN TOTAL LENGTH
	4	1	1014580- 4	WIRE PER ND1002105 TYPE 1, 24AWG WHITE. 129 FT 8 IN TOTAL LENGTH
	5	1	1014580- 5	WIRE PER ND1002105 TYPE 1, 22AWG WHITE. 4 FT [illegible] IN TOTAL LENGTH
	6	10	1010490-170	INSULATION SLEEVING HEAT SHRINK
	7	5	1010490-168	INSULATION SLEEVING HEAT SHRINK
	8	138	1010490-082	INSULATION SLEEVING HEAT SHRINK
	9	38	1010490-080	INSULATION SLEEVING HEAT SHRINK
	10	10	1010402- 1	SOLDER SLEEVE
	11	12	1010402- 2	SOLDER SLEEVE
	12	13	1010490-172	INSULATION SLEEVING HEAT SHRINK
	13	6	1010650-1	CAP-SOLDER, ELECTRICAL CONDUCTOR, INSULATED
~~II~~	14	101	1010464-001	CONTACT ELECTRICAL
10	15	1	1010347- 1	CONNECTOR, PLUG, ELECTRICAL
	16	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR F
SHEET 5 OF 20

MIL 2084 4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION ITEM NO.	SPEC. ▷1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION ITEM NO.	SPEC ▷1	NO.	
A 41W			P1- 96	10	N		14		1	S11-5-C	25	Y		9		27	
A 42	4	500	S11-5-C	25	Y				27	S11-6-C	25	Y		9		27	
A 43	4	800	S11-6-C	25	Y				27	S4-1-NO	25	Y		8		26	
A 44	4	400	S15-6-NC	25	Y		8		30	S15-2-NC	25	Y		9		29	
A 45	4	700	S11-4-C	25	Y		8		27	S15-2-NC	25	Y				29	
A 46	4	800	S11-11-C	25	Y		8		28	S15-1-C	25	Y		8		29	
A 47	4	700	S11-4-NO	25	Y		8		27	S11-10-C	25	Y		8		28	
A 48	4	850	S11-10-NO	25	Y		8		28	S15-1-NC	25	Y				29	
A 49	2	1800		350		325	11	8B			250		225	6	7A		A
A 49A	4	600	SHLD A49	25	Y					E4	25	N				52	
A 49R			P1- 35	10	N		14		1	S15-2-C	25	Y		8		29	
A 49W			P1- 34	10	N		14		1	S15-2-NO	25	Y				29	
A 50	4	700	S11-3-C	25	Y		8		27	S15-4-NC	25	Y				29	
A 51	4	650	S11-9-C	25	Y		8		28	S15-3-C	25	Y		8		29	
A 52	4	700	S11-8-NO	25	Y		8		28	S15-3-NC	25	Y				29	
A 53	2	1700		350		325	11 5	8B			250		225	6	7A		A
A 53A	4	600	SHLD A53	25	Y					E4	25	N				52	
A 53R			P1- 19	10	N		14		1	S15-4-C	25	Y		8		29	

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR F	SHEET 11 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION ITEM NO.	SPEC. ▷1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION ITEM NO.	SPEC ▷1	NO.	
A 53W			P1- 33	10	N		14		1	S15-4-NO	25	Y				29	
A 54	4	2100	P1- 99	10	N		14		1	S15-7-C	25	Y		8		30	A
A 55	3	1350		300		275	7	7A			575		550	11	8A		
A 55B	4	600	E2	25	N				48	SHLD A55	25	Y					
A 55L			S12-3-NO	25	Y		8		24	S15-5-C	25	Y		8		30	
A 55R			S12-2-NO	25	Y		8		24	S15-3-NO	25	Y	300			29	
A 55W			S12-1-NO	25	Y		8		24	S15-6-C	25	Y		8		30	
A 56	3	2200		300		275	11 7	8A			250		225	7	7A		B
A 56A	4	600	SHLD A56	25	Y					E5	25	N				53	
A 56W			P1- 10	10	N		14		1	S12-3-C	25	Y		8		24	
A 56L			P1- 24	10	N	50	14		1	S12-1-C	25	Y		8		24	
A 56R			P1- 23	10	N	25	14		1	S12-2-C	25	Y		8		24	
A 57	3	2200		350		325	11 7	8A			250		225	7	7A		B
A 57A	4	600	SHLD A57	25	Y					E5	25	N				53	
A 57L			P1- 22	10	N	100	14		1	S12-3-NC	25	Y		8		24	
A 57R			P1- 9	10	N	25	14		1	S12-2-NC	25	Y		8		24	
A 57W			P1- 8	10	N	50	14		1	S12-1-NC	25	Y		8		24	
A 58	4	1450	P1- 84	10	N		14		1	S17-2-NC	25	Y		9		45	

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR [illegible] A	SHEET 12 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION ITEM NO.	SPEC. ▷1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION ITEM NO.	SPEC ▷1	NO.	
A 30W			P1- 49	10	N		14		1	S15-8-C	25	Y		9		30	
A 31	1	1900					10	8A			225		200	12	7A		A
A 31A	4	600	SHLD A31	25	Y					E4	25	N				52	
A 31W			P1- 38	10	N		14		1	S15-8-NC	25	Y		9		30	
A 32	4	1050	S15-8-C	25	Y				30	S11-5-NO	25	Y				27	
A 33	4	1050	S15-8-NC	25	Y				30	S11-6-NO	25	Y				27	
A 34	4	2050	P1- 72	10	N		14		1	S11-1-NC	25	Y		8		27	
A 35	3	2300		400		375	11	8B			600		575	7	7A		B
A 35A	4	600	SHLD A35	25	Y					E5	25	N				53	
A 35L			P1- 37	10	N		14		1	S11-12-NC	25	Y		8		28	
A 35R			P1- 25	10	N		14		1	S11-2-NC	25	Y		8		27	
A 35W			P1- 36	10	N		14		1	S11-12-C	25	Y		9		28	
A 36	4	700	S11-12-C	25	Y				28	S11-2-C	25	Y		8		27	
A 37	4	2100	P1- 1	10	N		14		1	S15-7-NC	25	Y		9		30	A
A 38	4	1100	S15-7-NC	25	Y				30	S11-1-C	25	Y		9		27	
A 39	4	600	S11-1-C	25	Y				27	S14-2-C	25	Y		8		25	
A 41	1	2100		400		375	10 5	8B			400		375	12	7A		B
A 41A	4	600	SHLD A41	25	N					E5	25	N				53	

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR F	SHEET 10 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION ITEM NO.	SPEC. ▷1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION ITEM NO.	SPEC ▷1	NO.	
A 22	4	500	S16-4-NO	25	Y				39	S16-8-NO	25	Y		8		39	
A 23	4	750	P1- 76	10	N		14		1	S16-5-NO	25	Y		8		39	
A 24	4	850	P1- 75	10	N		14		1	S16-6-NO	25	Y		8		39	
A 25	4	800	P1-105	10	N		14		1	S16-7-NO	25	Y		8		39	
A 26	1	2400		250		225	10	8A			250		225	12	7A		B
A 26A	4	600	SHLD A26	25	Y					E3	25	N				51	
A 26W			P1- 56	10	N		14		1	S11-8-NC	25	Y		8		28	
A 27	1	2600		250		225	10	8A			250		225	12	7A		B
A 27A	4	600	SHLD A27	25	Y					E3	25	N				51	
A 27W			P1- 47	10	N		14		1	S11-9-NC	25	Y		8		28	
A 28	1	2600		250		225	10	8A			300		275	12	7A		B
A 28A	4	600	SHLD A28	25	Y					E3	25	N				51	
A 28W			P1- 48	10	N		14		1	S11-10-NC	25	Y		8		28	
A 29	1	2300		250		225	10	8A			300		275	12	7A		B
A 29A	4	600	SHLD A29	25	Y					E3	25	N				51	
A 29W			P1- 57	10	N		14		1	S11-11-NC	25	Y		8		28	
A 30	1	1900		250		225	10	8A			225		200	12	7A		A
A 30A	4	600	SHLD A30	25	Y					E4	25	N				52	

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR [illegible] A A	SHEET 9 OF 20

MIL 2085 - 4-63 WIR

INCHES 0 1 2

PHOTOGRAPHIC SCALE ONLY

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
~~A 92~~	~~4~~	~~1500~~	~~P1- 59~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 93	4	1500	P1- 73	10	N		14		1	S1-1-NC	25	Y		8		44	
~~A 94~~	~~4~~	~~1500~~	~~P1- 28~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-C~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 95	4	1500	P1- 29	10	N		14		1	S1-3-C	25	Y		8		44	
A 96	4	2500	P1- 71	10	N		14		1	S4-3-NC	25	Y		8		26	B
A 97	4	2500	P1- 60	10	N		14		1	S4-2-NO	25	Y		8		26	B
A 98	4	2500	P1- 70	10	N		14		1	S4-2-C	25	Y		8		26	B
A 99	4	2450	P1- 2	10	N		14		1	S4-3-NO	25	Y		8		26	B
A 100	4	2400	P1- 21	10	N		14		1	S4-3-C	25	Y		8		26	B
A 101	1	2400		400			10	8B			200		175	12	7A		B
A 101A	4	600	SHLD A101	25	Y					E5	25	N				53	
A 101W			P1- 82	10	N		14		1	S4-1-C	25	Y		8		26	
A 102	4	2350	P1- 58	10	N		14		1	S14-1-NC	25	Y		8		25	
A 103	4	2350	P1- 59	10	N		14		1	S14-1-NO	25	Y		8		25	
A 104	3	1350		250		225	11	8A			250		225	7	7A		
A 104A	4	600	SHLD A104	25	Y					E6	25	N				54	
A 104L			P1- 42	10	N		14		1	S13-1-C	25	Y		8		8	
A 104R			P1- 31	10	N		14		1	S13-1-NO	25	Y		8		8	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR F	SHEET 15 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 104W			P1- 30	10	N		14		1	S13-1-NC	25	Y		8		8	
A 105	2	1700		350		325	11	8B			350		325	6	7A		A
A 105A	4	600	SHLD A105	25	Y					E6	25	N				54	
A 105R			P1- 55	10	N		14		1	S18-2-NO	25	Y		8		31	
A 105W			P1- 46	10	N		14		1	S18-2-NC	25	Y		8		31	
A 106	1	1700		350		325	10	8B			350		325	12	7A		
A 106A	4	600	SHLD A106	25	Y					E6	25	N				54	
A 106W			P1- 83	10	N		14		1	S18-1-NC	25	Y				31	
A 107	~~4~~	~~900~~	~~S18-3-NC~~	~~25~~	~~Y~~		~~8~~		~~31~~	~~S21-2-NC~~	~~25~~	~~Y~~				~~33~~	
A 108	4	2100 ~~1500~~	P1- 51	10	N		14		1	S18-3-NC ~~S20-2-NC~~	25	Y				31 ~~32~~	
A 109	4	900	S18-3-C	25	Y		8		31	S21-1-C	25	Y				33	
A 110	4	1100	P1- 66	10	N		14		1	S9-2-C	25	Y				34	
A 111	2	1100		250		225	11	8A			250		225	6	7A		
A 111A	4	600	SHLD A111	25	Y					E6	25	N				54	
A 111R			P1- 95	10	N		14		1	S9-1-C	25	Y				34	
A 111W			P1- 81	10	N		14		1	S9-1-NO	25	Y				34	
A 112	4	1250	P1- 65	10	N		14		1	S9-2-NO	25	Y		8		34	
A 113	4	1550	P1- 77	10	N		14		1	S9-7-NO	25	Y		8		35	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR F	SHEET 16 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 77	4	1500	P1- 44	10	N		14		1	R1-CCW	25	Y				50	B
A 78	4	1400	P1- 26	10	N		14		1	S25-1-C	25	Y		8		46	
A 79	4	1400	P1- 63	10	N		14		1	S24-1-C	25	Y		9		46	
A 80	4	1400	P1- 64	10	N		14		1	S24-1-C	25	Y				46	
A 81	2	1800		250		225	11	8A			250		225	6	7A		
A 81A	4	600	SHLD A81	25	Y					E5	25	N				53	
A 81R			P1- 12	10	N		14		1	M1-LO	25	Y				7	
A 81W			P1- 11	10	N		14		1	M1-HI	25	Y				7	
A 82	4	500	P1- 13	10	N		14		1	R2-WIPER	25	Y		8		4	
A 83	4	1000	P1- 27	10	N		14		1	A2-E1	25	Y		8		37	
A 84	4	750	P1- 39	10	N		14		1	S22-1-C	25	Y				43	
A 85	4	1100	R2-LO	25	Y		8		4	A2-E9	25	Y		8		36	
A 86	4	1200	R2-HI	25	Y		8		4	A2-E2	25	Y		8		38	
A 87	4	1250	P1- 41	10	N		14		1	S10-1 ~~S10-1-1~~	25	Y		8		6	
A 88	4	1250	P1- 50	10	N		14		1	S10-3 ~~S10-1-3~~	25	Y				6	
~~A 89~~	~~4~~	~~1200~~	~~P1- 14~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-4-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 90~~	~~4~~	~~1500~~	~~P1- 15~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-3-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 91~~	~~4~~	~~1500~~	~~P1- 43~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR F	SHEET 14 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 59	4	1450	P1- 54	10	N		14		1	S17-1-NC	25	Y		9		45	
A 60	4	1550	S17-2-NC	25	Y				45	S12-4-NO	25	Y		8		24	
A 61	4	1550	S17-1-NC	25	Y				45	S12-4-NC	25	Y		9		24	
A 62	4	850	S12-4-C	25	Y		8		24	XDS12-HI	25	Y		8		23	
A 63	4	3000	S12-4-NC	25	Y				24	M1 LAMP-HI	25	Y		8		7	
A 64	4	2500	XDS 4-LO	25	Y		9		20	XDS 3-LO	25	Y		9		5	
A 65	4	2500	XDS 4-HI	25	Y		9		20	XDS 3-HI	25	Y				5	
A 66	4	2200	P1- 52	10	N		14		1	XDS12-LO	25	Y		9		23	A
A 67	4	1300	P1- 61	10	N		14		1	S1-3-NC	25	Y				44	
A 68	4	2400	P1- 62	10	N		14		1	S2-1-C	25	Y		9		19	A
A 69	4	1400 ~~700~~	S1-4-C	25	Y				44	S18-3-NC ~~S17-1-C~~	25	Y				31 ~~45~~	
A 70	4	600	S17-2-C	25	Y				45	S24-1-NO	25	Y		9		46	
~~A 71~~	~~4~~	~~700~~	~~S24-1-NO~~	~~25~~	~~Y~~				~~46~~	~~S18-1-NC~~	~~25~~	~~Y~~		~~9~~		~~31~~	
A 72	4	1400	S24-1-NO	25	Y				46	S2-1-C	25	Y				19	
A 73	4	900	XDS12-LO	25	Y				23	XDS 4-LO	25	Y				20	
A 74	4	600	S2-1-NC	25	Y		8		19	XDS 4-HI	25	Y				20	
A 75	4	1500	P1- 32	10	N		14		1	S25-1-NO	25	Y		9		46	
A 76	4	450	S25-1-NO	25	Y				46	R1-CW	25	Y		8		49	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR E	SHEET 13 OF 20

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	2	TERMINATION ITEM NO.	SPEC 1	NO.
A 114	4	1550	P1- 67	10	N		14		1	S9-8-C	25	Y				35
A 115	4	1500	P1- 78	10	N		14		1	S20-2-C	25	Y		8		32
A 116	4	1700	P1- 79	10	N		14		1	S21-3-C	25	Y		8		33
A 117	1	1500		250		225	10	8A			225		200	12	7A	
A 117A	4	600	SHLD A117	25	Y					E6	25	N				54
A 117W			P1- 68	10	N		14		1	S20-4-C	25	Y				32
A 118	4	1700	P1- 93	10	N		14		1	S21-3-NO	25	Y		8		33
A 119	4	1500	P1-106	10	N		14		1	S20-2-NO	25	Y		8		32
A 120	4	800	P1- 85	10	N		14		1	S7-2-C	25	Y		8		40
A 121	4	850	P1- 86	10	N		14		1	S23-1-NO	25	Y		8		41
A 122	4	800	P1- 89	10	N		14		1	S7-2-NC	25	Y		8		40
A 123	4	700	P1- 97	10	N		14		1	S8-1-NO	25	Y		8		42
A 124	4	800	P1- 98	10	N		14		1	S7-1-C	25	Y		8		40
A 125	4	800	P1-102	10	N		14		1	S23-1-NC	25	Y		8		41
A 126	4	700	P1-103	10	N		14		1	S8-1-NC	25	Y		8		42
A 127	4	850	P1-104	10	N		14		1	S7-1-NC	25	Y		8		40
A 128	4	700	S7-1-NO	25	Y		8		40	S8-1-C	25	Y		8		42
A 129	4	600	S7-2-NO	25	Y		8		40	S23-1-C	25	Y		8		41

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR A
SHEET 17 OF 20

MIL 2085 - 4-63 WIR

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TERMINATION ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TERMINATION ITEM NO.	NO.
A 130	4	1050	P1- 16	10	N	14	1	S19-5 C	25	Y	9	12
A 131	4	1200	P1- 17	10	N	14	1	S19-6-NO	25	Y	8	15
A 132	4	1050	P1- 3	10	N	14	1	S19-5-NO	25	Y	8	12
A 133	4	1300	S19-5-C	25	Y		12	S19-6-C	25	Y	8	16
A 134	4	900	P1- 7	10	N	14	1	S19-4-C	25	Y	9	11
A 135	4	900	P1- 6	10	N	14	1	S19-4-NO	25	Y	8	11
A 136	4	1200	P1- 20	10	N	14	1	S19-3-NO	25	Y	8	17
A 137	4	1500	S19-4-C	25	Y		11	S19-3-C	25	Y	8	18
A 138	4	1200	P1- 5	10	N	14	1	S19-2-NO	25	Y	8	9
A 139	4	1010	P1- 4	10	N	14	1	S19-1-NO	25	Y	8	14
A 140	4	1000	P1- 18	10	N	14	1	S19-1-C	25	Y	9	14A
A 141	4	1300	S19-1-C	25	Y		13	S19-2-C	25	Y	8	10
A 142	5	800	P1- 91	10	N	14	1	E1	25	N	18	3
A 143	5	1000	P1- 83	10	N	14	1	E7	25	N	13	2
A 144	5	300	E6	25	N	13	54	E7	25	N		2
A 145	5	300	E5	25	N	13	53	E7	25	N		2
A 146	5	300	E4	25	N	13	52	E7	25	N		2
A 147	5	300	E3	25	N	13	51	E7	25	N		2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR E
SHEET 18 OF 20

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

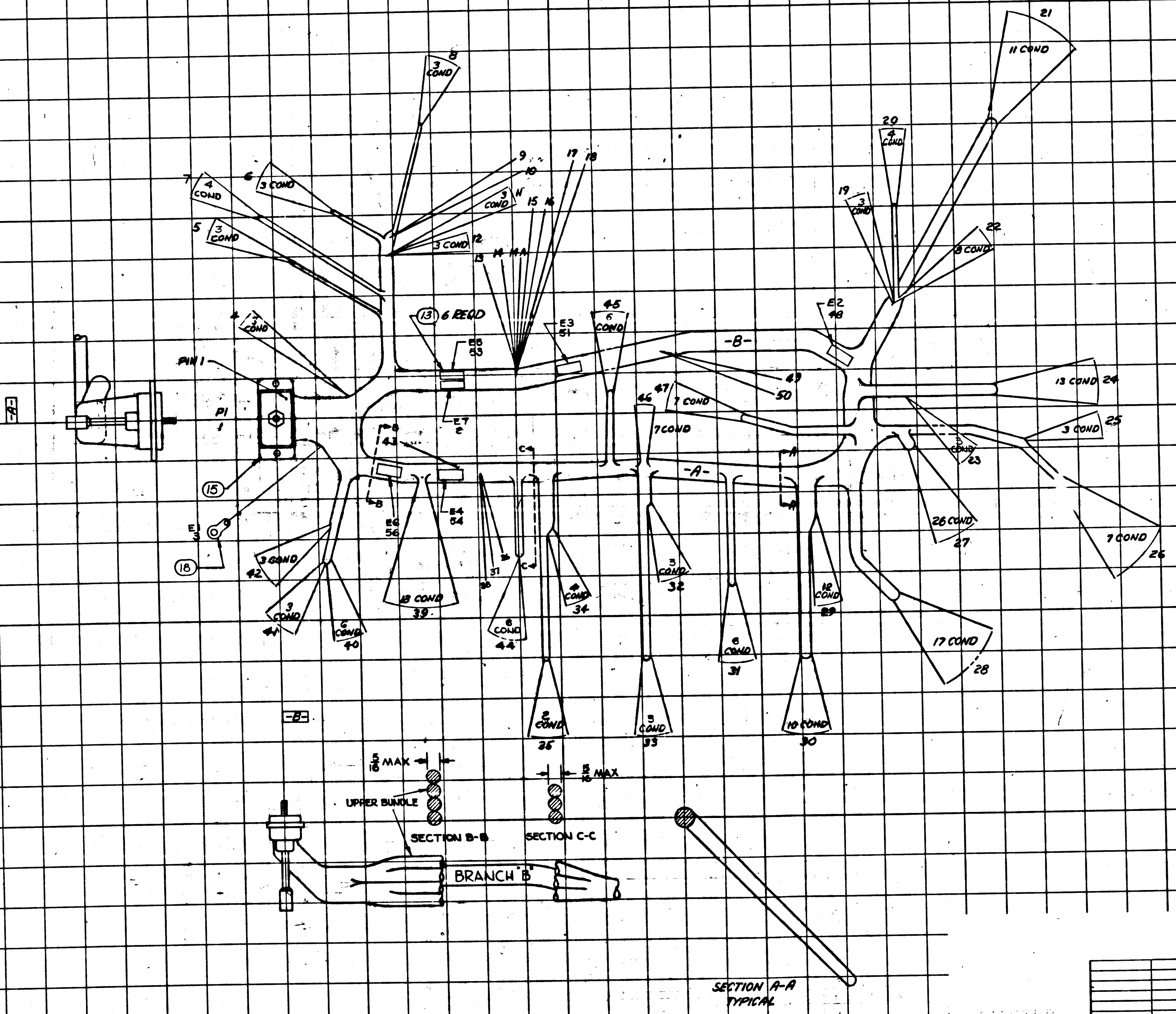
CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TERMINATION ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TERMINATION ITEM NO.	NO.
A 148	5	1900	E2	25	N	13	48	E7	25	N		2
A 149	4	1250	P1- 40	10	N	14	1	S10-5 ~~S10-1-3~~	25	Y	8	6
A 150	4	1200	XDS3-LO	25	Y		5	MI LAMP-LO	25	Y	8	7
A 151	4	1000	S17-1-C	25	Y		45	S1-3-NC	25	Y		44
A 152	4	1200	S11-3-NO	25	Y	8	27	S11-8-C	25	Y	8	28
A 153	4	1000	S20-1-C	25	Y		32	S9-4-NO	25	Y	9	34
A 154	4	1200	S9-8-NO	25	Y		35	S20-2-NC	25	Y	9	32
A 155	4	1200	S9-5-C	25	Y		35	S20-4-NC	25	Y	9	32
A 156	4	1000	S9-4-C	25	Y		34	S20-1-NC	25	Y	9	32
A 157	4	1200	S9-5-NO	25	Y		35	S20-3-C	25	Y	9	32

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR E
SHEET 19 OF 20

MIL 2085 - 4-63 WIR

C	TDRR 02420
D	TDRR 02524
E	TDRR 5249 (23 Dec 63)
F	TDRR 5252 (23 Dec 63)



-A-
-B-
PIN 1
P1
1
15
E1
3
18
4 3 COND
5 3 COND
7 4 COND
6 3 COND
8 3 COND
9
10
11 3 COND
12 3 COND
13 6 REQD
13 14 14A
15 16
17 18
E5 53
E3 51
E7 2
E6 56
E4 54
E8 43
45 6 COND
46
47 7 COND
7 COND
49
50
E2 48
19 3 COND
20 4 COND
21 11 COND
22 8 COND
13 COND 24
3 COND 25
3 COND 23
26 COND 27
7 COND 26
17 COND 28
12 COND 29
10 COND 30
6 COND 31
3 COND 32
3 COND 33
4 COND 34
2 COND 35
36
37
38
18 COND 39
6 COND 40
3 COND 41
3 COND 42
6 COND 44
C
A
5/16 MAX
UPPER BUNDLE
SECTION B-B
SECTION C-C
BRANCH "B"
SECTION A-A TYPICAL

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + − DECIMALS + − ANGLES + −
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS-9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 15 JULY 63
CHECKED PIOJDA 18 JUN 63
APPROVAL F.J. MORAN 18 JUN
APPROVAL A KODEL 20 JUN 63
NASA APPROVAL 8/7/63
MIT APPROVAL Nov 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS A
G&N INDICATOR CONTROL PANEL

CODE IDENT NO.
SIZE E
1014580
SCALE 1/1
SHEET 20 of 20

1014580

PENNANT GENERAL NOTES

NOTE

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK CONDUCTOR IDENTIFICATION OMITTING ALL SUFFIX LETTERS EXCEPT A,B,C, AND D PER ND1002019. (ES-2475-7).

~~5 TAPE HARNESS USING ND 3/4 INCH WIDE (ES-2716-3 WHITE)~~

6 SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 16 AND 17

7 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

8 GRID MODULE IS 1 INCH.

9 UNLESS OTHERWISE SPECIFIED -
FEATURE CENTERLINES ARE LOCATED WITHIN + OR - 1/4 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - 1/8 INCH

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

~~11 QTY 106 REQUIRED. FURNISHED WITH ITEM 15. ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.~~

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING OR CONDUCTOR COLOR.
A - FROM END SHIELD
B - TO END SHIELD
L - BLUE
R - RED
W - WHITE

13 INSTALL CRIMP STYLE TERMINALS IN ACCORDANCE WITH ND1002206.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR F	SHEET 2 OF 20

MIL 2084 4-63

PENNANT GENERAL NOTES

NOTE

14 BIND WIRES TOGETHER PER ND1002032 USING MIL-T-713, TYPE P, CLASS 2 TAPE. FORM RUNNING LOCKSTITCH AT 1/2 INCH SPACING.

15 TWIST CONDUCTORS A1,A2 AND A3 APPROX 18 TURNS PER FOOT
16- TWIST CONDUCTORS A32 AND A33 APPROX 18 TURNS PER FOOT
17- TWIST CONDUCTORS A58 AND A59 APPROX 18 TURNS PER FOOT
18- TWIST CONDUCTORS A60 AND A61 APPROX 18 TURNS PER FOOT
19- TWIST CONDUCTORS A63,A64 AND A65 APPROX 18 TURNS PER FOOT
20- TWIST CONDUCTORS A66,A67,A68,A79 AND A80 APPROX 18 TURNS PER FOOT
~~21- TWIST CONDUCTORS A90 AND A91 APPROX 4 TURNS PER FOOT~~
~~22- TWIST CONDUCTORS A92 AND A93 APPROX 4 TURNS PER FOOT~~
~~23- TWIST CONDUCTORS A94 AND A95 APPROX 4 TURNS PER FOOT~~
24- TWIST CONDUCTORS A97 AND A98 APPROX 18 TURNS PER FOOT
25- TWIST CONDUCTORS A99 AND A100 APPROX 18 TURNS PER FOOT
26- TWIST CONDUCTORS A112 AND A113 APPROX 18 TURNS PER FOOT
27- TWIST CONDUCTORS A130,A131 AND A132 APPROX 18 TURNS PER FOOT
28- TWIST CONDUCTORS A134,A135 AND A136 APPROX 18 TURNS PER FOOT
29- TWIST CONDUCTORS A138,A139 AND A140 APPROX 18 TURNS PER FOOT
30- TWIST CONDUCTORS A66,A68,A72 AND A73 APPROX 18 TURNS PER FOOT

31 PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A1

32 CONDUCTOR LENGTHS ARE FOR MFG. REF ONLY

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR F	SHEET 3 OF 20

MIL 2084 4-63

APPLICATION	
NEXT ASSY	USED ON
1014578	

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A	COMPLETELY REVISED	23 JULY	
B	REVISED WIRE LENGTHS TOTALS (SHEET 5)	23 JULY 63	J.R.S.
C1	Ⓒ1 UPGRADED FOR CLASS A RELEASE TDRR 02173	5 AUG 63	WK
D4	Ⓓ1 ITEM 4, 1014580-4 WAS 130FT 5IN (SH5) Ⓓ2 REMD COND A107 Ⓓ3 REVISED COND A108 LENGTH WAS 15.00. "TO" CIR PT WAS S20-2-NC. "TO" TERM. NO. WAS 32 (SH16) Ⓓ4 TERM. NO.'S 32 & 33 WERE 4 COND. (SH 20) TDRR 02124	13 AUG 63	WK
E	REVISED PER TDRR NO. 05249	20 DEC 63	WK
F	REVISED PER TDRR NO. 05252	20 DEC 63	WK
G	REVISED PER TDRR NO. 06166	11 FEB 64	WK

REV																				
SHEET																				
REV STATUS REV	G	F	F	A	G	F	G	E	A	F	F	A	E	F	F	E	A	E	E	F
OF SHEETS SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Charleston 14 Jun 63

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

ACSP PN
DRAWN C. M. Kuba DATE 31 MAY 63
CHECKED C. Pigda 18 JUN 63
APPROVAL J. J. Moran 18 JUN 63
APPROVAL 20 JUN 63
NASA APPROVAL 6/17/63
MIT APPROVAL 63
CONTRACT NAS9-497

WIRING HARNESS "A"
G&N INDICATOR CONTROL PANEL

CODE IDENT NO.	SIZE	
	A	1014580
SCALE —		SHEET 1 OF

PENNANT GENERAL NOTES

NOTE

33 TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

34 USE A FIGURE EIGHT TYPE STITCH IN BRANCH A BETWEEN SECTION B-B AND C-C (APPROXIMATELY 4"). WIDTH SHALL NOT EXCEED 5/16" PER BUNDLE. CONDUCTORS BREAKING OUT ON TOP SIDE TO TERMINATION POINTS 34 THRU 39, 43 & 44 SHALL BE ROUTED IN TOP BUNDLES.

35 INSULATION SHALL BE RECESSED INTO INSULATION CUP OF PIN BODY ON ALL CONDUCTORS TERMINATING IN TERMINATION NO. 1.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR A	SHEET 4 OF 20

MIL 2084 4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	17	AR	QQ-S-571	FLUX AR (ES-2175 TYPE 1 OR 2) OR MIL 14256 FLUX (ES-2798)
	18	1	1010638-6	TERMINAL
	19	AR	MIL-T-713 TYPE P, CLASS 2, BLACK	TAPE

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR F	SHEET 6 OF 20

CONDUCTOR NUMBER		ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	2	TERMINATION SPEC. 1 ITEM NO.		NO.	TO CIRCUIT POINT 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	2	TERMINATION SPEC 1 ITEM NO.		NO.	
A	1	4	1100	A1- 1	25	Y		8		21	T1- 3	25	Y				22	
A	2	4	1500	A1- 2	25	Y		8		21	S3-3-C	25	Y		9		47	
A	3	4	1500	A1- 3	25	Y		8		21	S3-3-C	25	Y				47	
A	4	2	1850		450		425	6	7A			750		725	11	8A		
A	4B	4	600	E2	25	N				48	SHLD A4	25	Y					
A	4R			A1-12	25	Y		8		21	S11-4-NC	25	Y		8		27	
A	4W			A1- 4	25	Y	200	8		21	S11-11-NO	25	Y	200	8		28	
A	5	2	1750		250		225	6	7A			750		725	11	8A		
A	5B	4	600	E2	25	N				48	SHLD A5	25	Y					
A	5R			A1-10	25	Y		8		21	S11-3-NC	25	Y		8		27	
A	5W			A1- 8	25	Y		8		21	S11-9-NO	25	Y	100	8		28	
A	6	2	1400		250		225	6	7A			350		325	11	8A		
A	6B	4	600	E2	25	N				48	SHLD A6	25	Y					
A	6R			A1- 5	25	Y		8		21	S11-5-NC	25	Y		8		27	
A	6W			A1- 9	25	Y		8		21	S11-5-NO	25	Y		9		27	
A	7	2	1400		250		225	6	7A			350		325	11	8A		
A	7B	4	600	E2	25	N				48	SHLD A7	25	Y					
A	7R			A1- 6	25	Y		8		21	S11-6-NC	25	Y		8		27	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR G	SHEET 7 OF 20

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014580- 1	WIRE PER ND1002105 TYPE 6, WHT JKT 24AWG WHT. 117 FT 10 IN TOTAL LENGTH
	2	1	1014580- 2	WIRE PER ND1002105 TYPE 7-2, WHT JKT 24AWG WHITE, RED. 13 FT 6 IN TOTAL LENGTH
	3	1	1014580- 3	WIRE PER ND1002105 TYPE 7-3, WHT JKT 24AWG WHITE, RED, BLUE. 7 FT 10 IN TOTAL LENGTH
	4	1	1014580- 4	WIRE PER ND1002105 TYPE 1, 24AWG WHITE. 129 FT 8 IN TOTAL LENGTH
	5	1	1014580- 5	WIRE PER ND1002105 TYPE 1, 22AWG WHITE. 4 FT 1[illegible] IN TOTAL LENGTH
	6	10	1010490-170	INSULATION SLEEVING HEAT SHRINK
	7	5	1010490-168	INSULATION SLEEVING HEAT SHRINK
	8	130	1010490-082	INSULATION SLEEVING HEAT SHRINK
	9	33	1010490-080	INSULATION SLEEVING HEAT SHRINK
	10	10	1010402- 1	SOLDER SLEEVE
	11	12	1010402- 2	SOLDER SLEEVE
	12	13	1010490-172	INSULATION SLEEVING HEAT SHRINK
	13	6	1010650-1	CAP-SOLDER, ELECTRICAL CONDUCTOR, INSULATED
II	14	101	1010464-001	CONTACT ELECTRICAL
10	15	1	1010347- 1	CONNECTOR, PLUG, ELECTRICAL
	16	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR G	SHEET 5 OF 20

CONDUCTOR NUMBER		ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	2	TERMINATION SPEC. 1 ITEM NO.		NO.	TO CIRCUIT POINT 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	2	TERMINATION SPEC 1 ITEM NO.		NO.	
A	7W			A1- 7	25	Y		8		21	S11-6-NO	25	Y		9		27	
A	8	2	2050		250		225	11	8A			300		275	6	7A		B
A	8A	4	600	SHLD A8	25	Y					E3	25	N				51	
A	8R			P1- 80	10	N		14		1	T1- 1	25	Y		9		22	
A	8W			P1- 69	10	N		14		1	T1- 2	25	Y				22	
A	9	4	1100	S3-2-NO	25	Y				47	T1- 1	25	Y				22	
A	10	4	1100	S3-1-NC	25	Y		8		47	T1- 7	25	Y		8		22	
A	11	4	1100	S3-1-NO	25	Y		8		47	T1- 5	25	Y		8		22	
A	12	4	1100	S3-4-NO	25	Y		8		47	T1- 4	25	Y		8		22	
A	13	4	1100	S3-4-NC	25	Y		8		47	T1- 6	25	Y		8		22	
A	14	4	700	P1- 92	10	N		14		1	S16-7-C	25	Y				39	
A	15	4	850	P1- 74	10	N		14		1	S16-6-C	25	Y		8		39	
A	16	4	650	P1- 90	10	N		14		1	S16-4-C	25	Y				39	
A	17	4	750	P1-100	10	N		14		1	S16-3-C	25	Y				39	
A	18	4	750	P1- 88	10	N		14		1	S16-1-NO	25	Y		8		39	
A	19	4	750	P1- 87	10	N		14		1	S16-2-NO	25	Y		8		39	
A	20	4	750	P1-101	10	N		14		1	S16-3-NO	25	Y		8		39	
A	21	4	750	P1- 94	10	N		14		1	S16-4-NO	25	Y		9		39	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR F	SHEET 8 OF 20

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC	NO.	
A 30W			P1- 49	10	N		14		1	S15-8-C	25	Y		9		30	
A 31	1	1900					10	8A			225		200	12	7A		A
A 31A	4	600	SHLD A31	25	Y					E4	25	N				52	
A 31W			P1- 38	10	N		14		1	S15-8-NC	25	Y		9		30	
A 32	4	1050	S15-8-C	25	Y				30	S11-5-NO	25	Y				27	
A 33	4	1050	S15-8-NC	25	Y				30	S11-6-NO	25	Y				27	
A 34	4	2050	P1- 72	10	N		14		1	S11-1-NC	25	Y		8		27	
A 35	3	2300		400		375	11	8B			600		575	7	7A		B
A 35A	4	600	SHLD A35	25	Y					E5	25	N				53	
A 35L			P1- 37	10	N		14		1	S11-12-NC	25	Y		8		28	
A 35R			P1- 25	10	N		14		1	S11-2-NC	25	Y		8		27	
A 35W			P1- 36	10	N		14		1	S11-12-C	25	Y		9		28	
A 36	4	700	S11-12-C	25	Y				28	S11-2-C	25	Y		8		27	
A 37	4	2100	P1- 1	10	N		14		1	S15-7-NC	25	Y		9		30	A
A 38	4	1100	S15-7-NC	25	Y				30	S11-1-C	25	Y		9		27	
A 39	4	600	S11-1-C	25	Y				27	S14-2-C	25	Y		8		25	
A 41	1	2100		400		375	10	8B			400		375	12	7A		B
A 41A	4	600	SHLD A41	25	N					E5	25	N				53	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR F
SHEET 10 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC	NO.	
A 41W			P1- 96	10	N		14		1	S11-5-C	25	Y		9		27	
A 42	4	500	S11-5-C	25	Y				27	S11-6-C	25	Y		9		27	
A 43	4	800	S11-6-C	25	Y				27	S4-1-NO	25	Y		8		26	
A 44	4	400	S15-6-NC	25	Y		8		30	S15-2-NC	25	Y		9		29	
A 45	4	700	S11-4-C	25	Y		8		27	S15-2-NC	25	Y				29	
A 46	4	800	S11-11-C	25	Y		8		28	S15-1-C	25	Y		8		29	
A 47	4	700	S11-4-NO	25	Y		8		27	S11-10-C	25	Y		8		28	
A 48	4	850	S11-10-NO	25	Y		8		28	S15-1-NC	25	Y				29	
A 49	2	1800		350		325	11	8B			250		225	6	7A		A
A 49A	4	600	SHLD A49	25	Y					E4	25	N				52	
A 49R			P1- 35	10	N		14		1	S15-2-C	25	Y		8		29	
A 49W			P1- 34	10	N		14		1	S15-2-NO	25	Y				29	
A 50	4	700	S11-3-C	25	Y		[illegible]		27	S15-4-NC	25	Y				29	
A 51	4	650	S11-9-C	25	Y		8		28	S15-3-C	25	Y		8		29	
A 52	4	700	S11-8-NO	25	Y		8		28	S15-3-NC	25	Y				29	
A 53	2	1700		350		325	11	8B			250		225	6	7A		A
A 53A	4	600	SHLD A53	25	Y					E4	25	N				52	
A 53R			P1- 19	10	N		14		1	S15-4-C	25	Y		8		29	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR F
SHEET 11 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC	NO.	
A 22	4	500	S16-4-NO	25	Y				39	S16-8-NO	25	Y		8		39	
A 23	4	750	P1- 76	10	N		14		1	S16-5-NO	25	Y		8		39	
A 24	4	850	P1- 75	10	N		14		1	S16-6-NO	25	Y		8		39	
A 25	4	800	P1-105	10	N		14		1	S16-7-NO	25	Y		8		39	
A 26	1	2400		250		225	10	8A			250		225	12	7A		B
A 26A	4	600	SHLD A26	25	Y					E3	25	N				51	
A 26W			P1- 56	10	N		14		1	S11-8-NC	25	Y		8		28	
A 27	1	2600		250		225	10	8A			250		225	12	7A		B
A 27A	4	600	SHLD A27	25	Y					E3	25	N				51	
A 27W			P1- 47	10	N		14		1	S11-9-NC	25	Y		8		28	
A 28	1	2600		250		225	10	8A			300		275	12	7A		B
A 28A	4	600	SHLD A28	25	Y					E3	25	N				51	
A 28W			P1- 48	10	N		14		1	S11-10-NC	25	Y		8		28	
A 29	1	2300		250		225	10	8A			300		275	12	7A		B
A 29A	4	600	SHLD A29	25	Y					E3	25	N				51	
A 29W			P1- 57	10	N		14		1	S11-11-NC	25	Y		8		28	
A 30	1	1900		250		225	10	8A			225		200	12	7A		A
A 30A	4	600	SHLD A30	25	Y					E4	25	N				52	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR A A
SHEET 9 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC	NO.	
A 53W			P1- 33	10	N		14		1	S15-4-NO	25	Y				29	
A 54	4	2100	P1- 99	10	N		14		1	S15-7-C	25	Y		8		30	A
A 55	3	1350		300		275	7	7A			575		550	11	8A		
A 55B	4	600	E2	25	N				48	SHLD A55	25	Y					
A 55L			S12-3-NO	25	Y		8		24	S15-5-C	25	Y		8		30	
A 55R			S12-2-NO	25	Y		8		24	S15-3-NO	25	Y	300			29	
A 55W			S12-1-NO	25	Y		8		24	S15-6-C	25	Y		8		30	
A 56	3	2200		300		275	11	8A			250		225	7	7A		B
A 56A	4	600	SHLD A56	25	Y					E5	25	N				53	
A 56W			P1- 10	10	N		14		1	S12-3-C	25	Y		8		24	
A 56L			P1- 24	10	N	50	14		1	S12-1-C	25	Y		8		24	
A 56R			P1- 23	10	N	25	14		1	S12-2-C	25	Y		8		24	
A 57	3	2200		350		325	11	8A			250		225	7	7A		B
A 57A	4	600	SHLD A57	25	Y					E5	25	N				53	
A 57L			P1- 22	10	N	100	14		1	S12-3-NC	25	Y		8		24	
A 57R			P1- 9	10	N	25	14		1	S12-2-NC	25	Y		8		24	
A 57W			P1- 8	10	N	50	14		1	S12-1-NC	25	Y		8		24	
A 58	4	1450	P1- 84	10	N		14		1	S17-2-NC	25	Y		9		45	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR A
SHEET 12 OF 20

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 77	4	1500	P1- 44	10	N		14		1	R1-CCW	25	Y				50	B
A 78	4	1400	P1- 26	10	N		14		1	S25-1-C	25	Y		8		46	
A 79	4	1400	P1- 63	10	N		14		1	S24-1-C	25	Y		9		46	
A 80	4	1400	P1- 64	10	N		14		1	S24-1-C	25	Y				46	
A 81	2	1800		250		225	11	8A			250		225	6	7A		
A 81A	4	600	SHLD A81	25	Y					E5	25	N				53	
A 81R			P1- 12	10	N		14		1	M1-LO	25	Y				7	
A 81W			P1- 11	10	N		14		1	M1-HI	25	Y				7	
A 82	4	500	P1- 13	10	N		14		1	R2-WIPER	25	Y		8		4	
→ A 83	4	1000	P1- 27	10	N		14		1	A2-E1	25	Y		8		37	
A 84	4	750	P1- 39	10	N		14		1	S22-1-C	25	Y				43	
A 85	4	1100	R2-LO	25	Y		8		4	A2-E9	25	Y		8		36	
A 86	4	1200	R2-HI	25	Y		8		4	A2-E2	25	Y		8		38	
A 87	4	1250	P1- 41	10	N		14		1	S10-1 ~~S10-1-1~~	25	Y		8		6	
A 88	4	1250	P1- 50	10	N		14		1	S10-3 ~~S10-1-3~~	25	Y				6	
~~A 89~~	~~4~~	~~1200~~	~~P1- 14~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-4-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 90~~	~~4~~	~~1500~~	~~P1- 15~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-3-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 91~~	~~4~~	~~1500~~	~~P1- 43~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014580

SCALE - NONE REV LTR F SHEET 14 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
~~A 92~~	~~4~~	~~1500~~	~~P1- 53~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 93	4	1500	P1- 73	10	N		14		1	S1-1-NC	25	Y		8		44	
~~A 94~~	~~4~~	~~1500~~	~~P1- 28~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-C~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 95	4	1500	P1- 29	10	N		14		1	S1-3-C	25	Y		8		44	
A 96	4	2500	P1- 71	10	N		14		1	S4-3-NC	25	Y		8		26	B
A 97	4	2500	P1- 60	10	N		14		1	S4-2-NO	25	Y		8		26	B
A 98	4	2500	P1- 70	10	N		14		1	S4-2-C	25	Y		8		26	B
A 99	4	2450	P1- 2	10	N		14		1	S4-3-NO	25	Y		8		26	B
A 100	4	2400	P1- 21	10	N		14		1	S4-3-C	25	Y		8		26	B
↔ A 101	1	2400		400			10	8B			200		175	12	7A		B ←
A 101A	4	600	SHLD A101	25	Y					E5	25	N				53	
A 101W			P1- 82	10	N		14		1	S4-1-C	25	Y		8		26	
A 102	4	2350	P1- 58	10	N		14		1	S14-1-NC	25	Y		8		25	
A 103	4	2350	P1- 59	10	N		14		1	S14-1-NO	25	Y		8		25	
A 104	3	1350		250		225	11	8A			250		225	7	7A		
A 104A	4	600	SHLD A104	25	Y					E6	25	N				54	
A 104L			P1- 42	10	N		14		1	S13-1-C	25	Y		8		8	
A 104R			P1- 31	10	N		14		1	S13-1-NO	25	Y		8		8	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014580

SCALE - NONE REV LTR F SHEET 15 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 59	4	1450	P1- 54	10	N		14		1	S17-1-NC	25	Y		9		45	
A 60	4	1550	S17-2-NC	25	Y				45	S12-4-NO	25	Y		8		24	
A 61	4	1550	S17-1-NC	25	Y				45	S12-4-NC	25	Y		9		24	
A 62	4	850	S12-4-C	25	Y		8		24	XDS12-HI	25	Y		8		23	
A 63	4	3000	S12-4-NC	25	Y				24	M1 LAMP-HI	25	Y		8		7	
A 64	4	2500	XDS 4-LO	25	Y		9		20	XDS 3-LO	25	Y		9		5	
A 65	4	2500	XDS 4-HI	25	Y		9		20	XDS 3-HI	25	Y				5	
A 66	4	2200	P1- 52	10	N		14		1	XDS12-LO	25	Y		9		23	A
A 67	4	1300	P1- 61	10	N		14		1	S1-3-NC	25	Y				44	
→ A 68	4	2400	P1- 62	10	N		14		1	S2-1-C	25	Y		9		19	A ↔
A 69	4	1400 ~~700~~	S1-4-C	25	Y				44	S18-3-NC ~~S17-1-C~~	25	Y				31 ~~45~~	
A 70	4	600	S17-2-C	25	Y				45	S24-1-NO	25	Y		9		46	
~~A 71~~	~~4~~	~~700~~	~~S24-1-NO~~	~~25~~	~~Y~~				~~46~~	~~S18-1-NC~~	~~25~~	~~Y~~		~~9~~		~~31~~	
A 72	4	1400	S24-1-NO	25	Y				46	S2-1-C	25	Y				19	
A 73	4	900	XDS12-LO	25	Y				23	XDS 4-LO	25	Y				20	
A 74	4	600	S2-1-NC	25	Y		8		19	XDS 4-HI	25	Y				20	
A 75	4	1500	P1- 32	10	N		14		1	S25-1-NO	25	Y		9		46	
A 76	4	450	S25-1-NO	25	Y				46	R1-CW	25	Y		8		49	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014580

SCALE - NONE REV LTR E SHEET 13 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 104W			P1- 30	10	N		14		1	S13-1-NC	25	Y		8		8	
A 105	2	1700		350		325	11	8B			350		325	6	7A		A
A 105A	4	600	SHLD A105	25	Y					E6	25	N				54	
A 105R			P1- 55	10	N		14		1	S18-2-NO	25	Y		8		31	
A 105W			P1- 46	10	N		14		1	S18-2-NC	25	Y		8		31	
A 106	1	1700		350		325	10	8B			350		325	12	7A		
A 106A	4	600	SHLD A106	25	Y					E6	25	N				54	
A 106W			P1- 53	10	N		14		1	S18-1-NC	25	Y				31	
A 107	~~4~~	~~900~~	~~S18-3-NC~~	~~25~~	~~Y~~		~~8~~		~~31~~	~~S21-3-NC~~	~~25~~	~~Y~~				~~33~~	
↔ A 108	4	2100 ~~1500~~	P1- 51	10	N		14		1	S18-3-NC ~~S20-2-NC~~	25	Y				31 ~~32~~	←
A 109	4	900	S18-3-C	25	Y		8		31	S21-1-C	25	Y				33	
A 110	4	1100	P1- 66	10	N		14		1	S9-2-C	25	Y				34	
A 111	2	1100		250		225	11	8A			250		225	6	7A		
A 111A	4	600	SHLD A111	25	Y					E6	25	N				54	
A 111R			P1- 95	10	N		14		1	S9-1-C	25	Y				34	
A 111W			P1- 81	10	N		14		1	S9-1-NO	25	Y				34	
A 112	4	1250	P1- 65	10	N		14		1	S9-2-NO	25	Y		8		34	
A 113	4	1550	P1- 77	10	N		14		1	S9-7-NO	25	Y		8		35	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014580

SCALE - NONE REV LTR F SHEET 16 OF 20

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	T/I/N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	T/I/N	2	TERMINATION SPEC 1 ITEM NO.	NO.
A 114	4	1550	P1- 67	10	N		14	1	S9-8-C	25	Y			35
A 115	4	1500	P1- 78	10	N		14	1	S20-2-C	25	Y		8	32
A 116	4	1700	P1- 79	10	N		14	1	S21-3-C	25	Y		8	33
A 117	1	1500		250		225	10	8A		225		200	12	7A
A 117A	4	600	SHLD A117	25	Y				E6	25	N			54
A 117W			P1- 68	10	N		14	1	S20-4-C	25	Y			32
A 118	4	1700	P1- 93	10	N		14	1	S21-3-NO	25	Y		8	33
A 119	4	1500	P1-106	10	N		14	1	S20-2-NO	25	Y		8	32
A 120	4	800	P1- 85	10	N		14	1	S7-2-C	25	Y		8	40
A 121	4	850	P1- 86	10	N		14	1	S23-1-NO	25	Y		8	41
A 122	4	800	P1- 89	10	N		14	1	S7-2-NC	25	Y		8	40
A 123	4	700	P1- 97	10	N		14	1	S8-1-NO	25	Y		8	42
A 124	4	800	P1- 98	10	N		14	1	S7-1-C	25	Y		8	40
A 125	4	800	P1-102	10	N		14	1	S23-1-NC	25	Y		8	41
A 126	4	700	P1-103	10	N		14	1	S8-1-NC	25	Y		8	42
A 127	4	850	P1-104	10	N		14	1	S7-1-NC	25	Y		8	40
A 128	4	700	S7-1-NO	25	Y		8	40	S8-1-C	25	Y		8	42
A 129	4	600	S7-2-NO	25	Y		8	40	S23-1-C	25	Y		8	41

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014580

SCALE - NONE REV LTR A SHEET 17 OF 20

MIL 2085 - 4-63 WIR

G H

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	T/I/N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	T/I/N	2	TERMINATION SPEC 1 ITEM NO.	NO.
A 130	4	1050	P1- 16	10	N		14	1	S19-5-C	25	Y		9	12
A 131	4	1200	P1- 17	10	N		14	1	S19-6-NO	25	Y		8	15
A 132	4	1050	P1- 3	10	N		14	1	S19-5-NO	25	Y		8	12
A 133	4	1300	S19-5-C	25	Y			12	S19-6-C	25	Y		8	16
A 134	4	900	P1- 7	10	N		14	1	S19-4-C	25	Y		9	11
A 135	4	900	P1- 6	10	N		14	1	S19-4-NO	25	Y		8	11
A 136	4	1200	P1- 20	10	N		14	1	S19-3-NO	25	Y		8	17
A 137	4	1500	S19-4-C	25	Y			11	S19-3-C	25	Y		8	18
A 138	4	1200	P1- 5	10	N		14	1	S19-2-NO	25	Y		8	9
A 139	4	1010	P1- 4	10	N		14	1	S19-1-NO	25	Y		8	14
A 140	4	1000	P1- 18	10	N		14	1	S19-1-C	25	Y		9	14A
A 141	4	1300	S19-1-C	25	Y			13	S19-2-C	25	Y		8	10
A 142	5	800	P1- 91	10	N		14	1	E1	25	N		18	3
A 143	5	1000	P1- 83	10	N		14	1	E7	25	N		13	2
A 144	5	300	E6	25	N		13	54	E7	25	N			2
A 145	5	300	E5	25	N		13	53	E7	25	N			2
A 146	5	300	E4	25	N		13	52	E7	25	N			2
A 147	5	300	E3	25	N		13	51	E7	25	N			2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014580

SCALE · NONE REV LTR E SHEET 18 OF 20

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G H

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	T/I/N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	T/I/N	2	TERMINATION SPEC 1 ITEM NO.	NO.
A 148	5	1900	E2	25	N		13	48	E7	25	N			2
A 149	4	1250	P1- 40	10	N		14	1	S10-5 ~~S10-1-8~~	25	Y		8	6
A 150	4	1200	XDS3-LO	25	Y			5	MI LAMP-LO	25	Y		8	7
A 151	4	1000	S17-1-C	25	Y			45	S1-3-NC	25	Y			44
A 152	4	1200	S11-3-NO	25	Y		8	27	S11-8-C	25	Y		8	28
A 153	4	1000	S20-1-C	25	Y			32	S9-4-NO	25	Y		9	34
A 154	4	1200	S9-8-NO	25	Y			35	S20-2-NC	25	Y		9	32
A 155	4	1200	S9-5-C	25	Y			35	S20-4-NC	25	Y		9	32
A 156	4	1000	S9-4-C	25	Y			34	S20-1-NC	25	Y		9	32
A 157	4	1200	S9-5-NO	25	Y			35	S20-3-C	25	Y		9	32

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014580

SCALE - NONE REV LTR E SHEET 19 OF 20

MIL 2085 - 4-63 WIR

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014578		A	COMPLETELY REVISED	23 JULY	
		B	REVISED WIRE LENGTHS TOTALS (SHEET 5)	23 JULY 63	J.R.S.
		C1	(C1) UPGRADED FOR CLASS A RELEASE TDRR D27[illegible]	5 AUG 63	WK.
		D4	(D1) ITEM 4, 1014580-4 WAS 130 FT 5IN (SH5) (D2) REMD COND A107 (D3) REVISED COND A108 LENGTH WAS 15.00. "TO" CIR PT WAS 520-2-NC, "TO" TERM. NO. WAS 32 (SH16) (D4) TERM. NO.'S 32 & 33 WERE 4 COND. (SH 20) TDRR 02024	13 AUG 63	WK.
		E	REVISED PER TDRR NO. 05249	20 DEC 63	WK
		F	REVISED PER TDRR NO. 05252	20 DEC 63	WK
		G	REVISED PER TDRR NO. 06166	11 FEB 64	WK
		H6	REVISED PER TDRR NO. 06369	25 FEB 64	WK

Charleston 14 Jun 63

REV																				
SHEET																				
REV STATUS OF SHEETS REV	H	F	F	A	H	F	H	H	A	F	F	A	E	F	F	E	A	E	E	H
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ACSP PN
DRAWN C. M. Kulo DATE 31 MAY 63
CHECKED C. Piojda 18 JUN 63
APPROVAL J. J. Moran 18 JUN 63
APPROVAL [illegible] 20 JUN 63
NASA APPROVAL [illegible] 6/17/63
MIT APPROVAL [illegible] 63
CONTRACT NAS9-497

WIRING HARNESS "A"
G&N INDICATOR CONTROL PANEL

CODE IDENT NO.
SIZE A
1014580
REV H
SCALE —
SHEET 1 OF 20

PENNANT GENERAL NOTES

NOTE

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK CONDUCTOR IDENTIFICATION OMITTING ALL SUFFIX LETTERS EXCEPT A, B, C, AND D PER ND1002019. (ES-2475-7).

~~5 TAPE HARNESS USING ND . 3/4 INCH WIDE (ES-2716-3 WHITE)~~

6 SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 16 AND 17

7 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

8 GRID MODULE IS 1 INCH.

9 UNLESS OTHERWISE SPECIFIED -
FEATURE CENTERLINES ARE LOCATED WITHIN + OR - 1/4 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - 1/8 INCH

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

~~11 QTY 106 REQUIRED. FURNISHED WITH ITEM 15. ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.~~

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING OR CONDUCTOR COLOR.
A - FROM END SHIELD
B - TO END SHIELD
L - BLUE
R - RED
W - WHITE

13 INSTALL CRIMP STYLE TERMINALS IN ACCORDANCE WITH ND 1002206.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE REV LTR F SHEET 2 OF 20

PENNANT GENERAL NOTES

NOTE

14 BIND WIRES TOGETHER PER ND1002032 USING MIL-T-713, TYPE P, CLASS 2 TAPE. FORM RUNNING LOCKSTITCH AT 1/2 INCH SPACING.

15 TWIST CONDUCTORS A1, A2 AND A3 APPROX 18 TURNS PER FOOT
16- TWIST CONDUCTORS A32 AND A33 APPROX 18 TURNS PER FOOT
17- TWIST CONDUCTORS A58 AND A59 APPROX 18 TURNS PER FOOT
18- TWIST CONDUCTORS A60 AND A61 APPROX 18 TURNS PER FOOT
19- TWIST CONDUCTORS A63, A64 AND A65 APPROX 18 TURNS PER FOOT
20- TWIST CONDUCTORS A66, A67, A68, A79 AND A80 APPROX 18 TURNS PER FOOT
~~21- TWIST CONDUCTORS A90 AND A91 APPROX 4 TURNS PER FOOT~~
~~22- TWIST CONDUCTORS A92 AND A93 APPROX 4 TURNS PER FOOT~~
~~23- TWIST CONDUCTORS A94 AND A95 APPROX 4 TURNS PER FOOT~~
24- TWIST CONDUCTORS A97 AND A98 APPROX 18 TURNS PER FOOT
25- TWIST CONDUCTORS A99 AND A100 APPROX 18 TURNS PER FOOT
26- TWIST CONDUCTORS A112 AND A113 APPROX 18 TURNS PER FOOT
27- TWIST CONDUCTORS A130, A131 AND A132 APPROX 18 TURNS PER FOOT
28- TWIST CONDUCTORS A134, A135 AND A136 APPROX 18 TURNS PER FOOT
29- TWIST CONDUCTORS A138, A139 AND A140 APPROX 18 TURNS PER FOOT
30- TWIST CONDUCTORS A66, A68, A72 AND A73 APPROX 18 TURNS PER FOOT

31 PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A1

32 CONDUCTOR LENGTHS ARE FOR MFG. REF ONLY

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE REV LTR F SHEET 3 OF 20

PENNANT GENERAL NOTES

NOTE

33 TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

34 USE A FIGURE EIGHT TYPE STITCH IN BRANCH A BETWEEN SECTION B-B AND C-C (APPROXIMATELY 4"). WIDTH SHALL NOT EXCEED 5/16" PER BUNDLE. CONDUCTORS BREAKING OUT ON TOP SIDE TO TERMINATION POINTS 34 THRU 39, 43 & 44 SHALL BE ROUTED IN TOP BUNDLES.

35 INSULATION SHALL BE RECESSED INTO INSULATION CUP OF PIN BODY ON ALL CONDUCTORS TERMINATING IN TERMINATION NO. 1.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE REV LTR A SHEET 4 OF 20

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014580- 1	WIRE PER ND1002105 TYPE 6, WHT JKT 24AWG WHT. 147 FT 10 IN TOTAL LENGTH
	2	1	1014580- 2	WIRE PER ND1002105 TYPE 7-2, WHT JKT 24AWG WHITE, RED. 13 FT 6 IN TOTAL LENGTH
	3	1	1014580- 3	WIRE PER ND1002105 TYPE 7-3, WHT JKT 24AWG WHITE, RED, BLUE. 7 FT 10 IN TOTAL LENGTH
	4	1	1014580- 4	WIRE PER ND1002105 TYPE 1, 24AWG WHITE. 129 FT 8 IN TOTAL LENGTH
	5	1	1014580- 5	WIRE PER ND1002105 TYPE 1, 22AWG WHITE. 4 FT 11 IN TOTAL LENGTH
	6	10	1010490-170	INSULATION SLEEVING HEAT SHRINK
	7	5	1010490-168	INSULATION SLEEVING HEAT SHRINK
	8	127	1010490-082	INSULATION SLEEVING HEAT SHRINK
	9	33	1010490-080	INSULATION SLEEVING HEAT SHRINK
	10	10	1010402- 1	SOLDER SLEEVE
	11	12	1010402- 2	SOLDER SLEEVE
	12	13	1010490-172	INSULATION SLEEVING HEAT SHRINK
	13	6	1010650-1	CAP-SOLDER, ELECTRICAL CONDUCTOR, INSULATED
~~II~~	14	101	1010464-001	CONTACT ELECTRICAL
10	15	1	1010347- 1	CONNECTOR, PLUG, ELECTRICAL
	16	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR H
SHEET 5 OF 20

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	17	AR	QQ-S-571	FLUX AR (ES-2175 TYPE 1 OR 2) OR MIL 14256 FLUX (ES-2798)
	18	1	1010638-6	TERMINAL
	19	AR	MIL-T-713 TYPE P, CLASS 2, BLACK	TAPE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR F
SHEET 6 OF 20

CONDUCTOR				FROM							TO							
INDIVIDUAL LENGTH NUMBER		ITEM NO.	2	CIRCUIT POINT	CUT WIRE OR SHIELD 2	TIN	STRIP WIRE OR JACKET 2	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT	CUT WIRE OR SHIELD 2	TIN	STRIP WIRE OR JACKET 2	TERMINATION SPEC 1 ITEM NO.		NO.	
A	1	4	1100	A1- 1	25	Y		8		21	T1- 3	25	Y				22	
A	2	4	1500	A1- 2	25	Y		8		21	S3-2-C	25	Y		9		47	
A	3	4	1500	A1- 3	25	Y		8		21	S3-2-C	25	Y				47	
A	4	2	1850		450		425	6	7A			750		725	11	8A		
A	4B	4	600	E2	25	N				48	SHLD A4	25	Y					
A	4R			A1-12	25	Y		8		21	S11-4-NC	25	Y		8		27	
A	4W			A1- 4	25	Y	200	8		21	S11-11-NO	25	Y	200	8		28	
A	5	2	1750		250		225	6	7A			750		725	11	8A		
A	5B	4	600	E2	25	N				48	SHLD A5	25	Y					
A	5R			A1-10	25	Y		8		21	S11-3-NC	25	Y		8		27	
A	5W			A1- 8	25	Y		8		21	S11-9-NO	25	Y	100	8		28	
A	6	2	1400		250		225	6	7A			350		325	11	8A		
A	6B	4	600	E2	25	N				48	SHLD A6	25	Y					
A	6R			A1- 5	25	Y		8		21	S11-5-NC	25	Y		8		27	
A	6W			A1- 9	25	Y		8		21	S11-5-NO	25	Y		9		27	
A	7	2	1400		250		225	6	7A			350		325	11	8A		
A	7B	4	600	E2	25	N				48	SHLD A7	25	Y					
A	7R			A1- 6	25	Y		8		21	S11-6-NC	25	Y		8		27	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR H
SHEET 7 OF 2

CONDUCTOR				FROM							TO							
INDIVIDUAL LENGTH NUMBER		ITEM NO.	2	CIRCUIT POINT	CUT WIRE OR SHIELD 2	TIN	STRIP WIRE OR JACKET 2	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT	CUT WIRE OR SHIELD 2	TIN	STRIP WIRE OR JACKET 2	TERMINATION SPEC 1 ITEM NO.		NO.	
A	7W			A1- 7	25	Y		8		21	S11-6-NO	25	Y		9		27	
A	8	2	2050		250		225	11	8A			300		275	6	7A		B
A	8A	4	600	SHLD A8	25	Y					E3	25	N				51	
A	8R			P1- 80	10	N		14		1	T1- 1	25	Y		9		22	
A	8W			P1- 69	10	N		14		1	T1- 2	25	Y				22	
A	9	4	1100	S3-2-NO	25	Y		8		47	T1- 1	25	Y				22	
A	10	4	1100	S3-1-NC	25	Y		8		47	T1- 7	25	Y		8		22	
A	11	4	1100	S3-1-NO	25	Y		8		47	T1- 5	25	Y		8		22	
~~A~~	~~12~~	~~4~~	~~1100~~	~~S3-4-NO~~	~~25~~	~~Y~~		~~8~~		~~47~~	~~T1- 4~~	~~25~~	~~Y~~		~~8~~		~~22~~	
~~A~~	~~13~~	~~4~~	~~1100~~	~~S3-4-NC~~	~~25~~	~~Y~~		~~8~~		~~47~~	~~T1- 6~~	~~25~~	~~Y~~		~~8~~		~~22~~	
A	14	4	700	P1- 92	10	N		14		1	S16-7-C	25	Y				39	
A	15	4	850	P1- 74	10	N		14		1	S16-6-C	25	Y		8		39	
A	16	4	650	P1- 90	10	N		14		1	S16-4-C	25	Y				39	
A	17	4	750	P1-100	10	N		14		1	S16-3-C	25	Y				39	
A	18	4	750	P1- 88	10	N		14		1	S16-1-NO	25	Y		8		39	
A	19	4	750	P1- 87	10	N		14		1	S16-2-NO	25	Y		8		39	
A	20	4	750	P1-101	10	N		14		1	S16-3-NO	25	Y		8		39	
A	21	4	750	P1- 94	10	N		14		1	S16-4-NO	25	Y		9		39	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR H
SHEET 8 OF 20

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC	NO.	
A 30W			P1- 49	10	N		14		1	S15-8-C	25	Y		9		30	
A 31	1	1900					10	8A			225		200	12	7A		A
A 31A	4	600	SHLD A31	25	Y					E4	25	N				52	
A 31W			P1- 38	10	N		14		1	S15-8-NC	25	Y		9		30	
A 32	4	1050	S15-8-C	25	Y				30	S11-5-NO	25	Y				27	
A 33	4	1050	S15-8-NC	25	Y				30	S11-6-NO	25	Y				27	
A 34	4	2050	P1- 72	10	N		14		1	S11-1-NC	25	Y		8		27	
A 35	3	2300		400		375	11	8B			600		575	7	7A		B
A 35A	4	600	SHLD A35	25	Y					E5	25	N				53	
A 35L			P1- 37	10	N		14		1	S11-12-NC	25	Y		8		28	
A 35R			P1- 25	10	N		14		1	S11-2-NC	25	Y		8		27	
A 35W			P1- 36	10	N		14		1	S11-12-C	25	Y		9		28	
A 36	4	700	S11-12-C	25	Y				28	S11-2-C	25	Y		8		27	
A 37	4	2100	P1- 1	10	N		14		1	S15-7-NC	25	Y		9		30	A
A 38	4	1100	S15-7-NC	25	Y				30	S11-1-C	25	Y		9		27	
A 39	4	600	S11-1-C	25	Y				27	S14-2-C	25	Y		8		25	
A 41	1	2100		400		375	10	8B			400		375	12	7A		B
A 41A	4	600	SHLD A41	25	N					E5	25	N				53	

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014580

SCALE - NONE REV LTR F SHEET 10 OF 20

MIL 2085 - 4-63 WIR

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC	NO.	
A 41W			P1- 96	10	N		14		1	S11-5-C	25	Y		9		27	
A 42	4	500	S11-5-C	25	Y				27	S11-6-C	25	Y		9		27	
A 43	4	800	S11-6-C	25	Y				27	S4-1-NO	25	Y		8		26	
A 44	4	400	S15-6-NC	25	Y		8		30	S15-2-NC	25	Y		9		29	
A 45	4	700	S11-4-C	25	Y		8		27	S15-2-NC	25	Y				29	
A 46	4	800	S11-11-C	25	Y		8		28	S15-1-C	25	Y		8		29	
A 47	4	700	S11-4-NO	25	Y		8		27	S11-10-C	25	Y		8		28	
A 48	4	850	S11-10-NO	25	Y		8		28	S15-1-NC	25	Y				29	
A 49	2	1800		350		325	11	8B			250		225	6	7A		A
A 49A	4	600	SHLD A49	25	Y					E4	25	N				52	
A 49R			P1- 35	10	N		14		1	S15-2-C	25	Y		8		29	
A 49W			P1- 34	10	N		14		1	S15-2-NO	25	Y				29	
A 50	4	700	S11-3-C	25	Y		8		27	S15-4-NC	25	Y				29	
A 51	4	650	S11-9-C	25	Y		8		28	S15-3-C	25	Y		8		29	
A 52	4	700	S11-8-NO	25	Y		8		28	S15-3-NC	25	Y				29	
A 53	2	1700		350		325	11	8B			250		225	6	7A		A
A 53A	4	600	SHLD A53	25	Y					E4	25	N				52	
A 53R			P1- 19	10	N		14		1	S15-4-C	25	Y		8		29	

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014580

SCALE - NONE REV LTR F SHEET 11 OF 20

MIL 2085 - 4-63 WIR

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC	NO.	
A 22	4	500	S16-4-NO	25	Y				39	S16-8-NO	25	Y		8		39	
A 23	4	750	P1- 76	10	N		14		1	S16-5-NO	25	Y		8		39	
A 24	4	850	P1- 75	10	N		14		1	S16-6-NO	25	Y		8		39	
A 25	4	800	P1-105	10	N		14		1	S16-7-NO	25	Y		8		39	
A 26	1	2400		250		225	10	8A			250		225	12	7A		B
A 26A	4	600	SHLD A26	25	Y					E3	25	N				51	
A 26W			P1- 56	10	N		14		1	S11-8-NC	25	Y		8		28	
A 27	1	2600		250		225	10	8A			250		225	12	7A		B
A 27A	4	600	SHLD A27	25	Y					E3	25	N				51	
A 27W			P1- 47	10	N		14		1	S11-9-NC	25	Y		8		28	
A 28	1	2600		250		225	10	8A			300		275	12	7A		B
A 28A	4	600	SHLD A28	25	Y					E3	25	N				51	
A 28W			P1- 48	10	N		14		1	S11-10-NC	25	Y		8		28	
A 29	1	2300		250		225	10	8A			300		275	12	7A		B
A 29A	4	600	SHLD A29	25	Y					E3	25	N				51	
A 29W			P1- 57	10	N		14		1	S11-11-NC	25	Y		8		28	
A 30	1	1900		250		225	10	8A			225		200	12	7A		A
A 30A	4	600	SHLD A30	25	Y					E4	25	N				52	

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014580

SCALE - NONE REV LTR B A A SHEET 9 OF 20

MIL 2085 - 4-63 WIR

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC	NO.	
A 53W			P1- 33	10	N		14		1	S15-4-NO	25	Y				29	
A 54	4	2100	P1- 99	10	N		14		1	S15-7-C	25	Y		8		30	A
A 55	3	1 50		300		275	7	7A			575		550	11	8A		
A 55B	4	600	E2	25	N				48	SHLD A55	25	Y					
A 55L			S12-3-NO	25	Y		8		24	S15-5-C	25	Y		8		30	
A 55R			S12-2-NO	25	Y		8		24	S15-3-NO	25	Y	300			29	
A 55W			S12-1-NO	25	Y		8		24	S15-6-C	25	Y		8		30	
A 56	3	2200		300		275	11	8A			250		225	7	7A		B
A 56A	4	600	SHLD A56	25	Y					E5	25	N				53	
A 56W			P1- 10	10	N		14		1	S12-3-C	25	Y		8		24	
A 56L			P1- 24	10	N	50	14		1	S12-1-C	25	Y		8		24	
A 56R			P1- 23	10	N	25	14		1	S12-2-C	25	Y		8		24	
A 57	3	2200		350		325	11	8A			250		225	7	7A		B
A 57A	4	600	SHLD A57	25	Y					E5	25	N				53	
A 57L			P1- 22	10	N	100	14		1	S12-3-NC	25	Y		8		24	
A 57R			P1- 9	10	N	25	14		1	S12-2-NC	25	Y		8		24	
A 57W			P1- 8	10	N	50	14		1	S12-1-NC	25	Y		8		24	
A 58	4	1450	P1- 84	10	N		14		1	S17-2-NC	25	Y		9		45	

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014580

SCALE - NONE REV LTR B A SHEET 12 OF 20

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G H 50A1 A 1014580

CONDUCTOR			FROM								TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.			NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
A 77	4	1500	P1- 44	10	N		14			1	R1-CCW	25	Y				50	B
A 78	4	1400	P1- 26	10	N		14			1	S25-1-C	25	Y		8		46	
A 79	4	1400	P1- 63	10	N		14			1	S24-1-C	25	Y		9		46	
A 80	4	1400	P1- 64	10	N		14			1	S24-1-C	25	Y				46	
A 81	2	1800		250		225	11		8A			250		225	6	7A		
A 81A	4	600	SHLD A81	25	Y						E5	25	N				53	
A 81R			P1- 12	10	N		14			1	M1-LO	25	Y				7	
A 81W			P1- 11	10	N		14			1	M1-HI	25	Y				7	
A 82	4	500	P1- 13	10	N		14			1	R2-WIPER	25	Y		8		4	
A 83	4	1000	P1- 27	10	N		14			1	A2-E1	25	Y		8		37	
A 84	4	750	P1- 39	10	N		14			1	S22-1-C	25	Y				43	
A 85	4	1100	R2-LO	25	Y		8			4	A2-E9	25	Y		8		36	
A 86	4	1200	R2-HI	25	Y		8			4	A2-E2	25	Y		8		38	
A 87	4	1250	P1- 41	10	N		14			1	S10-1 ~~S10-1-1~~	25	Y		8		6	
A 88	4	1250	P1- 50	10	N		14			1	S10-3 ~~S10-1-3~~	25	Y				6	
~~A 89~~	~~4~~	~~1200~~	~~P1- 14~~	~~12~~	~~N~~		~~14~~			~~1~~	~~S1-4-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 90~~	~~4~~	~~1500~~	~~P1- 15~~	~~12~~	~~N~~		~~14~~			~~1~~	~~S1-3-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 91~~	~~4~~	~~1500~~	~~P1- 43~~	~~12~~	~~N~~		~~14~~			~~1~~	~~S1-2-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014580

SCALE - NONE REV LTR F SHEET 14 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM								TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.			NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
~~A 92~~	~~4~~	~~1500~~	~~P1- 50~~	~~12~~	~~N~~		~~14~~			~~1~~	~~S1-2-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 93	4	1500	P1- 73	10	N		14			1	S1-1-NC	25	Y		8		44	
~~A 94~~	~~4~~	~~1500~~	~~P1- 28~~	~~12~~	~~N~~		~~14~~			~~1~~	~~S1-2-C~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 95	4	1500	P1- 29	10	N		14			1	S1-3-C	25	Y		8		44	
A 96	4	2500	P1- 71	10	N		14			1	S4-3-NC	25	Y		8		26	B
A 97	4	2500	P1- 60	10	N		14			1	S4-2-NO	25	Y		8		26	B
A 98	4	2500	P1- 70	10	N		14			1	S4-2-C	25	Y		8		26	B
A 99	4	2450	P1- 2	10	N		14			1	S4-3-NO	25	Y		8		26	B
A 100	4	2400	P1- 21	10	N		14			1	S4-3-C	25	Y		8		26	B
A 101	1	2400		400			10		8B			200		175	12	7A		B
A 101A	4	600	SHLD A101	25	Y						E5	25	N				53	
A 101W			P1- 82	10	N		14			1	S4-1-C	25	Y		8		26	
A 102	4	2350	P1- 58	10	N		14			1	S14-1-NC	25	Y		8		25	
A 103	4	2350	P1- 59	10	N		14			1	S14-1-NO	25	Y		8		25	
A 104	3	1350		250		225	11	7	8A			250		225	7	7A		
A 104A	4	600	SHLD A104	25	Y						E6	25	N				54	
A 104L			P1- 42	10	N		14			1	S13-1-C	25	Y		8		8	
A 104R			P1- 31	10	N		14			1	S13-1-NO	25	Y		8		8	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014580

SCALE - NONE REV LTR F SHEET 15 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM								TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.			NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
A 59	4	1450	P1- 54	10	N		14			1	S17-1-NC	25	Y		9		45	
A 60	4	1550	S17-2-NC	25	Y					45	S12-4-NO	25	Y		8		24	
A 61	4	1550	S17-1-NC	25	Y					45	S12-4-NC	25	Y		9		24	
A 62	4	850	S12-4-C	25	Y		8			24	XDS12-HI	25	Y		8		23	
A 63	4	3000	S12-4-NC	25	Y					24	M1 LAMP-HI	25	Y		8		7	
A 64	4	2500	XDS 4-LO	25	Y		9			20	XDS 3-LO	25	Y		9		5	
A 65	4	2500	XDS 4-HI	25	Y		9			20	XDS 3-HI	25	Y				5	
A 66	4	2200	P1- 52	10	N		14			1	XDS12-LO	25	Y		9		23	A
A 67	4	1300	P1- 61	10	N		14			1	S1-3-NC	25	Y				44	
A 68	4	2400	P1- 62	10	N		14			1	S2-1-C	25	Y		9		19	A
A 69	4	1400 ~~700~~	S1-4-C	25	Y					44	S18-3-NC ~~S17-1-C~~	25	Y				31 ~~45~~	
A 70	4	600	S17-2-C	25	Y					45	S24-1-NO	25	Y		9		46	
~~A 71~~	~~4~~	~~700~~	~~S24-1-NO~~	~~25~~	~~Y~~					~~46~~	~~S18-1-NC~~	~~25~~	~~Y~~		~~9~~		~~31~~	
A 72	4	1400	S24-1-NO	25	Y					46	S2-1-C	25	Y				19	
A 73	4	900	XDS12-LO	25	Y					23	XDS 4-LO	25	Y				20	
A 74	4	600	S2-1-NC	25	Y		8			19	XDS 4-HI	25	Y				20	
A 75	4	1500	P1- 32	10	N		14			1	S25-1-NO	25	Y		9		46	
A 76	4	450	S25-1-NO	25	Y					46	R1-CW	25	Y		8		49	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014580

SCALE - NONE REV LTR E SHEET 13 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM								TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.			NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
A 104W			P1- 30	10	N		14			1	S13-1-NC	25	Y		8		8	
A 105	2	1700		350		325	11		8B			350		325	6	7A		A
A 105A	4	600	SHLD A105	25	Y						E6	25	N				54	
A 105R			P1- 55	10	N		14			1	S18-2-NO	25	Y		8		31	
A 105W			P1- 46	10	N		14			1	S18-2-NC	25	Y		8		31	
A 106	1	1700		350		325	10		8B			350		325	12	7A		
A 106A	4	600	SHLD A106	25	Y						E6	25	N				54	
A 106W			P1- 53	10	N		14			1	S18-1-NC	25	Y				31	
A 107	~~4~~	~~900~~	~~S18-3-NC~~	~~25~~	~~Y~~		~~8~~			~~31~~	~~S21-3-NC~~	~~25~~	~~Y~~				~~33~~	
A 108	4	2100 ~~1500~~	P1- 51	10	N		14			1	S18-3-NC ~~S20-2-NC~~	25	Y				31 ~~32~~	
A 109	4	900	S18-3-C	25	Y		8			31	S21-1-C	25	Y				33	
A 110	4	1100	P1- 66	10	N		14			1	S9-2-C	25	Y				34	
A 111	2	1100		250		225	11		8A			250		225	6	7A		
A 111A	4	600	SHLD A111	25	Y						E6	25	N				54	
A 111R			P1- 95	10	N		14			1	S9-1-C	25	Y				34	
A 111W			P1- 81	10	N		14			1	S9-1-NO	25	Y				34	
A 112	4	1250	P1- 65	10	N		14			1	S9-2-NO	25	Y		8		34	
A 113	4	1550	P1- 77	10	N		14			1	S9-7-NO	25	Y		8		35	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014580

SCALE - NONE REV LTR F SHEET 16 OF 20

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC	NO.
A 114	4	1550	P1- 67	10	N		14		1	S9-8-C	25	Y				35
A 115	4	1500	P1- 78	10	N		14		1	S20-2-C	25	Y		8		32
A 116	4	1700	P1- 79	10	N		14		1	S21-3-C	25	Y		8		33
A 117	1	1500		250		225	10	8A			225		200	12	7A	
A 117A	4	600	SHLD A117	25	Y					E6	25	N				54
A 117W			P1- 68	10	N		14		1	S20-4-C	25	Y				32
A 118	4	1700	P1- 93	10	N		14		1	S21-3-NO	25	Y		8		33
A 119	4	1500	P1-106	10	N		14		1	S20-2-NO	25	Y		8		32
A 120	4	800	P1- 85	10	N		14		1	S7-2-C	25	Y		8		40
A 121	4	850	P1- 86	10	N		14		1	S23-1-NO	25	Y		8		41
A 122	4	800	P1- 89	10	N		14		1	S7-2-NC	25	Y		8		40
A 123	4	700	P1- 97	10	N		14		1	S8-1-NO	25	Y		8		42
A 124	4	800	P1- 98	10	N		14		1	S7-1-C	25	Y		8		40
A 125	4	800	P1-102	10	N		14		1	S23-1-NC	25	Y		8		41
A 126	4	700	P1-103	10	N		14		1	S8-1-NC	25	Y		8		42
A 127	4	850	P1-104	10	N		14		1	S7-1-NC	25	Y		8		40
A 128	4	700	S7-1-NO	25	Y		8		40	S8-1-C	25	Y		8		42
A 129	4	600	S7-2-NO	25	Y		8		40	S23-1-C	25	Y		8		41

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR A | SHEET 17 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC	NO.
A 130	4	1050	P1- 16	10	N		14		1	S19-5-C	25	Y		9		12
A 131	4	1200	P1- 17	10	N		14		1	S19-6-NO	25	Y		8		15
A 132	4	1050	P1- 3	10	N		14		1	S19-5-NO	25	Y		8		12
A 133	4	1300	S19-5-C	25	Y				12	S19-6-C	25	Y		8		16
A 134	4	900	P1- 7	10	N		14		1	S19-4-C	25	Y		9		11
A 135	4	900	P1- 6	10	N		14		1	S19-4-NO	25	Y		8		11
A 136	4	1200	P1- 20	10	N		14		1	S19-3-NO	25	Y		8		17
A 137	4	1500	S19-4-C	25	Y				11	S19-3-C	25	Y		8		18
A 138	4	1200	P1- 5	10	N		14		1	S19-2-NO	25	Y		8		9
A 139	4	1010	P1- 4	10	N		14		1	S19-1-NO	25	Y		8		14
A 140	4	1000	P1- 18	10	N		14		1	S19-1-C	25	Y		9		14A
A 141	4	1300	S19-1-C	25	Y				13	S19-2-C	25	Y		8		10
A 142	5	800	P1- 91	10	N		14		1	E1	25	N		18		3
A 143	5	1000	P1- 83	10	N		14		1	E7	25	N		13		2
A 144	5	300	E6	25	N		13		54	E7	25	N				2
A 145	5	300	E5	25	N		13		53	E7	25	N				2
A 146	5	300	E4	25	N		13		52	E7	25	N				2
A 147	5	300	E3	25	N		13		51	E7	25	N				2

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE NONE | REV LTR E | SHEET 18 OF 20

MIL 2085 - 4-63 WIR

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

G H 50A1 A 1014580

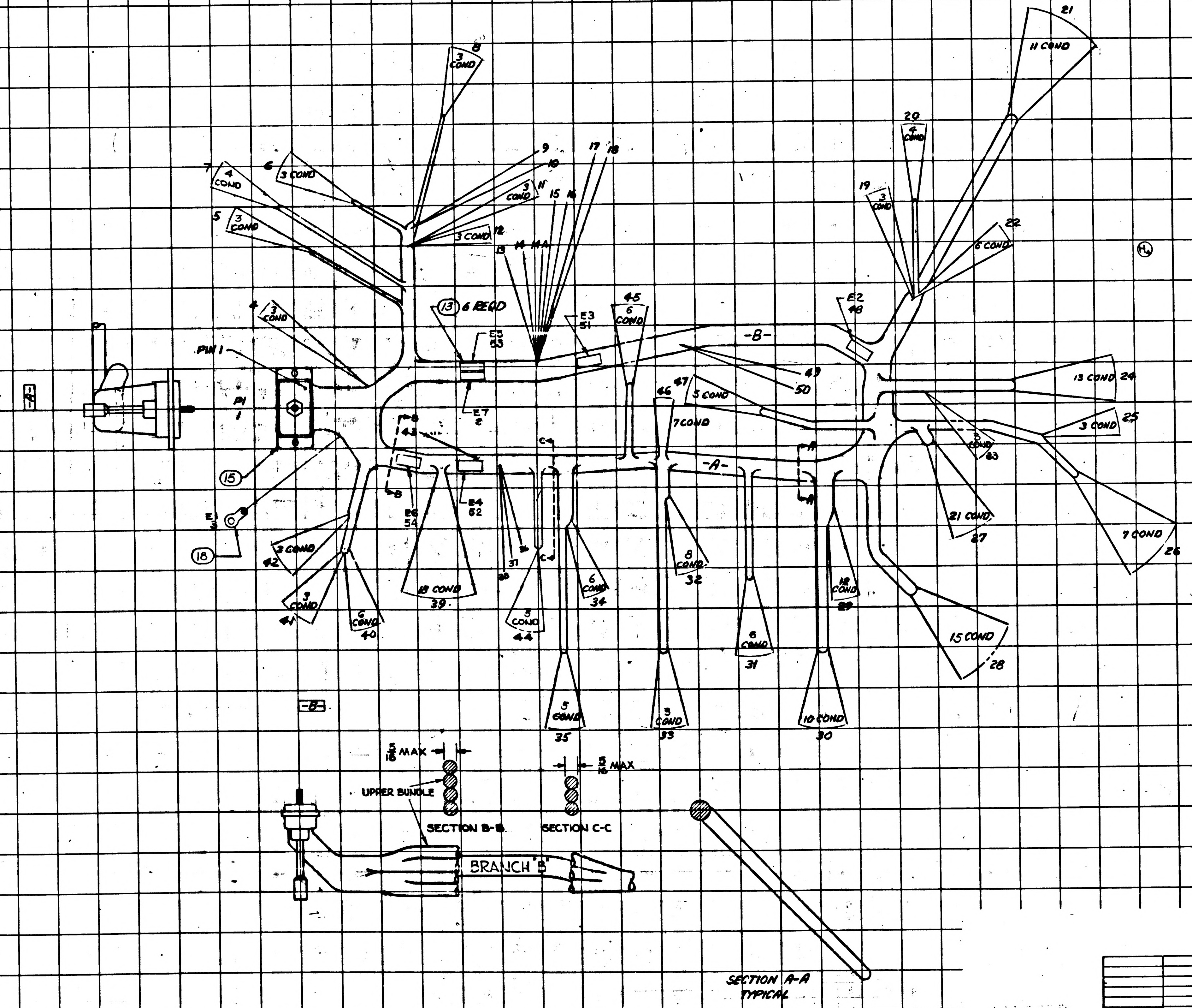
CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	SPEC	NO.
A 148	5	1900	E2	25	N		13		48	E7	25	N				2
A 149	4	1250	P1- 40	10	N		14		1	S70-5 ~~S10-1-8~~	25	Y		8		6
A 150	4	1200	XDS3-LO	25	Y				5	M1 LAMP-LO	25	Y		8		7
A 151	4	1000	S17-1-C	25	Y				45	S1-3-NC	25	Y				44
A 152	4	1200	S11-3-NO	25	Y		8		27	S11-8-C	25	Y		8		28
A 153	4	1000	S20-1-C	25	Y				32	S9-4-NO	25	Y		9		34
A 154	4	1200	S9-8-NO	25	Y				35	S20-2-NC	25	Y		9		32
A 155	4	1200	S9-5-C	25	Y				35	S20-4-NC	25	Y		9		32
A 156	4	1000	S9-4-C	25	Y				34	S20-1-NC	25	Y		9		32
A 157	4	1200	S9-5-NO	25	Y				35	S20-3-C	25	Y		9		32

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR E | SHEET 19 OF 20

MIL 2085 - 4-63 WIR

C	TDRR 02420			
D	TDRR 02524			
E	TDRR 5249 (23Dec63)			
F	TDRR 5252 (23Dec63)			
H6	REVISED PER TDRR NO. 06369	25 FEB 64		


-A-
PIN 1
P1
1
15
E3
18
3 COND
8
4
3 COND
7
4 COND
6
3 COND
5
3 COND
9
10
11
3 COND
12
3 COND
13
14
14A
15
16
17
18
13 6 REQD
E5
53
E3
51
E7
2
45
6 COND
-B-
49
50
E2
48
19
3 COND
20
4 COND
21
11 COND
22
6 COND
13 COND 24
3 COND 25
3 COND
23
7 COND
26
21 COND
27
15 COND
28
47
5 COND
46
7 COND
-A-
A
A
43
B
B
E6
54
E4
52
C
C
3 COND
42
3 COND
41
6 COND
40
13 COND
39
38
37
36
5 COND
44
6 COND
34
8 COND
32
6 COND
31
12 COND
29
5 COND
35
3 COND
33
10 COND
30
-B-
5/16 MAX
5/16 MAX
UPPER BUNDLE
SECTION B-B
SECTION C-C
BRANCH "B"
SECTION A-A
TYPICAL
H6

		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ±	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
		DO NOT SCALE THIS DRAWING	ACSP PN	
			DRAWN DATE 15 JULY 63	WIRING HARNESS A G&N INDICATOR CONTROL PANEL
			CHECKED PIOJDA 18 JUN 63	
			APPROVAL E. J. MORAN 18 JUN	
			APPROVAL A KODEL 20 JUN 63	
		MATERIAL	NASA APPROVAL 8/7/63	CODE IDENT NO. — SIZE E — 1014580
NEXT ASSY	USED ON			
APPLICATION		CONTRACT NAS-9-497	MIT APPROVAL Aug 63	SCALE 1/1 — SHEET 20 OF 20

1014580 H

SYM	DESCRIPTION	DATE	APPROVAL
J	REVISED PER TDRR NO. 06723	10 MAR 64	WK
K	REVISED PER TDRR NO. 06870	17 MAR 64	WK

MANNED SPACECRAFT CENTER HOUSTON TEXAS
REVISION J
NASA DRAWING NO.
SHEET 1A OF 20

G H 50A1 A 1014580

PENNANT

GENERAL NOTES

NOTE

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK CONDUCTOR IDENTIFICATION OMITTING ALL SUFFIX LETTERS EXCEPT A,B,C, AND D PER ND1002019. (ES-2475-7).

~~5 TAPE HARNESS USING ND . 3/4 INCH WIDE (ES-2716-2 WHITE)~~

6 SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 16 AND 17

7 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

8 GRID MODULE IS 1 INCH.

9 UNLESS OTHERWISE SPECIFIED -
FEATURE CENTERLINES ARE LOCATED WITHIN + OR - 1/4 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - 1/8 INCH

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

~~11 QTY 106 REQUIRED. FURNISHED WITH ITEM 15 . ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.~~

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING OR CONDUCTOR COLOR.
A - FROM END SHIELD
B - TO END SHIELD
L - BLUE
R - RED
W - WHITE

13 INSTALL CRIMP STYLE TERMINALS IN ACCORDANCE WITH ND1002206.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A 1014580
SCALE - NONE REV LTR F SHEET 2 OF 20

MIL 2084 4-63

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014578		A	COMPLETELY REVISED	23 JULY	
		B	REVISED WIRE LENGTHS TOTALS (SHEET 8)	23 JULY 63	JRS
		C1	Ⓒ UPGRADED FOR CLASS A RELEASE TDRR 02427	5 AUG 63	WK
		D4	Ⓓ ITEM 4, 1014580-4 WAS 130FT 5IN (SH5) Ⓓ REMD COND A107 Ⓓ REVISED COND A108 LENGTH WAS 15.00. "TO" CIR PT WAS S20-2-NC. "TO" TERM. NO. WAS 92 (SH16) Ⓓ TERM. NO.'S 32 & 83 WERE 4 COND. (SH20) TDRR 02624	13 AUG 63	WK
		E	REVISED PER TDRR NO. 05249	20 DEC 63	WK
		F	REVISED PER TDRR NO. 05252	20 DEC 63	WK
		G	REVISED PER TDRR NO. 06166	4 FEB 64	WK
		H6	REVISED PER TDRR NO. 06369	25 FEB 64	WK

REV STATUS REV	K	F	F	A	J	F	H	H	A	F	F	A	K	P	K	E	A	E	K	H
OF SHEETS SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Charleston 14 Jun 63

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

MANNED SPACECRAFT CENTER HOUSTON, TEXAS

ACSP PN
DRAWN E. M. Kulo DATE 31 MAY 63
CHECKED C. Pizzola 18 JUN 63
APPROVAL J. J. Moran 19 JUNE 63
APPROVAL 20 JUN 63
NASA APPROVAL 7/17/63
MIT APPROVAL 63
CONTRACT NAS9-497

WIRING HARNESS "A"
G&N INDICATOR CONTROL PANEL

CODE IDENT NO. SIZE A 1014580
SCALE — Added sheet 1A per TDRR 06369 SHEET 1 OF 20

G H 50A1 A 1014580

PENNANT

GENERAL NOTES

NOTE

14 BIND WIRES TOGETHER PER ND1002032 USING MIL-T-713, TYPE P, CLASS 2 TAPE. FORM RUNNING LOCKSTITCH AT 1/2 INCH SPACING.

15 TWIST CONDUCTORS A1,A2 AND A3 APPROX 18 TURNS PER FOOT
16- TWIST CONDUCTORS A32 AND A33 APPROX 18 TURNS PER FOOT
17- TWIST CONDUCTORS A58 AND A59 APPROX 18 TURNS PER FOOT
18- TWIST CONDUCTORS A60 AND A61 APPROX 18 TURNS PER FOOT
19- TWIST CONDUCTORS A63,A64 AND A65 APPROX 18 TURNS PER FOOT
20- TWIST CONDUCTORS A66,A67,A68,A79 AND A80 APPROX 18 TURNS PER FOOT
~~21- TWIST CONDUCTORS A90 AND A91 APPROX 4 TURNS PER FOOT~~
~~22- TWIST CONDUCTORS A92 AND A93 APPROX 4 TURNS PER FOOT~~
~~23- TWIST CONDUCTORS A94 AND A95 APPROX 4 TURNS PER FOOT~~
24- TWIST CONDUCTORS A97 AND A98 APPROX 18 TURNS PER FOOT
25- TWIST CONDUCTORS A99 AND A100 APPROX 18 TURNS PER FOOT
26- TWIST CONDUCTORS A112 AND A113 APPROX 18 TURNS PER FOOT
27- TWIST CONDUCTORS A130,A131 AND A132 APPROX 18 TURNS PER FOOT
28- TWIST CONDUCTORS A134,A135 AND A136 APPROX 18 TURNS PER FOOT
29- TWIST CONDUCTORS A138,A139 AND A140 APPROX 18 TURNS PER FOOT
30- TWIST CONDUCTORS A66,A68,A72 AND A73 APPROX 18 TURNS PER FOOT

31 PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A1

32 CONDUCTOR LENGTHS ARE FOR MFG. REF ONLY

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A 1014580
SCALE - NONE REV LTR F SHEET 3 OF 20

MIL 2084 4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G H 50A1 A 1014580

PENNANT LIST OF MATERIALS

PENNANT NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014580- 1	WIRE PER ND1002105 TYPE 6, WHT JKT 24AWG WHT. 117 FT 10 IN TOTAL LENGTH
	2	1	1014580- 2	WIRE PER ND1002105 TYPE 7-2, WHT JKT 24AWG WHITE, RED. 13 FT 6 IN TOTAL LENGTH
	3	1	1014580- 3	WIRE PER ND1002105 TYPE 7-3, WHT JKT 24AWG WHITE, RED, BLUE. 7 FT 10 IN TOTAL LENGTH
	4	1	1014580- 4	WIRE PER ND1002105 TYPE 1, 24AWG WHITE. 129 FT 8 IN TOTAL LENGTH
	5	1	1014580- 5	WIRE PER ND1002105 TYPE 1, 22AWG WHITE. 4 FT 1 IN TOTAL LENGTH
	6	10	1010490-170	INSULATION SLEEVING HEAT SHRINK
	7	5	1010490-168	INSULATION SLEEVING HEAT SHRINK
	8	127	1010490-082	INSULATION SLEEVING HEAT SHRINK
	9	33	1010490-080	INSULATION SLEEVING HEAT SHRINK
	10	10	1010402- 1	SOLDER SLEEVE
	11	12	1010402- 2	SOLDER SLEEVE
	12	13	1010490-172	INSULATION SLEEVING HEAT SHRINK
	13	6	1010650-1	CAP-SOLDER, ELECTRICAL CONDUCTOR, INSULATED
II	14	101	1010738-1	CONTACT ELECTRICAL
10	15	1	1010347- 1	CONNECTOR, PLUG, ELECTRICAL
	16	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR J
SHEET 5 OF 20

MIL 2084 4-63

G H 50A1 A 1014580

PENNANT LIST OF MATERIALS

PENNANT NOTE	ITEM	QTY	PART NO	DESCRIPTION
	17	AR	QQ-S-571	FLUX AR (ES-2175 TYPE 1 OR 2) OR MIL 14256 FLUX (ES-2798)
	18	1	1010638-6	TERMINAL
	19	AR	MIL-T-713 TYPE P, CLASS 2, BLACK	TAPE

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR F
SHEET 6 OF 20

MIL 2084 4-63

G H 50A1 A 1014580

PENNANT NOTE

GENERAL NOTES

33 TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

34 USE A FIGURE EIGHT TYPE STITCH IN BRANCH A BETWEEN SECTION B-B AND C-C (APPROXIMATELY 4"). WIDTH SHALL NOT EXCEED 5/16" PER BUNDLE. CONDUCTORS BREAKING OUT ON TOP SIDE TO TERMINATION POINTS 34 THRU 39, 43 & 44 SHALL BE ROUTED IN TOP BUNDLES.

35 INSULATION SHALL BE RECESSED INTO INSULATION CUP OF PIN BODY ON ALL CONDUCTORS TERMINATING IN TERMINATION NO. 1.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR A
SHEET 4 OF 20

MIL 2084 4-63

G H 50A1 A 1014580

CONDUCTOR		INDIVIDUAL LENGTH		FROM						TO					
	NUMBER	ITEM NO.	2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.
A	1	4	1100	A1- 1	25	Y		8	21	T1- 3	25	Y			22
A	2	4	1500	A1- 2	25	Y		8	21	S3-2-C	25	Y		9	47
A	3	4	1500	A1- 3	25	Y		8	21	S3-2-C	25	Y			47
A	4	2	1850		450		425	6 7A			750		725	11 8A	
A	4B	4	600	E2	25	N			48	SHLD A4	25	Y			
A	4R			A1-12	25	Y		8	21	S11-4-NC	25	Y		8	27
A	4W			A1- 4	25	Y	200	8	21	S11-11-NO	25	Y	200	8	28
A	5	2	1750		250		225	6 7A			750		725	11 8A	
A	5B	4	600	E2	25	N			48	SHLD A5	25	Y			
A	5R			A1-10	25	Y		8	21	S11-3-NC	25	Y		8	27
A	5W			A1- 8	25	Y		8	21	S11-9-NO	25	Y	100	8	28
A	6	2	1400		250		225	6 7A			350		325	11 8A	
A	6B	4	600	E2	25	N			48	SHLD A6	25	Y			
A	6R			A1- 5	25	Y		8	21	S11-5-NC	25	Y		8	27
A	6W			A1- 9	25	Y		8	21	S11-5-NO	25	Y		9	27
A	7	2	1400		250		225	6 7A			350		325	11 8A	
A	7B	4	600	E2	25	N			48	SHLD A7	25	Y			
A	7R			A1- 6	25	Y		8	21	S11-6-NC	25	Y		8	27

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR H
SHEET 7 OF 20

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT 2	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.		NO.	
A 22	4	500	S16-4-NO	25	Y				39	S16-8-NO	25	Y		8		39	
A 23	4	750	P1- 76	10	N		14		1	S16-5-NO	25	Y		8		39	
A 24	4	850	P1- 75	10	N		14		1	S16-6-NO	25	Y		8		39	
A 25	4	800	P1-105	10	N		14		1	S16-7-NO	25	Y		8		39	
A 26	1	2400		250		225	10	8A			250		225	12	7A		B
A 26A	4	600	SHLD A26	25	Y					E3	25	N				51	
A 26W			P1- 56	10	N		14		1	S11-8-NC	25	Y		8		28	
A 27	1	2600		250		225	10	8A			250		225	12	7A		B
A 27A	4	600	SHLD A27	25	Y					E3	25	N				51	
A 27W			P1- 47	10	N		14		1	S11-9-NC	25	Y		8		28	
A 28	1	2600		250		225	10	8A			300		275	12	7A		B
A 28A	4	600	SHLD A28	25	Y					E3	25	N				51	
A 28W			P1- 48	10	N		14		1	S11-10-NC	25	Y		8		28	
A 29	1	2300		250		225	10	8A			300		275	12	7A		B
A 29A	4	600	SHLD A29	25	Y					E3	25	N				51	
A 29W			P1- 57	10	N		14		1	S11-11-NC	25	Y		8		28	
A 30	1	1900		250		225	10	8A			225		200	12	7A		A
A 30A	4	600	SHLD A30	25	Y					E4	25	N				52	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR [illegible] A A | SHEET 9 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT 2	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.		NO.	
A 30W			P1- 49	10	N		14		1	S15-8-C	25	Y		9		30	
A 31	1	1900					10	8A			225		200	12	7A		A
A 31A	4	600	SHLD A31	25	Y					E4	25	N				52	
A 31W			P1- 38	10	N		14		1	S15-8-NC	25	Y		9		30	
A 32	4	1050	S15-8-C	25	Y				30	S11-5-NO	25	Y				27	
A 33	4	1050	S15-8-NC	25	Y				30	S11-6-NO	25	Y				27	
A 34	4	2050	P1- 72	10	N		14		1	S11-1-NC	25	Y		8		27	
A 35	3	2300		400		375	11	8B			600		575	7	7A		B
A 35A	4	600	SHLD A35	25	Y					E5	25	N				53	
A 35L			P1- 37	10	N		14		1	S11-12-NC	25	Y		8		28	
A 35R			P1- 25	10	N		14		1	S11-2-NC	25	Y		8		27	
A 35W			P1- 36	10	N		14		1	S11-12-C	25	Y		9		28	
A 36	4	700	S11-12-C	25	Y				28	S11-2-C	25	Y		8		27	
A 37	4	2100	P1- 1	10	N		14		1	S15-7-NC	25	Y		9		30	A
A 38	4	1100	S15-7-NC	25	Y				30	S11-1-C	25	Y		9		27	
A 39	4	600	S11-1-C	25	Y				27	S14-2-C	25	Y		8		25	
A 41	1	2100		400		375	10	8B			400		375	12	7A		B
A 41A	4	600	SHLD A41	25	N					E5	25	N				53	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR F | SHEET 10 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT 2	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.		NO.	
A 7W			A1- 7	25	Y		8		21	S11-6-NO	25	Y		9		27	
A 8	2	2050		250		225	11	8A			300		275	6	7A		B
A 8A	4	600	SHLD A8	25	Y					E3	25	N				51	
A 8R			P1- 80	10	N		14		1	T1- 1	25	Y		9		22	
A 8W			P1- 69	10	N		14		1	T1- 2	25	Y				22	
A 9	4	1100	S3-2-NO	25	Y		8		47	T1- 1	25	Y				22	
A 10	4	1100	S3-1-NC	25	Y		8		47	T1- 7	25	Y		8		22	
A 11	4	1100	S3-1-NO	25	Y		8		47	T1- 5	25	Y		8		22	
~~A 12~~	~~4~~	~~1100~~	~~S3-4-NO~~	~~25~~	~~Y~~		~~8~~		~~47~~	~~T1- 4~~	~~25~~	~~Y~~		~~8~~		~~22~~	
~~A 13~~	~~4~~	~~1100~~	~~S3-4-NC~~	~~25~~	~~Y~~		~~8~~		~~47~~	~~T1- 6~~	~~25~~	~~Y~~		~~8~~		~~22~~	
A 14	4	700	P1- 92	10	N		14		1	S16-7-C	25	Y				39	
A 15	4	850	P1- 74	10	N		14		1	S16-6-C	25	Y		8		39	
A 16	4	650	P1- 90	10	N		14		1	S16-4-C	25	Y				39	
A 17	4	750	P1-100	10	N		14		1	S16-3-C	25	Y				39	
A 18	4	750	P1- 88	10	N		14		1	S16-1-NO	25	Y		8		39	
A 19	4	750	P1- 87	10	N		14		1	S16-2-NO	25	Y		8		39	
A 20	4	750	P1-101	10	N		14		1	S16-3-NO	25	Y		8		39	
A 21	4	750	P1- 94	10	N		14		1	S16-4-NO	25	Y		9		39	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR H | SHEET 8 OF 20

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT 2	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.		NO.	
A 41W			P1- 96	10	N		14		1	S11-5-C	25	Y		9		27	
A 42	4	500	S11-5-C	25	Y				27	S11-6-C	25	Y		9		27	
A 43	4	800	S11-6-C	25	Y				27	S4-1-NO	25	Y		8		26	
A 44	4	400	S15-6-NC	25	Y		8		30	S15-2-NC	25	Y		9		29	
A 45	4	700	S11-4-C	25	Y		8		27	S15-2-NC	25	Y				29	
A 46	4	800	S11-11-C	25	Y		8		28	S15-1-C	25	Y		8		29	
A 47	4	700	S11-4-NO	25	Y		8		27	S11-10-C	25	Y		8		28	
A 48	4	850	S11-10-NO	25	Y		8		28	S15-1-NC	25	Y				29	
A 49	2	1800		350		325	11	8B			250		225	6	7A		A
A 49A	4	600	SHLD A49	25	Y					E4	25	N				52	
A 49R			P1- 35	10	N		14		1	S15-2-C	25	Y		8		29	
A 49W			P1- 34	10	N		14		1	S15-2-NO	25	Y				29	
A 50	4	700	S11-3-C	25	Y		8		27	S15-4-NC	25	Y				29	
A 51	4	650	S11-9-C	25	Y		8		28	S15-3-C	25	Y		8		29	
A 52	4	700	S11-8-NO	25	Y		8		28	S15-3-NC	25	Y				29	
A 53	2	1700		350		325	11	8B			250		225	6	7A		A
A 53A	4	600	SHLD A53	25	Y					E 4	25	N				52	
A 53R			P1- 19	10	N		14		1	S15-4-C	25	Y		8		29	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

ⓡ

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR F | SHEET 11 OF 20

MIL 2085 - 4-63 WIR

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
A 59	4	1450	P1- 54	10	N		14		1	S17-1-NC	25	Y		9		45	
A 60	4	1550	S17-2-NC	25	Y				45	S12-4-NO	25	Y		8		24	
A 61	4	1550	S17-1-NC	25	Y				45	S12-4-NC	25	Y		9		24	
A 62	4	850	S12-4-C	25	Y		8		24	XDS12-HI	25	Y		8		23	
A 63	4	3000	S12-4-NC	25	Y				24	M1 LAMP-HI	25	Y		8		7	
A 64	4	2500	XDS 4-LO	25	Y		9		20	XDS 3-LO	25	Y		9		5	
A 65	4	2500	XDS 4-HI	25	Y		9		20	XDS 3-HI	25	Y				5	
A 66	4	2200	P1- 52	10	N		14		1	XDS12-LO	25	Y		9		23	A
A 67	4	1300	P1- 61	10	N		14		1	S1-2-NC	25	Y				44	
A 68	4	2400	P1- 62	10	N		14		1	S2-1-C	25	Y		9		19	A
A 69	4	14.00 ~~700~~	S1-1-C	25	Y				44	S18-3-NC ~~S17-1-C~~	25	Y				31 ~~45~~	
A 70	4	600	S17-2-C	25	Y				45	S24-1-NO	25	Y		9		46	
~~A 71~~	~~4~~	~~700~~	~~S24-1-NO~~	~~25~~	~~Y~~				~~46~~	~~S18-1-NC~~	~~25~~	~~Y~~		~~9~~		~~31~~	
A 72	4	1400	S24-1-NO	25	Y				46	S2-1-C	25	Y				19	
A 73	4	900	XDS12-LO	25	Y				23	XDS 4-LO	25	Y				20	
A 74	4	600	S2-1-NC	25	Y		8		19	XDS 4-HI	25	Y				20	
A 75	4	1500	P1- 32	10	N		14		1	S25-1-NO	25	Y		9		46	
A 76	4	450	S25-1-NO	25	Y				46	R1-CW	25	Y		8		49	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR K
SHEET 13 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
A 77	4	1500	P1- 44	10	N		14		1	R1-CCW	25	Y				50	B
A 78	4	1400	P1- 26	10	N		14		1	S25-1-C	25	Y		8		46	
A 79	4	1400	P1- 63	10	N		14		1	S24-1-C	25	Y		9		46	
A 80	4	1400	P1- 64	10	N		14		1	S24-1-C	25	Y				46	
A 81	2	1800		250		225	11	8A			250		225	6	7A		
A 81A	4	600	SHLD A81	25	Y					E5	25	N				53	
A 81R			P1- 12	10	N		14		1	M1-LO	25	Y				7	
A 81W			P1- 11	10	N		14		1	M1-HI	25	Y				7	
A 82	4	500	P1- 13	10	N		14		1	R2-WIPER	25	Y		8		4	
A 83	4	1000	P1- 27	10	N		14		1	A2-E1	25	Y		8		37	
A 84	4	750	P1- 39	10	N		14		1	S22-1-C	25	Y				43	
A 85	4	1100	R2-LO	25	Y		8		4	A2-E9	25	Y		8		36	
A 86	4	1200	R2-HI	25	Y		8		4	A2-E2	25	Y		8		38	
A 87	4	1250	P1- 41	10	N		14		1	S10-1 ~~S10-1-1~~	25	Y		8		6	
A 88	4	1250	P1- 50	10	N		14		1	S10-3 ~~S10-1-3~~	25	Y				6	
~~A 89~~	~~4~~	~~1200~~	~~P1- 14~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-4-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 90~~	~~4~~	~~1500~~	~~P1- 15~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-3-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 91~~	~~4~~	~~1500~~	~~P1- 43~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR F
SHEET 14 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
A 53W			P1- 33	10	N		14		1	S15-4-NO	25	Y				29	
A 54	4	2100	P1- 99	10	N		14		1	S15-7-C	25	Y		8		30	A
A 55	3	1350		300		275	7	7A			575		550	11	8A		
A 55B	4	600	E2	25	N				48	SHLD A55	25	Y					
A 55L			S12-3-NO	25	Y		8		24	S15-5-C	25	Y		8		30	
A 55R			S12-2-NO	25	Y		8		24	S15-3-NO	25	Y	300			29	
A 55W			S12-1-NO	25	Y		8		24	S15-6-C	25	Y		8		30	
A 56	3	2200		300		275	11	8A			250		225	7	7A		B
A 56A	4	600	SHLD A56	25	Y					E5	25	N				53	
A 56W			P1- 10	10	N		14		1	S12-3-C	25	Y		8		24	
A 56L			P1- 24	10	N	50	14		1	S12-1-C	25	Y		8		24	
A 56R			P1- 23	10	N	25	14		1	S12-2-C	25	Y		8		24	
A 57	3	2200		350		325	11	8A			250		225	7	7A		B
A 57A	4	600	SHLD A57	25	Y					E5	25	N				53	
A 57L			P1- 22	10	N	100	14		1	S12-3-NC	25	Y		8		24	
A 57R			P1- 9	10	N	25	14		1	S12-2-NC	25	Y		8		24	
A 57W			P1- 8	10	N	50	14		1	S12-1-NC	25	Y		8		24	
A 58	4	1450	P1- 84	10	N		14		1	S17-2-NC	25	Y		9		45	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR A
SHEET 12 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
~~A 92~~	~~4~~	~~1500~~	~~P1- 59~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 93	4	1500	P1- 73	10	N		14		1	S1-1-NC	25	Y		8		44	
~~A 94~~	~~4~~	~~1500~~	~~P1- 28~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-C~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 95	4	1500	P1- 29	10	N		14		1	S1-2-C	25	Y		8		44	
A 96	4	2500	P1- 71	10	N		14		1	S4-3-NC	25	Y		8		26	B
A 97	4	2500	P1- 60	10	N		14		1	S4-2-NO	25	Y		8		26	B
A 98	4	2500	P1- 70	10	N		14		1	S4-2-C	25	Y		8		26	B
A 99	4	2450	P1- 2	10	N		14		1	S4-3-NO	25	Y		8		26	B
A 100	4	2400	P1- 21	10	N		14		1	S4-3-C	25	Y		8		26	B
A 101	1	2400		400			10	8B			200		175	12	7A		B
A 101A	4	600	SHLD A101	25	Y					E5	25	N				53	
A 101W			P1- 82	10	N		14		1	S4-1-C	25	Y		8		26	
A 102	4	2350	P1- 58	10	N		14		1	S14-1-NC	25	Y		8		25	
A 103	4	2350	P1- 59	10	N		14		1	S14-1-NO	25	Y		8		25	
A 104	3	1350		250		225	11	8A			250		225	7	7A		
A 104A	4	600	SHLD A104	25	Y					E6	25	N				54	
A 104L			P1- 42	10	N		14		1	S13-1-C	25	Y		8		8	
A 104R			P1- 31	10	N		14		1	S13-1-NO	25	Y		8		8	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR K
SHEET 15 OF 20

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

G H 50A1 A 1014580

CONDUCTOR			FROM							TO						
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT 2	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC 1 ITEM NO.		NO.
A 114	4	1550	P1- 67	10	N		14		1	S9-8-C	25	Y				35
A 115	4	1500	P1- 78	10	N		14		1	S20-2-C	25	Y		8		32
A 116	4	1700	P1- 79	10	N		14		1	S21-3-C	25	Y		8		33
A 117	1	1500		250		225	10	8A			225		200	12	7A	
A 117A	4	600	SHLD A117	25	Y					E6	25	N				54
A 117W			P1- 68	10	N		14		1	S20-4-C	25	Y				32
A 118	4	1700	P1- 93	10	N		14		1	S21-3-NO	25	Y		8		33
A 119	4	1500	P1-106	10	N		14		1	S20-2-NO	25	Y		8		32
A 120	4	800	P1- 85	10	N		14		1	S7-2-C	25	Y		8		40
A 121	4	850	P1- 86	10	N		14		1	S23-1-NO	25	Y		8		41
A 122	4	800	P1- 89	10	N		14		1	S7-2-NC	25	Y		8		40
A 123	4	700	P1- 97	10	N		14		1	S8-1-NO	25	Y		8		42
A 124	4	800	P1- 98	10	N		14		1	S7-1-C	25	Y		8		40
A 125	4	800	P1-102	10	N		14		1	S23-1-NC	25	Y		8		41
A 126	4	700	P1-103	10	N		14		1	S8-1-NC	25	Y		8		42
A 127	4	850	P1-104	10	N		14		1	S7-1-NC	25	Y		8		40
A 128	4	700	S7-1-NO	25	Y		8		40	S8-1-C	25	Y		8		42
A 129	4	600	S7-2-NO	25	Y		8		40	S23-1-C	25	Y		8		41

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR A
SHEET 17 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM							TO						
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT 2	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC 1 ITEM NO.		NO.
A 130	4	1050	P1- 16	10	N		14		1	S19-5-C	25	Y		9		12
A 131	4	1200	P1- 17	10	N		14		1	S19-6-NO	25	Y		8		15
A 132	4	1050	P1- 3	10	N		14		1	S19-5-NO	25	Y		8		12
A 133	4	1300	S19-5-C	25	Y				12	S19-6-C	25	Y		8		16
A 134	4	900	P1- 7	10	N		14		1	S19-4-C	25	Y		9		11
A 135	4	900	P1- 6	10	N		14		1	S19-4-NO	25	Y		8		11
A 136	4	1200	P1- 20	10	N		14		1	S19-3-NO	25	Y		8		17
A 137	4	1500	S19-4-C	25	Y				11	S19-3-C	25	Y		8		18
A 138	4	1200	P1- 5	10	N		14		1	S19-2-NO	25	Y		8		9
A 139	4	1010	P1- 4	10	N		14		1	S19-1-NO	25	Y		8		14
A 140	4	1000	P1- 18	10	N		14		1	S19-1-C	25	Y		9		14A
A 141	4	1300	S19-1-C	25	Y				13	S19-2-C	25	Y		8		10
A 142	5	800	P1- 91	10	N		14		1	E1	25	N		18		3
A 143	5	1000	P1- 83	10	N		14		1	E7	25	N		13		2
A 144	5	300	E6	25	N		13		54	E7	25	N				2
A 145	5	300	E5	25	N		13		53	E7	25	N				2
A 146	5	300	E4	25	N		13		52	E7	25	N				2
A 147	5	300	E3	25	N		13		51	E7	25	N				2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR E
SHEET 18 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT 2	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC 1 ITEM NO.		NO.	
A 104W			P1- 30	10	N		14		1	S13-1-NC	25	Y		8		8	
A 105	2	1700		350		325	11	8B			350		325	6	7A		A
A 105A	4	600	SHLD A105	25	Y					E6	25	N				54	
A 105R			P1- 55	10	N		14		1	S18-2-NO	25	Y		8		31	
A 105W			P1- 46	10	N		14		1	S18-2-NC	25	Y		8		31	
A 106	1	1700		350		325	10	8B			350		325	12	7A		
A 106A	4	600	SHLD A106	25	Y					E6	25	N				54	
A 106W			P1- 53	10	N		14		1	S18-1-NC	25	Y				31	
A 107	~~4~~	~~900~~	~~S18-3-NC~~	~~25~~	~~Y~~		~~8~~		~~31~~	~~S21-3-NC~~	~~25~~	~~Y~~				~~33~~	
A 108	4	~~1500~~ 2100	P1- 51	10	N		14		1	~~S20-2-NC~~ S18-3-NC	25	Y				~~32~~ 31	
A 109	4	900	S18-3-C	25	Y		8		31	S21-1-C	25	Y				33	
A 110	4	1100	P1- 66	10	N		14		1	S9-2-C	25	Y				34	
A 111	2	1100		250		225	11	8A			250		225	6	7A		
A 111A	4	600	SHLD A111	25	Y					E6	25	N				54	
A 111R			P1- 95	10	N		14		1	S9-1-C	25	Y				34	
A 111W			P1- 81	10	N		14		1	S9-1-NO	25	Y				34	
A 112	4	1250	P1- 65	10	N		14		1	S9-2-NO	25	Y		8		34	
A 113	4	1550	P1- 77	10	N		14		1	S9-7-NO	25	Y		8		35	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR F
SHEET 16 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM							TO						
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT 2	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET 2	TERMINATION SPEC 1 ITEM NO.		NO.
A 148	5	1900	E2	25	N		13		48	E7	25	N				2
A 149	4	1250	P1- 40	10	N		14		1	~~S10-1-B~~ S10-5	25	Y		8		6
A 150	4	1200	XDS3-LO	25	Y				5	M1 LAMP-LO	25	Y		8		7
A 151	4	1000	S17-1-C	25	Y				45	S1-2-NC	25	Y				44
A 152	4	1200	S11-3-NO	25	Y		8		27	S11-8-C	25	Y		8		28
A 153	4	1000	S20-1-C	25	Y				32	S9-4-NO	25	Y		9		34
A 154	4	1200	S9-8-NO	25	Y				35	S20-2-NC	25	Y		9		32
A 155	4	1200	S9-5-C	25	Y				35	S20-4-NC	25	Y		9		32
A 156	4	1000	S9-4-C	25	Y				34	S20-1-NC	25	Y		9		32
A 157	4	1200	S9-5-NO	25	Y				35	S20-3-C	25	Y		9		32

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR K
SHEET 19 OF 20

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVAL
J	REVISED PER TDRR NO. 06723	10 MAR 64	WK
K	REVISED PER TDRR NO. 06870	17 MAR 64	WK
L	REVISED PER TDRR NO. 8489	1 JUN 64	~~RB~~ AU

MANNED SPACECRAFT CENTER HOUSTON TEXAS

REVISION J

NASA DRAWING NO.

SHEET 1A OF 20

G H 50A1 A 1014580

PENNANT GENERAL NOTES

NOTE

14 BIND WIRES TOGETHER PER ND 1002032 USING MIL-T-713, TYPE P, CLASS 2 TAPE. FORM RUNNING LOCKSTITCH AT 1/8 INCH SPACING.

15 TWIST CONDUCTORS A1,A2 AND A3 APPROX 18 TURNS PER FOOT
16- TWIST CONDUCTORS A32 AND A33 APPROX 18 TURNS PER FOOT
17- TWIST CONDUCTORS A58 AND A59 APPROX 18 TURNS PER FOOT
18- TWIST CONDUCTORS A60 AND A61 APPROX 18 TURNS PER FOOT
19- TWIST CONDUCTORS A63,A64 AND A65 APPROX 18 TURNS PER FOOT
20- TWIST CONDUCTORS A66,A67,A68,A79 AND A80 APPROX 18 TURNS PER FOOT
~~21 TWIST CONDUCTORS A90 AND A91 APPROX 4 TURNS PER FOOT~~
~~22- TWIST CONDUCTORS A92 AND A93 APPROX 4 TURNS PER FOOT~~
~~23 TWIST CONDUCTORS A94 AND A95 APPROX 4 TURNS PER FOOT~~
24- TWIST CONDUCTORS A97 AND A98 APPROX 18 TURNS PER FOOT
25- TWIST CONDUCTORS A99 AND A100 APPROX 18 TURNS PER FOOT
26- TWIST CONDUCTORS A112 AND A113 APPROX 18 TURNS PER FOOT
27- TWIST CONDUCTORS A130,A131 AND A132 APPROX 18 TURNS PER FOOT
28- TWIST CONDUCTORS A134,A135 AND A136 APPROX 18 TURNS PER FOOT
29- TWIST CONDUCTORS A138,A139 AND A140 APPROX 18 TURNS PER FOOT
30- TWIST CONDUCTORS A66,A68,A72 AND A73 APPROX 18 TURNS PER FOOT

31 PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A1

32 CONDUCTOR LENGTHS ARE FOR MFG. REF ONLY

(r)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR F	SHEET 3 OF 20

APPLICATION	
NEXT ASSY	USED ON
1014578	

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	COMPLETELY REVISED	22 JULY	
B	REVISED WIRE LENGTHS TOTALS (SHEET 8)	22 JULY 63	J.R.S.
C1	(C1) UPGRADED FOR CLASS A RELEASE TDRR 02424	5 AUG 63	WK
D4	(D1) ITEM 4, 1014680-4 WAS 180 FT 5 IN (SH5) (D2) REMD COND A107 (D3) REVISED COND A108 LENGTH WAS 18.00. "TO" CIR PT WAS S20-2-NC. "TO" TERM. NO. WAS 92 (SH 6) (D4) TERM. NO.'S 32 & 83 WERE 4 COND. (SH 20) TDRR 02624	13 AUG 63	WK
E	REVISED PER TDRR NO. 05249	20 DEC 63	WK
F	REVISED PER TDRR NO. 05252	20 DEC 63	WK
G	REVISED PER TDRR NO. 06166	FEB 64	WK
H6	REVISED PER TDRR NO. 06369	25 FEB 64	WK

REV																				
SHEET																				
REV STATUS REV	L	F	F	A	N	E	H	L	L	F	F	A	K	F	K	E	A	E	K	H
OF SHEETS SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

Check to 14 Jun 63

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ACSP PN

DRAWN B. M. Kula 31 MAY 63 DATE
CHECKED C. Pryda 18 JUN 63
APPROVAL J. J. Moran 18 JUN 63
APPROVAL 20 JUN 63
NASA APPROVAL
MIT APPROVAL
CONTRACT NAS9-497

WIRING HARNESS "A"
G&N INDICATOR CONTROL PANEL

CODE IDENT NO. (r) SIZE A 1014580 REV L

SCALE — SHEET 1 OF 20

G H 50A1 A 1014580

PENNANT GENERAL NOTES

NOTE

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK CONDUCTOR IDENTIFICATION OMITTING ALL SUFFIX LETTERS EXCEPT A,B,C, AND D PER ND1002019. (ES-2475-7).

~~5 TAPE HARNESS USING [illegible] INCH WIDE [illegible]~~

6 SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 16 AND 17

7 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

8 GRID MODULE IS 1 INCH.

9 UNLESS OTHERWISE SPECIFIED -
FEATURE CENTERLINES ARE LOCATED WITHIN + OR - 1/4 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - 1/8 INCH

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

~~11 QTY 100 REQUIRED. FURNISHED WITH ITEM 15. ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.~~

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING OR CONDUCTOR COLOR.
A - FROM END SHIELD
B - TO END SHIELD
L - BLUE
R - RED
W - WHITE

13 INSTALL CRIMP STYLE TERMINALS IN ACCORDANCE WITH ND 1002206.

(r)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR F	SHEET 2 OF 20

G H 50A1 A 1014580

PENNANT NOTE

GENERAL NOTES

33 TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

34 USE A FIGURE EIGHT TYPE STITCH IN BRANCH A BETWEEN SECTION B-B AND C-C (APPROXIMATELY 4"). WIDTH SHALL NOT EXCEED 5/16" PER BUNDLE. CONDUCTORS BREAKING OUT ON TOP SIDE TO TERMINATION POINTS 34 THRU 39, 43 & 44 SHALL BE ROUTED IN TOP BUNDLES.

35 INSULATION SHALL BE RECESSED INTO INSULATION CUP OF PIN BODY ON ALL CONDUCTORS TERMINATING IN TERMINATION NO. 1.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE REV LTR A SHEET 4 OF 20

G H 50A1 A 1014580

PENNANT

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014580- 1	WIRE PER ND1002105 TYPE 6, WHT JKT 24AWG WHT. 17 FT 10 IN TOTAL LENGTH
	2	1	1014580- 2	WIRE PER ND1002105 TYPE 7-2, WHT JKT 24AWG WHITE, RED. 13 FT 6 IN TOTAL LENGTH
	3	1	1014580- 3	WIRE PER ND1002105 TYPE 7-3, WHT JKT 24AWG WHITE, RED, BLUE. 7 FT 10 IN TOTAL LENGTH
	4	1	1014580- 4	WIRE PER ND1002105 TYPE 1, 24AWG WHITE. 129 FT 8 IN TOTAL LENGTH
	5	1	1014580- 5	WIRE PER ND1002105 TYPE 1, 22AWG WHITE. 4 FT 1 IN TOTAL LENGTH
	6	10	1010490-170	INSULATION SLEEVING HEAT SHRINK
	7	5	1010490-168	INSULATION SLEEVING HEAT SHRINK
	8	127	1010490-082	INSULATION SLEEVING HEAT SHRINK
	9	33	1010490-080	INSULATION SLEEVING HEAT SHRINK
	10	10	1010402- 1	SOLDER SLEEVE
	11	12	1010402- 2	SOLDER SLEEVE
	12	13	1010490-172	INSULATION SLEEVING HEAT SHRINK
	13	6	1010650-1	CAP-SOLDER, ELECTRICAL CONDUCTOR, INSULATED
~~11~~	14	101	1010758-1	CONTACT ELECTRICAL
10	15	1	1010347- 1	CONNECTOR, PLUG, ELECTRICAL
	16	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE REV LTR J SHEET 5 OF 20

G H 50A1 A 1014580

PENNANT

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	17	AR	QQ-S-571	FLUX AR (ES-2175 TYPE 1 OR 2) OR MIL 14256 FLUX (ES-2798)
	18	1	1010638-6	TERMINAL
	19	AR	MIL-T-713 TYPE P, CLASS 2, BLACK	TAPE

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE REV LTR F SHEET 6 OF 20

G H 50A1 A 1014580

CONDUCTOR				FROM							TO							
	NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	T / IN	2	TERMINATION ITEM NO.	SPEC. 1	NO.	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	T / IN	2	TERMINATION ITEM NO.	SPEC 1	NO.	
A	1	4	1100	A1- 1	25	Y		8		21	T1- 3	25	Y				22	
A	2	4	1500	A1- 2	25	Y		8		21	S3-2-C	25	Y		9		47	
A	3	4	1500	A1- 3	25	Y		8		21	S3-2-C	25	Y				47	
A	4	2	1850		450		425	6	7A			750		725	11	8A		
A	4B	4	600	E2	25	N				48	SHLD A4	25	Y					
A	4R			A1-12	25	Y		8		21	S11-4-NC	25	Y		8		27	
A	4W			A1- 4	25	Y	200	8		21	S11-11-NO	25	Y	200	8		28	
A	5	2	1750		250		225	6	7A			750		725	11	8A		
A	5B	4	600	E2	25	N				48	SHLD A5	25	Y					
A	5R			A1-10	25	Y		8		21	S11-3-NC	25	Y		8		27	
A	5W			A1- 8	25	Y		8		21	S11-9-NO	25	Y	100	8		28	
A	6	2	1400		250		225	6	7A			350		325	11	8A		
A	6B	4	600	E2	25	N				48	SHLD A6	25	Y					
A	6R			A1- 5	25	Y		8		21	S11-5-NC	25	Y		8		27	
A	6W			A1- 9	25	Y		8		21	S11-5-NO	25	Y		9		27	
A	7	2	1400		250		225	6	7A			350		325	11	8A		
A	7B	4	600	E2	25	N				48	SHLD A7	25	Y					
A	7R			A1- 6	25	Y		8		21	S11-6-NC	25	Y		8		27	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE REV LTR H SHEET 7 OF 20

6 H 50A1 L 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. ITEM NO.	1	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC ITEM NO.	1	NO.	
A 7W			A1- 7	25	Y		8		21	S11-6-NO	25	Y		9		27	
A 8	2	2050		250		225	11	8A			300		275	6	7A		B
A 8A	4	600	SHLD A8	25	Y					E3	25	N				51	
A 8R			P1- 80	10	N		14		1	T1- 1	25	Y		9		22	
A 8W			P1- 69	10	N		14		1	T1- 2	25	Y				22	
A 9	4	1100	S3-2-NO	25	Y		8		47	T1- 1	25	Y				22	
A 10	4	1100	S3-1-NC	25	Y		8		47	T1- 7	25	Y		8		22	
A 11	4	1100	S3-1-NO	25	Y		8		47	T1- 5	25	Y		8		22	
A 12			DELETED														
A 13			DELETED														
A 14	4	700	P1- 92	10	N		14		1	S16-7-C	25	Y				39	
A 15	4	850	P1- 74	10	N		14		1	S16-8-NO	25	Y		8		39	
A 16	4	650	P1- 90	10	N		14		1	S16-4-C	25	Y				39	
A 17	4	750	P1-100	10	N		14		1	S16-3-C	25	Y				39	
A 18	4	750	P1- 88	10	N		14		1	S16-1-NO	25	Y		9		39	
A 19	4	750	P1- 87	10	N		14		1	S16-2-NO	25	Y		8		39	
A 20	4	750	P1-101	10	N		14		1	S16-3-NO	25	Y		8		39	
A 21	4	750	P1- 94	10	N		14		1	S16-4-NO	25	Y		8		39	

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE | REV LTR L | SHEET 8 OF 20

MIL 2085 - 4-63 WIR

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6 H 50A1 L 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. ITEM NO.	1	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC ITEM NO.	1	NO.	
A 22	4	500	S16-1-NO	25	Y				39	S16-6-C	25	Y		8		39	
A 23	4	750	P1- 76	10	N		14		1	S16-5-NO	25	Y		8		39	
A 24	4	850	P1- 75	10	N		14		1	S16-6-NO	25	Y		8		39	
A 25	4	800	P1-105	10	N		14		1	S16-7-NO	25	Y		8		39	
A 26	1	2400		250		225	10	8A			250		225	12	7A		B
A 26A	4	600	SHLD A26	25	Y					E3	25	N				51	
A 26W			P1- 56	10	N		14		1	S11-8-NC	25	Y		8		28	
A 27	1	2600		250		225	10	8A			250		225	12	7A		B
A 27A	4	600	SHLD A27	25	Y					E3	25	N				51	
A 27W			P1- 47	10	N		14		1	S11-9-NC	25	Y		8		28	
A 28	1	2600		250		225	10	8A			300		275	12	7A		B
A 28A	4	600	SHLD A28	25	Y					E3	25	N				51	
A 28W			P1- 48	10	N		14		1	S11-10-NC	25	Y		8		28	
A 29	1	2300		250		225	10	8A			300		275	12	7A		B
A 29A	4	600	SHLD A29	25	Y					E3	25	N				51	
A 29W			P1- 57	10	N		14		1	S11-11-NC	25	Y		8		28	
A 30	1	1900		250		225	10	8A			225		200	12	7A		A
A 30A	4	600	SHLD A30	25	Y					E4	25	N				52	

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE | REV LTR L | SHEET 9 OF 20

MIL 2085 - 4-63 WIR

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6 H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. ITEM NO.	1	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC ITEM NO.	1	NO.	
A 30W			P1- 49	10	N		14		1	S15-8-C	25	Y		9		30	
A 31	1	1900					10	8A			225		200	12	7A		A
A 31A	4	600	SHLD A31	25	Y					E4	25	N				52	
A 31W			P1- 38	10	N		14		1	S15-8-NC	25	Y		9		30	
A 32	4	1050	S15-8-C	25	Y				30	S11-5-NO	25	Y				27	
A 33	4	1050	S15-8-NC	25	Y				30	S11-6-NO	25	Y				27	
A 34	4	2050	P1- 72	10	N		14		1	S11-1-NC	25	Y		8		27	
A 35	3	2300		400		375	11	8B			600		575	7	7A		B
A 35A	4	600	SHLD A35	25	Y					E5	25	N				53	
A 35L			P1- 37	10	N		14		1	S11-12-NC	25	Y		8		28	
A 35R			P1- 25	10	N		14		1	S11-2-NC	25	Y		8		27	
A 35W			P1- 36	10	N		14		1	S11-12-C	25	Y		9		28	
A 36	4	700	S11-12-C	25	Y				28	S11-2-C	25	Y		8		27	
A 37	4	2100	P1- 1	10	N		14		1	S15-7-NC	25	Y		9		30	A
A 38	4	1100	S15-7-NC	25	Y				30	S11-1-C	25	Y		9		27	
A 39	4	600	S11-1-C	25	Y				27	S14-2-C	25	Y		8		25	
A 41	1	2100		400		375	10	8B			400		375	12	7A		B
A 41A	4	600	SHLD A41	25	N					E5	25	N				53	

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE | REV LTR F | SHEET 10 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. ITEM NO.	1	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC ITEM NO.	1	NO.	
A 41W			P1- 96	10	N		14		1	S11-5-C	25	Y		9		27	
A 42	4	500	S11-5-C	25	Y				27	S11-6-C	25	Y		9		27	
A 43	4	800	S11-6-C	25	Y				27	S4-1-NO	25	Y		8		26	
A 44	4	400	S15-6-NC	25	Y		8		30	S15-2-NC	25	Y		9		29	
A 45	4	700	S11-4-C	25	Y		8		27	S15-2-NC	25	Y				29	
A 46	4	800	S11-11-C	25	Y		8		28	S15-1-C	25	Y		8		29	
A 47	4	700	S11-4-NO	25	Y		8		27	S11-10-C	25	Y		8		28	
A 48	4	850	S11-10-NO	25	Y		8		28	S15-1-NC	25	Y				29	
A 49	2	1800		350		325	11	8B			250		225	6	7A		A
A 49A	4	600	SHLD A49	25	Y					E4	25	N				52	
A 49R			P1- 35	10	N		14		1	S15-2-C	25	Y		8		29	
A 49W			P1- 34	10	N		14		1	S15-2-NO	25	Y				29	
A 50	4	700	S11-3-C	25	Y		8		27	S15-4-NC	25	Y				29	
A 51	4	650	S11-9-C	25	Y		8		28	S15-3-C	25	Y		8		29	
A 52	4	700	S11-8-NO	25	Y		8		28	S15-3-NC	25	Y				29	
A 53	2	1700		350		325	11	8B			250		225	6	7A		A
A 53A	4	600	SHLD A53	25	Y					E4	25	N				52	
A 53R			P1- 19	10	N		14		1	S15-4-C	25	Y		8		29	

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE | REV LTR F | SHEET 11 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
A 53W			P1- 33	10	N		14		1	S15-4-NO	25	Y				29	
A 54	4	2100	P1- 99	10	N		14		1	S15-7-C	25	Y		8		30	A
A 55	3	1350		300		275	7	7A			575		550	11	8A		
A 55B	4	600	E2	25	N				48	SHLD A55	25	Y					
A 55L			S12-3-NO	25	Y		8		24	S15-5-C	25	Y		8		30	
A 55R			S12-2-NO	25	Y		8		24	S15-3-NO	25	Y	300			29	
A 55W			S12-1-NO	25	Y		8		24	S15-6-C	25	Y		8		30	
A 56	3	2200		300		275	11	8A			250		225	7	7A		B
A 56A	4	600	SHLD A56	25	Y					E5	25	N				53	
A 56W			P1- 10	10	N		14		1	S12-3-C	25	Y		8		24	
A 56L			P1- 24	10	N	50	14		1	S12-1-C	25	Y		8		24	
A' 56R			P1- 23	10	N	25	14		1	S12-2-C	25	Y		8		24	
A 57	3	2200		350		325	11	8A			250		225	7	7A		B
A 57A	4	600	SHLD A57	25	Y					E5	25	N				53	
A 57L			P1- 22	10	N	100	14		1	S12-3-NC	25	Y		8		24	
A 57R			P1- 9	10	N	25	14		1	S12-2-NC	25	Y		8		24	
A 57W			P1- 8	10	N	50	14		1	S12-1-NC	25	Y		8		24	
A 58	4	1450	P1- 84	10	N		14		1	S17-2-NC	25	Y		9		45	

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR ~~B~~ A | SHEET 12 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO		NO.	
A 59	4	1450	P1- 54	10	N		14		1	S17-1-NC	25	Y		9		45	
A 60	4	1550	S17-2-NC	25	Y				45	S12-4-NO	25	Y		8		24	
A 61	4	1550	S17-1-NC	25	Y				45	S12-4-NC	25	Y		9		24	
A 62	4	850	S12-4-C	25	Y		8		24	XDS12-HI	25	Y		8		23	
A 63	4	3000	S12-4-NC	25	Y				24	M1 LAMP-HI	25	Y		8		7	
A 64	4	2500	XDS 4-LO	25	Y		9		20	XDS 3-LO	25	Y		9		5	
A 65	4	2500	XDS 4-HI	25	Y		9		20	XDS 3-HI	25	Y				5	
A 66	4	2200	P1- 52	10	N		14		1	XDS12-LO	25	Y		9		23	A
A 67	4	1300	P1- 61	10	N		14		1	S1-2-NC	25	Y				44	
A 68	4	2400	P1- 62	10	N		14		1	S2-1-C	25	Y		9		19	A
A 69	4	1400 ~~300~~	S1-1-C	25	Y				44	S18-3-NC ~~S17-1-C~~	25	Y				37 ~~45~~	
A 70	4	600	S17-2-C	25	Y				45	S24-1-NO	25	Y		9		46	
~~A 71~~	~~4~~	~~300~~	~~S24-1-NO~~	~~25~~	~~Y~~				~~46~~	~~S18-1-NC~~	~~25~~	~~Y~~		~~9~~		~~37~~	
A 72	4	1400	S24-1-NO	25	Y				46	S2-1-C	25	Y				19	
A 73	4	900	XDS12-LO	25	Y				23	XDS 4-LO	25	Y				20	
A 74	4	600	S2-1-NC	25	Y		8		19	XDS 4-HI	25	Y				20	
A 75	4	1500	P1- 32	10	N		14		1	S25-1-NO	25	Y		9		46	
A 76	4	450	S25-1-NO	25	Y				46	R1-CW	25	Y		8		49	

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1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR K | SHEET 13 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
A 77	4	1500	P1- 44	10	N		14		1	R1-CCW	25	Y				50	B
A 78	4	1400	P1- 26	10	N		14		1	S25-1-C	25	Y		8		46	
A 79	4	1400	P1- 63	10	N		14		1	S24-1-C	25	Y		9		46	
A 80	4	1400	P1- 64	10	N		14		1	S24-1-C	25	Y				46	
A 81	2	1800		250		225	11	8A			250		225	6	7A		
A 81A	4	600	SHLD A81	25	Y					E5	25	N				53	
A 81R			P1- 12	10	N		14		1	M1-LO	25	Y				7	
A 81W			P1- 11	10	N		14		1	M1-HI	25	Y				7	
A 82	4	500	P1- 13	10	N		14		1	R2-WIPER	25	Y		8		4	
A 83	4	1000	P1- 27	10	N		14		1	A2-E1	25	Y		8		37	
A 84	4	750	P1- 39	10	N		14		1	S22-1-C	25	Y				43	
A 85	4	1100	R2-LO	25	Y		8		4	A2-E9	25	Y		8		36	
A 86	4	1200	R2-HI	25	Y		8		4	A2-E2	25	Y		8		38	
A 87	4	1250	P1- 41	10	N		14		1	~~S10-1-1~~	25	Y		8		6	
A 88	4	1250	P1- 50	10	N		14		1	S10-1-3	25	Y				6	
~~A 89~~	~~4~~	~~1200~~	~~P1- 14~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-4-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 90~~	~~4~~	~~1500~~	~~P1- 15~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-3-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 91~~	~~4~~	~~1500~~	~~P1- 43~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	

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1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR F | SHEET 14 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
~~A 92~~	~~4~~	~~1500~~	~~P1- 53~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 93	4	1500	P1- 73	10	N		14		1	S1-1-NC	25	Y		8		44	
~~A 94~~	~~4~~	~~1500~~	~~P1- 28~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-C~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 95	4	1500	P1- 29	10	N		14		1	S1-2-C	25	Y		8		44	
A 96	4	2500	P1- 71	10	N		14		1	S4-3-NC	25	Y		8		26	B
A 97	4	2500	P1- 60	10	N		14		1	S4-2-NO	25	Y		8		26	B
A 98	4	2500	P1- 70	10	N		14		1	S4-2-C	25	Y		8		26	B
A 99	4	2450	P1- 2	10	N		14		1	S4-3-NO	25	Y		8		26	B
A 100	4	2400	P1- 21	10	N		14		1	S4-3-C	25	Y		8		26	B
A 101	1	2400		400			10	8B			200		175	12	7A		B
A 101A	4	600	SHLD A101	25	Y					E5	25	N				53	
A 101W			P1- 82	10	N		14		1	S4-1-C	25	Y		8		26	
A 102	4	2350	P1- 58	10	N		14		1	S14-1-NC	25	Y		8		25	
A 103	4	2350	P1- 59	10	N		14		1	S14-1-NO	25	Y		8		25	
A 104	3	1350		250		225	11	8A			250		225	7	7A		
A 104A	4	600	SHLD A104	25	Y					E6	25	N				54	
A 104L			P1- 42	10	N		14		1	S13-1-C	25	Y		8		8	
A 104R			P1- 31	10	N		14		1	S13-1-NO	25	Y		8		8	

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1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR K | SHEET 15 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	ITEM NO.	TERMINATION SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	ITEM NO.	TERMINATION SPEC 1	NO.	
A 104W			P1- 30	10	N		14		1	S13-1-NC	25	Y		8		8	
A 105	2	1700		350		325	11	8B			350		325	6	7A		A
A 105A	4	600	SHLD A105	25	Y					E6	25	N				54	
A 105R			P1- 55	10	N		14		1	S18-2-NO	25	Y		8		31	
A 105W			P1- 46	10	N		14		1	S18-2-NC	25	Y		8		31	
A 106	1	1700		350		325	10	8B			350		325	12	7A		
A 106A	4	600	SHLD A106	25	Y					E6	25	N				54	
A 106W			P1- 83	10	N		14		1	S18-1-NC	25	Y				31	
A 107	~~4~~	~~900~~	~~S18-3-NC~~	~~25~~	~~Y~~		~~8~~		~~31~~	~~S21-3-NC~~	~~25~~	~~Y~~				~~33~~	
A 108	4	~~1500~~ 2100	P1- 51	10	N		14		1	~~S20-2-NC~~ S18-3-NC	25	Y				~~32~~ 31	
A 109	4	900	S18-3-C	25	Y		8		31	S21-1-C	25	Y				33	
A 110	4	1100	P1- 66	10	N		14		1	S9-2-C	25	Y				34	
A 111	2	1100		250		225	11	8A			250		225	6	7A		
A 111A	4	600	SHLD A111	25	Y					E6	25	N				54	
A 111R			P1- 95	10	N		14		1	S9-1-C	25	Y				34	
A 111W			P1- 81	10	N		14		1	S9-1-NO	25	Y				34	
A 112	4	1250	P1- 65	10	N		14		1	S9-2-NO	25	Y		8		34	
A 113	4	1550	P1- 77	10	N		14		1	S9-7-NO	25	Y		8		35	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE NONE
REV LTR E
SHEET 16 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	ITEM NO.	TERMINATION SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	ITEM NO.	TERMINATION SPEC 1	NO.	
A 114	4	1550	P1- 67	10	N		14		1	S9-8-C	25	Y				35	
A 115	4	1500	P1- 78	10	N		14		1	S20-2-C	25	Y		8		32	
A 116	4	1700	P1- 79	10	N		14		1	S21-3-C	25	Y		8		33	
A 117	1	1500		250		225	10	8A			225		200	12	7A		
A 117A	4	600	SHLD A117	25	Y					E6	25	N				54	
A 117W			P1- 68	10	N		14		1	S20-4-C	25	Y				32	
A 118	4	1700	P1- 93	10	N		14		1	S21-3-NO	25	Y		8		33	
A 119	4	1500	P1-106	10	N		14		1	S20-2-NO	25	Y		8		32	
A 120	4	800	P1- 85	10	N		14		1	S7-2-C	25	Y		8		40	
A 121	4	850	P1- 86	10	N		14		1	S23-1-NO	25	Y		8		41	
A 122	4	800	P1- 89	10	N		14		1	S7-2-NC	25	Y		8		40	
A 123	4	700	P1- 97	10	N		14		1	S8-1-NO	25	Y		8		42	
A 124	4	800	P1- 98	10	N		14		1	S7-1-C	25	Y		8		40	
A 125	4	800	P1-102	10	N		14		1	S23-1-NC	25	Y		8		41	
A 126	4	700	P1-103	10	N		14		1	S8-1-NC	25	Y		8		42	
A 127	4	850	P1-104	10	N		14		1	S7-1-NC	25	Y		8		40	
A 128	4	700	S7-1-NO	25	Y		8		40	S8-1-C	25	Y		8		42	
A 129	4	600	S7-2-NO	25	Y		8		40	S23-1-C	25	Y		8		41	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR F A
SHEET 17 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	ITEM NO.	TERMINATION SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	ITEM NO.	TERMINATION SPEC 1	NO.	
A 130	4	1050	P1- 16	10	N		14		1	S19-5-C	25	Y		9		12	
A 131	4	1200	P1- 17	10	N		14		1	S19-6-NO	25	Y		8		15	
A 132	4	1050	P1- 3	10	N		14		1	S19-5-NO	25	Y		8		12	
A 133	4	1300	S19-5-C	25	Y				12	S19-6-C	25	Y		8		16	
A 134	4	900	P1- 7	10	N		14		1	S19-4-C	25	Y		9		11	
A 135	4	900	P1- 6	10	N		14		1	S19-4-NO	25	Y		8		11	
A 136	4	1200	P1- 20	10	N		14		1	S19-3-NO	25	Y		8		17	
A 137	4	1500	S19-4-C	25	Y				11	S19-3-C	25	Y		8		18	
A 138	4	1200	P1- 5	10	N		14		1	S19-2-NO	25	Y		8		9	
A 139	4	1010	P1- 4	10	N		14		1	S19-1-NO	25	Y		8		14	
A 140	4	1000	P1- 18	10	N		14		1	S19-1-C	25	Y		9		14A	
A 141	4	1300	S19-1-C	25	Y				13	S19-2-C	25	Y		8		10	
A 142	5	800	P1- 91	10	N		14		1	E1	25	N		18		3	
A 143	5	1000	P1- 83	10	N		14		1	E7	25	N		13		2	
A 144	5	300	E6	25	N		13		54	E7	25	N				2	
A 145	5	300	E5	25	N		13		53	E7	25	N				2	
A 146	5	300	E4	25	N		13		52	E7	25	N				2	
A 147	5	300	E3	25	N		13		51	E7	25	N				2	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE NONE
REV LTR E
SHEET 18 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 K 1014580

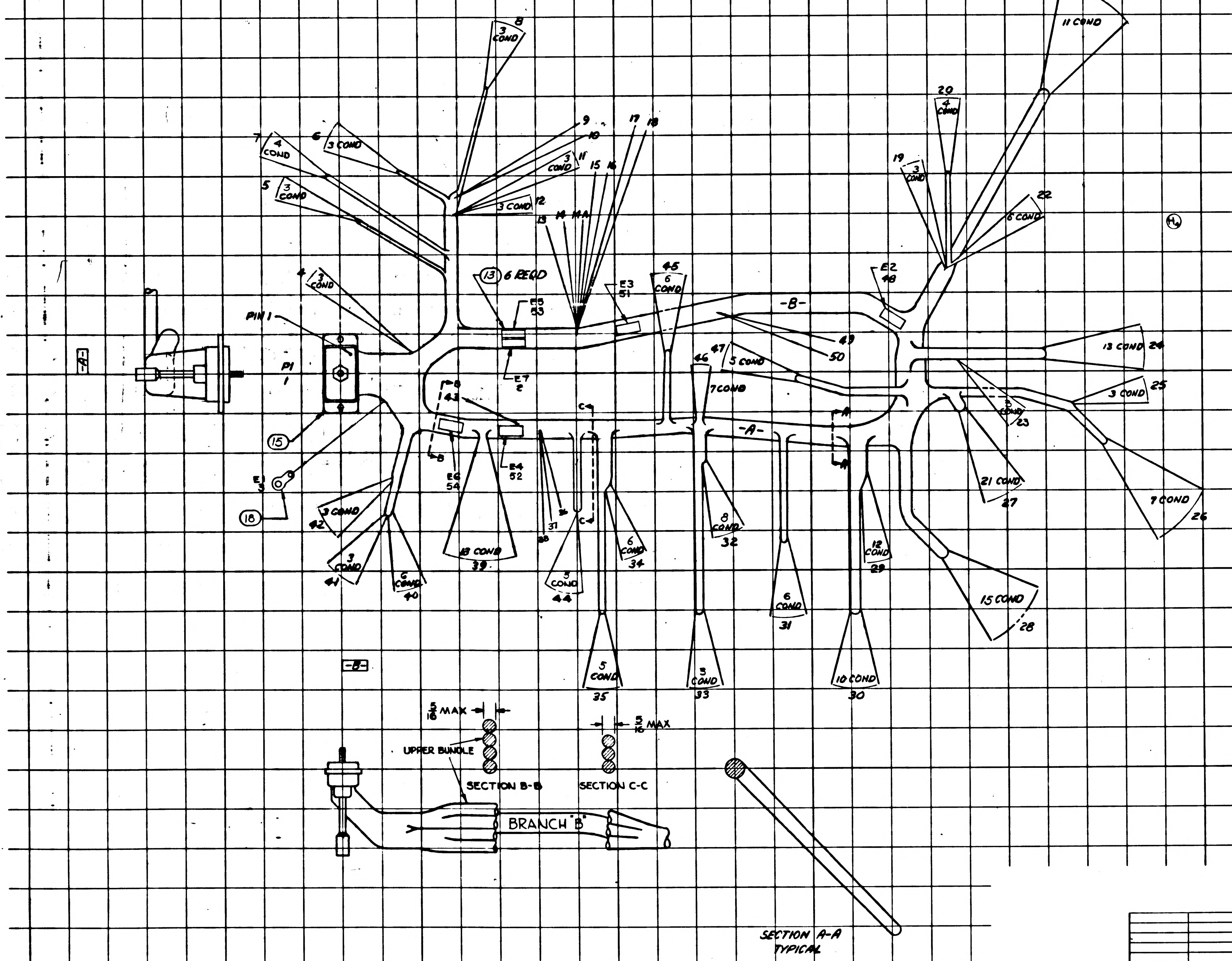
CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	ITEM NO.	TERMINATION SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	ITEM NO.	TERMINATION SPEC 1	NO.	
A 148	5	1900	E2	25	N		13		48	E7	25	N				2	
A 149	4	1250	P1- 40	10	N		14		1	S10-5	25	Y		8		6	
A 150	4	1200	XDS3-LO	25	Y				5	M1 LAMP-LO	25	Y		8		7	
A 151	4	1000	S17-1-C	25	Y				45	S1-2-NC	25	Y				44	
A 152	4	1200	S11-3-NO	25	Y		8		27	S11-8-C	25	Y		8		28	
A 153	4	1000	S20-1-C	25	Y				32	S9-4-NO	25	Y		9		34	
A 154	4	1200	S9-8-NO	25	Y				35	S20-2-NC	25	Y		9		32	
A 155	4	1200	S9-5-C	25	Y				35	S20-4-NC	25	Y		9		32	
A 156	4	1000	S9-4-C	25	Y				34	S20-1-NC	25	Y		9		32	
A 157	4	1200	S9-5-NO	25	Y				35	S20-3-C	25	Y		9		32	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR K
SHEET 19 of 20

MIL 2085 - 4-63 WIR

C	TDRR 02420			
D	TDRR 02524			
E	TDRR 5249 (23 Mar 63)			
F	TDRR 5252 (23 Mar 63)			
H6	REVISED PER TDRR NO. 06369	25 FEB 64	WH.	



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3 COND
41
6 COND
40
H6
5/16 MAX
UPPER BUNDLE
SECTION B-B
5/16 MAX
SECTION C-C
BRANCH "B"
SECTION A-A TYPICAL

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS-9-497

NEXT ASSY | USED ON
APPLICATION

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN Dillon DATE 15 JULY 63
CHECKED PIOJDA 18 JUN 63
APPROVAL F.J. MORAN 18 JUN
APPROVAL A KODEL 20 JUN 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS A
G&N INDICATOR CONTROL PANEL

CODE IDENT NO.
SIZE E
1014580
SCALE 1/1
SHEET 20 OF 20

1014580 H

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014578		A	COMPLETELY REVISED	23 JULY	
		B	REVISED WIRE LENGTHS TOTALS (SHEET 5) 63	23 JULY 63	JRS.
		C1	(C1) UPGRADED FOR CLASS A RELEASE TDRR 02423	5 AUG 63	WK.
		D4	(D1) ITEM 4, 1014680-4 WAS 130 FT 5 IN (SH5) (D2) REMD COND A107 (D3) REVISED COND A108 LENGTH WAS 15.00. "TO" CIR PT WAS 520-2-NC. "TO" TERM. NO. WAS 92 (SH16) (D4) TERM. NO.'S 32 & 83 WERE 4 COND. (SH 20) TDRR 02424	13 AUG 63	WK.
		E	REVISED PER TDRR NO. 05249	20 DEC 63	WK
		F	REVISED PER TDRR NO. 05252	20 DEC 63	WK
		G	REVISED PER TDRR NO. 06166	11 FEB 64	WK
		H6	REVISED PER TDRR NO. 06369	25 FEB 64	WK

Charbota
14 Jun 63

M	REV STATUS	REV	M	F	F	A	M	F	M	L	M	F	M	A	K	F	M	E	A	E	K	M
IA	OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN B. M. Kulo DATE 31 MAY 63
CHECKED C. Pryda 18 JUN 63
APPROVAL J. J. Moran 18 JUN 63
APPROVAL 20 JUN 63

NASA APPROVAL 6/7/63
MIT APPROVAL 63

CONTRACT NAS9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS "A"
G&N INDICATOR CONTROL PANEL

CODE IDENT NO.	SIZE		REV
	A	1014580	M

SCALE — Added Sheet 1A per TDRR 06723 SHEET 1 OF 20

SYM	DESCRIPTION	DATE	APPROVAL
J	REVISED PER TDRR NO. 06723	10 MAR 64	WK
K	REVISED PER TDRR NO. 06870	17 MAR 64	WK
(M) L	REVISED PER TDRR NO. 8489	1 JUN 64	RB AU
M	REVISED PER TDRR NO 10949	29 JUL 64	JJJ DLF

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

REVISION M

NASA DRAWING NO.
SHEET 1A OF 20

PENNANT NOTE

GENERAL NOTES

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK CONDUCTOR IDENTIFICATION OMITTING ALL SUFFIX LETTERS EXCEPT A, B, C, AND D PER ND1002019. (ES-2475-7).

~~[illegible]~~

6 SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 16 AND 17

7 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

8 GRID MODULE IS 1 INCH.

9 UNLESS OTHERWISE SPECIFIED -
FEATURE CENTERLINES ARE LOCATED WITHIN + OR - 1/4 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - 1/8 INCH

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

~~11 QTY 108 REQUIRED. FURNISHED WITH ITEM 15. ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.~~

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING OR CONDUCTOR COLOR.
A - FROM END SHIELD
B - TO END SHIELD
L - BLUE
R - RED
W - WHITE

13 INSTALL CRIMP STYLE TERMINALS IN ACCORDANCE WITH ND1002206.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE REV LTR F SHEET 2 OF 20

PENNANT NOTE

GENERAL NOTES

14 BIND WIRES TOGETHER PER ND1002032 USING MIL-T-713, TYPE P, CLASS 2 TAPE. FORM RUNNING LOCKSTITCH AT 1/8 INCH SPACING.

15 TWIST CONDUCTORS A1, A2 AND A3 APPROX 18 TURNS PER FOOT
16- TWIST CONDUCTORS A32 AND A33 APPROX 18 TURNS PER FOOT
17- TWIST CONDUCTORS A58 AND A59 APPROX 18 TURNS PER FOOT
18- TWIST CONDUCTORS A60 AND A61 APPROX 18 TURNS PER FOOT
19- TWIST CONDUCTORS A63, A64 AND A65 APPROX 18 TURNS PER FOOT
20- TWIST CONDUCTORS A66, A67, A68, A79 AND A80 APPROX 18 TURNS PER FOOT
~~21- TWIST CONDUCTORS A90 AND A91 APPROX 4 TURNS PER FOOT~~
~~22- TWIST CONDUCTORS A92 AND A93 APPROX 4 TURNS PER FOOT~~
~~23- TWIST CONDUCTORS A94 AND A95 APPROX 4 TURNS PER FOOT~~
24- TWIST CONDUCTORS A97 AND A98 APPROX 18 TURNS PER FOOT
25- TWIST CONDUCTORS A99 AND A100 APPROX 18 TURNS PER FOOT
26- TWIST CONDUCTORS A112 AND A113 APPROX 18 TURNS PER FOOT
27- TWIST CONDUCTORS A130, A131 AND A132 APPROX 18 TURNS PER FOOT
28- TWIST CONDUCTORS A134, A135 AND A136 APPROX 18 TURNS PER FOOT
29- TWIST CONDUCTORS A138, A139 AND A140 APPROX 18 TURNS PER FOOT
30- TWIST CONDUCTORS A66, A68, A72 AND A73 APPROX 18 TURNS PER FOOT

31 PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A1

32 CONDUCTOR LENGTHS ARE FOR MFG. REF ONLY

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE REV LTR F SHEET 3 OF 20

PENNANT NOTE

GENERAL NOTES

33 TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

34 USE A FIGURE EIGHT TYPE STITCH IN BRANCH A BETWEEN SECTION B-B AND C-C (APPROXIMATELY 4"). WIDTH SHALL NOT EXCEED 5/16" PER BUNDLE. CONDUCTORS BREAKING OUT ON TOP SIDE TO TERMINATION POINTS 34 THRU 39, 43 & 44 SHALL BE ROUTED IN TOP BUNDLES.

35 INSULATION SHALL BE RECESSED INTO INSULATION CUP OF PIN BODY ON ALL CONDUCTORS TERMINATING IN TERMINATION NO. 1.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE REV LTR ~~[illegible]~~ A SHEET 4 OF 20

LIST OF MATERIALS

PENNANT NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014580- 1	WIRE PER ND1002105 TYPE 6, WHT JKT 24AWG WHT. ~~[illegible]~~ 15 FT ~~[illegible]~~ 8 IN TOTAL LENGTH
	2	1	1014580- 2	WIRE PER ND1002105 TYPE 7-2, WHT JKT 24AWG WHITE, RED. 13 FT 6 IN TOTAL LENGTH
	3	1	1014580- 3	WIRE PER ND1002105 TYPE 7-3, WHT JKT 24AWG WHITE, RED, BLUE. 7 FT 10 IN TOTAL LENGTH
	4	1	1014580- 4	WIRE PER ND1002105 TYPE 1, 24AWG WHITE. ~~[illegible]~~ 129 FT ~~[illegible]~~ 4 IN TOTAL LENGTH
	5	1	1014580- 5	WIRE PER ND1002105 TYPE 1, 22AWG WHITE. 4 FT 1 IN TOTAL LENGTH
	6	10	1010490-170	INSULATION SLEEVING HEAT SHRINK
	7	5	1010490-168	INSULATION SLEEVING HEAT SHRINK
	8	~~[illegible]~~ 124	1010490-082	INSULATION SLEEVING HEAT SHRINK
	9	~~[illegible]~~ 34	1010490-080	INSULATION SLEEVING HEAT SHRINK
	10	~~[illegible]~~ 9	1010402- 1	SOLDER SLEEVE
	11	12	1010402- 2	SOLDER SLEEVE
	12	~~[illegible]~~ 12	1010490-172	INSULATION SLEEVING HEAT SHRINK
	13	6	1010650-1	CAP-SOLDER, ELECTRICAL CONDUCTOR, INSULATED
~~11~~	14	~~[illegible]~~ 100	1010738-1	CONTACT ELECTRICAL
10	15	1	1010347- 1	CONNECTOR, PLUG, ELECTRICAL
	16	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE REV LTR ~~[illegible]~~ M SHEET 5 OF 20

G H 50A1 A 1014580

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	17,	AR	QQ-S-571	FLUX AR (ES-2175 TYPE 1 OR 2) OR MIL 14256 FLUX (ES-2798)
	18	1	1010638-6	TERMINAL
	19	AR	MIL-T-713 TYPE P,	TAPE CLASS 2, BLACK

M

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR B F | SHEET 6 OF 20

MIL 2084 4-63

G H 50A1 ~~L~~ M 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2 / TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2 / TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 1	4	1100	A1- 1	25Y		8		21	T1- 3	25Y				22	
A 2	4	1500	A1- 2	25Y		8		21	S3-2-C	25Y		9		47	
A 3	4	1500	A1- 3	25Y		8		21	S3-2-C	25Y				47	
A 4	2	1850		450	425	6	7A			750	725	11	8A		
A 4B	4	600	E2	25N				48	SHLD A4	25Y					
A 4R			A1-12	25Y		8		21	S11-4-NC	25Y		8		27	
A 4W			A1- 4	25Y	200	8		21	S15-1-C ~~S11-11-NO~~	25Y	200	8		29 ~~28~~	
A 5	2	1750		250	225	6	7A			750	725	11	8A		
A 5B	4	600	E2	25N				48	SHLD A5	25Y					
A 5R			A1-10	25Y		8		21	S11-3-NC	25Y		8		27	
A 5W			A1- 8	25Y		8		21	S11-9-NO	25Y	100	8		28	
A 6	2	1400		250	225	6	7A			350	325	11	8A		
A 6B	4	600	E2	25N				48	SHLD A6	25Y					
A 6R			A1- 5	25Y		8		21	S11-5-NC	25Y		8		27	
A 6W			A1- 9	25Y		8		21	S11-5-NO	25Y		9		27	
A 7	2	1400		250	225	6	7A			350	325	11	8A		
A 7B	4	600	E2	25N				48	SHLD A7	25Y					
A 7R			A1- 6	25Y		8		21	S11-6-NC	25Y		8		27	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR ~~L~~ M | SHEET 7 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 L 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2 / TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2 / TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 7W			A1- 7	25Y		8		21	S11-6-NO	25Y		9		27	
A 8	2	2050		250	225	11	8A			300	275	6	7A		B
A 8A	4	600	SHLD A8	25Y					E3	25N				51	
A 8R			P1- 80	10N		14		1	T1- 1	25Y		9		22	
A 8W			P1- 69	10N		14		1	T1- 2	25Y				22	
A 9	4	1100	S3-2-NO	25Y		8		47	T1- 1	25Y				22	
A 10	4	1100	S3-1-NC	25Y		8		47	T1- 7	25Y		8		22	
A 11	4	1100	S3-1-NO	25Y		8		47	T1- 5	25Y		8		22	
A 12			DELETED												
A 13			DELETED												
A 14	4	700	P1- 92	10N		14		1	S16-7-C	25Y				39	
A 15	4	850	P1- 74	10N		14		1	S16-8-NO	25Y		8		39	
A 16	4	650	P1- 90	10N		14		1	S16-4-C	25Y				39	
A 17	4	750	P1-100	10N		14		1	S16-3-C	25Y				39	
A 18	4	750	P1- 88	10N		14		1	S16-1-NO	25Y		9		39	
A 19	4	750	P1- 87	10N		14		1	S16-2-NO	25Y		8		39	
A 20	4	750	P1-101	10N		14		1	S16-3-NO	25Y		8		39	
A 21	4	750	P1- 94	10N		14		1	S16-4-NO	25Y		8		39	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR L | SHEET 8 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ~~L~~ M 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2 / TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2 / TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 22	4	500	S16-1-NO	25Y				39	S16-6-C	25Y		8		39	
A 23	4	750	P1- 76	10N		14		1	S16-5-NO	25Y		8		39	
A 24	4	850	P1- 75	10N		14		1	S16-6-NO	25Y		8		39	
A 25	4	800	P1-105	10N		14		1	S16-7-NO	25Y		8		39	
A 26	1	2400		250	225	10	8A			250	225	12	7A		B
A 26A	4	600	SHLD A26	25Y					E3	25N				51	
A 26W			P1- 56	10N		14		1	S11-8-NC	25Y		8		28	
A 27	1	2600		250	225	10	8A			250	225	12	7A		B
A 27A	4	600	SHLD A27	25Y					E3	25N				51	
A 27W			P1- 47	10N		14		1	S11-11 NC ~~S11-9-NC~~	25Y		8		28	
A 28	1	2600		250	225	10	8A			300	275	12	7A		B
A 28A	4	600	SHLD A28	25Y					E3	25N				51	
A 28W			P1- 48	10N		14		1	S11-10-NC	25Y		8		28	
A 29	~~1~~	~~2300~~		~~250~~	~~225~~	~~10~~	~~8A~~			~~300~~	~~275~~	~~12~~	~~7A~~		~~B~~ DELETE
A 29A	~~4~~	~~600~~	~~SHLD A29~~	~~25Y~~					~~E3~~	~~25N~~				~~51~~	DELETE
A 29W			~~P1- 57~~	~~10N~~		~~14~~		~~1~~	~~S11-11-NC~~	~~25Y~~		~~8~~		~~28~~	DELETE
A 30	1	1900		250	225	10	8A			225	200	12	7A		A
A 30A	4	600	SHLD A30	25Y					E4	25N				52	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR ~~L~~ M | SHEET 9 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT 2	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC 1 ITEM NO.		NO.	
A 30W			P1- 49	10	N		14		1	S15-8-C	25	Y		9		30	
A 31	1	1900					10	8A			225		200	12	7A		A
A 31A	4	600	SHLD A31	25	Y					E4	25	N				52	
A 31W			P1- 38	10	N		14		1	S15-8-NC	25	Y		9		30	
A 32	4	1050	S15-8-C	25	Y				30	S11-5-NO	25	Y				27	
A 33	4	1050	S15-8-NC	25	Y				30	S11-6-NO	25	Y				27	
A 34	4	2050	P1- 72	10	N		14		1	S11-1-NC	25	Y		8		27	
A 35	3	2300		400		375	11	8B			600		575	7	7A		B
A 35A	4	600	SHLD A35	25	Y					E5	25	N				53	
A 35L			P1- 37	10	N		14		1	S11-12-NC	25	Y		8		28	
A 35R			P1- 25	10	N		14		1	S11-2-NC	25	Y		8		27	
A 35W			P1- 36	10	N		14		1	S11-12-C	25	Y		9		28	
A 36	4	700	S11-12-C	25	Y				28	S11-2-C	25	Y		8		27	
A 37	4	2100	P1- 1	10	N		14		1	S15-7-NC	25	Y		9		30	A
A 38	4	1100	S15-7-NC	25	Y				30	S11-1-C	25	Y		9		27	
A 39	4	600	S11-1-C	25	Y				27	S14-2-C	25	Y		8		25	
A 4:	1	2100		400		375	10	8B			400		375	12	7A		B
A 41A	4	600	SHLD A41	25	N					E5	25	N				53	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR F | SHEET 10 OF 20

G H 50A1 ~~[illegible]~~ M 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT 2	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC 1 ITEM NO.		NO.	
A 41W			P1- 96	10	N		14		1	S4-1-NO ~~[illegible]~~	25	Y		8 ~~[illegible]~~		26 ~~[illegible]~~	
A 42	4	500	S11-5-C	25	Y				27	S11-6-C	25	Y		9		27	
A 43	4	800	S11-6-C	25	Y				27	S4-3-NC ~~[illegible]~~	25	Y		9 ~~[illegible]~~		26	
A 44	4	400	S15-6-NC	25	Y		8		30	S15-2-NC	25	Y		9		29	
A 45	4	700	S11-4-C	25	Y		8		27	S15-2-NC	25	Y				29	
A 46	4	800	S11-11-C	25	Y		8		28	S11-5-C ~~[illegible]~~	25	Y		9 ~~[illegible]~~		27 ~~[illegible]~~	
A 47	4	700	S11-4-NO	25	Y		8		27	S11-10-C	25	Y		8		28	
A 48	4	850	S11-10-NO	25	Y		8		28	S15-1-NC	25	Y				29	
A 49	2	1800		350		325	11	8B			250		225	6	7A		A
A 49A	4	600	SHLD A49	25	Y					E4	25	N				52	
A 49R			P1- 35	10	N		14		1	S15-2-C	25	Y		8		29	
A 49W			P1- 34	10	N		14		1	S15-2-NO	25	Y				29	
A 50	4	700	S11-3-C	25	Y		8		27	S15-4-NC	25	Y				29	
A 51	4	650	S11-9-C	25	Y		8		28	S15-3-C	25	Y		8		29	
A 52	4	700	S11-8-NO	25	Y		8		28	S15-3-NC	25	Y				29	
A 53	2	1700		350		325	11	8B			250		225	6	7A		A
A 53A	4	600	SHLD A53	25	Y					E4	25	N				52	
A 53R			P1- 19	10	N		14		1	S15-4-C	25	Y		8		29	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR ~~[illegible]~~ M | SHEET 11 OF 20

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT 2	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC 1 ITEM NO.		NO.	
A 53W			P1- 33	10	N		14		1	S15-4-NO	25	Y				29	
A 54	4	2100	P1- 99	10	N		14		1	S15-7-C	25	Y		8		30	A
A 55	3	1350		300		275	7	7A			575		550	11	8A		
A 55B	4	600	E2	25	N				48	SHLD A55	25	Y					
A 55L			S12-3-NO	25	Y		8		24	S15-5-C	25	Y		8		30	
A 55R			S12-2-NO	25	Y		8		24	S15-3-NO	25	Y	300			29	
A 55W			S12-1-NO	25	Y		8		24	S15-6-C	25	Y		8		30	
A 56	3	2200		300		275	11	8A			250		225	7	7A		B
A 56A	4	600	SHLD A56	25	Y					E5	25	N				53	
A 56W			P1- 10	10	N		14		1	S12-3-C	25	Y		8		24	
A 56L			P1- 24	10	N	50	14		1	S12-1-C	25	Y		8		24	
A 56R			P1- 23	10	N	25	14		1	S12-2-C	25	Y		8		24	
A 57	3	2200		350		325	11	8A			250		225	7	7A		B
A 57A	4	600	SHLD A57	25	Y					E5	25	N				53	
A 57L			P1- 22	10	N	100	14		1	S12-3-NC	25	Y		8		24	
A 57R			P1- 9	10	N	25	14		1	S12-2-NC	25	Y		8		24	
A 57W			P1- 8	10	N	50	14		1	S12-1-NC	25	Y		8		24	
A 58	4	1450	P1- 84	10	N		14		1	S17-2-NC	25	Y		9		45	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR ~~[illegible]~~ A | SHEET 12 OF 20

G H 50A1 A 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT 2	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC. 1 ITEM NO.		NO.	CIRCUIT POINT 2	CUT WIRE OR SHIELD 2	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC 1 ITEM NO.		NO.	
A 59	4	1450	P1- 54	10	N		14		1	S17-1-NC	25	Y		9		45	
A 60	4	1550	S17-2-NC	25	Y				45	S12-4-NO	25	Y		8		24	
A 61	4	1550	S17-1-NC	25	Y				45	S12-4-NC	25	Y		9		24	
A 62	4	850	S12-4-C	25	Y		8		24	XDS12-HI	25	Y		8		23	
A 63	4	3000	S12-4-NC	25	Y				24	M1 LAMP-HI	25	Y		8		7	
A 64	4	2500	XDS 4-LO	25	Y		9		20	XDS 3-LO	25	Y		9		5	
A 65	4	2500	XDS 4-HI	25	Y		9		20	XDS 3-HI	25	Y				5	
A 66	4	2200	P1- 52	10	N		14		1	XDS12-LO	25	Y		9		23	A
A 67	4	1300	P1- 61	10	N		14		1	S1-2-NC	25	Y				44	
A 68	4	2400	P1- 62	10	N		14		1	S2-1-C	25	Y		9		19	A
A 69	4	1400 ~~300~~	S1-1-C	25	Y				44	S18-3-NC ~~S17-1-C~~	25	Y				31 ~~45~~	
A 70	4	600	S17-2-C	25	Y				45	S24-1-NO	25	Y		9		46	
~~A 71~~	~~4~~	~~[illegible]~~	~~[illegible]~~	~~25~~	~~Y~~				~~[illegible]~~	~~[illegible]~~	~~25~~	~~Y~~		~~9~~		~~[illegible]~~	
A 72	4	1400	S24-1-NO	25	Y				46	S2-1-C	25	Y				19	
A 73	4	900	XDS12-LO	25	Y				23	XDS 4-LO	25	Y				20	
A 74	4	600	S2-1-NC	25	Y		8		19	XDS 4-HI	25	Y				20	
A 75	4	1500	P1- 32	10	N		14		1	S25-1-NO	25	Y		9		46	
A 76	4	450	S25-1-NO	25	Y				46	R1-CW	25	Y		8		49	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR K | SHEET 13 OF 20

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 77	4	1500	P1- 44	10	N		14		1	R1-CCW	25	Y				50	B
A 78	4	1400	P1- 26	10	N		14		1	S25-1-C	25	Y		8		46	
A 79	4	1400	P1- 63	10	N		14		1	S24-1-C	25	Y		9		46	
A 80	4	1400	P1- 64	10	N		14		1	S24-1-C	25	Y				46	
A 81	2	1800		250		225	11	8A			250		225	6	7A		
A 81A	4	600	SHLD A81	25	Y					E5	25	N				53	
A 81R			P1- 12	10	N		14		1	M1-LO	25	Y				7	
A 81W			P1- 11	10	N		14		1	M1-HI	25	Y				7	
A 82	4	500	P1- 13	10	N		14		1	R2-WIPER	25	Y		8		4	
A 83	4	1000	P1- 27	10	N		14		1	A2-E1	25	Y		8		37	
A 84	4	750	P1- 39	10	N		14		1	S22-1-C	25	Y				43	
A 85	4	1100	R2-LO	25	Y		8		4	A2-E9	25	Y		8		36	
A 86	4	1200	R2-HI	25	Y		8		4	A2-E2	25	Y		8		38	
A 87	4	1250	P1- 41	10	N		14		1	~~S10-1-1~~	25	Y		8		6	
A 88	4	1250	P1- 50	10	N		14		1	S10-1-3	25	Y				6	
~~A 89~~	~~4~~	~~1200~~	~~P1- 14~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-4-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 90~~	~~4~~	~~1500~~	~~P1- 15~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-3-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 91~~	~~4~~	~~1500~~	~~P1- 43~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

M

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR F
SHEET 14 OF 20

MIL 3088 - 4-63 WIR

G H 50A1 M 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION ITEM NO.	SPEC 1	NO.	
~~A 92~~	~~4~~	~~1500~~	~~P1- 68~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 93	4	1500	P1- 73	10	N		14		1	S1-1-NC	25	Y		8		44	
~~A 94~~	~~4~~	~~1500~~	~~P1- 28~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-C~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 95	4	1500	P1- 29	10	N		14		1	S1-2-C	25	Y		8		44	
A 96	4	2500	P1- 71	10	N		14		1	S4-3-NC	25	Y		8		26	B
A 97	4	2500	P1- 60	10	N		14		1	S4-2-NO	25	Y		8		26	B
A 98	4	2500	P1- 70	10	N		14		1	S4-2-C	25	Y		8		26	B
A 99	4	2450	P1- 2	10	N		14		1	S4-3-NO	25	Y		8		26	B
A 100	4	2400	P1- 21	10	N		14		1	S4-3-C	25	Y		8		26	B
A 101	1	2400		400			10	8B			200		175	12	7A		B
A 101A	4	600	SHLD A101	25	Y					E5	25	N				53	
A 101W			P1- 82	10	N		14		1	S4-1-C	25	Y		8		26	
A 102	4	2350	P1- 58	10	N		14		1	S14-1-NC	25	Y		8		25	
A 103	4	2350	P1- 59	10	N		14		1	S14-1-NO	25	Y		8		25	
A 104	3	1350		250		225	11	8A			250		225	7	7A		
A 104A	4	600	SHLD A104	25	Y					E6	25	N				54	
A 104L			P1- 42	10	N		14		1	S13-1-C	25	Y		8		8	
A 104R			P1- 31	10	N		14		1	S13-1-NO	25	Y		8		8	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

M

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR M
SHEET 15 OF 20

MIL 3088 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 104W			P1- 30	10	N		14		1	S13-1-NC	25	Y		8		8	
A 105	2	1700		350		325	11	8B			350		325	6	7A		A
A 105A	4	600	SHLD A105	25	Y					E6	25	N				54	
A 105R			P1- 55	10	N		14		1	S18-2-NO	25	Y		8		31	
A 105W			P1- 46	10	N		14		1	S18-2-NC	25	Y		8		31	
A 106	1	1700		350		325	10	8B			350		325	12	7A		
A 106A	4	600	SHLD A106	25	Y					E6	25	N				54	
A 106W			P1- 83	10	N		14		1	S18-1-NC	25	Y				31	
A 107	~~4~~	~~900~~	~~S18-3-NC~~	~~25~~	~~Y~~		~~8~~		~~31~~	~~S21-3-NC~~	~~25~~	~~Y~~				~~33~~	
A 108	4	~~1600~~ 2100	P1- 51	10	N		14		1	S18-3-NC ~~S20-2-NC~~	25	Y				31 ~~32~~	
A 109	4	900	S18-3-C	25	Y		8		31	S21-1-C	25	Y				33	
A 110	4	1100	P1- 66	10	N		14		1	S9-2-C	25	Y				34	
A 111	2	1100		250		225	11	6A			250		225	6	7A		
A 111A	4	600	SHLD A111	25	Y					E6	25	N				54	
A 111R			P1- 95	10	N		14		1	S9-1-C	25	Y				34	
A 111W			P1- 81	10	N		14		1	S9-1-NO	25	Y				34	
A 112	4	1250	P1- 65	10	N		14		1	S9-2-NO	25	Y		8		34	
A 113	4	1550	P1- 77	10	N		14		1	S9-7-NO	25	Y		8		35	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

M

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR E
SHEET 16 OF 20

MIL 3088 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 114	4	1550	P1- 67	10	N		14		1	S9-8-C	25	Y				35	
A 115	4	1500	P1- 78	10	N		14		1	S20-2-C	25	Y		8		32	
A 116	4	1700	P1- 79	10	N		14		1	S21-3-C	25	Y		8		33	
A 117	1	1500		250		225	10	8A			225		200	12	7A		
A 117A	4	600	SHLD A117	25	Y					E6	25	N				54	
A 117W			P1- 68	10	N		14		1	S20-4-C	25	Y				32	
A 118	4	1700	P1- 93	10	N		14		1	S21-3-NO	25	Y		8		33	
A 119	4	1500	P1-106	10	N		14		1	S20-2-NO	25	Y		8		32	
A 120	4	800	P1- 85	10	N		14		1	S7-2-C	25	Y		8		40	
A 121	4	850	P1- 86	10	N		14		1	S23-1-NO	25	Y		8		41	
A 122	4	800	P1- 89	10	N		14		1	S7-2-NC	25	Y		8		40	
A 123	4	700	P1- 97	10	N		14		1	S8-1-NO	25	Y		8		42	
A 124	4	800	P1- 98	10	N		14		1	S7-1-C	25	Y		8		40	
A 125	4	800	P1-102	10	N		14		1	S23-1-NC	25	Y		8		41	
A 126	4	700	P1-103	10	N		14		1	S8-1-NC	25	Y		8		42	
A 127	4	850	P1-104	10	N		14		1	S7-1-NC	25	Y		8		40	
A 128	4	700	S7-1-NO	25	Y		8		40	S8-1-C	25	Y		8		42	
A 129	4	600	S7-2-NO	25	Y		8		40	S23-1-C	25	Y		8		41	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

M

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR A
SHEET 17 OF 20

MIL 3088 - 4-63 WIR

G H 50A1 A 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.
A 130	4	1050	P1- 16	10	N	14	1	S19-5-C	25	Y	9	12
A 131	4	1200	P1- 17	10	N	14	1	S19-6-NO	25	Y	8	15
A 132	4	1050	P1- 3	10	N	14	1	S19-5-NO	25	Y	8	12
A 133	4	1300	S19-5-C	25	Y		12	S19-6-C	25	Y	8	16
A 134	4	900	P1- 7	10	N	14	1	S19-4-C	25	Y	9	11
A 135	4	900	P1- 6	10	N	14	1	S19-4-NO	25	Y	8	11
A 136	4	1200	P1- 20	10	N	14	1	S19-3-NO	25	Y	8	17
A 137	4	1500	S19-4-C	25	Y		11	S19-3-C	25	Y	8	18
A 138	4	1200	P1- 5	10	N	14	1	S19-2-NO	25	Y	8	9
A 139	4	1010	P1- 4	10	N	14	1	S19-1-NO	25	Y	8	14
A 140	4	1000	P1- 18	10	N	14	1	S19-1-C	25	Y	9	14A
A 141	4	1300	S19-1-C	25	Y		13	S19-2-C	25	Y	8	10
A 142	5	800	P1- 91	10	N	14	1	E1	25	N	18	3
A 143	5	1000	P1- 83	10	N	14	1	E7	25	N	13	2
A 144	5	300	E6	25	N	13	54	E7	25	N		2
A 145	5	300	E5	25	N	13	53	E7	25	N		2
A 146	5	300	E4	25	N	13	52	E7	25	N		2
A 147	5	300	E3	25	N	13	51	E7	25	N		2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A

1014580

SCALE NONE REV LTR E SHEET 18 OF 20

MIL 2085 - 4-63 WIN

G H 50A1 K 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.
A 148	5	1900	E2	25	N	13	48	E7	25	N		2
A 149	4	1250	P1- 40	10	N	14	1	S10-5	25	Y	8	6
A 150	4	1200	XDS3-LO	25	Y		5	M1 LAMP-LO	25	Y	8	7
A 151	4	1000	S17-1-C	25	Y		45	S1-2-NC	25	Y		44
A 152	4	1200	S11-3-NO	25	Y	8	27	S11-8-C	25	Y	8	28
A 153	4	1000	S20-1-C	25	Y		32	S9-4-NO	25	Y	9	34
A 154	4	1200	S9-8-NO	25	Y		35	S20-2-NC	25	Y	9	32
A 155	4	1200	S9-5-C	25	Y		35	S20-4-NC	25	Y	9	32
A 156	4	1000	S9-4-C	25	Y		34	S20-1-NC	25	Y	9	32
A 157	4	1200	S9-5-NO	25	Y		35	S20-3-C	25	Y	9	32

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

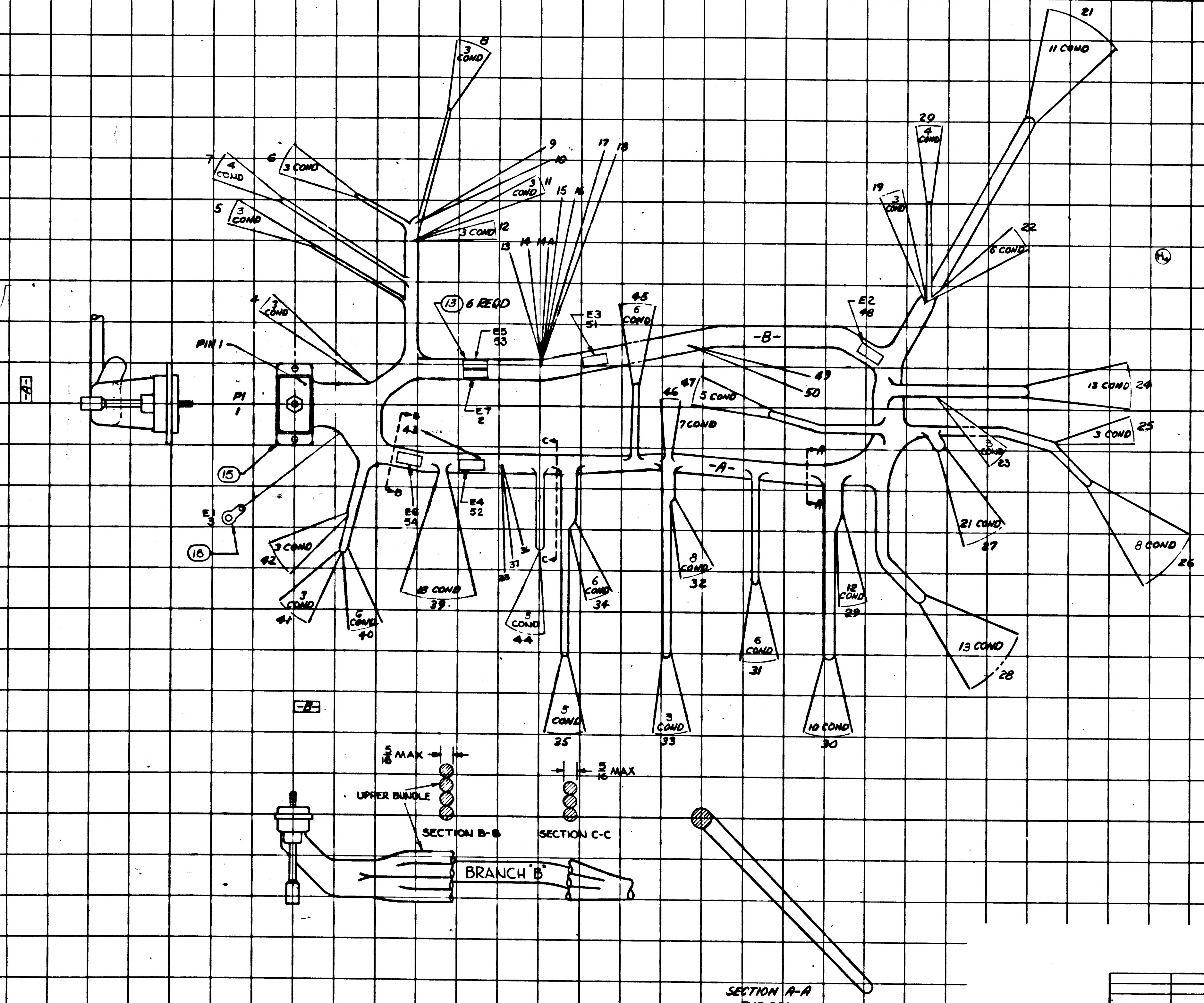
SIZE A

1014580

SCALE - NONE REV LTR K SHEET 19 of 20

MIL 2085 4 63 WIN

C	TDRR 02420			
D	TDRR 02524			
E	TDRR 5249 (23 Dec 63)			
F	TDRR 5252 (23 Dec 63)			
H_6	REVISED PER TDRR NO. 06369	25 FEB 64	WN.	



-A-
P1
1
PIN 1
4 3 COND
5 3 COND
7 4 COND
6 3 COND
3 COND 8
9
10
3 COND 11
3 COND 12
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14A
13 6 REQD
E5 53
E3 51
E7 2
45 6 COND
-B-
47 5 COND
46
7 COND
49
50
E2 48
19 3 COND
20 4 COND
21 11 COND
22 6 COND
13 COND 24
3 COND 25
3 COND 23
8 COND 26
21 COND 27
13 COND 28
12 COND 29
10 COND 30
6 COND 31
8 COND 32
5 COND 33
5 COND 35
6 COND 34
5 COND 44
37
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C
C
-A-
A
A
B
B
43
E6 54
E4 52
18 COND 39
6 COND 40
3 COND 41
3 COND 42
15
E1 3
18
-B-
5/16 MAX
UPPER BUNDLE
SECTION B-B
BRANCH "B"
SECTION C-C
5/16 MAX
SECTION A-A TYPICAL

H4

1014580 M

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+ \+ \+
- \- \-
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS-9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 15 JULY 63
CHECKED P10JDA 18 JUN 63
APPROVAL F.J. MORAN 18 JUN
APPROVAL A KOPEL 20 JUN 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRING HARNESS A
G&N INDICATOR CONTROL PANEL

CODE IDENT NO.
SIZE E
1014580
SCALE 1/1
SHEET 20 of 20

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014578		A	COMPLETELY REVISED	23 JULY	
		B	REVISED WIRE LENGTHS TOTALS (SHEET 5)	23 JULY 63	JRS
		C₁	Ⓒ UPGRADED FOR CLASS A RELEASE TDRR 02722	5 AUG 63	WK
		D₄	(D1) ITEM 4, 1014580-4 WAS 130 FT 5 IN (SH5) (D2) REMD COND A107 (D3) REVISED COND A108 LENGTH WAS 16.00. "TO" CIR PT WAS 520-2-NC. "TO" TERM. NO. WAS 32 (SH16) (D4) TERM. NO.'S 32 & 33 WERE 4 COND. (SH 20) TDRR 02524	13 AUG 63	WK
		E	REVISED PER TDRR NO. 05249	20 DEC 63	WK
		F	REVISED PER TDRR NO. 05252	20 DEC 63	WK
		G	REVISED PER TDRR NO. 06166	11 FEB 64	WK
	Ⓜ	H₆	REVISED PER TDRR NO. 06369	25 FEB 64	WK

Charleston 14 Jun 63

REV																					
SHEET																					
N REV STATUS	REV	N	F	F	N	N	F	N	N	N	N	N	N	N	N	N	N	N	N	N	N
1A OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC SPARK PLUG DIVISION , GMC
MILWAUKEE, WISCONSIN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ACSP PN

DRAWN C. M. Kulo DATE 31 MAY 63
CHECKED C. Propla 18 JUN 63
APPROVAL J. J. Moran 18 JUN 63
APPROVAL [illegible] 20 JUN 63
NASA APPROVAL [illegible] 6/1/63
MIT APPROVAL [illegible] 63
CONTRACT NAS9-497

WIRING HARNESS "A"
G&N INDICATOR CONTROL PANEL

CODE IDENT NO.	SIZE		REV
(h)	A	1014580	N

SCALE — Added Sheet 1A per TDRR 06723 SHEET 1 OF 20

SYM	DESCRIPTION	DATE	APPROVAL
J	REVISED PER TDRR NO. 06723	10 MAR 64	WK
K	REVISED PER TDRR NO. 06870	17 MAR 64	WK
Ⓜ L	REVISED PER TDRR NO. 8489	1 JUN 64	RB AU
M	REVISED PER TDRR NO 10943	29 JUL 64	JJJ DLF
N	REVISED PER TDRR NO. 11313	14 AUG 64	JWP DXH

(r)	MANNED SPACECRAFT CENTER HOUSTON TEXAS	REVISION N	NASA DRAWING NO. SHEET 1A OF 20

G H 50A1 A 1014580

PENNANT GENERAL NOTES

NOTE

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK CONDUCTOR IDENTIFICATION OMITTING ALL SUFFIX LETTERS EXCEPT A,B,C, AND D PER ND1002019. . (ES-2475-7).

~~5 TAPE HARNESS USING ND . 3/4 INCH WIDE (ES-2716-3 WHITE)~~

6 SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 16 AND 17

7 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

8 GRID MODULE IS 1 INCH.

9 UNLESS OTHERWISE SPECIFIED -
FEATURE CENTERLINES ARE LOCATED WITHIN + OR - 1/4 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - 1/8 INCH

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

~~11 QTY 106 REQUIRED. FURNISHED WITH ITEM 15. ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.~~

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING OR CONDUCTOR COLOR.
A - FROM END SHIELD
B - TO END SHIELD
L - BLUE
R - RED
W - WHITE

13 INSTALL CRIMP STYLE TERMINALS IN ACCORDANCE WITH ND1002206.

(r)

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR F
SHEET 2 OF 20

G H 50A1 A 1014580

PENNANT GENERAL NOTES

NOTE

14 BIND WIRES TOGETHER PER ND1002032 USING MIL-T-713, TYPE P, CLASS 2 TAPE. FORM RUNNING LOCKSTITCH AT 1/2 INCH SPACING.

15 TWIST CONDUCTORS A1,A2 AND A3 APPROX 18 TURNS PER FOOT
16- TWIST CONDUCTORS A32 AND A33 APPROX 18 TURNS PER FOOT
17- TWIST CONDUCTORS A58 AND A59 APPROX 18 TURNS PER FOOT
18- TWIST CONDUCTORS A60 AND A61 APPROX 18 TURNS PER FOOT
19- TWIST CONDUCTORS A63,A64 AND A65 APPROX 18 TURNS PER FOOT
20- TWIST CONDUCTORS A66,A67,A68,A79 AND A80 APPROX 18 TURNS PER FOOT
~~21- TWIST CONDUCTORS A90 AND A91 APPROX 4 TURNS PER FOOT~~
~~22- TWIST CONDUCTORS A92 AND A93 APPROX 4 TURNS PER FOOT~~
~~23- TWIST CONDUCTORS A94 AND A95 APPROX 4 TURNS PER FOOT~~
24- TWIST CONDUCTORS A97 AND A98 APPROX 18 TURNS PER FOOT
25- TWIST CONDUCTORS A99 AND A100 APPROX 18 TURNS PER FOOT
26- TWIST CONDUCTORS A112 AND A113 APPROX 18 TURNS PER FOOT
27- TWIST CONDUCTORS A130,A131 AND A132 APPROX 18 TURNS PER FOOT
28- TWIST CONDUCTORS A134,A135 AND A136 APPROX 18 TURNS PER FOOT
29- TWIST CONDUCTORS A138,A139 AND A140 APPROX 18 TURNS PER FOOT
30- TWIST CONDUCTORS A66,A68,A72 AND A73 APPROX 18 TURNS PER FOOT

31 PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A1

32 CONDUCTOR LENGTHS ARE FOR MFG. REF ONLY

(r)

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR F
SHEET 3 OF 20

G H 50A1 ~~K~~ N 1014580

PENNANT GENERAL NOTES

NOTE

33 TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

34 USE A FIGURE EIGHT TYPE STITCH IN BRANCH A BETWEEN SECTION B-B AND C-C (APPROXIMATELY 4"). WIDTH SHALL NOT EXCEED 5/16" PER BUNDLE. CONDUCTORS BREAKING OUT ON TOP SIDE TO TERMINATION POINTS 34 THRU 39, 43 & 44 SHALL BE ROUTED IN TOP BUNDLES.

35 INSULATION SHALL BE RECESSED INTO INSULATION CUP OF PIN BODY ON ALL CONDUCTORS TERMINATING IN TERMINATION NO. 1.

36 SERIALIZE PER ND1002023.

(v)

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR ~~F~~ ~~K~~ ~~4~~ N
SHEET 4 OF 20

G H 50A1 ~~K~~ N 1014580

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014580- 1	WIRE ~~PER ND1002105 TYPE 1~~ 1010685-4 (WHT JKT 24AWG WHT. ~~17~~ 17 FT ~~10~~ 3 IN TOTAL LENGTH
	2	1	1014580- 2	WIRE ~~PER ND1002105 TYPE 7-2~~ 1010685-5 (WHT JKT 24AWG WHITE, RED) 13 FT ~~1~~ 3 IN TOTAL LENGTH
	3	1	1014580- 3	WIRE ~~PER ND1002105 TYPE 7-3~~ 1010685-6 (WHT JKT 24AWG WHITE, RED, BLUE) ~~7~~ 8 FT ~~10~~ 9 IN TOTAL LENGTH
	4	1	1014580- 4	WIRE ~~PER ND1002105 TYPE 1~~ 1010685-1 (24AWG WHITE) ~~127~~ 133 FT ~~1~~ 10 IN TOTAL LENGTH
	5	1	1014580- 5	WIRE ~~PER ND1002105 TYPE 1~~ 1010685-2 (22AWG WHITE) 4 FT ~~X~~ 0 IN TOTAL LENGTH
	6	10	1010490-170	INSULATION SLEEVING HEAT SHRINK
	7	5	1010490-168	INSULATION SLEEVING HEAT SHRINK
	8	~~127~~ ~~124~~ 157	~~1010490-082~~ 1010476-82	INSULATION SLEEVING HEAT SHRINK
	~~9~~	~~24~~ ~~34~~	~~1010490-080~~	~~INSULATION SLEEVING HEAT SHRINK~~ DELETE
	10	~~10~~ 9	1010402- 1	SOLDER SLEEVE
	11	12	1010402- 2	SOLDER SLEEVE
	12	~~10~~ 12	1010490-172	INSULATION SLEEVING HEAT SHRINK
	13	6	1010650-1	CAP-SOLDER, ELECTRICAL CONDUCTOR, INSULATED
~~11~~	14	~~106~~ 100	1010738-1	CONTACT ELECTRICAL
10	15	1	1010347- 1	CONNECTOR, PLUG, ELECTRICAL
	16	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)

(r)

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR ~~M~~ N
SHEET 5 OF 20

G H 50A1 A 1014580

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	17	AR	QQ-S-571	FLUX AR (ES-2175 TYPE 1 OR 2) OR MIL 14256 FLUX (ES-2798)
	18	1	1010638-6	TERMINAL
	19	AR	MIL-T-713 TYPE P, CLASS 2, BLACK	TAPE

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR F | SHEET 6 OF 20

MIL 2084 4-63

G H 50A1 ~~A~~ N 1014580

	CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.
A	1	4	~~1100~~ 1150	A1- 1	25	Y		8		21	T1- 3	25	Y				22
A	2	4	~~1500~~ 1725	A1- 2	25	Y		8		21	S3-2-C	25	Y		8		47
A	3	4	~~1500~~ 1725	A1- 3	25	Y		8		21	S3-2-C	25	Y				47
A	4	2	~~1850~~ 1950		~~450~~ 350		~~225~~ 325	6	7A			~~750~~ 800		~~725~~ 775	11	8A	
A	4B	4	600	E2	25	N				48	SHLD A4	25	Y				
A	4R			A1-12	25	Y		8		21	S11-4-NC	25	Y		8		27
A	4W			A1- 4	25	Y	200	8		21	~~S11-11-NO~~ S15-1-C	25	Y	200	8		~~28~~ 29
A	5	2	~~1750~~ 1950		~~250~~ 350		~~225~~ 325	6	7A			750		725	11	8A	
A	5B	4	600	E2	25	N				48	SHLD A5	25	Y				
A	5R			A1-10	25	Y		8		21	S11-3-NC	25	Y		8		27
A	5W			A1- 8	25	Y		8		21	S11-9-NO	25	Y	100	8		28
A	6	2	~~1400~~ 1650		~~250~~ 350		~~225~~ 325	6	7A			~~350~~ 400		~~325~~ 375	11	8A	
A	6B	4	600	E2	25	N				48	SHLD A6	25	Y				
A	6R			A1- 5	25	Y		8		21	S11-5-NC	25	Y		8		27
A	6W			A1- 9	25	Y		8		21	S11-5-NO	25	Y		8		27
A	7	2	~~1400~~ 1650		~~250~~ 350		~~225~~ 325	6	7A			~~350~~ 400		~~325~~ 375	11	8A	
A	7B	4	600	E2	25	N				48	SHLD A7	25	Y				
A	7R			A1- 6	25	Y		8		21	S11-6-NC	25	Y		8		27

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR ~~A~~ N | SHEET 7 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ~~X~~ N 1014580

	CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
A	7W			A1- 7	25	Y		8		21	S11-6-NO	25	Y		8		27	
A	8	2	~~2050~~ 2100		250		225	11	8A			~~300~~ 375		~~275~~ 350	6	7A		8
A	8A	4	600	SHLD A8	25	Y					E3	25	N				51	
A	8R			P1- 80	10	N		14		1	T1- 1	25	Y		8		22	
A	8W			P1- 69	10	N		14		1	T1- 2	25	Y				22	
A	9	4	~~1100~~ 1125	S3-2-NO	25	Y		8		47	T1- 1	25	Y				22	
A	10	4	~~1100~~ 1125	S3-1-NC	25	Y		8		47	T1- 7	25	Y		8		22	
A	11	4	~~1100~~ 1125	S3-1-NO	25	Y		8		47	T1- 5	25	Y		8		22	
A	12			DELETED														
A	13			DELETED														
A	14	4	~~700~~ 950	P1- 92	10	N		14		1	S16-7-C	25	Y				39	
A	15	4	~~850~~ 950	P1- 74	10	N		14		1	S16-8-NO	25	Y		8		39	
A	16	4	~~850~~ 950	P1- 90	10	N		14		1	S16-4-C	25	Y				39	
A	17	4	~~750~~ 950	P1-100	10	N		14		1	S16-3-C	25	Y				39	
A	18	4	~~750~~ 950	P1- 88	10	N		14		1	S16-1-NO	25	Y		8		39	
A	19	4	~~750~~ 950	P1- 87	10	N		14		1	S16-2-NO	25	Y		8		39	
A	20	4	~~750~~ 950	P1-101	10	N		14		1	S16-3-NO	25	Y		8		39	
A	21	4	~~750~~ 950	P1- 94	10	N		14		1	S16-4-NO	25	Y		8		39	

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR ~~X~~ N | SHEET 8 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ~~X~~ N 1014580

	CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.		NO.	
A	22	4	~~900~~ 1000	S16-1-NO	25	Y				39	S16-6-C	25	Y		8		39	
A	23	4	~~750~~ 950	P1- 76	10	N		14		1	S16-5-NO	25	Y		8		39	
A	24	4	~~850~~ 950	P1- 75	10	N		14		1	S16-6-NO	25	Y		8		39	
A	25	4	~~800~~ 950	P1-105	10	N		14		1	S16-7-NO	25	Y		8		39	
A	26	1	~~2400~~ 2600		250		225	10	8A			~~250~~ 350		~~225~~ 325	12	7A		B
A	26A	4	600	SHLD A26	25	Y					E3	25	N				51	
A	26W			P1- 56	10	N		14		1	S11-8-NC	25	Y		8		28	
A	27	1	2600		250		225	10	8A			~~250~~ 350		225 325	12	7A		B
A	27A	4	600	SHLD A27	25	Y					E3	25	N				51	
A	27W			P1- 47	10	N		14		1	~~S11-9-NC~~ S11-11NC	25	Y		8		28	
A	28	1	2600		250		225	10	8A			~~300~~ 350		~~275~~ 325	12	7A		B
A	28A	4	600	SHLD A28	25	Y					E3	25	N				51	
A	28W			P1- 48	10	N		14		1	S11-10-NC	25	Y		8		28	
A	29	~~1~~	~~2300~~		~~250~~		~~225~~	~~10~~	~~8A~~			~~300~~		~~275~~	~~12~~	~~7A~~		~~B~~ DELETE
A	29A	~~4~~	~~600~~	~~SHLD A29~~	~~25~~	~~Y~~					~~E3~~	~~25~~	~~N~~				~~51~~	DELETE
A	29W			~~P1- 57~~	~~10~~	~~N~~		~~14~~		~~1~~	~~S11-11-NC~~	~~25~~	~~Y~~		~~8~~		~~28~~	DELETE
A	30	1	~~1900~~ 2200		250		225	10	8A			~~225~~ 350		~~200~~ 325	12	7A		A
A	30A	4	600	SHLD A30	25	Y					E4	25	N				52	

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580
SCALE - NONE | REV LTR ~~X~~ N | SHEET 9 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ~~X~~ N 1014580

	CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2		TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2		TIN	TERMINATION SPEC 1 ITEM NO.	NO.	
A	30W			P1- 49	10		N	14	1	S15-8-C	25		Y	8X	30	
A	31	1	~~1900~~ 2200		260	225		10	8A		~~225~~ 350	~~200~~ 325		12	7A	A
A	31A	4	600	SHLD A31	25		Y			E4	25		N		52	
A	31W			P1- 38	10		N	14	1	S15-8-NC	25		Y	8X	30	
A	32	4	~~1050~~ 1500	S15-8-C	25		Y		30	S11-5-NO	25		Y		27	
A	33	4	~~1050~~ 1500	S15-8-NC	25		Y		30	S11-6-NO	25		Y		27	
A	34	4	~~2050~~ 2300	P1- 72	10		N	14	1	S11-1-NC	25		Y	8	27	
A	35	3	~~2300~~ 2600		~~400~~ 275	~~375~~ 250		11	8B		~~600~~ 800	~~575~~ 775		7	7A	B
A	35A	4	600	SHLD A35	25		Y			E5	25		N		53	
A	35L			P1- 37	10		N	14	1	S11-12-NC	25		Y	8	28	
A	35R			P1- 25	10		N	14	1	S11-2-NC	25		Y	8	27	
A	35W			P1- 36	10		N	14	1	S11-12-C	25		Y	8X	28	
A	36	4	~~700~~ 1200	S11-12-C	25		Y		28	S11-2-C	25		Y	8	27	
A	37	4	~~2100~~ 2200	P1- 1	10		N	14	1	S15-7-NC	25		Y	8X	30	A
A	38	4	~~1100~~ 1350	S15-7-NC	25		Y		30	S11-1-C	25		Y	8X	27	
A	39	4	~~600~~ 1000	S11-1-C	25		Y		27	S14-2-C	25		Y	8	25	
A	4:	1	~~2100~~ 2300		400	375		10	8B		400	375		12	7A	B
A	41A	4	600	SHLD A41	25		N			E5	25		N		53	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

(r)

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014580

SCALE - NONE REV LTR ~~X~~ N SHEET 10 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ~~X~~ N 1014580

	CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2		TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2		TIN	TERMINATION SPEC 1 ITEM NO.	NO.	
A	41W			P1- 96	10		N	14	1	~~S11-5-C~~ S4-1-NO	25		Y	8X	~~27~~ 26	
A	42	4	~~300~~ 650	S11-5-C	25		Y		27	S11-6-C	25		Y	8X	27	
A	43	4	~~800~~ 1200	S11-6-C	25		Y		27	~~S4-1-NO~~ S4-3-NC	25		Y	8X	26	
A	44	4	~~400~~ 1000	S15-6-NC	25		Y	8	30	S15-2-NC	25		Y	8X	29	
A	45	4	~~700~~ 1050	S11-4-C	25		Y	8	27	S15-2-NC	25		Y		29	
A	46	4	~~800~~ 1100	S11-11-C	25		Y	8	28	~~S15-3-C~~ S11-5-C	25		Y	8X	~~29~~ 27	
A	47	4	~~700~~ 1050	S11-4-NO	25		Y	8	27	S11-10-C	25		Y	8	28	
A	48	4	~~850~~ 1175	S11-10-NO	25		Y	8	28	S15-1-NC	25		Y		29	
A	49	2	~~1600~~ 1825		350	325		11	8B		250	225		6	7A	A
A	49A	4	600	SHLD A49	25		Y			E4	25		N		52	
A	49R			P1- 35	10		N	14	1	S15-2-C	25		Y	8	29	
A	49W			P1- 34	10		N	14	1	S15-2-NO	25		Y		29	
A	50	4	~~700~~ 900	S11-3-C	25		Y	8	27	S15-4-NC	25		Y		29	
A	51	4	~~650~~ 1100	S11-9-C	25		Y	8	28	S15-3-C	25		Y	8	29	
A	52	4	~~700~~ 1100	S11-8-NO	25		Y	8	28	S15-3-NC	25		Y		29	
A	53	2	~~1700~~ 1825		350	325		11	8B		250	225		6	7A	A
A	53A	4	600	SHLD A53	25		Y			E4	25		N		52	
A	53R			P1- 19	10		N	14	1	S15-4-C	25		Y	8	29	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

(r)

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014580

SCALE - NONE REV LTR ~~X~~ N SHEET 11 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 X 1014580

	CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2		TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2		TIN	TERMINATION SPEC 1 ITEM NO.	NO.	
A	53W			P1- 33	10		N	14	1	S15-4-NO	25		Y		29	
A	54	4	~~2100~~ 2150	P1- 99	10		N	14	1	S15-7-C	25		Y	8	30	A
A	55	3	~~1350~~ 1725		300	275		7	7A		~~575~~ 650	~~550~~ 625		11	8A	
A	55B	4	600	E2	25		N		48	SHLD A55	25		Y			
A	55L			S12-3-NO	25		Y	8	24	S15-5-C	25		Y	8	30	
A	55R			S12-2-NO	25		Y	8	24	S15-3-NO	25	300	Y		29	
A	55W			S12-1-NO	25		Y	8	24	S15-6-C	25		Y	8	30	
A	56	3	~~2200~~ 2400		300	275		11	8A		~~250~~ 325	~~225~~ 300		7	7A	B
A	56A	4	600	SHLD A56	25		Y			E5	25		N		53	
A	56W			P1- 10	10		N	14	1	S12-3-C	25		Y	8	24	
A	56L			P1- 24	10	50	N	14	1	S12-1-C	25		Y	8	24	
A	56R			P1- 23	10	25	N	14	1	S12-2-C	25		Y	8	24	
A	57	3	~~2200~~ 2450		~~350~~ 250	~~325~~ 225		11	8A		~~250~~ 350	~~225~~ 325		7	7A	B
A	57A	4	600	SHLD A57	25		Y			E5	25		N		53	
A	57L			P1- 22	10	100	N	14	1	S12-3-NC	25		Y	8	24	
A	57R			P1- 9	10	25	N	14	1	S12-2-NC	25		Y	8	24	
A	57W			P1- 8	10	50	N	14	1	S12-1-NC	25		Y	8	24	
A	58	4	1450	P1- 84	10		N	14	1	S17-2-NC	25		Y	8X	45	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014580

SCALE - NONE REV LTR ~~X~~ ~~X~~ N SHEET 12 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 X N 1014580

	CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2		TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2		TIN	TERMINATION SPEC 1 ITEM NO.	NO.	
A	59	4	1450	P1- 54	10		N	14	1	S17-1-NC	25		Y	8X	45	
A	60	4	~~1550~~ 1900	S17-2-NC	25		Y		45	S12-4-NO	25		Y	8	24	
A	61	4	~~1550~~ 1900	S17-1-NC	25		Y		45	S12-4-NC	25		Y	8X	24	
A	62	4	850	S12-4-C	25		Y	8	24	XDS12-HI	25		Y	8	23	
A	63	4	3000	S12-4-NC	25		Y		24	M1 LAMP-HI	25		Y	8	7	
A	64	4	~~2500~~ 2550	XDS 4-LO	25		Y	8X	20	XDS 3-LO	25		Y	8X	5	
A	65	4	~~2500~~ 2550	XDS 4-HI	25		Y	8X	20	XDS 3-HI	25		Y		5	
A	66	4	2200	P1- 52	10		N	14	1	XDS12-LO	25		Y	8X	23	A
A	67	4	~~1300~~ 1200	P1- 61	10		N	14	1	S1-2-NC	25		Y		44	
A	68	4	~~2400~~ 2000	P1- 62	10		N	14	1	S2-1-C	25		Y	8X	19	A
A	69	4	~~700~~ ~~1400~~ 1500	S1-1-C	25		Y		44	~~S17-1-C~~ S13-3-NC	25		Y		~~45~~ 31	
A	70	4	~~600~~ 750	S17-2-C	25		Y		45	S24-1-NO	25		Y	8X	46	
~~A~~	~~71~~	~~4~~	~~700~~	~~S24-1-NO~~	~~25~~		~~Y~~		~~46~~	~~S18-1-NC~~	~~25~~		~~Y~~	~~7~~	~~32~~	
A	72	4	~~1400~~ 1450	S24-1-NO	25		Y		46	S2-1-C	25		Y		19	
A	73	4	~~900~~ 1125	XDS12-LO	25		Y		23	XDS 4-LO	25		Y		20	
A	74	4	~~600~~ 750	S2-1-NC	25		Y	8	19	XDS 4-HI	25		Y		20	
A	75	4	~~1500~~ 1350	P1- 32	10		N	14	1	S25-1-NO	25		Y	8X	46	
A	76	4	~~450~~ 2000	S25-1-NO	25		Y		46	R1-CW	25		Y	8	49	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

(r)

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014580

SCALE - NONE REV LTR ~~X~~ N SHEET 13 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 F 1014580

NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET		TIN	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET		TIN	TERMINATION SPEC ITEM NO.		NO.	
A 77	4	1500	P1- 44	10		N	14		1	R1-CCW	25		Y			50	B
A 78	4	1400	P1- 26	10		N	14		1	S25-1-C	25		Y	8		46	
A 79	4	1400	P1- 63	10		N	14		1	S24-1-C	25		Y	8		46	
A 80	4	1400	P1- 64	10		N	14		1	S24-1-C	25		Y			46	
A 81	2	1800		250	225		11	8A			250	225		6	7A		
A 81A	4	600	SHLD A81	25		Y				E5	25		N			53	
A 81R			P1- 12	10		N	14		1	M1-LO	25		Y			7	
A 81W			P1- 11	10		N	14		1	M1-HI	25		Y			7	
A 82	4	500	P1- 13	10		N	14		1	R2-WIPER	25		Y	8		4	
A 83	4	1000	P1- 27	10		N	14		1	A2-E1	25		Y	8		37	
A 84	4	750	P1- 39	10		N	14		1	S22-1-C	25		Y			43	
A 85	4	1100	R2-LO	25		Y	8		4	A2-E9	25		Y	8		36	
A 86	4	1200	R2-HI	25		Y	8		4	A2-E2	25		Y	8		38	
A 87	4	1250	P1- 41	10		N	14		1	~~S10-1-1~~	25		Y	8		6	
A 88	4	1250	P1- 50	10		N	14		1	S10-1-3	25		Y			6	
~~A 89~~	~~4~~	~~1200~~	~~P1- 14~~	~~12~~		~~N~~	~~14~~		~~1~~	~~S1-4-NC~~	~~25~~		~~Y~~	~~8~~		~~44~~	
~~A 90~~	~~4~~	~~1500~~	~~P1- 15~~	~~12~~		~~N~~	~~14~~		~~1~~	~~S1-3-NO~~	~~25~~		~~Y~~	~~8~~		~~44~~	
~~A 91~~	~~4~~	~~1500~~	~~P1- 43~~	~~12~~		~~N~~	~~14~~		~~1~~	~~S1-2-NO~~	~~25~~		~~Y~~	~~8~~		~~44~~	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

M

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR ~~K~~ N
SHEET 14 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 N 1014580

NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET		TIN	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET		TIN	TERMINATION SPEC ITEM NO.		NO.	
~~A 92~~	~~4~~	~~1500~~	~~P1- 53~~	~~12~~		~~N~~	~~14~~		~~1~~	~~S1-2-NC~~	~~25~~		~~Y~~	~~8~~		~~44~~	
A 93	4	~~1500~~ 1250	P1- 73	10		N	14		1	S1-1-NC	25		Y	8		44	
~~A 94~~	~~4~~	~~1500~~	~~P1- 28~~	~~12~~		~~N~~	~~14~~		~~1~~	~~S1-2-C~~	~~25~~		~~Y~~	~~8~~		~~44~~	
A 95	4	~~1500~~ 1250	P1- 29	10		N	14		1	S1-2-C	25		Y	8		44	
A 96	4	~~2300~~ 2550	P1- 71	10		N	14		1	S4-3-NC	25		Y	~~8~~		26	B
A 97	4	~~2600~~ 2750	P1- 60	10		N	14		1	S4-2-NO	25		Y	8		26	B
A 98	4	~~2300~~ 2550	P1- 70	10		N	14		1	S4-2-C	25		Y	8		26	B
A 99	4	~~2450~~ 2600	P1- 2	10		N	14		1	S4-3-NO	25		Y	8		26	B
A 100	4	~~2400~~ 2600	P1- 21	10		N	14		1	S4-3-C	25		Y	8		26	B
A 101	1	~~2400~~ 2600		400	375		10	8B			~~200~~ 350	~~175~~ 325		12	7A		B
A 101A	4	600	SHLD A101	25		Y				E5	25		N			53	
A 101W			P1- 82	10		N	14		1	S4-1-C	25		Y	8		26	
A 102	4	~~2350~~ 2600	P1- 58	10		N	14		1	S14-1-NC	25		Y	8		25	
A 103	4	~~2350~~ 2600	P1- 59	10		N	14		1	S14-1-NO	25		Y	8		25	
A 104	3	1350		250	225		11	8A			250	225		7	7A		
A 104A	4	600	SHLD A104	25		Y				E6	25		N			54	
A 104L			P1- 42	10		N	14		1	S13-1-C	25		Y	8		8	
A 104R			P1- 31	10		N	14		1	S13-1-NO	25		Y	8		8	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR ~~K~~ N
SHEET 15 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 N 1014580

NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET		TIN	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET		TIN	TERMINATION SPEC ITEM NO.		NO.	
A 104W			P1- 30	10		N	14		1	S13-1-NC	25		Y	8		8	
A 105	2	~~1700~~ 1850		350	325		11	8B			~~350~~ 250	~~325~~ 225		6	7A		A
A 105A	4	600	SHLD A105	25		Y				E6	25		N			54	
A 105R			P1- 55	10		N	14		1	S18-2-NO	25		Y	8		31	
A 105W			P1- 46	10		N	14		1	S18-2-NC	25		Y	8		31	
A 106	1	~~1700~~ 1800		350	325		10	8B			~~350~~ 250	~~325~~ 225		12	7A		
A 106A	4	600	SHLD A106	25		Y				E6	25		N			54	
A 106W			P1- 53	10		N	14		1	S18-1-NC	25		Y			31	
A 107	~~4~~	~~900~~	~~S18-3-NC~~	~~25~~		~~Y~~	~~8~~		~~31~~	~~S21-3-NC~~	~~25~~		~~Y~~			~~33~~	
A 108	4	~~1500~~ ~~2100~~ 1800	P1- 51	10		N	14		1	~~S20-2-NC~~ S18-3-NC	25		Y			~~32~~ 31	
A 109	4	~~900~~ 1200	S18-3-C	25		Y	8		31	S21-1-C	25		Y			33	
A 110	4	~~1100~~ 1200	P1- 66	10		N	14		1	S9-2-C	25		Y			34	
A 111	2	~~1100~~ 1200		250	225		11	6A			~~250~~ 350	~~225~~ 325		6	7A		
A 111A	4	600	SHLD A111	25		Y				E6	25		N			54	
A 111R			P1- 95	10		N	14		1	S9-1-C	25		Y			34	
A 111W			P1- 81	10		N	14		1	S9-1-NO	25		Y			34	
A 112	4	1250	P1- 65	10		N	14		1	S9-2-NO	25		Y	8		34	
A 113	4	1550	P1- 77	10		N	14		1	S9-7-NO	25		Y	8		35	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR N
SHEET 16 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 N 1014580

NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET		TIN	TERMINATION SPEC. ITEM NO.		NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET		TIN	TERMINATION SPEC ITEM NO.		NO.	
A 114	4	~~1500~~ 1350	P1- 67	10		N	14		1	S9-8-C	25		Y			35	
A 115	4	~~1500~~ 1550	P1- 78	10		N	14		1	S20-2-C	25		Y	8		32	
A 116	4	1700	P1- 79	10		N	14		1	S21-3-C	25		Y	8		33	
A 117	1	~~1500~~ 1750		250	225		10	8A			~~225~~ 450	~~200~~ 425		12	7A		
A 117A	4	600	SHLD A117	25		Y				E6	25		N			54	
A 117W			P1- 68	10		N	14		1	S20-4-C	25		Y			32	
A 118	4	1700	P1- 93	10		N	14		1	S21-3-NO	25		Y	8		33	
A 119	4	~~1500~~ 1600	P1-106	10		N	14		1	S20-2-NO	25		Y	8		32	
A 120	4	~~800~~ 850	P1- 85	10		N	14		1	S7-2-C	25		Y	8		40	
A 121	4	850	P1- 86	10		N	14		1	S23-1-NO	25		Y	8		41	
A 122	4	~~800~~ 850	P1- 89	10		N	14		1	S7-2-NC	25		Y	8		40	
A 123	4	~~700~~ 800	P1- 97	10		N	14		1	S8-1-NO	25		Y	8		42	
A 124	4	~~800~~ 850	P1- 98	10		N	14		1	S7-1-C	25		Y	8		40	
A 125	4	~~800~~ 850	P1-102	10		N	14		1	S23-1-NC	25		Y	8		41	
A 126	4	~~700~~ 750	P1-103	10		N	14		1	S8-1-NC	25		Y	8		42	
A 127	4	~~860~~ 875	P1-104	10		N	14		1	S7-1-NC	25		Y	8		40	
A 128	4	~~700~~ 800	S7-1-NO	25		Y	8		40	S8-1-C	25		Y	8		42	
A 129	4	~~600~~ 825	S7-2-NO	25		Y	8		40	S23-1-C	25		Y	8		41	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR N
SHEET 17 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ✱ N 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	ITEM	T/N	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	ITEM	T/N	TERMINATION SPEC ITEM NO.	NO.
A 130	4	1050	P1- 16	10	N	14	1	S19-5-C	25	Y	8	12
A 131	4	1200	P1- 17	10	N	14	1	S19-6-NO	25	Y	8	15
A 132	4	1050	P1- 3	10	N	14	1	S19-5-NO	25	Y	8	12
A 133	4	~~1300~~ 1300	S19-5-C	25	Y		12	S19-6-C	25	Y	8	16
A 134	4	~~900~~ 1150	P1- 7	10	N	14	1	S19-4-C	25	Y	8	11
A 135	4	~~900~~ 1150	P1- 6	10	N	14	1	S19-4-NO	25	Y	8	11
A 136	4	~~1200~~ 1350	P1- 20	10	N	14	1	S19-3-NO	25	Y	8	17
A 137	4	~~1500~~ 1550	S19-4-C	25	Y		11	S19-3-C	25	Y	8	18
A 138	4	1200	P1- 5	10	N	14	1	S19-2-NO	25	Y	8	9
A 139	4	~~1010~~ 1100	P1- 4	10	N	14	1	S19-1-NO	25	Y	8	14
A 140	4	~~1000~~ 1100	P1- 18	10	N	14	1	S19-1-C	25	Y	8	14A
A 141	4	~~1300~~ 1450	S19-1-C	25	Y		13	S19-2-C	25	Y	8	10
A 142	5	~~800~~ 550	P1- 91	10	N	14	1	E1	25	N	18	3
A 143	5	~~1000~~ 900	P1- 83	10	N	14	1	E7	25	N	13	2
A 144	5	~~300~~ 900	E6	25	N	13	54	E7	25	N		2
A 145	5	~~300~~ 500	E5	25	N	13	53	E7	25	N		2
A 146	5	~~200~~ 900	E4	25	N	13	52	E7	25	N		2
A 147	5	~~300~~ 500	E3	25	N	13	51	E7	25	N		2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON TEXAS

SIZE A

1014580

✱ N

18 OF 20

G H 50A1 ✱ N 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	ITEM	T/N	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	ITEM	T/N	TERMINATION SPEC ITEM NO.	NO.
A 148	5	~~1000~~ 1050	E2	25	N	13	48	E7	25	N		2
A 149	4	~~1250~~ 1150	P1- 40	10	N	14	1	S10-5	25	Y	8	6
A 150	4	1200	XDS3-LO	25	Y		5	M1 LAMP-LO	25	Y	8	7
A 151	4	~~1000~~ 1100	S17-1-C	25	Y		45	S1-2-NC	25	Y		44
A 152	4	~~1200~~ 1150	S11-3-NO	25	Y	8	27	S11-8-C	25	Y	8	28
A 153	4	~~1000~~ 1150	S20-1-C	25	Y		32	S9-4-NO	25	Y	8	34
A 154	4	~~1200~~ 1350	S9-8-NO	25	Y		35	S20-2-NC	25	Y	8	32
A 155	4	~~1200~~ 1250	S9-5-C	25	Y		35	S20-4-NC	25	Y	8	32
A 156	4	~~1000~~ 1100	S9-4-C	25	Y		34	S20-1-NC	25	Y	8	32
A 157	4	~~1200~~ 1150	S9-5-NO	25	Y		35	S20-3-C	25	Y	8	32

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

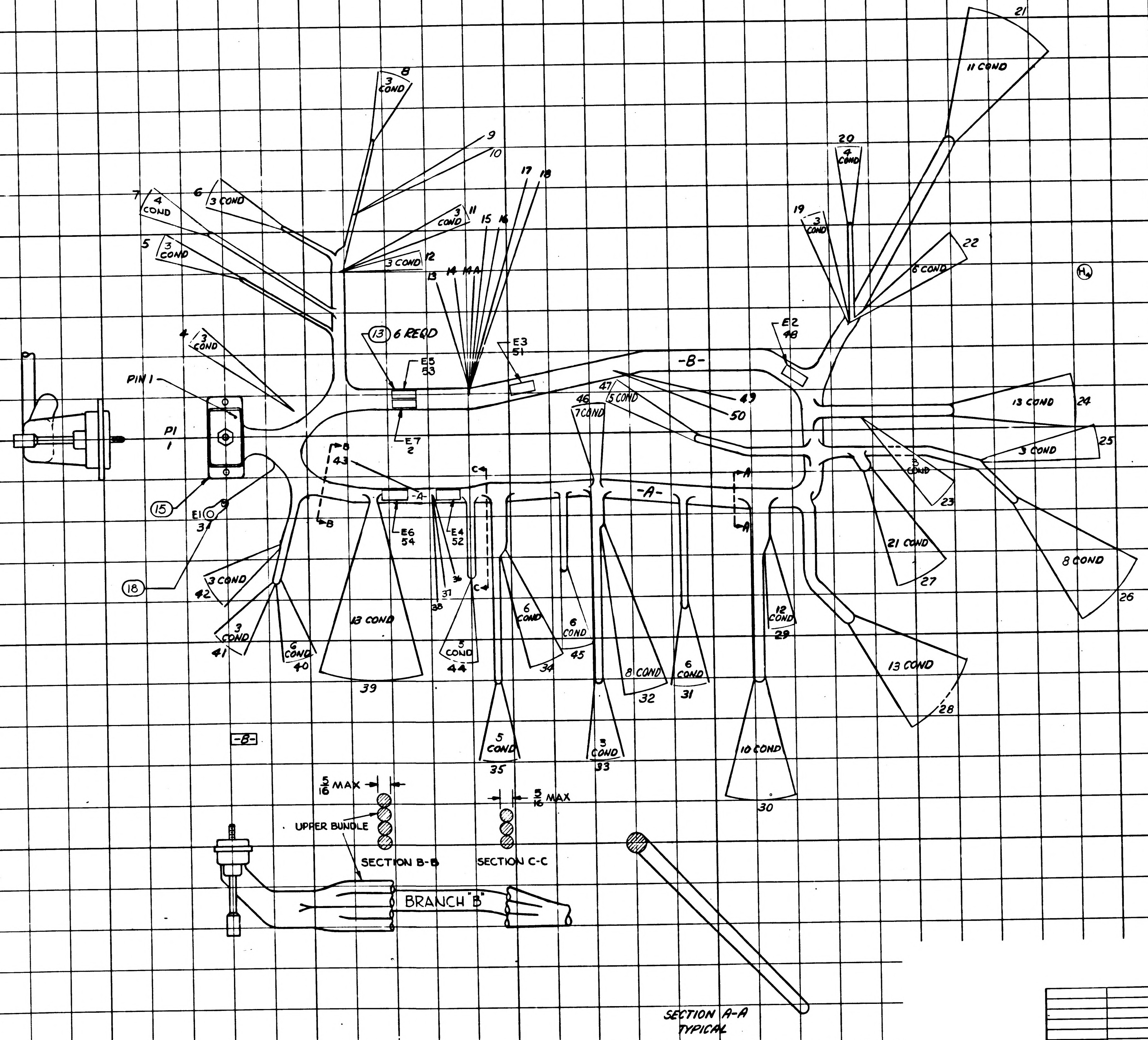
SIZE A

1014580

SCALE-NONE REV LTR ✱ N SHEET 19 of 20

MIL 2088 - 4-65 WIR

C	TDRR 02420		
D	TDRR 02524		
E	TDRR 5249 (23Dec63)		
F	TDRR 5252 (23Dec63)		
H₆	REVISED PER TDRR NO. 06369	25 FEB 64	WK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5/16 MAX
UPPER BUNDLE
SECTION B-B
5/16 MAX
SECTION C-C
BRANCH "B"
SECTION A-A
TYPICAL
(H₆)

UNLESS OTHERWISE SPECIFIED	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
DIMENSIONS ARE IN INCHES TOLERANCES ON	ACSP PN	
FRACTIONS + − DECIMALS + − ANGLES + −	DRAWN B Wilhem DATE 15 JULY 63	WIRING HARNESS A G&N INDICATOR CONTROL PANEL
	CHECKED PIOJDA 18 JUN 63	
	APPROVAL E.J. MORAN 18 JUN	
DO NOT SCALE THIS DRAWING	APPROVAL A KODEL 20 JUN 63	
MATERIAL	NASA APPROVAL 9/7/63	CODE IDENT NO. SIZE E 1014580
CONTRACT NAS-9-497	MIT APPROVAL W Clf Nov 63	SCALE 1/1 SHEET 20 of 20

NEXT ASSY	USED ON
APPLICATION	

1014580

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014578		A	COMPLETELY REVISED	23 JULY	
		B	REVISED WIRE LENGTHS TOTALS (SHEET 5)	23 JULY 63	JRS
		C1	(C1) UPGRADED FOR CLASS A RELEASE TDRR 02720	5 AUG 63	WK
		D4	(D1) ITEM 4, 1014680-4 WAS 130 FT 5 IN (SH5) (D2) REMD COND A107 (D3) REVISED COND A108 LENGTH WAS 15.00. "TO" CIR PT WAS 520-2-NC. "TO" TERM. NO. WAS 32 (SH16) (D4) TERM. NO.'S 32 & 33 WERE 4 COND. (SH 20) TDRR 02824	13 AUG 63	WK
		E	REVISED PER TDRR NO. 05249	20 DEC 63	WK
		F	REVISED PER TDRR NO. 05252	20 DEC 63	WK
		G	REVISED PER TDRR NO. 06166	11 FEB 64	WK
	(M)	H6	REVISED PER TDRR NO. 06369	25 FEB 64	WK

Charlston 14 Jun 6

REV																					
SHEET																					
P REV STATUS	REV	R	F	F	N	P	F	N	N	N	N	N	N	N	N	N	N	N	N	P	R
14 OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

DRAWN C. M. Kulo DATE 31 MAY 63
CHECKED C. Fogla 18 JUN 63
APPROVAL J. Moran 18 JUN 63
APPROVAL 20 JUN 63
NASA APPROVAL 6 Aug 63
MIT APPROVAL 63
CONTRACT NAS9-497

WIRING HARNESS "A"
G&N INDICATOR CONTROL PANEL

CODE IDENT NO. (h)
SIZE A
1014580
REV P
SCALE —
Added Sht 1A per TDRR 06723
SHEET 1 OF 20

	SYM	DESCRIPTION	DATE	APPROVAL
	J	REVISED PER TDRR NO. 06723	10 MAR 64	WK
	K	REVISED PER TDRR NO. 06870	17 MAR 64	WK
(M)	L	REVISED PER TDRR NO. 8489	1 JUN 64	RB AU
	M	REVISED PER TDRR NO 10949	29 JUL 64	JJJ DLF
(M)	N	REVISED PER TDRR NO. 11313	14 AUG 64	JWP
	P	REVISED PER TDRR NO. 14372	25 NOV 64	JJJ

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MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

REVISION P

NASA DRAWING NO.
SHEET 1A OF 20

G H 50A1 A 1014580

PENNANT GENERAL NOTES

NOTE

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 MARK CONDUCTOR IDENTIFICATION OMITTING ALL SUFFIX LETTERS EXCEPT A,B,C, AND D PER ND1002019. . (ES-2475-7).

~~5 TAPE HARNESS USING ND [illegible] 3/4 INCH WIDE [illegible]~~

6 SOLDER PER MIL-S-6872 (ES-2505-1) USING ITEMS 16 AND 17

7 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

8 GRID MODULE IS 1 INCH.

9 UNLESS OTHERWISE SPECIFIED -
FEATURE CENTERLINES ARE LOCATED WITHIN + OR - 1/4 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN + OR - 1/8 INCH

10 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING.

~~11 QTY 108 REQUIRED. FURNISHED WITH ITEM 15 . ASSEMBLE CONTACTS IN ALL CONNECTOR GROMMET HOLES.~~

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING OR CONDUCTOR COLOR.
A - FROM END SHIELD
B - TO END SHIELD
L - BLUE
R - RED
W - WHITE

13 INSTALL CRIMP STYLE TERMINALS IN ACCORDANCE WITH ND 1002206.

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MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE	
A	1014580

SCALE - NONE | REV LTR F | SHEET 2 OF 20

G H 50A1 A 1014580

PENNANT GENERAL NOTES

NOTE

14 BIND WIRES TOGETHER PER ND1002032 USING MIL-T-713, TYPE P, CLASS 2 TAPE. FORM RUNNING LOCKSTITCH AT 1/8 INCH SPACING.

15 TWIST CONDUCTORS A1,A2 AND A3 APPROX 18 TURNS PER FOOT
16- TWIST CONDUCTORS A32 AND A33 APPROX 18 TURNS PER FOOT
17- TWIST CONDUCTORS A58 AND A59 APPROX 18 TURNS PER FOOT
18- TWIST CONDUCTORS A60 AND A61 APPROX 18 TURNS PER FOOT
19- TWIST CONDUCTORS A63,A64 AND A65 APPROX 18 TURNS PER FOOT
20- TWIST CONDUCTORS A66,A67,A68,A79 AND A80 APPROX 18 TURNS PER FOOT
~~21- TWIST CONDUCTORS A90 AND A91 APPROX 4 TURNS PER FOOT~~
~~22- TWIST CONDUCTORS A92 AND A93 APPROX 4 TURNS PER FOOT~~
~~23- TWIST CONDUCTORS A94 AND A95 APPROX 4 TURNS PER FOOT~~
24- TWIST CONDUCTORS A97 AND A98 APPROX 18 TURNS PER FOOT
25- TWIST CONDUCTORS A99 AND A100 APPROX 18 TURNS PER FOOT
26- TWIST CONDUCTORS A112 AND A113 APPROX 18 TURNS PER FOOT
27- TWIST CONDUCTORS A130,A131 AND A132 APPROX 18 TURNS PER FOOT
28- TWIST CONDUCTORS A134,A135 AND A136 APPROX 18 TURNS PER FOOT
29- TWIST CONDUCTORS A138,A139 AND A140 APPROX 18 TURNS PER FOOT
30- TWIST CONDUCTORS A66,A68,A72 AND A73 APPROX 18 TURNS PER FOOT

31 PARTIAL REFERENCE DESIGNATIONS ARE SHOWN. FOR COMPLETE DESIGNATION PREFIX WITH 50A1

32 CONDUCTOR LENGTHS ARE FOR MFG. REF ONLY

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MANNED
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SIZE	
A	1014580

SCALE - NONE | REV LTR F | SHEET 3 OF 20

PENNANT NOTE

GENERAL NOTES

33 TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

34 USE A FIGURE EIGHT TYPE STITCH IN BRANCH A BETWEEN SECTION B-B AND C-C (APPROXIMATELY 4"). WIDTH SHALL NOT EXCEED 5/16" PER BUNDLE. CONDUCTORS BREAKING OUT ON TOP SIDE TO TERMINATION POINTS 34 THRU 39, 43 & 44 SHALL BE ROUTED IN TOP BUNDLES.

35 INSULATION SHALL BE RECESSED INTO INSULATION CUP OF PIN BODY ON ALL CONDUCTORS TERMINATING IN TERMINATION NO. 1.

36 SERIALIZE PER ND1002023. (V)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014580
SCALE - NONE	REV LTR [illegible] N	SHEET 4 OF 30

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G H 50A1 ~~N~~ P 1014580

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014580- 1	WIRE 1010685-4 ~~PER ND1002105 TYPE 1,~~ (WHT JKT 24AWG WHT. ~~12~~ 17 FT ~~10~~ 3 IN TOTAL LENGTH
	2	1	1014580- 2	WIRE 1010685-5 ~~PER ND1002105 TYPE 2-2~~ (WHT JKT 24AWG WHITE, RED) 13 FT ~~6~~ 3 IN TOTAL LENGTH
	3	1	1014580- 3	WIRE 1010685-6 ~~PER ND1002105 TYPE 2-3~~ (WHT JKT 24AWG WHITE, RED, BLUE) ~~7~~ 8 FT ~~10~~ 9 IN TOTAL LENGTH
	4	1	1014580- 4	WIRE 1010685-1 ~~PER ND1002105 TYPE 1~~ (24AWG WHITE) ~~122~~ 135 FT ~~5~~ 11 IN TOTAL LENGTH
	5	1	1014580- 5	WIRE 1010685-2 ~~PER ND1002105 TYPE 1~~ (22AWG WHITE) 4 FT ~~3~~ 0 IN TOTAL LENGTH
	6	10	1010490-170	INSULATION SLEEVING HEAT SHRINK
	7	5	1010490-168	INSULATION SLEEVING HEAT SHRINK
	8	159 ~~127~~ ~~24~~	1010476-82 ~~1010490-082~~	INSULATION SLEEVING HEAT SHRINK
	~~9~~	~~23~~ ~~34~~	~~1010490-080~~	~~INSULATION SLEEVING HEAT SHRINK~~ DELETE
	10	~~10~~ 9	1010402- 1	SOLDER SLEEVE
	11	12	1010402- 2	SOLDER SLEEVE
	12	~~15~~ 12	1010490-172	INSULATION SLEEVING HEAT SHRINK
	13	6	1010650-1	CAP-SOLDER, ELECTRICAL CONDUCTOR, INSULATED
~~11~~	14	~~104~~ 102	1010738-1	CONTACT ELECTRICAL
10	15	1	1010347- 1	CONNECTOR, PLUG, ELECTRICAL
	16	AR	QQ-S-571	SOLDER SN60 (ES-2175 ALLOY 1)

MANNED SPACECRAFT CENTER
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REV LTR ~~N~~ P
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G H 50A1 A 1014580

PENNANT LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	17	AR	QQ-S-571	FLUX AR (ES-2175 TYPE 1 OR 2) OR MIL 14256 FLUX (ES-2798)
	18	1	1010638-6	TERMINAL
	19	AR	MIL-T-713 TYPE P, CLASS 2, BLACK	TAPE

MANNED SPACECRAFT CENTER
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SIZE A
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SCALE - NONE
REV LTR F
SHEET 6 OF 20

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G H 50A1 ~~N~~ N 1014580

CONDUCTOR			FROM							TO						
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION			CUT WIRE OR SHIELD				TERMINATION		
NUMBER	ITEM NO.	2	STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	ITEM NO.	SPEC. 1	NO.	STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	ITEM NO.	SPEC 1	NO.
A 1	4	11 50 ~~1100~~	A1- 1	25	Y		8		21	T1- 3	25	Y				22
A 2	4	17 25 ~~1500~~	A1- 2	25	Y		8		21	S3-2-C	25	Y		8		47
A 3	4	17 25 ~~1500~~	A1- 3	25	Y		8		21	S3-2-C	25	Y				47
A 4	2	19 50 ~~1850~~		3 50 ~~450~~		3 25 ~~425~~	6	7A			8 00 ~~750~~		7 75 ~~725~~	11	8A	
A 4B	4	600	E2	25	N				48	SHLD A4	25	Y				
A 4R			A1-12	25	Y		8		21	S11-4-NC	25	Y		8		27
A 4W			A1- 4	25	Y	200	8		21	S15-1-C ~~S11-11-NO~~	25	Y	200	8		29 ~~28~~
A 5	2	19 50 ~~1750~~		3 50 ~~250~~		3 25 ~~225~~	6	7A			750		725	11	8A	
A 5B	4	600	E2	25	N				48	SHLD A5	25	Y				
A 5R			A1-10	25	Y		8		21	S11-3-NC	25	Y		8		27
A 5W			A1- 8	25	Y		8		21	S11-9-NO	25	Y	100	8		28
A 6	2	16 50 ~~1400~~		3 50 ~~250~~		3 25 ~~225~~	6	7A			4 20 ~~350~~		3 75 ~~325~~	11	8A	
A 6B	4	600	E2	25	N				48	SHLD A6	25	Y				
A 6R			A1- 5	25	Y		8		21	S11-5-NC	25	Y		8		27
A 6W			A1- 9	25	Y		8		21	S11-5-NO	25	Y		8		27
A 7	2	16 50 ~~1400~~		3 50 ~~250~~		3 25 ~~225~~	6	7A			4 00 ~~350~~		3 75 ~~325~~	11	8A	
A 7B	4	600	E2	25	N				48	SHLD A7	25	Y				
A 7R			A1- 6	25	Y		8		21	S11-6-NC	25	Y		8		27

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR ~~N~~ N
SHEET 7 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ~~N~~ N 1014580

CONDUCTOR			FROM							TO							
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION			CUT WIRE OR SHIELD				TERMINATION			
NUMBER	ITEM NO.	2	STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	ITEM NO.	SPEC. 1	NO.	STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	ITEM NO.	SPEC 1	NO.	
A 7W			A1- 7	25	Y		8		21	S11-6-NO	25	Y		8		27	
A 8	2	21 00 ~~2050~~		250		225	11	8A			3 75 ~~300~~		3 50 ~~275~~	6	7A		8
A 8A	4	600	SHLD A8	25	Y					E3	25	N				51	
A 8R			P1- 80	10	N		14		1	T1- 1	25	Y		8		22	
A 8W			P1- 69	10	N		14		1	T1- 2	25	Y				22	
A 9	4	11 25 ~~1100~~	S3-2-NO	25	Y		8		47	T1- 1	25	Y				22	
A 10	4	11 25 ~~1100~~	S3-1-NC	25	Y		8		47	T1- 7	25	Y		8		22	
A 11	4	11 25 ~~1100~~	S3-1-NO	25	Y		8		47	T1- 5	25	Y		8		22	
A 12			DELETED														
A 13			DELETED														
A 14	4	9 50 ~~700~~	P1- 92	10	N		14		1	S16-7-C	25	Y				39	
A 15	4	9 50 ~~850~~	P1- 74	10	N		14		1	S16-8-NO	25	Y		8		39	
A 16	4	9 55 ~~850~~	P1- 90	10	N		14		1	S16-4-C	25	Y				39	
A 17	4	9 50 ~~750~~	P1-100	10	N		14		1	S16-3-C	25	Y				39	
A 18	4	9 50 ~~750~~	P1- 88	10	N		14		1	S16-1-NO	25	Y		8		39	
A 19	4	9 55 ~~750~~	P1- 87	10	N		14		1	S16-2-NO	25	Y		8		39	
A 20	4	9 50 ~~750~~	P1-101	10	N		14		1	S16-3-NO	25	Y		8		39	
A 21	4	9 50 ~~750~~	P1- 94	10	N		14		1	S16-4-NO	25	Y		8		39	

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR ~~X~~ N
SHEET 8 OF 20

MIL 2085 4-63 WIR

G H 50A1 ~~X~~ N 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2>	CIRCUIT POINT	STRIP WIRE OR JACKET 2>	T I N	CUT WIRE OR SHIELD 2>	ITEM NO.	TERMINATION SPEC. 1>	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2>	T I N	CUT WIRE OR SHIELD 2>	ITEM NO.	TERMINATION SPEC 1>	NO.	
A 22	4	1000 ~~900~~	S16-1-NO	25	Y				39	S16-6-C	25	Y		8		39	
A 23	4	950 ~~750~~	P1- 76	10	N		14		1	S16-5-NO	25	Y		8		39	
A 24	4	950 ~~850~~	P1- 75	10	N		14		1	S16-6-NO	25	Y		8		39	
A 25	4	950 ~~800~~	P1-105	10	N		14		1	S16-7-NO	25	Y		8		39	
A 26	1	2600 ~~2400~~		250		225	10	8A			350 ~~250~~		325 ~~225~~	12	7A		B
A 26A	4	600	SHLD A26	25	Y					E3	25	N				51	
A 26W			P1- 56	10	N		14		1	S11-8-NC	25	Y		8		28	
A 27	1	2600		250		225	10	8A			350 ~~250~~		325 225	12	7A		B
A 27A	4	600	SHLD A27	25	Y					E3	25	N				51	
A 27W			P1- 47	10	N		14		1	S11-11NC ~~S11-9-NC~~	25	Y		8		28	
A 28	1	2600		250		225	10	8A			350 ~~300~~		325 ~~275~~	12	7A		B
A 28A	4	600	SHLD A28	25	Y					E3	25	N				51	
A 28W			P1- 48	10	N		14		1	S11-10-NC	25	Y		8		28	
A 29	~~1~~	~~2300~~		~~250~~		~~225~~	~~10~~	~~8A~~			~~300~~		~~275~~	~~12~~	~~7A~~		~~B~~ DELETE
A 29A	~~4~~	~~600~~	~~SHLD A29~~	~~25~~	~~Y~~					~~E3~~	~~25~~	~~N~~				~~51~~	DELETE
A 29W			~~P1- 57~~	~~10~~	~~N~~		~~14~~		~~1~~	~~S11-11-NC~~	~~25~~	~~Y~~		~~8~~		~~28~~	DELETE
A 30	1	2200 ~~1900~~		250		225	10	8A			350 ~~225~~		325 ~~200~~	12	7A		A
A 30A	4	600	SHLD A30	25	Y					E4	25	N				52	

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
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MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR ~~X~~ N
SHEET 9 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ~~X~~ N 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2>	CIRCUIT POINT	STRIP WIRE OR JACKET 2>	T I N	CUT WIRE OR SHIELD 2>	ITEM NO	TERMINATION SPEC. 1>	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2>	T I N	CUT WIRE OR SHIELD 2>	ITEM NO.	TERMINATION SPEC 1>	NO.	
A 30W			P1- 49	10	N		14		1	S15-8-C	25	Y		8 ~~7~~		30	
A 31	1	2200 ~~1900~~		260		225	10	8A			350 ~~225~~		325 ~~200~~	12	7A		A
A 31A	4	600	SHLD A31	25	Y					E4	25	N				52	
A 31W			P1- 38	10	N		14		1	S15-8-NC	25	Y		8 ~~7~~		30	
A 32	4	1500 ~~1050~~	S15-8-C	25	Y				30	S11-5-NO	25	Y				27	
A 33	4	1500 ~~1050~~	S15-8-NC	25	Y				30	S11-6-NO	25	Y				27	
A 34	4	2300 ~~2050~~	P1- 72	10	N		14		1	S11-1-NC	25	Y		8		27	
A 35	3	2600 ~~2300~~		275 ~~400~~		250 ~~375~~	11	8B			800 ~~600~~		775 ~~575~~	7	7A		B
A 35A	4	600	SHLD A35	25	Y					E5	25	N				53	
A 35L			P1- 37	10	N		14		1	S11-12-NC	25	Y		8		28	
A 35R			P1- 25	10	N		14		1	S11-2-NC	25	Y		8		27	
A 35W			P1- 36	10	N		14		1	S11-12-C	25	Y		8 ~~7~~		28	
A 36	4	1200 ~~700~~	S11-12-C	25	Y				28	S11-2-C	25	Y		8		27	
A 37	4	2200 ~~2100~~	P1- 1	10	N		14		1	S15-7-NC	25	Y		8 ~~7~~		30	A
A 38	4	1350 ~~1100~~	S15-7-NC	25	Y				30	S11-1-C	25	Y		8 ~~7~~		27	
A 39	4	1000 ~~600~~	S11-1-C	25	Y				27	S14-2-C	25	Y		8		25	
A 41	1	2300 ~~2100~~		400		375	10	8B			400		375	12	7A		B
A 41A	4	600	SHLD A41	25	N					E5	25	N				53	

(r)

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR ~~X~~ N
SHEET 10 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ~~X~~ N 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2>	CIRCUIT POINT	STRIP WIRE OR JACKET 2>	T I N	CUT WIRE OR SHIELD 2>	ITEM NO.	TERMINATION SPEC. 1>	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2>	T I N	CUT WIRE OR SHIELD 2>	ITEM NO.	TERMINATION SPEC 1>	NO.	
A 41W			P1- 96	10	N		14		1	S4-1-NO ~~S11-5-C~~	25	Y		8 ~~7~~		26 ~~27~~	
A 42	4	650 ~~300~~	S11-5-C	25	Y				27	S11-6-C	25	Y		8 ~~7~~		27	
A 43	4	1200 ~~800~~	S11-6-C	25	Y				27	S4-3-NC ~~S4-1-NO~~	25	Y		8 ~~7~~		26	
A 44	4	1000 ~~400~~	S15-6-NC	25	Y		8		30	S15-2-NC	25	Y		8 ~~7~~		29	
A 45	4	1050 ~~700~~	S11-4-C	25	Y		8		27	S15-2-NC	25	Y				29	
A 46	4	1100 ~~800~~	S11-11-C	25	Y		8		28	S11-5-C ~~S15-1-C~~	25	Y		8 ~~7~~		27 ~~29~~	
A 47	4	1050 ~~700~~	S11-4-NO	25	Y		8		27	S11-10-C	25	Y		8		28	
A 48	4	1175 ~~850~~	S11-10-NO	25	Y		8		28	S15-1-NC	25	Y				29	
A 49	2	1825 ~~1800~~		350		325	11	8B			250		225	6	7A		A
A 49A	4	600	SHLD A49	25	Y					E4	25	N				52	
A 49R			P1- 35	10	N		14		1	S15-2-C	25	Y		8		29	
A 49W			P1- 34	10	N		14		1	S15-2-NO	25	Y				29	
A 50	4	900 ~~700~~	S11-3-C	25	Y		8		27	S15-4-NC	25	Y				29	
A 51	4	1100 ~~850~~	S11-9-C	25	Y		8		28	S15-3-C	25	Y		8		29	
A 52	4	1100 ~~700~~	S11-8-NO	25	Y		8		28	S15-3-NC	25	Y				29	
A 53	2	1825 ~~1700~~		350		325	11	8B			250		225	6	7A		A
A 53A	4	600	SHLD A53	25	Y					E4	25	N				52	
A 53R			P1- 19	10	N		14		1	S15-4-C	25	Y		8		29	

(r)

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR ~~X~~ N
SHEET 11 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ~~X~~ 1014580

CONDUCTOR			FROM							TO							
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2>	CIRCUIT POINT	STRIP WIRE OR JACKET 2>	T I N	CUT WIRE OR SHIELD 2>	ITEM NO.	TERMINATION SPEC. 1>	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2>	T I N	CUT WIRE OR SHIELD 2>	ITEM NO.	TERMINATION SPEC 1>	NO.	
A 53W			P1- 33	10	N		14		1	S15-4-NO	25	Y				29	
A 54	4	2150 ~~2100~~	P1- 99	10	N		14		1	S15-7-C	25	Y		8		30	A
A 55	3	1725 ~~1350~~		300		275	7	7A			650 ~~575~~		625 ~~550~~	11	8A		
A 55B	4	600	E2	25	N				48	SHLD A55	25	Y					
A 55L			S12-3-NO	25	Y		8		24	S15-5-C	25	Y		8		30	
A 55R			S12-2-NO	25	Y		8		24	S15-3-NO	25	Y	300			29	
A 55W			S12-1-NO	25	Y		8		24	S15-6-C	25	Y		8		30	
A 56	3	2400 ~~2200~~		300		275	11	8A			325 ~~250~~		300 ~~225~~	7	7A		B
A 56A	4	600	SHLD A56	25	Y					E5	25	N				53	
A 56W			P1- 10	10	N		14		1	S12-3-C	25	Y		8		24	
A 56L			P1- 24	10	N	50	14		1	S12-1-C	25	Y		8		24	
A 56R			P1- 23	10	N	25	14		1	S12-2-C	25	Y		8		24	
A 57	3	2450 ~~2200~~		250 ~~350~~		225 ~~325~~	11	8A			350 ~~250~~		325 ~~225~~	7	7A		B
A 57A	4	600	SHLD A57	25	Y					E5	25	N				53	
A 57L			P1- 22	10	N	100	14		1	S12-3-NC	25	Y		8		24	
A 57R			P1- 9	10	N	25	14		1	S12-2-NC	25	Y		8		24	
A 57W			P1- 8	10	N	50	14		1	S12-1-NC	25	Y		8		24	
A 58	4	1450	P1- 84	10	N		14		1	S17-2-NC	25	Y		8 ~~7~~		45	

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014580
SCALE - NONE
REV LTR ~~W~~ ~~X~~ N
SHEET 12 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ✗ N 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT 2	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 59	4	1450	P1- 54	10	N		14		1	S17-1-NC	25	Y		8		45	
A 60	4	~~1500~~ 1900	S17-2-NC	25	Y				45	S12-4-NO	25	Y		8		24	
A 61	4	~~1550~~ 1900	S17-1-NC	25	Y				45	S12-4-NC	25	Y		8		24	
A 62	4	850	S12-4-C	25	Y		8		24	XDS12-HI	25	Y		8		23	
A 63	4	3000	S12-4-NC	25	Y				24	M1 LAMP-HI	25	Y		8		7	
A 64	4	~~2500~~ 2550	XDS 4-LO	25	Y		8		20	XDS 3-LO	25	Y		8		5	
A 65	4	~~2500~~ 2550	XDS 4-HI	25	Y		8		20	XDS 3-HI	25	Y				5	
A 66	4	2200	P1- 52	10	N		14		1	XDS12-LO	25	Y		8		23	A
A 67	4	~~1300~~ 1200	P1- 61	10	N		14		1	S1-2-NC	25	Y				44	
A 68	4	~~2400~~ 2000	P1- 62	10	N		14		1	S2-1-C	25	Y		8		19	A
A 69	4	~~1400~~ ~~700~~ 1500	S1-1-C	25	Y				44	S13-3-NC ~~S17-1-C~~	25	Y				31 ~~45~~	
A 70	4	~~600~~ 750	S17-2-C	25	Y				45	S24-1-NO	25	Y		8		46	
~~A 71~~	~~4~~	~~700~~	~~S24-1-NO~~	~~25~~	~~Y~~				~~46~~	~~S18-1-NC~~	~~25~~	~~Y~~		~~8~~		~~31~~	
A 72	4	~~1400~~ 1450	S24-1-NO	25	Y				46	S2-1-C	25	Y				19	
A 73	4	~~900~~ 1125	XDS12-LO	25	Y				23	XDS 4-LO	25	Y				20	
A 74	4	~~600~~ 750	S2-1-NC	25	Y		8		19	XDS 4-HI	25	Y				20	
A 75	4	~~1600~~ 1350	P1- 32	10	N		14		1	S25-1-NO	25	Y		8		46	
A 76	4	~~450~~ 2000	S25-1-NO	25	Y				46	R1-CW	25	Y		8		49	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

(r)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR ✗ N | SHEET 13 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ✱ F 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT 2	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 77	4	1500	P1- 44	10	N		14		1	R1-CCW	25	Y				50	B
A 78	4	1400	P1- 26	10	N		14		1	S25-1-C	25	Y		8		46	
A 79	4	1400	P1- 63	10	N		14		1	S24-1-C	25	Y		8		46	
A 80	4	1400	P1- 64	10	N		14		1	S24-1-C	25	Y				46	
A 81	2	1800		250		225	11	8A			250		225	6	7A		
A 81A	4	600	SHLD A81	25	Y					E5	25	N				53	
A 81R			P1- 12	10	N		14		1	M1-LO	25	Y				7	
A 81W			P1- 11	10	N		14		1	M1-HI	25	Y				7	
A 82	4	500	P1- 13	10	N		14		1	R2-WIPER	25	Y		8		4	
A 83	4	1000	P1- 27	10	N		14		1	A2-E1	25	Y		8		37	
A 84	4	750	P1- 39	10	N		14		1	S22-1-C	25	Y				43	
A 85	4	1100	R2-LO	25	Y		8		4	A2-E9	25	Y		8		36	
A 86	4	1200	R2-HI	25	Y		8		4	A2-E2	25	Y		8		38	
A 87	4	1250	P1- 41	10	N		14		1	~~S10-1-1~~	25	Y		8		6	
A 88	4	1250	P1- 50	10	N		14		1	S10-1-3	25	Y				6	
~~A 89~~	~~4~~	~~1200~~	~~P1- 14~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-4-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 90~~	~~4~~	~~1500~~	~~P1- 15~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-3-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	
~~A 91~~	~~4~~	~~1500~~	~~P1- 43~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-NO~~	~~25~~	~~Y~~		~~8~~		~~44~~	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

(r)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR ✗ N | SHEET 14 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ✱ N 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT 2	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
~~A 92~~	~~4~~	~~1500~~	~~P1- 69~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-NC~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 93	4	~~1500~~ 1250	P1- 73	10	N		14		1	S1-1-NC	25	Y		8		44	
~~A 94~~	~~4~~	~~1500~~	~~P1- 28~~	~~12~~	~~N~~		~~14~~		~~1~~	~~S1-2-C~~	~~25~~	~~Y~~		~~8~~		~~44~~	
A 95	4	~~1500~~ 1250	P1- 29	10	N		14		1	S1-2-C	25	Y		8		44	
A 96	4	~~2800~~ 2550	P1- 71	10	N		14		1	S4-3-NC	25	Y		8		26	B
A 97	4	~~2500~~ 2750	P1- 60	10	N		14		1	S4-2-NO	25	Y		8		26	B
A 98	4	~~2300~~ 2550	P1- 70	10	N		14		1	S4-2-C	25	Y		8		26	B
A 99	4	~~2450~~ 2600	P1- 2	10	N		14		1	S4-3-NO	25	Y		8		26	B
A 100	4	~~2400~~ 2600	P1- 21	10	N		14		1	S4-3-C	25	Y		8		26	B
A 101	1	~~2400~~ 2650		400		375	10	8B			~~200~~ 350		~~175~~ 325	12	7A		B
A 101A	4	600	SHLD A101	25	Y					E5	25	N				53	
A 101W			P1- 82	10	N		14		1	S4-1-C	25	Y		8		26	
A 102	4	~~2350~~ 2600	P1- 58	10	N		14		1	S14-1-NC	25	Y		8		25	
A 103	4	~~2350~~ 2600	P1- 59	10	N		14		1	S14-1-NO	25	Y		8		25	
A 104	3	1350		250		225	11	8A			250		225	7	7A		
A 104A	4	600	SHLD A104	25	Y					E6	25	N				54	
A 104L			P1- 42	10	N		14		1	S13-1-C	25	Y		8		8	
A 104R			P1- 31	10	N		14		1	S13-1-NO	25	Y		8		8	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

(m)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR ✱ N | SHEET 15 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 ✱ N 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT 2	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	
A 104W			P1- 30	10	N		14		1	S13-1-NC	25	Y		8		8	
A 105	2	~~1700~~ 1800		350		325	11	8B			~~350~~ 250		~~325~~ 225	6	7A		A
A 105A	4	600	SHLD A105	25	Y					E6	25	N				54	
A 105R			P1- 55	10	N		14		1	S18-2-NO	25	Y		8		31	
A 105W			P1- 46	10	N		14		1	S18-2-NC	25	Y		8		31	
A 106	1	~~1700~~ 1800		350		325	10	8B			~~350~~ 250		~~325~~ 225	12	7A		
A 106A	4	600	SHLD A106	25	Y					E6	25	N				54	
A 106W			P1- 53	10	N		14		1	S18-1-NC	25	Y				31	
A 107	~~4~~	~~900~~	~~S18-3-NC~~	~~25~~	~~Y~~		~~8~~		~~31~~	~~S21-3-NC~~	~~25~~	~~Y~~				~~33~~	
A 108	4	~~2100~~ ~~1500~~ 1800	P1- 51	10	N		14		1	S18-2-NC ~~S20-2-NC~~	25	Y				31 ~~32~~	
A 109	4	~~900~~ 1200	S18-3-C	25	Y		8		31	S21-1-C	25	Y				33	
A 110	4	~~1100~~ 1200	P1- 66	10	N		14		1	S9-2-C	25	Y				34	
A 111	2	~~1100~~ 1200		250		225	11	6A			~~250~~ 350		~~225~~ 325	6	7A		
A 111A	4	600	SHLD A111	25	Y					E6	25	N				54	
A 111R			P1- 95	10	N		14		1	S9-1-C	25	Y				34	
A 111W			P1- 81	10	N		14		1	S9-1-NO	25	Y				34	
A 112	4	1250	P1- 65	10	N		14		1	S9-2-NO	25	Y		8		34	
A 113	4	1550	P1- 77	10	N		14		1	S9-7-NO	25	Y		8		35	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

(r)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR ✱ N | SHEET 16 OF 20

MIL 2085 - 4-63 WIR

G H 50A1 * N 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	T I N	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	T I N	TERMINATION SPEC 1 ITEM NO.	NO.
A 114	4	1350 ~~1500~~	P1- 67	10	N	14	1	S9-8-C	25	Y		35
A 115	4	1550 ~~1500~~	P1- 78	10	N	14	1	S20-2-C	25	Y	8	32
A 116	4	1700	P1- 79	10	N	14	1	S21-3-C	25	Y	8	33
A 117	1	1750 ~~1500~~		250	225	10	8A		450 ~~225~~	425 ~~200~~	12	7A
A 117A	4	600	SHLD A117	25	Y			E6	25	N		54
A 117B			P1- 68	10	N	14	1	S20-4-C	25	Y		32
A 118	4	1700	P1- 93	10	N	14	1	S21-3-NO	25	Y	8	33
A 119	4	1600 ~~1500~~	P1-106	10	N	14	1	S20-2-NO	25	Y	8	32
A 120	4	850 ~~800~~	P1- 85	10	N	14	1	S7-2-C	25	Y	8	40
A 121	4	850	P1- 86	10	N	14	1	S23-1-NO	25	Y	8	41
A 122	4	850 ~~800~~	P1- 89	10	N	14	1	S7-2-NC	25	Y	8	40
A 123	4	800 ~~700~~	P1- 97	10	N	14	1	S8-1-NO	25	Y	8	42
A 124	4	850 ~~800~~	P1- 98	10	N	14	1	S7-1-C	25	Y	8	40
A 125	4	850 ~~800~~	P1-102	10	N	14	1	S23-1-NC	25	Y	8	41
A 126	4	750 ~~700~~	P1-103	10	N	14	1	S8-1-NC	25	Y	8	42
A 127	4	875 ~~850~~	P1-104	10	N	14	1	S7-1-NC	25	Y	8	40
A 128	4	800 ~~700~~	S 1-NO	25	Y	8	40	S8-1-C	25	Y	8	42
A 129	4	875 ~~800~~	S7-2-NO	25	Y	8	40	S23-1-C	25	Y	8	41

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR * N | SHEET 17 OF 20

MIL 2088 - 4-63 WIR

G H 50A1 * N 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	T I N	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	T I N	TERMINATION SPEC 1 ITEM NO.	NO.
A 130	4	1050	P1- 16	10	N	14	1	S19-5-C	25	Y	8 ~~8~~	12
A 131	4	1200	P1- 17	10	N	14	1	S19-6-NO	25	Y	8	15
A 132	4	1050	P1- 3	10	N	14	1	S19-5-NO	25	Y	8	12
A 133	4	1500 ~~1300~~	S19-5-C	25	Y		12	S19-6-C	25	Y	8	16
A 134	4	1150 ~~900~~	P1- 7	10	N	14	1	S19-4-C	25	Y	8 ~~8~~	11
A 135	4	1150 ~~900~~	P1- 6	10	N	14	1	S19-4-NO	25	Y	8	11
A 136	4	1350 ~~1200~~	P1- 20	10	N	14	1	S19-3-NO	25	Y	8	17
A 137	4	1550 ~~1300~~	S19-4-C	25	Y		11	S19-3-C	25	Y	8	18
A 138	4	1200	P1- 5	10	N	14	1	S19-2-NO	25	Y	8	9
A 139	4	1100 ~~1000~~	P1- 4	10	N	14	1	S19-1-NO	25	Y	8	14
A 140	4	1100 ~~1000~~	P1- 18	10	N	14	1	S19-1-C	25	Y	8 ~~8~~	14A
A 141	4	1050 ~~1300~~	S19-1-C	25	Y		13	S19-2-C	25	Y	8	10
A 142	5	550 ~~800~~	P1- 91	10	N	14	1	E1	25	N	18	3
A 143	5	900 ~~1000~~	P1- 83	10	N	14	1	E7	25	N	13	2
A 144	5	900 ~~300~~	E6	25	N	13	54	E7	25	N		2
A 145	5	500 ~~300~~	E5	25	N	13	53	E7	25	N		2
A 146	5	900 ~~300~~	E4	25	N	13	52	E7	25	N		2
A 147	5	500 ~~300~~	E3	25	N	13	51	E7	25	N		2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR * N | SHEET 18 OF 20

G H 50A1 * P 1014580

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	T I N	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	T I N	TERMINATION SPEC 1 ITEM NO.	NO.
A 148	5	1055 ~~1000~~	E2	25	N	13	48	E7	25	N		2
A 149	4	1150 ~~1250~~	P1- 40	10	N	14	1	S10-5 ~~[illegible]~~	25	Y	8	6
A 150	4	1200	XDS3-LO	25	Y		5	M1 LAMP-LO	25	Y	8	7
A 151	4	1100 ~~1000~~	S17-1-C	25	Y		45	S1-2-NC	25	Y		44
A 152	4	1150 ~~1200~~	S11-3-NO	25	Y	8	27	S11-8-C	25	Y	8	28
A 153	4	1150 ~~1000~~	S20-1-C	25	Y		32	S9-4-NO	25	Y	8 ~~8~~	34
A 154	4	1350 ~~1200~~	S9-8-NO	25	Y		35	S20-2-NC	25	Y	8 ~~8~~	32
A 155	4	1250 ~~1200~~	S9-5-C	25	Y		35	S20-4-NC	25	Y	8 ~~8~~	32
A 156	4	1100 ~~1000~~	S9-4-C	25	Y		34	S20-1-NC	25	Y	8 ~~8~~	32
A 157	4	1450 ~~1200~~	S9-5-NO	25	Y		35	S20-3-C	25	Y	8 ~~8~~	32
A158	4	1250	P1-14	10	N	14	1	S1-3-NC	25	Y	8	44
A159	4	1250	P1-15	10	N	14	1	S1-3-C	25	Y	8	44

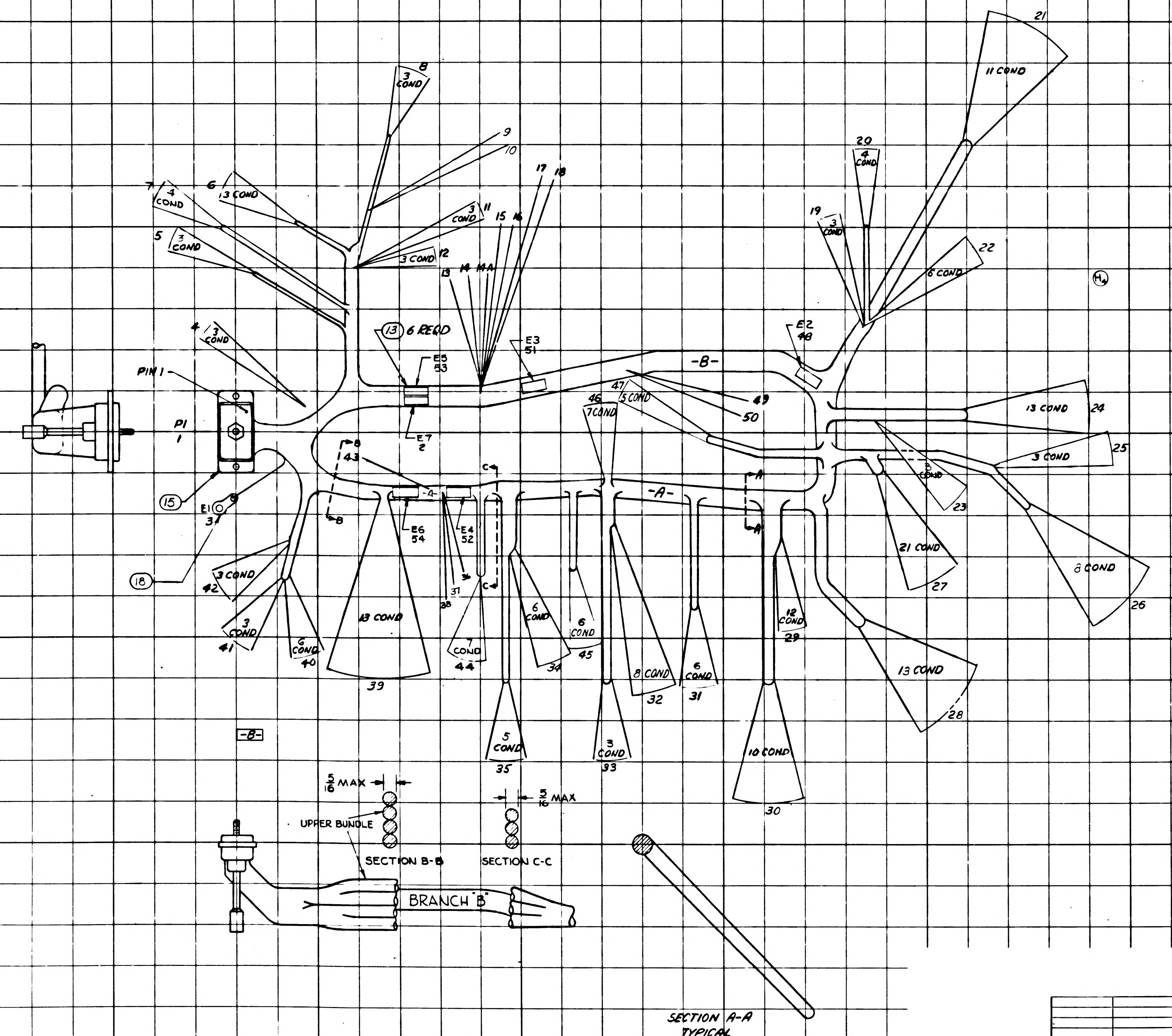
1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014580

SCALE - NONE | REV LTR * P | SHEET 19 of 20

		[illegible] 02420	
	D	TDRR 02524	
	E	TDRR 5249 (23 [illegible])	
	F	TDRR 5252 (23 [illegible])	
	H6	REVISED PER TDRR NO. 06369	25 FEB 64



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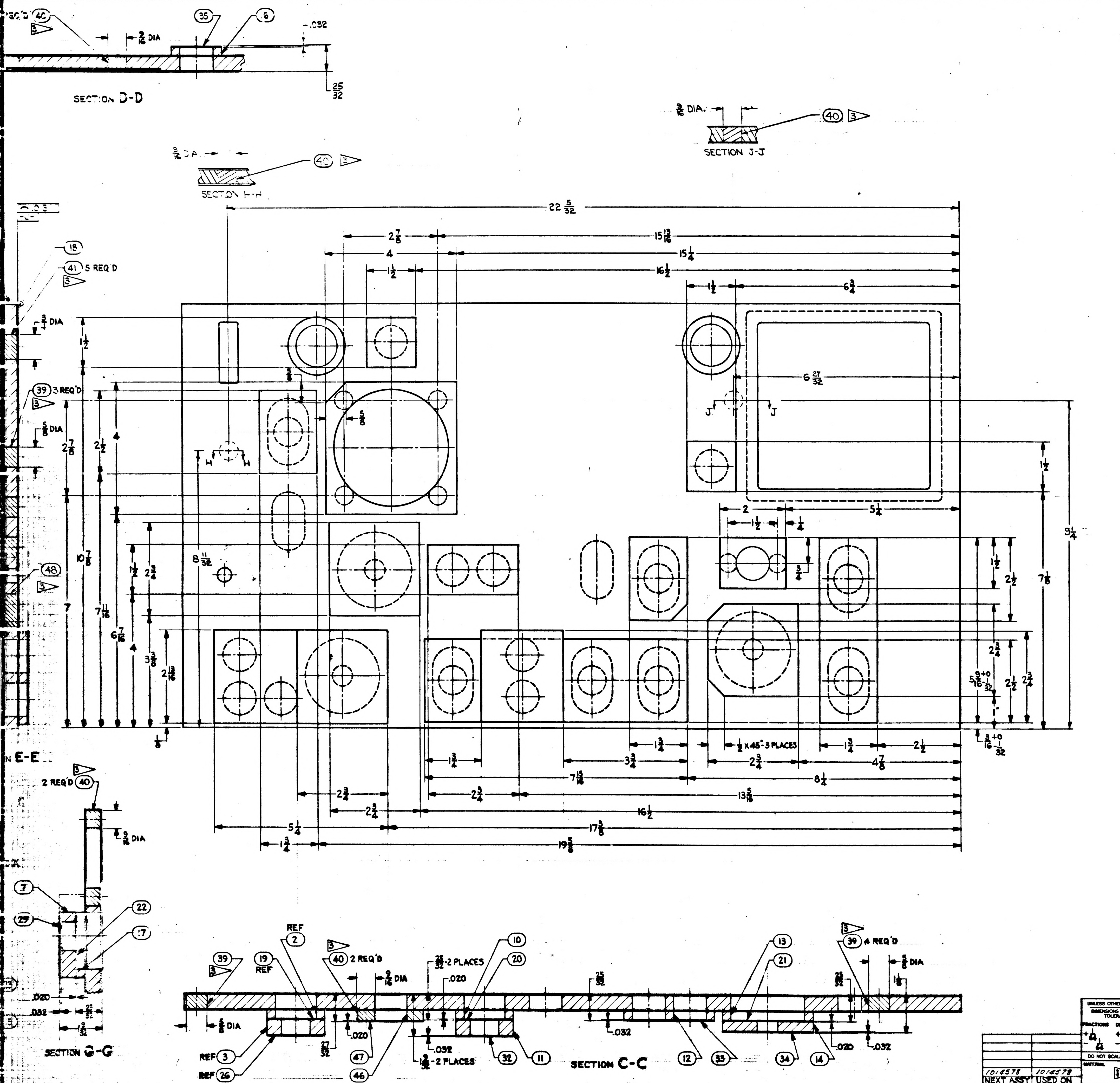
SECTION C-C
BRANCH "B"
SECTION A-A TYPICAL

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS + − DECIMALS + − ANGLES + − DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
	ACSP PN		
	DRAWN [illegible] DATE 15 JULY 63 CHECKED PIOJDA 18 JUN 63 APPROVAL E J MORAN 18 JUN APPROVAL A KODEL 20 JUN 63	WIRING HARNESS A G&N INDICATOR CONTROL PANEL	
MATERIAL	NASA APPROVAL 8/7/63	CODE IDENT NO	SIZE E
		1014580	
NEXT ASSY / USED ON APPLICATION	CONTRACT NAS-9-497	MIT APPROVAL [illegible]	SCALE 1/1 / SHEET [illegible]

1014580



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SECTION D-D
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SECTION J-J
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(40) 3
SECTION H-H
22 $\frac{5}{32}$
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15 $\frac{1}{4}$
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16 $\frac{1}{2}$
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2 $\frac{1}{2}$
2 $\frac{3}{4}$
$\frac{3}{16}$ +0 −$\frac{1}{32}$
1 $\frac{3}{4}$
$\frac{1}{2}$ x 45° 3 PLACES
1 $\frac{3}{4}$
2 $\frac{1}{2}$
1 $\frac{3}{4}$
3 $\frac{3}{4}$
2 $\frac{3}{4}$
4 $\frac{7}{8}$
7 $\frac{15}{16}$
8 $\frac{1}{4}$
2 $\frac{3}{4}$
2 $\frac{3}{4}$
2 $\frac{3}{4}$
13 $\frac{5}{16}$
16 $\frac{1}{2}$
5 $\frac{1}{4}$
17 $\frac{3}{8}$
1 $\frac{3}{4}$
19 $\frac{5}{8}$
E-E
3
2 REQ'D (40)
$\frac{5}{16}$ DIA
(7)
(29)
(22)
(17)
.020
.032
$\frac{25}{32}$
$\frac{3}{32}$
SECTION G-G
REF (2)
(19) REF
(39)
3
3 (40) 2 REQ'D
$\frac{5}{16}$ DIA
$\frac{25}{32}$-2 PLACES
.020
(10)
(20)
$\frac{25}{32}$
(13)
(21)
3 (39) 4 REQ'D
$\frac{5}{16}$ DIA
$1\frac{1}{8}$
$\frac{25}{32}$
$\frac{5}{16}$ DIA
.020
$\frac{27}{32}$
.032
$1\frac{3}{32}$-2 PLACES
.032
.020
.032
REF (3)
REF (26)
(47)
(46)
(32)
(11)
SECTION C-C
(12)
(35)
(34)
(14)

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		REVISIONS TDRR 01629			
B		UPGRADED PO. CLASS A RELEASE		6-11 63	E.L.
C	D-12	ⓒ1 1" DIA. HOLE WAS 1" SQUARE HOLE.		AUG 63	
	G-16	ⓒ2 ADDED NOTE 6			
	D-15 D-11	ⓒ3 RELOCATED UP & DOWN MARKING IN MAP & DATA VIEWER GROUP.			
	E-12	ⓒ4 ADDED SECTION K-K AND RELOCATED INSERTCORES			
	H-7	ⓒ5 MODIFIED SECTION D-D			
	E-3	ⓒ6 RELOCATED AI MARKING			
	E-4	ⓒ7 RELOCATED TI MARKING & RELATED MACHINED HOLES			
	E-4	ⓒ8 RELOCATED S12, DS12 & XDS12 MARKING			
	D-16	ⓒ9 IN 3 DELETED 'COVER WITH CLEAR LACQUER FROM CHARACTERS ON REAR OF PANEL.			
	E-2	ⓒ10 CHANGED ITEM 44 FROM 24 TO 22			
	E-2	ⓒ11 CHANGED ITEM 45 FROM 8 TO 11			
		TDRR #02782		8/28/63	

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
48	1	1014581-048	INSERT-CORE, PANEL
47	1	↑ -047	FACE-PAD
46	1	1014581-046	CORE-HONEYCOMB, PAD
45	11	1000115-3	↑
44	22	1000115-2	INSERT-THREADED, SELF-LOCKING
43	4	↑ -043	INSERT-CORE, PAD
42	1	-042	↑
41	11	-041	
40	13	-040	
39	13	-039	
38	1	-038	INSERT-CORE, PANEL
37	1	-037	RING
36	1	-036	↑
35	2	-035	
34	1	-034	
33	1	-033	
32	1	-032	
31	1	-031	
30	1	-030	
29	2	-029	
28	1	-028	
27	1	-027	
26	1	-026	
25	2	-025	
24	1	-024	
23	1	-023	
22	1	-022	
21	1	-021	
20	1	-020	
19	1	-019	FACE-PAD
18	2	-018	FACE-PANEL
17	1	-017	↑
16	2	-016	
15	1	-015	
14	1	-014	
13	1	-013	
12	1	-012	
11	1	-011	
10	1	-010	
9	1	-009	
8	1	-008	
7	2	-007	
6	1	-006	
5	1	-005	
4	1	-004	
3	1	-003	
2	1	-002	CORE-HONEYCOMB, PAD
1	1	1014581-001	CORE-HONEYCOMB, PANEL

LIST OF PARTS AND MATERIALS

1014578	1014578
NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$+\frac{1}{64}$ $-\frac{1}{64}$	+.005 −.005	+ 2° − 2°

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN C. LENZ DATE 3 MAY 63
CHECKED 13 MAY 63
APPROVAL Eric Scholl 13 MAY 63
APPROVAL 13 MAY 63
NASA APPROVAL 6-5-63
MIT APPROVAL 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

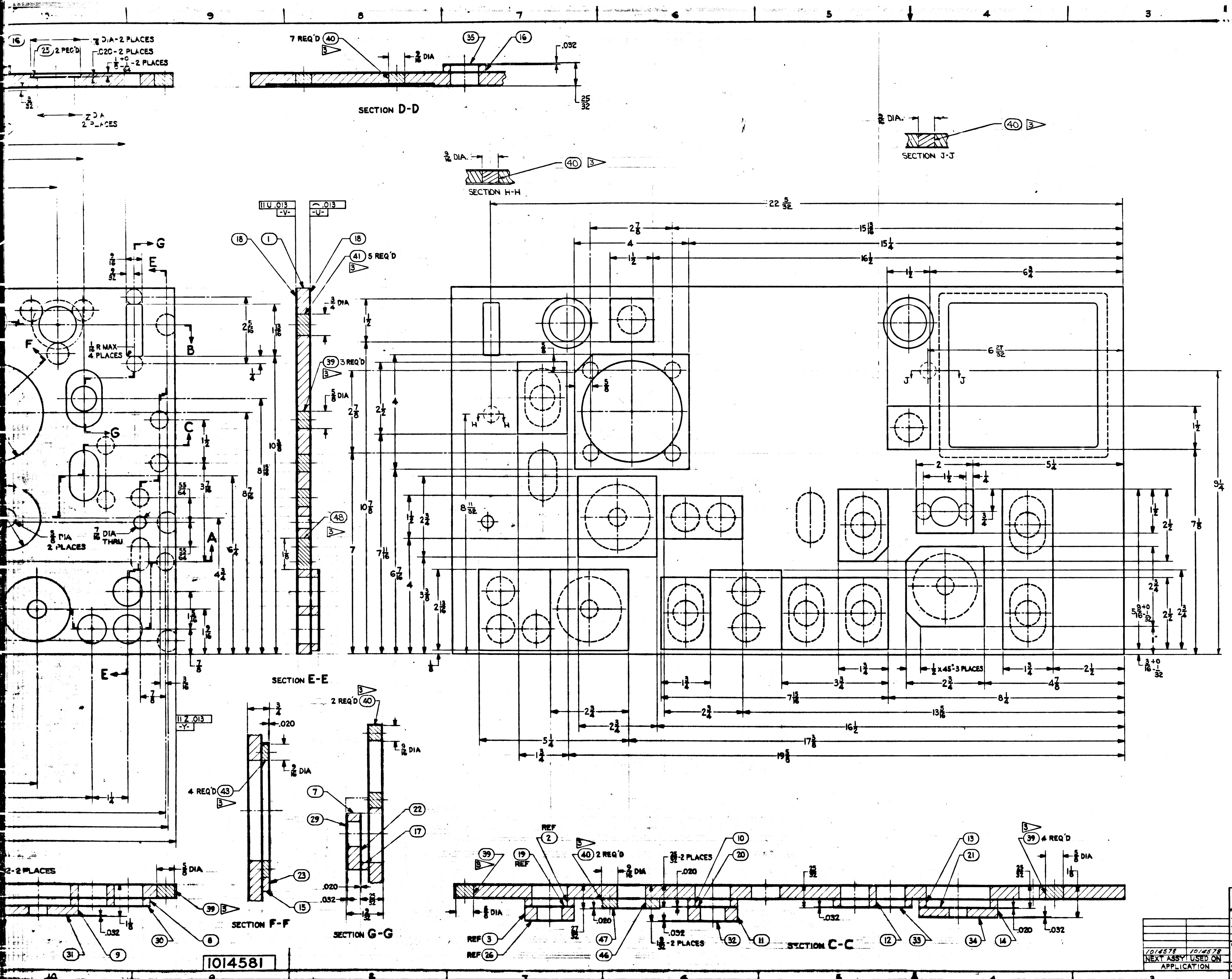
CODE IDENT NO. SIZE J 1014581

SCALE 1:1 SHEET 1 OF 2

Charleston 13 MAY 63

1014581 C

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY



SECTION D-D
7 REQ'D (40)
(35)
(16)
(25) 2 REQ'D
.020-2 PLACES
DIA-2 PLACES
2 PLACES
.032
$\frac{25}{32}$
$\frac{3}{16}$ DIA
SECTION H-H
SECTION J-J
(40)
$\frac{9}{16}$ DIA.
$22\frac{5}{32}$
$15\frac{13}{16}$
$15\frac{1}{4}$
$16\frac{1}{2}$
$6\frac{3}{4}$
$6\frac{27}{32}$
$9\frac{1}{4}$
$7\frac{5}{8}$
$8\frac{11}{32}$
(18)
(1)
(41) 5 REQ'D
(39) 3 REQ'D
(48)
$\frac{3}{4}$ DIA
$\frac{5}{8}$ DIA
$\frac{1}{16}$ R MAX 4 PLACES
$\frac{5}{8}$ DIA 2 PLACES
$\frac{7}{16}$ DIA THRU
SECTION E-E
E
G
B
C
A
F
$\frac{1}{2}$ x 45° 3 PLACES
$19\frac{5}{8}$
$17\frac{3}{8}$
$13\frac{5}{16}$
$8\frac{1}{4}$
2 REQ'D (40)
4 REQ'D (43)
.020
$\frac{9}{16}$ DIA
$\frac{1}{2}$ DIA
(7)
(29)
(22)
(17)
(23)
(15)
(39)
SECTION F-F
SECTION G-G
.032
(31)
(9)
(30)
(8)
(39)
(19) REF
REF (2)
(40) 2 REQ'D
$\frac{9}{16}$ DIA
$\frac{25}{32}$-2 PLACES
(10)
(20)
(13)
(21)
(39) 4 REQ'D
$\frac{5}{8}$ DIA
REF (3)
REF (26)
(47)
(46)
$1\frac{3}{32}$-2 PLACES
(32)
(11)
SECTION C-C
(12)
(33)
(34)
(14)
.020
.032
1014581

REVISIONS

SYM	ZONE	DESCRIPTION
B		UPGRADED FOR CLASS A RELEASE
		1" DIA. HOLE WAS 1" SQUARE HOLE.
		ADDED NOTE 6
		[illegible] MAP & DATA [illegible] GROUP
	E-2	[illegible]
	E-2	[illegible]

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
48	1	1014581-048	INSERT-CORE
47	1	↑ -047	FACE-PAD
46	1	1014581-046	CORE-HONEYCO
45	11	1000115-3	↑ ↑
44	22	1000115-2	INSERT-THREAD
43	4	↑ -043	INSERT-CORE,
42	1	-042	↑ ↑
41	11	-041	
40	13	-040	
39	13	-039	
38	1	-038	INSERT-CORE,
37	1	-037	RING
36	1	-036	↑ ↑
35	2	-035	
34	1	-034	
33	1	-033	
32	1	-032	
31	1	-031	
30	1	-030	
29	2	-029	
28	1	-028	
27	1	-027	
26	1	-026	
25	2	-025	
24	1	-024	
23	1	-023	
22	1	-022	
21	1	-021	
20	1	-020	
19	1	-019	FACE-PAD
18	2	-018	FACE-PANEL
17	1	-017	↑ ↑
16	2	-016	
15	1	-015	
14	1	-014	
13	1	-013	
12	1	-012	
11	1	-011	
10	1	-010	
9	1	-009	
8	1	-008	
7	2	-007	
6	1	-006	
5	1	-005	
4	1	-004	
3	1	-003	
2	1	-002	CORE-HONEYC
	1	1014581-001	CORE-HONEYC

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014578	1014578

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$+\frac{1}{64}$	+.005	+2°
$-\frac{1}{64}$	-.005	-2°

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN ENZ DATE 3 MAY 63
CHECKED 3 MAY 63
APPROVAL 13 MAY 63
APPROVAL Riedel 13 MAY 63
NASA APPROVAL 6-7-63
MIT APPROVAL 63

MAN
SPACECRA
HOUSTO

PA
GEN INDICAT
(INSEPA

CODE IDENT NO.
SIZE J
101

SCALE 1:1

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327.

1 MATERIAL:
ITEMS 1 THRU 17 AND ITEM 46:
HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.
ITEMS 18 THRU 25 AND ITEM 47:
.020 THK AL ALY PER QQ-A-355, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
ITEMS 26 THRU 35:
.032 THK AL ALY PER QQ-A-355, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
ITEM 36:
.100 THK AL ALY PER QQ-A-355, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
ITEM 37:
AL ALY PER QQ-A-355, TEMPER T-3 (TYPE 2024-T3) (ES-2104).
ITEMS 38 THRU 43 AND 48
AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4)(ES-2104).

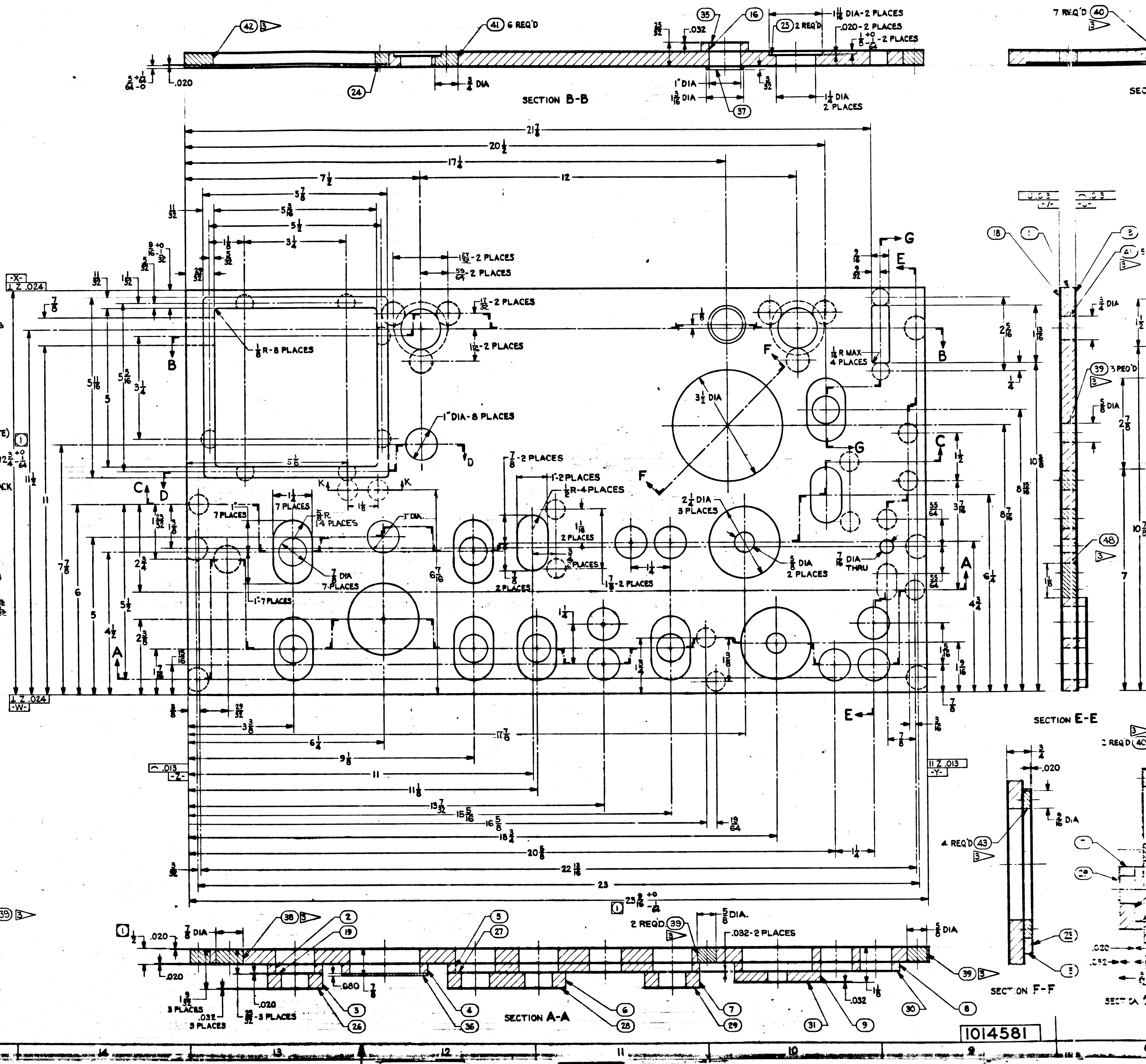
ADHESIVE:
ADHESIVE FOR METALLIC CONSTRUCTION IS TO BE PER MIL-A-25463(ASG), TYPE II, CLASS 2.

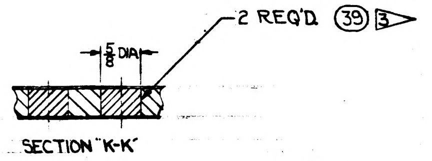
UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 125/.
ALL EDGES ON SURFACE V MUST BE .030 TO .040 RADIUS
MUST BE FREE FROM BURRS.

FINISH:
CHEMICAL FILM PER MIL-C-5541(ES-591).
APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).
APPLY TT-E-527(ES-2602) LUSTERLESS ENAMEL (GREY), COLOR NO. 36231 OF FED-STD-595, TO FRONT AND SIDES OF PANEL, PER ND1002110.
CHARACTERS, BORDER LINES, POSITION MARKS AND ARROWS ON FRONT OF PANEL TO BE SILK SCREENED PER ND1002112 USING ND1002111 LUSTERLESS (WHITE) ENAMEL, COLOR NO. 37875 OF FED-STD-595. UNLESS OTHERWISE SPECIFIED CHARACTERS TO BE 1/8 HIGH FUTURA DEMIBOLD PER ND 1002122. CENTRALIZE AS SHOWN. BORDER LINES, POSITION MARKS AND ARROWS TO BE 1/32 WIDE.
2 IDENTIFY USING DWG. NO., REVISION LETTER AND IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER MIL-STD-130 (ES-267). COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.
CHARACTERS ON REAR OF PANEL, EXCEPT DWG. NO., REV. LTR. AND MFR'S SYMBOL, TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND1002019.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND1002177.

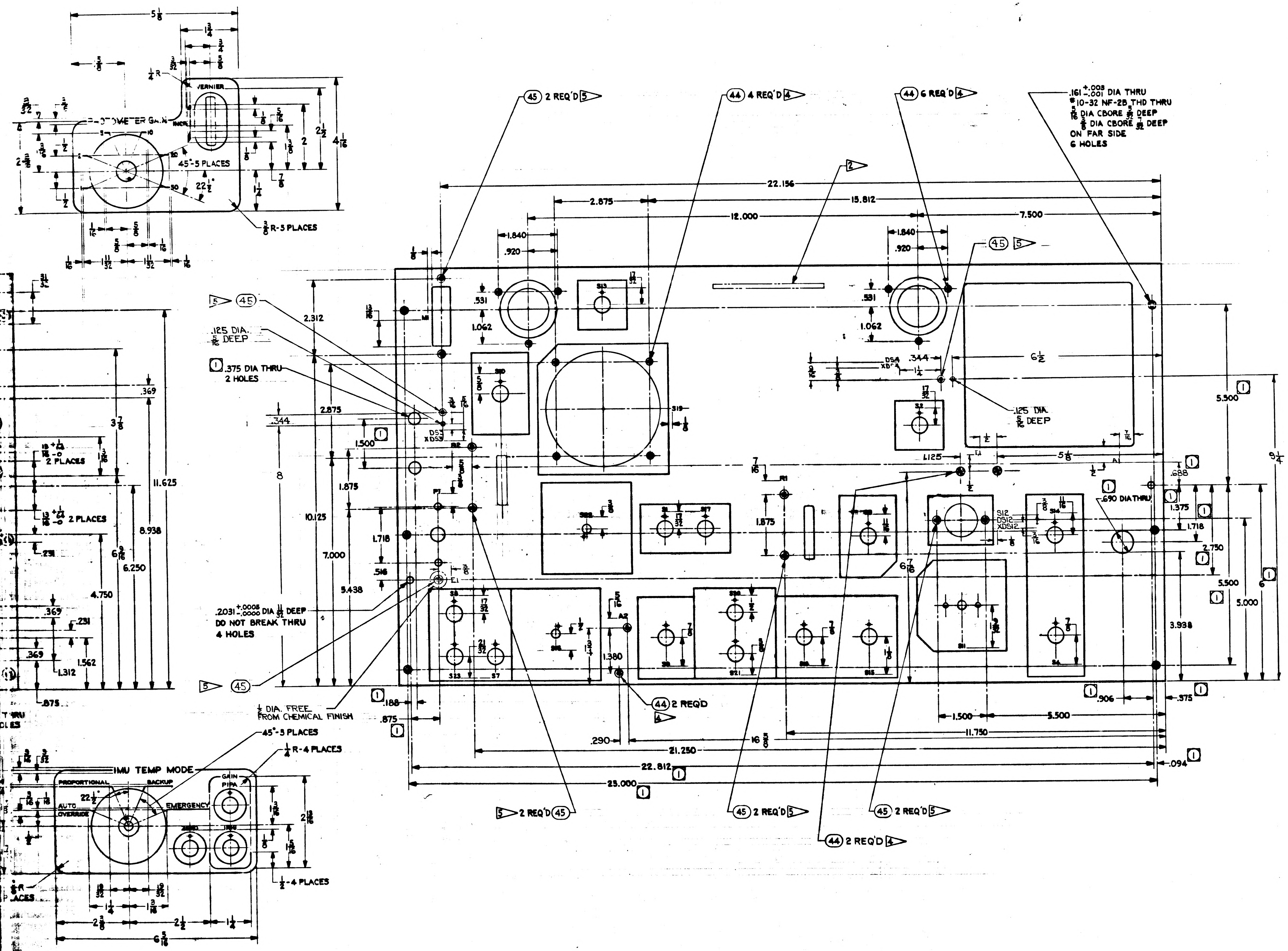
3 TOLERANCE FOR LOCATION OF ITEMS 38 THRU 43 AND 48 IS $^{+\frac{1}{32}}_{-\frac{1}{32}}$. HOLE LOCATIONS SHALL BE AS SPECIFIED.


SECTION B-B
SECTION A-A
SECTION E-E
SECTION F-F
41 6 REQ'D
25 2 REQ'D
1 1/8 DIA-2 PLACES
.020-2 PLACES
7 REQ'D 40
1/8 R-8 PLACES
1" DIA-8 PLACES
3 1/2 DIA
2 1/4 DIA 3 PLACES
5/8 DIA 2 PLACES
7/8 DIA 7 PLACES
1/16 R MAX 4 PLACES
39 3 REQ'D
4 REQ'D 43
2 REQ'D 39
.032-2 PLACES
21 7/8
20 1/2
17 1/4
23
-X-
⊥ Z .024
-W-
-Z-
-Y-
1014581


5/8 DIA
2 REQ'D 39 3
SECTION "K-K"

1014581

REVISIONS				
SYM	ZONE	DESCRIPTION	DATE	APPD
		SEE SHEET 1 FOR REVISIONS. CHG NO.		



VERNIER
INCR
45°-5 PLACES
22½°
⅜ R-5 PLACES
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN
PIPA
45°-3 PLACES
¼ R-4 PLACES
½-4 PLACES
(45) 2 REQ'D 5
(44) 4 REQ'D 4
(44) 6 REQ'D 4
.161 +.003 -.001 DIA THRU
#10-32 NF-2B THD THRU
5/16 DIA CBORE 5/32 DEEP
⅜ DIA CBORE 7/32 DEEP
ON FAR SIDE
6 HOLES
.125 DIA. 5/16 DEEP
1 .375 DIA THRU 2 HOLES
.2031 +.0005 -.0000 DIA 11/32 DEEP
DO NOT BREAK THRU
4 HOLES
½ DIA. FREE FROM CHEMICAL FINISH
.690 DIA THRU
(44) 2 REQ'D
(45) 2 REQ'D 5
(44) 2 REQ'D 4
22.156
15.812
12.000
7.500
2.875
22.812
23.000
21.250
11.750
1.500
5.500
5.000
11.625
8.938
10.125
7.000
6.250
4.750

1014581

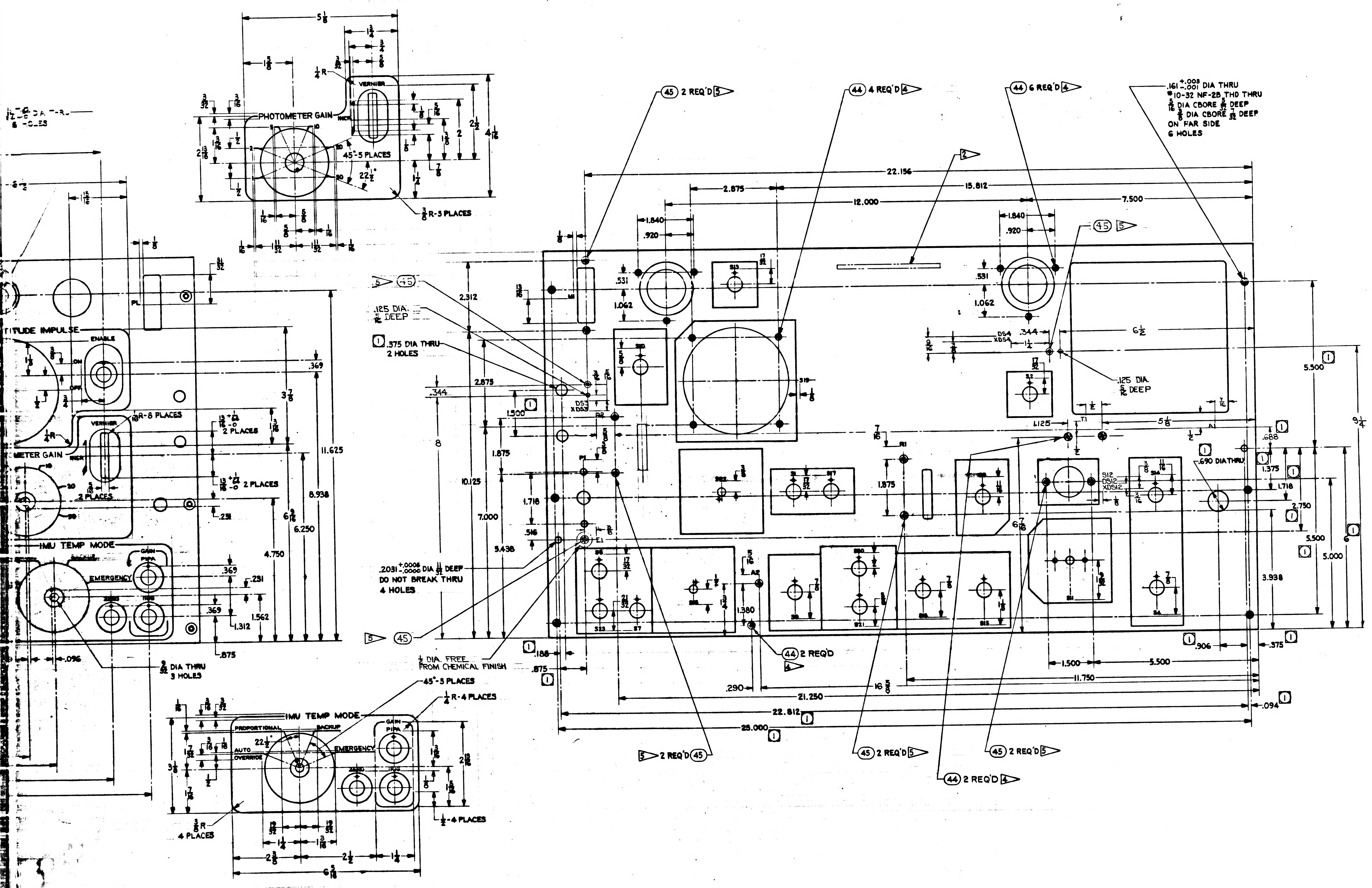
AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
ACSP PN	PANEL G & N INDICATOR CONTROL (INSEPARABLE)		
DRAWN C. LENZ DATE 3 MAY 63			
CHECKED 13 MAY 63			
APPROVAL Earl Schul 13 MAY 63			
APPROVAL 13 MAY 63	CODE IDENT NO.	SIZE J	1014581
NASA APPROVAL 6-19-63			
MIT APPROVAL	SCALE 1:1		SHEET 2 OF 2

INCHES
PHOTOGRAPHIC SCALE ONLY

1-3

REVISIONS

SYM	ZONE	DESCRIPTION	CHG
		SEE SHEET 1 FOR REVISIONS	



PHOTOMETER GAIN
VERNIER
INCR
45°-5 PLACES
22½°
⅜R-5 PLACES
¼R
5⅝
ATTITUDE IMPULSE
ENABLE
ON
OFF
VERNIER
METER GAIN
R-8 PLACES
2 PLACES
IMU TEMP MODE
BACKUP
EMERGENCY
GAIN
PIPA
ZERO
IRIG
9/32 DIA THRU 3 HOLES
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
45°-3 PLACES
¼R-4 PLACES
½-4 PLACES
⅜R 4 PLACES
6 5/16
(45) 2 REQ'D 5
(44) 4 REQ'D 4
(44) 6 REQ'D 4
.161 +.005/-.001 DIA THRU
#10-32 NF-2B THD THRU
5/16 DIA CBORE 3/32 DEEP
⅜ DIA CBORE 7/32 DEEP
ON FAR SIDE
6 HOLES
2
22.156
15.812
2.875
12.000
7.500
1.840
.920
(45) 5
5 (45)
.125 DIA. 1/16 DEEP
1 .375 DIA THRU 2 HOLES
.125 DIA. 1/16 DEEP
DS3 XDS3
DS4 XDS4
M1
S13
S10
S19
S22
S1
S17
S2
R1
R2
T1
A1
A2
S12 DS12 XDS12
S14
S6
S23
S7
S8
S21
S16
S15
S11
S4
S9
E1
.690 DIA THRU
.2031 +.0005/-.0000 DIA 11/32 DEEP
DO NOT BREAK THRU
4 HOLES
5 (45)
½ DIA. FREE FROM CHEMICAL FINISH
(44) 2 REQ'D 4
5 2 REQ'D (45)
(45) 2 REQ'D 5
(45) 2 REQ'D 5
(44) 2 REQ'D 4
11.625
10.125
8.938
6.250
4.750
7.000
5.438
5.500
5.000
3.938
1.500
5.500
11.750
21.250
22.812
25.000
16 ⅝
.290
.188
.875
.906
.375
.094
1.375
1.718
2.750
.688
1.380
6 7/16
6½
9¼

1014581

INCHES
PHOTOGRAPHIC SCALE ONLY

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 3 MAY 63
CHECKED
APPROVAL Eu. Schock
APPROVAL
NASA APPROVAL
INIT APPROVAL

MAN
SPACECRA
HOUSTO

PAN
SEN IND CAT
(NSEPAT

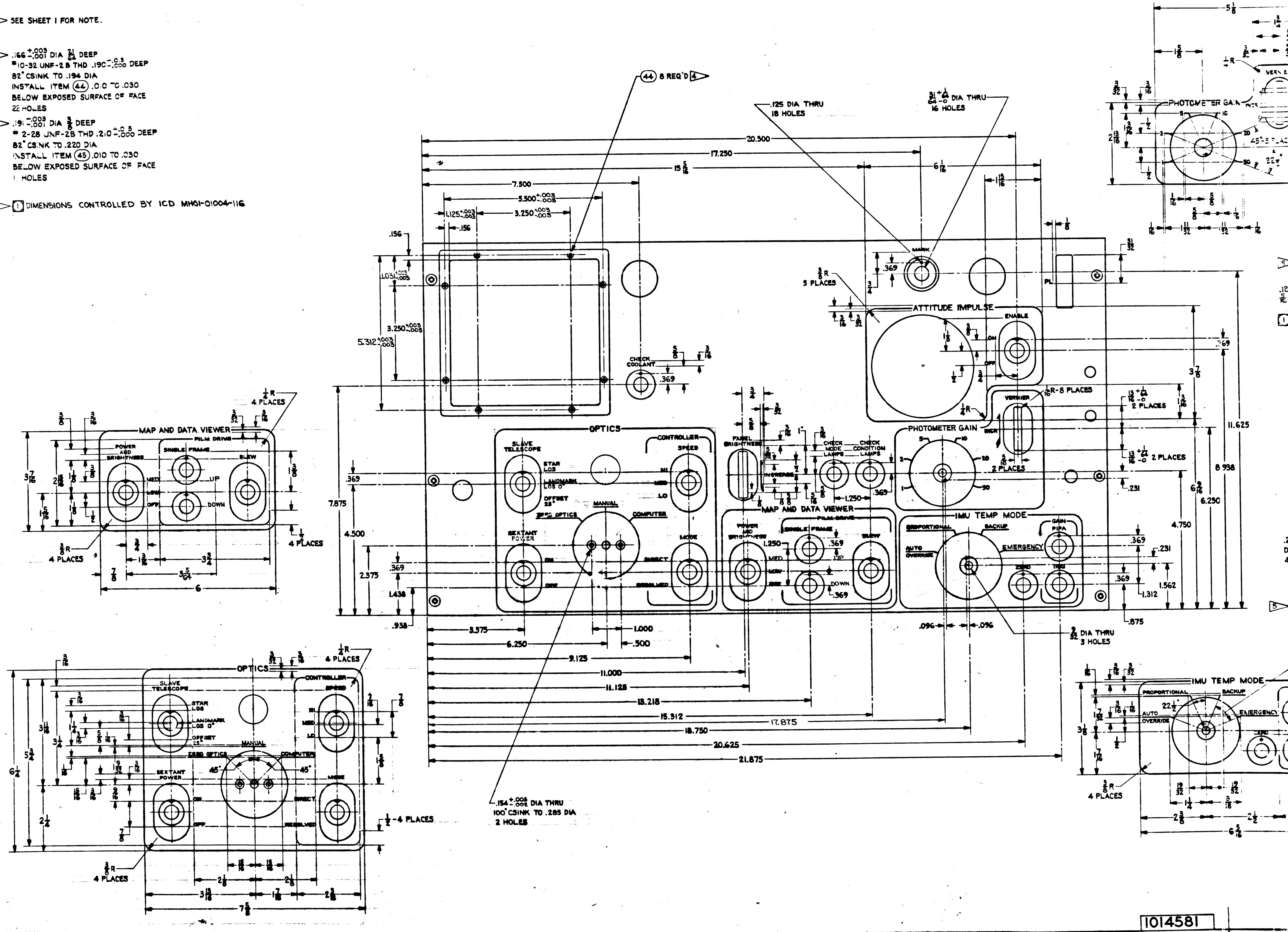
CODE IDENT NO.
SIZE
101
SCALE 1:1

2 SEE SHEET I FOR NOTE.

4 .166 $^{+.003}_{-.001}$ DIA $\frac{21}{64}$ DEEP
*10-32 UNF-2B THD .190 $^{-.0.5}_{-.000}$ DEEP
82° CSINK TO .194 DIA
INSTALL ITEM (44) .010 TO .030
BELOW EXPOSED SURFACE OF FACE
22 HOLES

5 .191 $^{-.003}_{-.001}$ DIA $\frac{3}{8}$ DEEP
* 2-28 UNF-2B THD .210 $^{+.015}_{-.000}$ DEEP
82° CSINK TO .220 DIA
INSTALL ITEM (45) .010 TO .030
BELOW EXPOSED SURFACE OF FACE
[illegible] HOLES

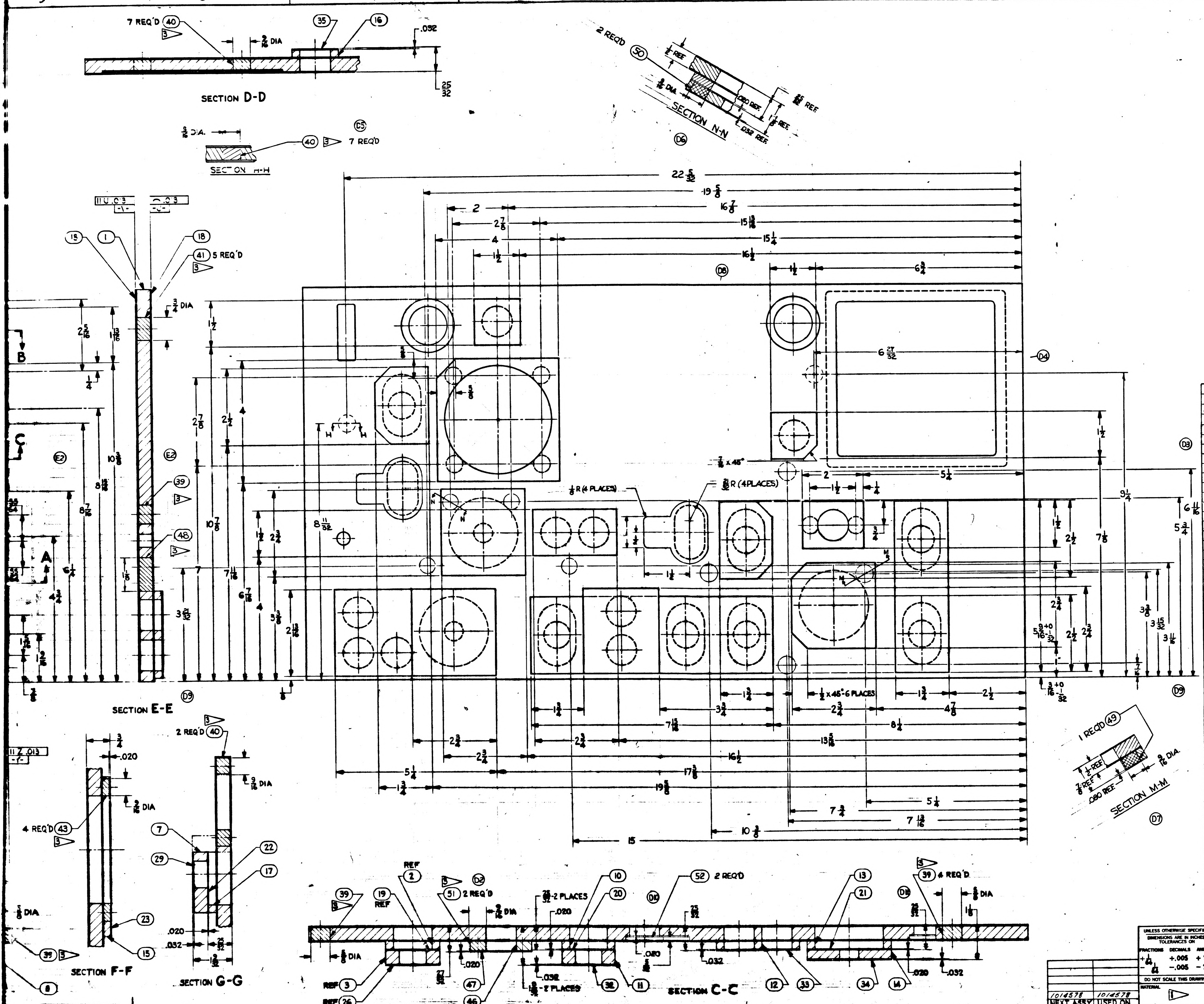
6 ① DIMENSIONS CONTROLLED BY ICD MH01-01004-116



(44) 8 REQ'D 4
.125 DIA THRU
18 HOLES
31/64 +1/64 -0 DIA THRU
16 HOLES
20.500
17.250
15 5/16
6 1/16
7.500
5.500 +.003 -.003
1.125 +.003 -.003
3.250 +.003 -.003
.156
1.031 +.003 -.003
5.312 +.003 -.003
CHECK COOLANT
.369
3/8 R
5 PLACES
MARK
ATTITUDE IMPULSE
ENABLE
ON
OFF
VERNIER
1/16 R-8 PLACES
PHOTOMETER GAIN
13/16 +1/64 -0 2 PLACES
11.625
8.938
6.250
4.750
1.562
1.312
.231
.875
3 7/8
6 9/16
PL
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
ZERO OPTICS
MANUAL
COMPUTER
SEXTANT POWER
ON
OFF
CONTROLLER
SPEED
HI
MED
LO
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
1.250
MAP AND DATA VIEWER
POWER AND BRIGHTNESS
FILM DRIVE
SINGLE FRAME
SLEW
UP
DOWN
MED
LOW
OFF
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
IRIG
7.875
4.500
2.375
1.438
.938
3.375
6.250
9.125
11.000
11.125
13.218
15.312
17.875
18.750
20.625
21.875
1.000
.500
.096
3/32 DIA THRU
3 HOLES
.154 +.005 -.002 DIA THRU
100° CSINK TO .285 DIA
2 HOLES
1/4 R
4 PLACES
3/8 R
4 PLACES
1/2 -4 PLACES
6
3 5/64
7 5/8
6 1/4
5 3/4
PHOTOMETER GAIN
45° 8 PLACES
22 1/2°
5 1/8
6 5/16
INCHES
PHOTOGRAPHIC SCALE ONLY

1014581

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
B		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.
C	D-12	Ⓒ1 1" DIA. HOLE WAS 1" SQUARE HOLE.		AUG 63	
	G-16	Ⓒ2 ADDED NOTE 6			
	D-15 D-11	Ⓒ3 RELOCATED UP & DOWN MARKING IN MAP & DATA VIEWER GROUP.			
	E-12	Ⓒ4 ADDED SECTION K-K AND RELOCATED INSERTCORES			
	H-7	Ⓒ5 MODIFIED SECTION D-D			
	E-3	Ⓒ6 RELOCATED AI MARKING			
	E-4	Ⓒ7 RELOCATED TI MARKING & RELATED MACHINED HOLES			
	E-4	Ⓒ8 RELOCATED S12, DS12 & XDS12 MARKING			
	D-16	Ⓒ9 IN 2▷ DELETED "COVER WITH CLEAR LACQUER FROM CHARACTERS ON REAR OF PANEL.			
	E-2	Ⓒ10 CHANGED ITEM 44 FROM 24 TO 22			
	E-2	Ⓒ11 CHANGED ITEM 45 FROM 8 TO 11 TDRR 02782		11/25/63	
D_{11}		REVISED PER TDRR NO. 03902		10/22/63	WK
E_2		REVISED PER TDRR NO. 03903		10/22/63	WK
F		REVISED PER TDRR NO. 04082		10/24/63	WK



SECTION D-D
7 REQ'D (40) 3▷
(35) (16)
3/16 DIA
.032
25/32
2 REQ'D (50)
SECTION N-N
(D6)
1/2 REF
3/8 DIA
.080 REF
.032 REF
25/32 REF
3/16 DIA.
(40) 3▷ 7 REQ'D
(D5)
SECTION H-H
(15) (1) (18)
(41) 5 REQ'D 3▷
3/4 DIA
(39) 3▷
(48) 3▷
SECTION E-E
(E2)
(D8)
(D4)
(D3)
(D9)
6 27/32
22 5/32
19 5/8
16 7/8
15 13/16
15 1/4
16 1/2
6 3/4
5 1/4
9 1/4
7 7/8
6 11/16
5 3/4
1/8 R (4 PLACES)
5/8 R (4 PLACES)
7/8 x 45°
1/2 x 45°-6 PLACES
7 15/16
13 5/8
17 3/8
19 5/8
10 3/8
15
7 3/4
7 13/16
2 REQ'D (40) 3▷
9/16 DIA
4 REQ'D (43) 3▷
(7) (29) (22) (17) (23) (15)
(39) 3▷
(8)
SECTION F-F
SECTION G-G
.020
.032
1 REQ'D (49)
9/16 DIA.
SECTION M-M
(D7)
REF (2)
(19) REF
(51) 2 REQ'D
(D2)
25/32-2 PLACES
(10) (20)
(52) 2 REQ'D
(D10)
(13) (21)
(39) 4 REQ'D 3▷
(D11)
REF (3)
REF (26)
(47) (46) (38) (11) (12) (33) (34) (14)
1 3/32-2 PLACES
SECTION C-C

1014581

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
52	2	1014581-052	FACE-PAD
51	2	-051	INSERT CORE PAD
50	2	-050	↑
49	1	-049	INSERT CORE PAD
48	1	1014581-048	INSERT-CORE, PANEL
47	1	↑ -047	FACE-PAD
46	1	1014581-046	CORE-HONEYCOMB, PAD
45	19	1000115-3	↑
44	22	1000115-2	INSERT-THREADED, SELF-LOCKING
43	4	↑ -043	INSERT-CORE, PAD
42	1	-042	↑
41	11	-041	
40	16	-040	
39	11	-039	
38	1	-038	INSERT-CORE, PANEL
37	1	-037	RING
36	1	-036	↑
35	2	-035	
34	1	-034	
33	1	-033	
32	1	-032	
31	1	-031	
30	1	-030	
29	2	-029	
28	1	-028	
27	1	-027	
26	1	-026	
25	2	-025	
24	1	-024	
23	1	-023	
22	1	-022	
21	1	-021	
20	1	-020	
19	1	-019	FACE-PAD
18	2	-018	FACE-PANEL
17	1	-017	↑
16	2	-016	
15	1	-015	
14	1	-014	
13	1	-013	
12	1	-012	
11	1	-011	
10	1	-010	
9	1	-009	
8	1	-008	
7	2	-007	
6	1	-006	
5	1	-005	
4	1	-004	
3	1	-003	
2	1	-002	CORE-HONEYCOMB, PAD
1	1	1014581-001	CORE-HONEYCOMB, PANEL

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014578	1014578

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$\pm\frac{1}{64}$	+.005 -.005	+2° -2°

DO NOT SCALE THIS DRAWING
MATERIAL 1▷
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 3 MAY 63
CHECKED 13 MAY 63
APPROVAL Eric Scholl 13 MAY 63
APPROVAL 13 MAY 63
NASA APPROVAL 6-14-63
MIT APPROVAL 6-63

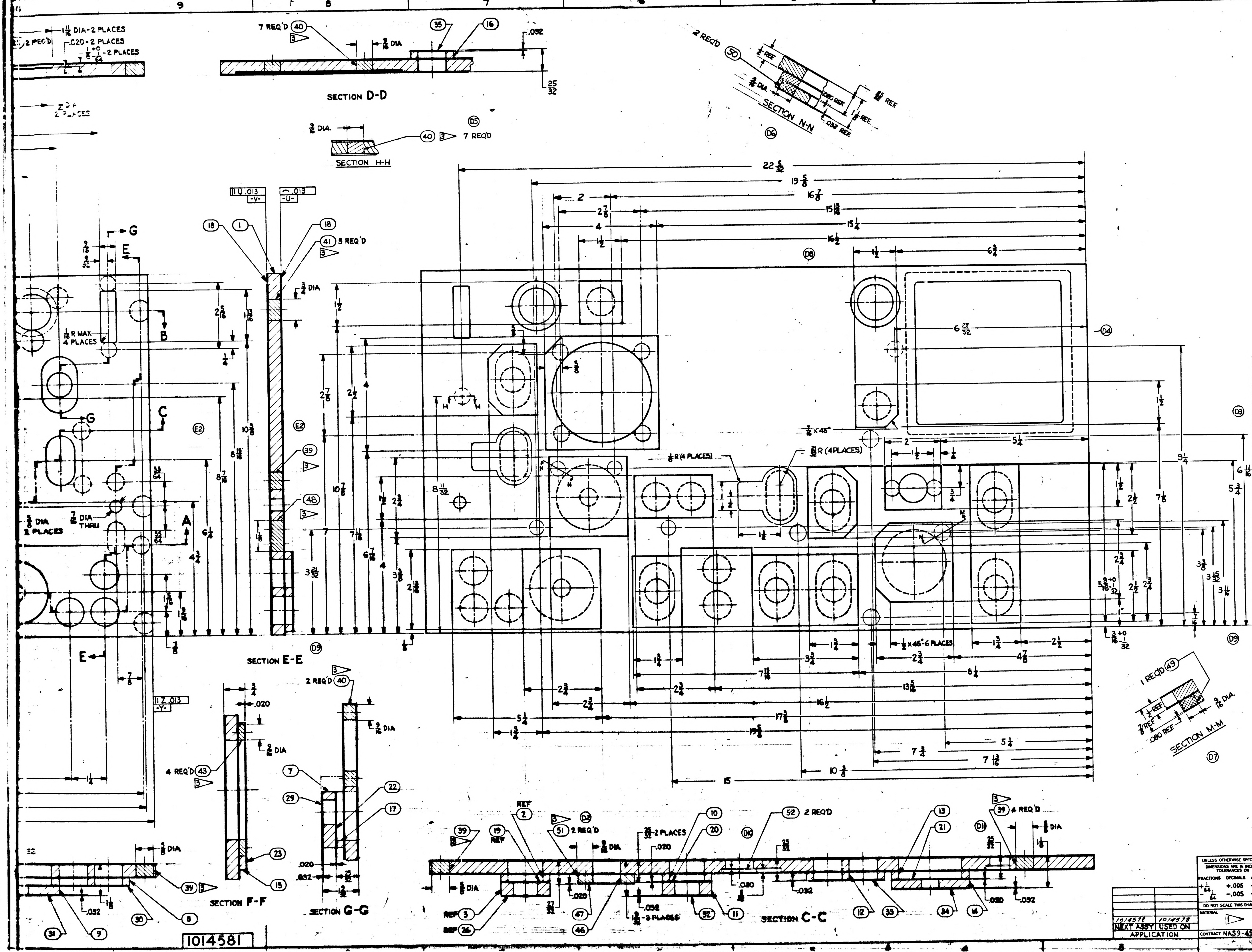
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO. SIZE J 1014581
SCALE 1:1 SHEET 1 OF 2

1014581 F

13 MAY 63



SYM	ZONE	DESCRIPTION	CHG NO	DATE	AP
B		UPGRADED FOR CLASS A RELEASE		6-11 63	R.L.
C	D-12	(C1) 1" DIA. HOLE WAS 1" SQUARE HOLE.		AUG	
	G-16	(C2) ADDED NOTE 6			
	D-15 D-11	(C3) RELOCATED UP & DOWN MARKING IN MAP & DATA VIEWER GROUP.			
	E-12	(C4) ADDED SECTION [illegible] RELOCATED INSERT CORES			
	H-7	(C5) MODIFIED SECTION D-D			
	E-3	(C6) RELOCATED A1 MARKING			
	E-4	(C7) RELOCATED [illegible] & RELATED MACHINED HOLES			
	E-4	(C8) RELOCATED [illegible] XDS 2 MARKING			
	D-16	(C9) IN ▷ DELETED COVER WITH CLEAR LACQUER FROM CHARACTERS ON REAR OF PANEL			
	E-2	CHANGED ITEM 44 FROM 24 TO 22			
	E-2	CHANGED ITEM 45 FROM [illegible]			
		TDRR 02782			
D		REVISED PER TDRR NO. 03902		5/22/63	
E2		REVISED PER TDRR NO. 03903		10/22/63	
F		REVISED PER TDRR NO. 04082		12/24/63	

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
52	2	1014581-052	FACE-PAD
51	2	-051	INSERT CORE PAD
50	2	-050	↑
49	1	-049	INSERT CORE PAD
48	1	1014581-048	INSERT-CORE, PANEL
47	1	↑ -047	FACE-PAD
46	1	1014581-046	CORE-HONEYCOMB, PAD
45	19	1000115-3	↑
44	22	1000115-2	INSERT-THREADED, SELF-LOCK
43	4	↑ -043	INSERT-CORE, PAD
42	1	-042	↑
41	11	-041	
40	16	-040	
39	11	-039	
38	1	-038	INSERT-CORE, PANEL
37	1	-037	RING
36	1	-036	↑
35	2	-035	
34	1	-034	
33	1	-033	
32	1	-032	
31	1	-031	
30	1	-030	
29	2	-029	
28	1	-028	
27	1	-027	
26	1	-026	
25	2	-025	
24	1	-024	
23	1	-023	
22	1	-022	
21	1	-021	
20	1	-020	
19	1	-019	FACE-PAD
18	2	-018	FACE-PANEL
17	1	-017	↑
16	2	-016	
15	1	-015	
14	1	-014	
13	1	-013	
12	1	-012	
11	1	-011	
10	1	-010	
9	1	-009	
8	1	-008	
7	2	-007	
6		-006	
5	1	-005	
4	1	-004	
3	1	-003	
2	1	-002	CORE-HONEYCOMB, PAD
	1	1014581-001	CORE-HONEYCOMB, PANEL

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
1014578	1014578

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS $\pm\frac{1}{64}$ DECIMALS +.005 -.005 ANGLES +2° -2°
DO NOT SCALE THIS DRAWING
MATERIAL ▷1
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
CSP PN
DRAWN C. LENZ DATE 3 MAY 63
CHECKED 13 MAY 63
APPROVAL Scholl 13 MAY 63
APPROVAL 13 MAY 63
NASA APPROVAL 6-4-63
APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G&N INDICATOR CONTROL
(SEPARABLE)

CODE IDENT NO.
SIZE
014581
SCALE 1:1
SHEET

13 MAY 63

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327.

1 MATERIAL:
ITEMS 1 THRU 7 AND ITEM 46:
HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C,
1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL
WALLS) ALUMINUM ALLOY PER
(5052--39), 4.5 DENSITY CORE.
ITEMS 18 THRU 25 AND ITEMS 47 & 52:
.020 THK AL ALY PER QQ-A-355, TEMPER T-3
(TYPE 2024-T3)(ES-2104).
ITEMS 26 THRU 35:
.032 THK AL ALY PER QQ-A-355, TEMPER T-3
(TYPE 2024-T3)(ES-2104).
ITEM 36:
.100 THK AL ALY PER QQ-A-355, TEMPER T-3
(TYPE 2024-T3)(ES-2104).
ITEM 37:
AL ALY PER QQ-A-355, TEMPER T-3 (TYPE 2024-T3)
(ES-2104).
ITEMS 38 THRU 43 AND 48 THRU 51:
AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4)(ES-2104).

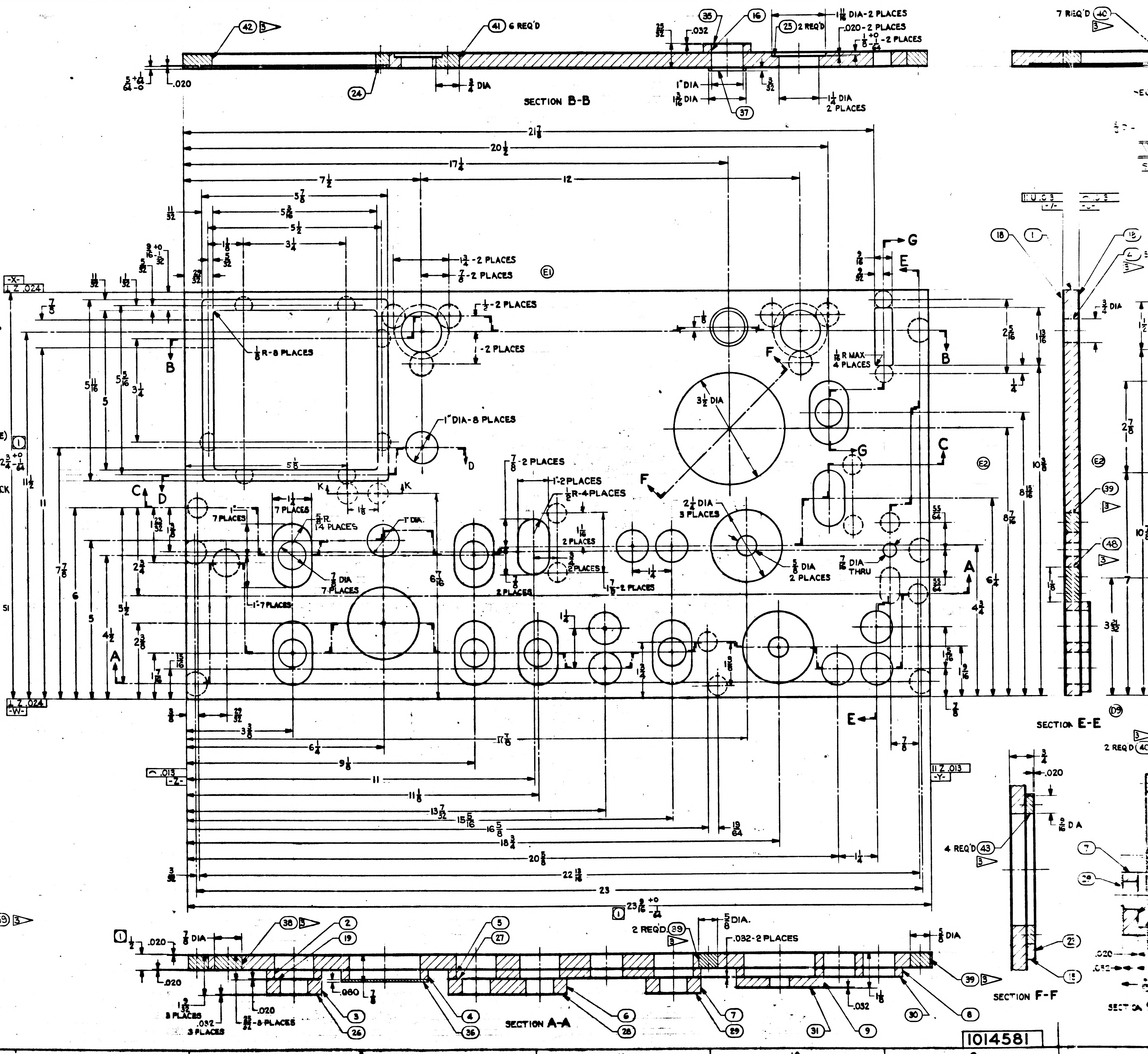
ADHESIVE:
ADHESIVE FOR METALLIC CONSTRUCTION IS TO BE PER
MIL-A-25463(ASG), TYPE II, CLASS 2.

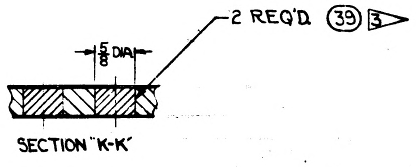
UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 125√.
ALL EDGES ON SURFACE V MUST BE .030 TO .040 RADIUS
MUST BE FREE FROM BURRS.

FINISH:
① CHEMICAL FILM PER MIL-C-5541(ES-591).
APPLY ZINC CHROMATE PRIMER PER MIL-P-6808
(ES-2589).
② APPLY TT-E-527(ES-2602) LUSTERLESS ENAMEL (GREY),
COLOR NO. 36231 OF FED-STD-595, TO FRONT
AND SIDES OF PANEL, PER ND1002110.
CHARACTERS, BORDER LINES, POSITION MARKS AND
ARROWS ON FRONT OF PANEL TO BE SILK SCREENED PER ND1002112 USING ND1002111 LUSTERLESS (WHITE)
ENAMEL, COLOR NO. 37875 OF FED-STD-595. UNLESS
OTHERWISE SPECIFIED CHARACTERS TO BE 1/8 HIGH
FUTURA DEMIBOLD PER ND 1002122. CENTRALIZE
AS SHOWN. BORDER LINES, POSITION MARKS
AND ARROWS TO BE 1/32 WIDE.
2 IDENTIFY USING DWG. NO., REVISION LETTER AND IN 1/8 HIGH BLACK
CHARACTERS IN POSITION SHOWN PER MIL-STD-130
(ES-267). COVER WITH TT-L-58 (ES-2562) CLEAR
LACQUER.
CHARACTERS ON REAR OF PANEL, EXCEPT DWG. NO.,
REV. LTR. AND MFR'S SYMBOL, TO BE MARKED IN
1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER
ND1002019.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178
USING EPOXY PUTTY PER ND1002177.

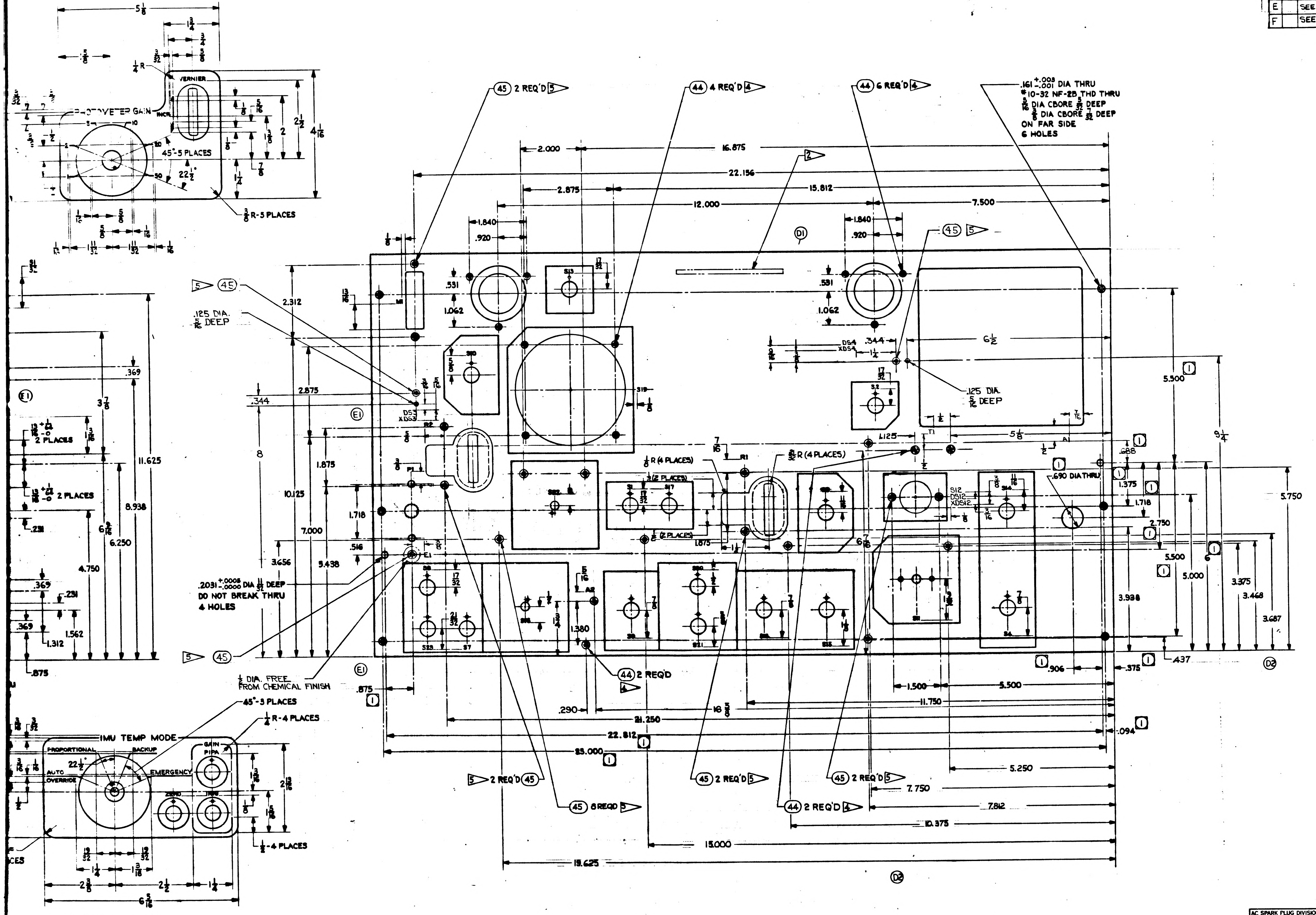
3 TOLERANCE FOR LOCATION OF ITEMS 38 THRU 43 AND 48 THRU 51
IS ±1/32 HOLE LOCATIONS SHALL BE AS SPECIFIED.


SECTION B-B
SECTION A-A
SECTION E-E
SECTION F-F
1" DIA-8 PLACES
1/8 R-8 PLACES
3 1/2 DIA
2 1/4 DIA 3 PLACES
5/8 DIA 2 PLACES
7/8 DIA 7 PLACES
5/8 R 14 PLACES
7/8 DIA THRU
1/16 R MAX 4 PLACES
6 REQ'D
2 REQ'D
4 REQ'D
7 REQ'D
23 3/16 +0 -1/64
12 3/4 +0 -1/64
21 7/8
20 1/2
17 1/4
23
22 13/16
-X-
-W-
-Y-
-Z-
⊥ Z .024
∥ Z .013


5/8 DIA
2 REQ'D 39 3
SECTION "K-K"

1014581

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		SEE SHEET I FOR REVISIONS.			
D3		SEE SHEET I FOR REVS.		10/22/63	wil
E		SEE SHEET I FOR REVS.		10/22/63	wil
F		SEE SHEET I FOR REVS.		10/24/63	wil



PHOTOMETER GAIN
VERNIER
INCR.
45°-3 PLACES
3/8 R-3 PLACES
(45) 2 REQ'D 5
(44) 4 REQ'D 4
(44) 6 REQ'D 4
.161 +.003 -.001 DIA THRU
#10-32 NF-2B THD THRU
5/16 DIA CBORE 5/32 DEEP
3/8 DIA CBORE 7/32 DEEP
ON FAR SIDE
6 HOLES
16.875
22.156
15.812
12.000
7.500
2.000
2.875
(D1)
(45) 5
.125 DIA. 5/16 DEEP
(E1)
DS3 XDS3
DS4 XDS4
1/8 R (4 PLACES)
5/32 R (4 PLACES)
.690 DIA THRU
.2031 +.0005 -.0000 DIA 11/32 DEEP
DO NOT BREAK THRU
4 HOLES
1/2 DIA. FREE FROM CHEMICAL FINISH
(44) 2 REQ'D 4
5 2 REQ'D (45)
(45) 6 REQD 5
(45) 2 REQ'D 5
(44) 2 REQ'D 4
21.250
22.812
23.000
15.000
15.625
11.750
5.500
5.250
7.750
7.812
10.375
(D2)
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO
OVERRIDE
EMERGENCY
GAIN
PIPA
ZERO
1/8 R-4 PLACES
1/4-4 PLACES

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

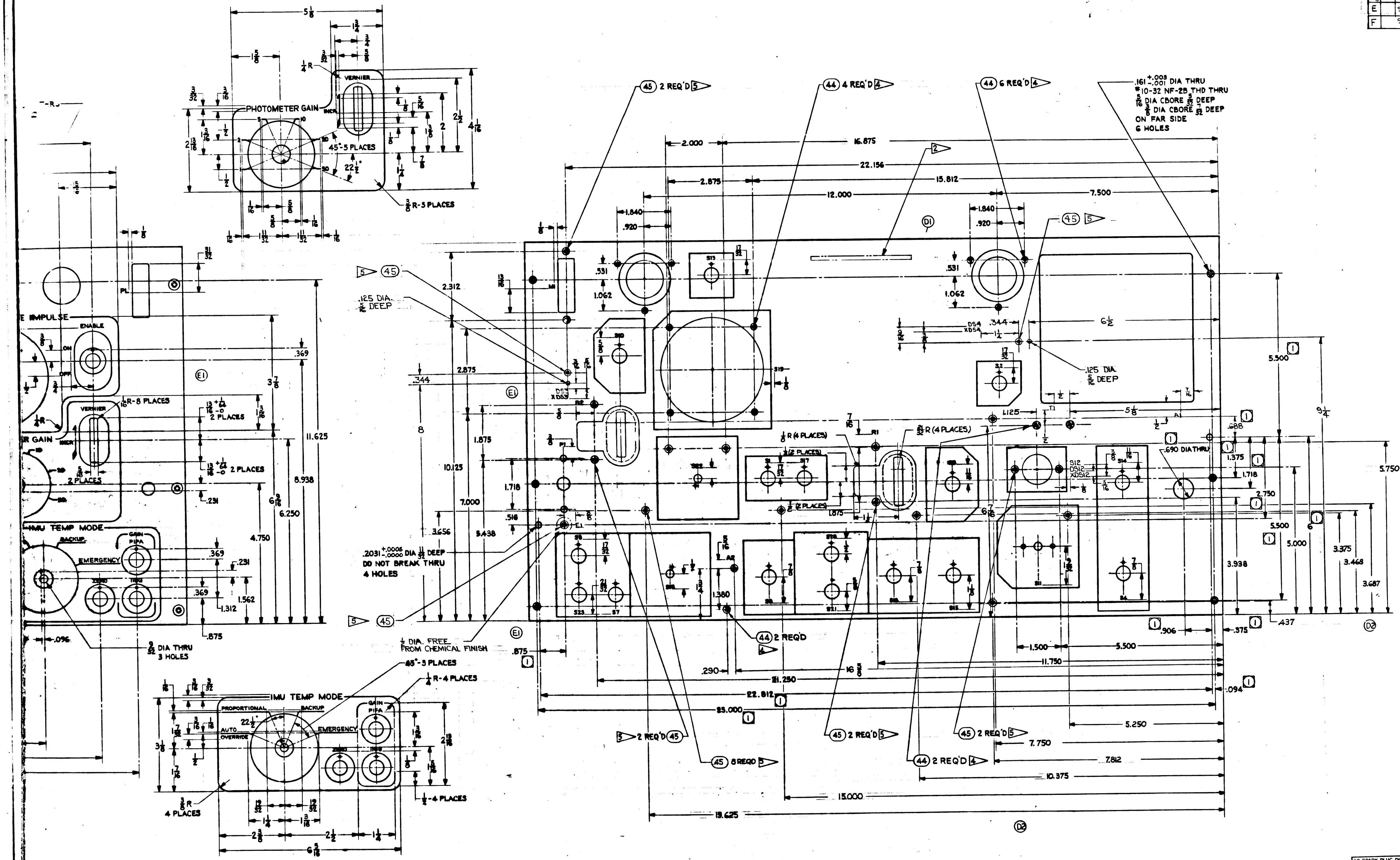
ACSP PN
DRAWN C. LENZ DATE 3 MAY 63
CHECKED 13 MAY 63
APPROVAL Scholl 13 MAY 63
APPROVAL 13 MAY 63
NASA APPROVAL 6-19-63
MIT APPROVAL

CODE IDENT NO.
SIZE J
1014581
SCALE 1:1
SHEET 2 OF 2

1014581

F3

SYM	ZONE	DESCRIPTION
REVISIONS		
		SEE SHEET I FOR REVISIONS
D_3		SEE SHEET I FOR REVS.
E		SEE SHEET I FOR REVS.
F		SEE SHEET I FOR REVS



PHOTOMETER GAIN
VERNIER
INCR
45°-5 PLACES
$\frac{3}{8}$R-5 PLACES
IMPULSE
ENABLE
ON
OFF
VERNIER
GAIN
INCR
2 PLACES
IMU TEMP MODE
BACKUP
EMERGENCY
GAIN PIPA
ZERO
$\frac{9}{32}$ DIA THRU 3 HOLES
$\frac{1}{16}$R-8 PLACES
(45) 2 REQ'D
(44) 4 REQ'D
(44) 6 REQ'D
.161 $^{+.003}_{-.001}$ DIA THRU
#10-32 NF-2B THD THRU
$\frac{5}{16}$ DIA CBORE $\frac{5}{32}$ DEEP
$\frac{3}{8}$ DIA CBORE $\frac{7}{32}$ DEEP
ON FAR SIDE
6 HOLES
.125 DIA. $\frac{5}{16}$ DEEP
.2031 $^{+.0005}_{-.0000}$ DIA $\frac{11}{32}$ DEEP
DO NOT BREAK THRU
4 HOLES
$\frac{1}{2}$ DIA. FREE FROM CHEMICAL FINISH
.690 DIA THRU
$\frac{1}{8}$R (4 PLACES)
$\frac{3}{32}$R (4 PLACES)
(44) 2 REQ'D
(45) 2 REQ'D
(45) 8 REQ'D
(44) 2 REQ'D
(45) 2 REQ'D
16.875
22.156
15.812
12.000
7.500
2.000
2.875
1.840
.920
11.625
8.938
6.250
4.750
10.125
7.000
5.438
1.875
1.718
5.500
5.750
5.000
3.375
3.468
3.687
3.938
1.500
11.750
21.250
22.812
23.000
5.250
7.750
7.812
10.375
15.000
19.625
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN PIPA
ZERO
45°-3 PLACES
$\frac{1}{4}$R-4 PLACES
$\frac{3}{8}$R 4 PLACES
$\frac{1}{2}$-4 PLACES
$6\frac{5}{16}$
D1
D2
E1

1014581

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN LENZ DATE 3 MAY 63
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL
CODE IDENT NO
SCALE
GEN IND CATLR
1014

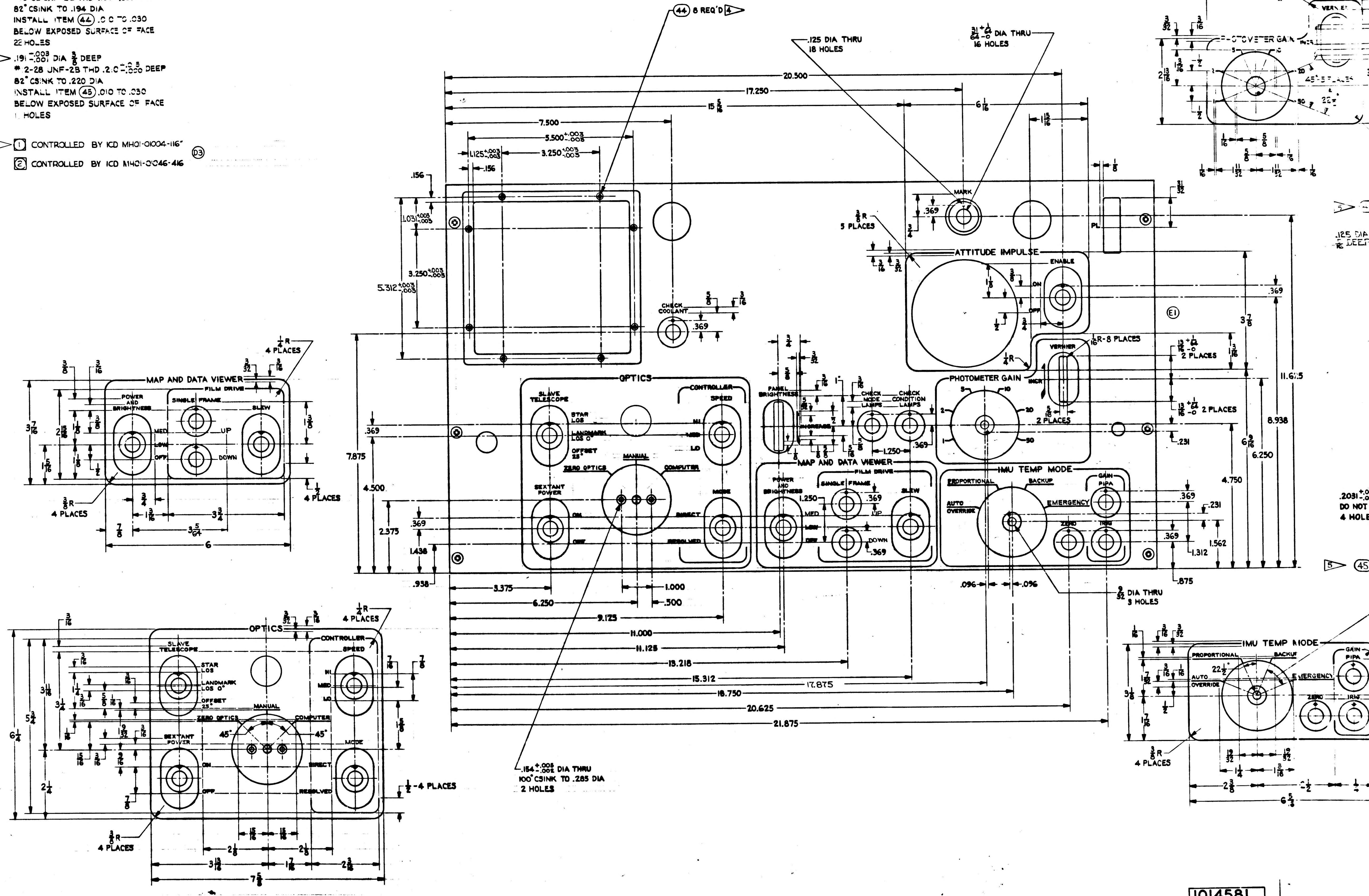
E-2

2 SEE SHEET I FOR NOTE.

4 .166 $^{+.003}_{-.001}$ DIA $\frac{21}{64}$ DEEP
#10-32 UNF-2B THD .190 $^{-.0\,5}_{-.000}$ DEEP
82° CSINK TO .194 DIA
INSTALL ITEM (44) .0 0 TO .030
BELOW EXPOSED SURFACE OF FACE
22 HOLES

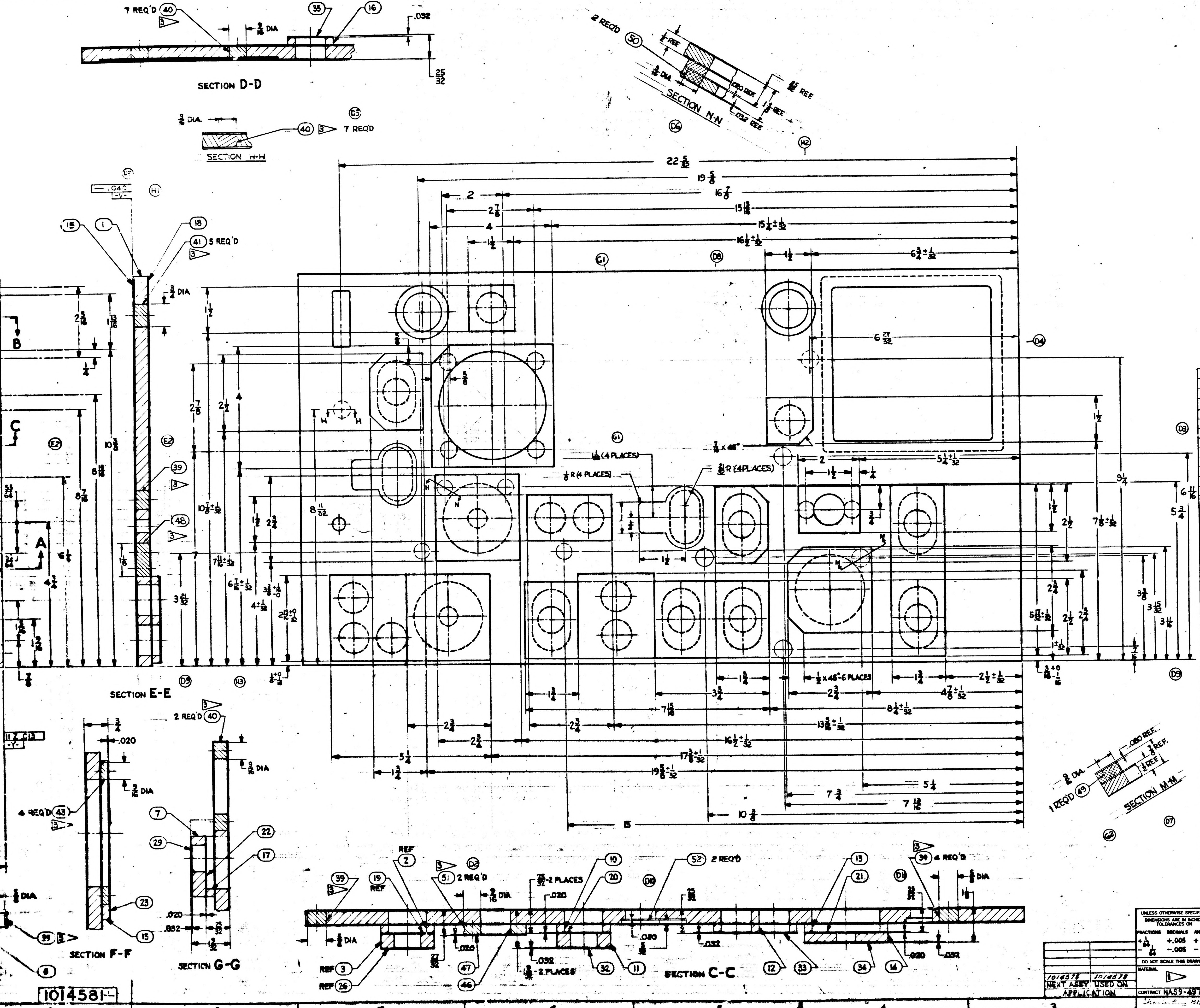
3 .191 $^{-.003}_{-.001}$ DIA $\frac{3}{8}$ DEEP
# 2-28 UNF-2B THD .2 0 $^{-.0\,5}_{-.000}$ DEEP
82° CSINK TO .220 DIA
INSTALL ITEM (45) .010 TO .030
BELOW EXPOSED SURFACE OF FACE
HOLES

6 ① CONTROLLED BY ICD MH01-01004-116" (D3)
② CONTROLLED BY ICD MH01-01046-416



(44) 8 REQ'D 4
.125 DIA THRU
18 HOLES
$\frac{31}{64}$ DIA THRU
16 HOLES
20.500
17.250
15 $\frac{5}{16}$
6 $\frac{1}{16}$
7.500
5.500 $^{+.003}_{-.003}$
3.250 $^{+.003}_{-.003}$
1.125
.156
CHECK COOLANT
.369
MARK
PL
ATTITUDE IMPULSE
ENABLE
ON
OFF
$\frac{3}{8}$R 5 PLACES
VERNIER
INCR
$\frac{1}{16}$R-8 PLACES
PHOTOMETER GAIN
2 PLACES
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
CONTROLLER
SPEED
HI
MED
LO
ZERO OPTICS
MANUAL
COMPUTER
SEXTANT POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
MAP AND DATA VIEWER
FILM DRIVE
POWER AND BRIGHTNESS
SINGLE FRAME
SLEW
UP
DOWN
MED
LOW
OFF
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN PIPA
ZERO
TRIG
(E1)
11.625
8.938
6.250
4.750
3 $\frac{7}{8}$
.231
.875
1.312
1.562
$\frac{9}{32}$ DIA THRU 3 HOLES
.096
.154 $^{+.005}_{-.002}$ DIA THRU 100° CSINK TO .285 DIA 2 HOLES
3.375
6.250
9.125
11.000
11.125
13.218
15.312
17.875
18.750
20.625
21.875
1.000
.500
7.875
4.500
2.375
1.438
.938
5.312
3.250
1.031
$\frac{1}{4}$R 4 PLACES
$\frac{3}{8}$R 4 PLACES
$\frac{1}{2}$ 4 PLACES
6
3 $\frac{5}{64}$
3 $\frac{3}{4}$
7 $\frac{5}{8}$
3 $\frac{13}{16}$
2 $\frac{1}{8}$
2 $\frac{3}{16}$
6 $\frac{1}{4}$
5 $\frac{3}{4}$
45°
PHOTOMETER GAIN
VERNIER
45° 5 PLACES
22 $\frac{1}{2}$°
.125 DIA
.2031
DO NOT
4 HOLE
5 (45)

1014581


SECTION D-D
7 REQ'D (40)
(35)
(16)
3/16 DIA
.032
25/32
SECTION H-H
3/16 DIA
(40) 7 REQ'D
2 REQ'D (50)
SECTION N-N
22 5/32
19 5/8
16 7/8
15 13/16
15 1/4 ± 1/32
16 1/2 ± 1/32
6 3/4 ± 1/32
6 27/32
SECTION E-E
1/8 R (4 PLACES)
3/8 R (4 PLACES)
1/2 x 45° - 6 PLACES
SECTION F-F
SECTION G-G
SECTION C-C
SECTION M-M
1 REQ'D (49)
4 REQ'D (43)
2 REQ'D (40)
(52) 2 REQ'D
(51) 2 REQ'D
(39) 4 REQ'D
REF
1014581

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
B		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.
C	D-12	Ⓒ1 1" DIA. HOLE WAS 1" SQUARE HOLE.		AUG 63	
	G-16	Ⓒ2 ADDED NOTE 6			
	D-15 D-11	Ⓒ3 RELOCATED UP & DOWN MARKING IN MAP & DATA VIEWER GROUP.			
	E-12	Ⓒ4 ADDED SECTION K-K AND RELOCATED INSERTCORES			
	H-7	Ⓒ5 MODIFIED SECTION D-D			
	E-3	Ⓒ6 RELOCATED A1 MARKING			
	E-4	Ⓒ7 RELOCATED T1 MARKING & RELATED MACHINED HOLES			
	E-4	Ⓒ8 RELOCATED S12, DS12 & XDS12 MARKING			
	D-16	Ⓒ9 IN 3 DELETED 'COVER WITH CLEAR LACQUER FROM CHARACTERS ON REAR OF PANEL.			
	E-2	Ⓒ10 CHANGED ITEM 44 FROM 24 TO 22			
	E-2	Ⓒ11 CHANGED ITEM 45 FROM 8 TO 11 TDRR 02782		8/25/63	
D11		REVISED PER TDRR NO. 03902		9/22/63	WH
E2		REVISED PER TDRR NO. 03903		10/22/63	WH
F		REVISED PER TDRR NO. 04082		9/24/63	WH
G2		REVISED PER TDRR NO. 04802		11/25/63	WH
H2		REVISED PER TDRR NO. 04083		11/25/63	WH

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
52	2	1014581-052	FACE-PAD
51	2	-051	INSERT CORE PAD
50	2	-050	↑
49	1	-049	INSERT CORE PAD
48	1	1014581-048	INSERT-CORE, PANEL
47	1	-047	FACE-PAD
46	1	1014581-046	CORE-HONEYCOMB, PAD
45	19	1000115-3	↑
44	22	1000115-2	INSERT-THREADED, SELF-LOCKING
43	4	-043	INSERT-CORE, PAD
42	1	-042	↑
41	11	-041	
40	16	-040	
39	11	-039	
38	1	-038	INSERT-CORE, PANEL
37	1	-037	RING
36	1	-036	↑
35	2	-035	
34	1	-034	
33	1	-033	
32	1	-032	
31	1	-031	
30	1	-030	
29	2	-029	
28	1	-028	
27	1	-027	
26	1	-026	
25	2	-025	
24	1	-024	
23	1	-023	
22	1	-022	
21	1	-021	
20	1	-020	
19	1	-019	FACE-PAD
18	2	-018	FACE-PANEL
17	1	-017	↑
16	2	-016	
15	1	-015	
14	1	-014	
13	1	-013	
12	1	-012	
11	1	-011	
10	1	-010	
9	1	-009	
8	1	-008	
7	2	-007	
6	1	-006	
5	1	-005	
4	1	-004	
3	1	-003	
2	1	-002	CORE-HONEYCOMB, PAD
1	1	1014581-001	CORE-HONEYCOMB, PANEL

LIST OF PARTS AND MATERIALS

1014578	1014578
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± 1/64 DECIMALS ± .005 ANGLES ± 2°
DO NOT SCALE THIS DRAWING
MATERIAL 1
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 3 MAY 63
CHECKED 13 MAY 63
APPROVAL Eric Scholl 13 MAY 63
APPROVAL 13 MAY 63
NASA APPROVAL 6-19-63
MIT APPROVAL 63

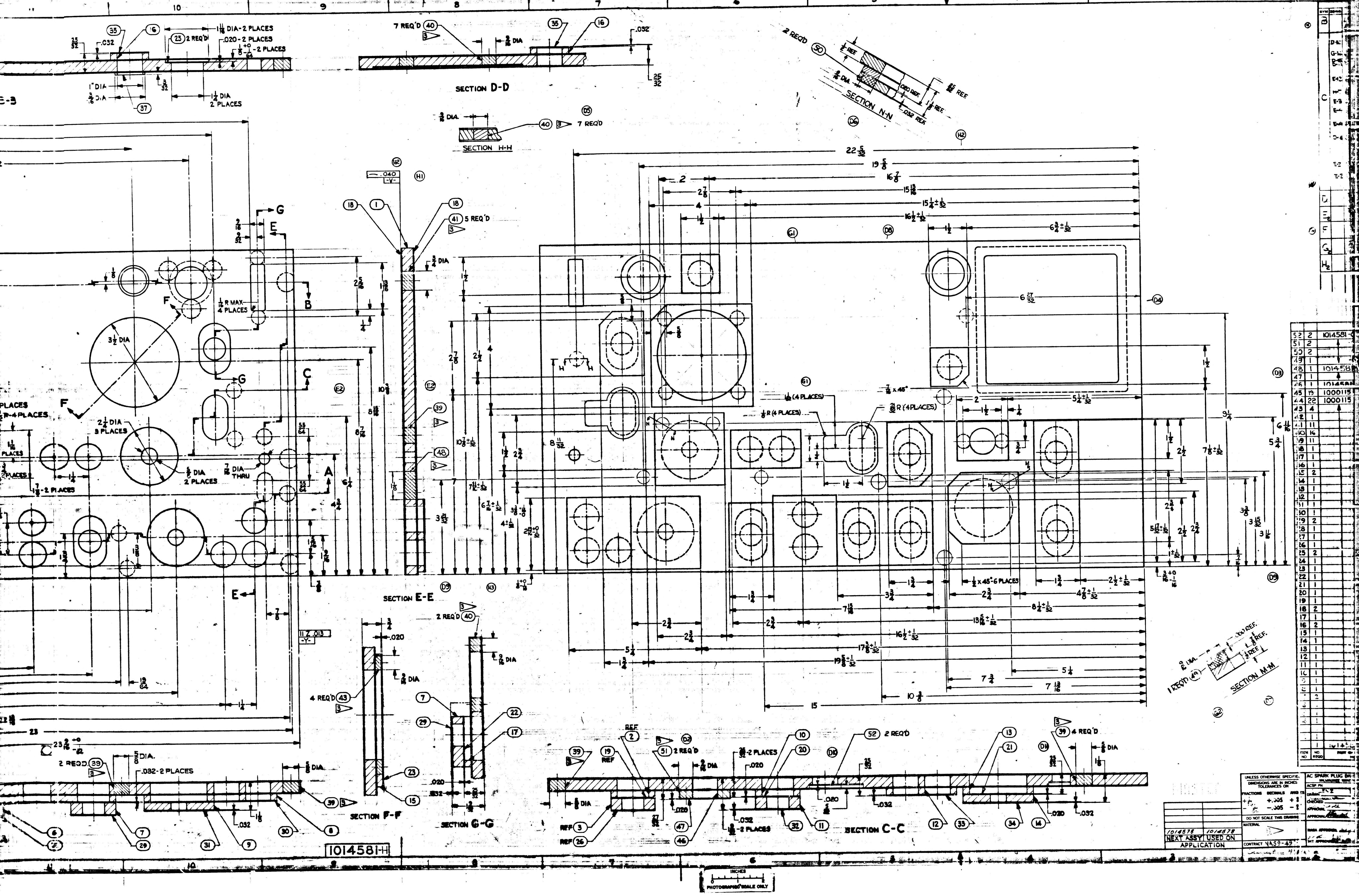
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G&N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO.
SIZE J
1014581
SCALE 1:1
SHEET 1 OF 2

13 MAY 63

1014581


SECTION D-D
SECTION H-H
SECTION N-N
SECTION E-E
SECTION F-F
SECTION G-G
SECTION C-C
SECTION M-M
7 REQ'D (40)
(40) 7 REQ'D
2 REQ'D (50)
(41) 5 REQ'D
4 REQ'D (43)
2 REQ'D (40)
2 REQ'D (39)
(51) 2 REQ'D
(52) 2 REQ'D
(39) 4 REQ'D
1 REQ'D (49)
$1\frac{1}{16}$ DIA-2 PLACES
(23) 2 REQ'D
.020-2 PLACES
.032-2 PLACES
$3\frac{1}{2}$ DIA
$2\frac{1}{4}$ DIA 3 PLACES
$\frac{5}{8}$ DIA 2 PLACES
$\frac{7}{16}$ DIA THRU
$\frac{1}{2}$ R MAX. 4 PLACES
$1\frac{1}{2}$ DIA 2 PLACES
$1\frac{1}{2}$ -2 PLACES
$\frac{1}{16}$ R (4 PLACES)
$\frac{1}{8}$ R (4 PLACES)
$\frac{3}{8}$ R (4 PLACES)
$\frac{7}{8}$ x 45°
$\frac{1}{2}$ x 45°-6 PLACES
$22\frac{5}{32}$
$19\frac{5}{8}$
$16\frac{7}{8}$
$15\frac{13}{16}$
$15\frac{1}{4}\pm\frac{1}{32}$
$16\frac{1}{2}\pm\frac{1}{32}$
$6\frac{3}{4}\pm\frac{1}{32}$
$6\frac{27}{32}$
$5\frac{1}{4}\pm\frac{1}{32}$
$9\frac{1}{4}$
$7\frac{5}{8}\pm\frac{1}{32}$
$17\frac{3}{8}\pm\frac{1}{32}$
$19\frac{5}{8}\pm\frac{1}{32}$
$13\frac{5}{16}\pm\frac{1}{32}$
$8\frac{1}{2}\pm\frac{1}{32}$
$4\frac{7}{8}\pm\frac{1}{32}$
$2\frac{1}{2}\pm\frac{1}{32}$
$7\frac{15}{16}$
$7\frac{13}{16}$
$10\frac{3}{8}$
15
23
$23\frac{3}{16}$
.032
.020
11 Z .013 -Y-
.040 -V-
REF
PHOTOGRAPHED SCALE ONLY
INCHES
A
B
C
E
F
G
1014581-H

1014578	1014578
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIE
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
+.005 −.005
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS9-49
AC SPARK PLUG
ACSP PN
DRAWN
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

1 MATERIAL:

ITEMS 1 THRU 7 AND ITEM 46:

HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .00 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052--39), 4.5 DENSITY CORE.

ITEMS 8 THRU 25 AND ITEMS 47 & 52:

.020 THK AL ALY PER QQ-A-355, TEMPER T-3 (TYPE 2024-T3) (ES-2104).

ITEMS 26 THRU 35:

.032 THK AL ALY PER QQ-A-355, TEMPER T-3 (TYPE 2024-T3) (ES-2104).

ITEM 36:

.00 THK AL ALY PER QQ-A-355, TEMPER T-3 (TYPE 2024-T3) (ES-2104).

ITEM 37:

AL ALY PER QQ-A-355, TEMPER T-3 (TYPE 2024-T3) (ES-2104).

ITEMS 38 THRU 43 AND 48 THRU 51:

AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4) (ES-2104).

ADHESIVE:

ADHESIVE FOR METALLIC CONSTRUCTION IS TO BE PER MIL-A-25463(ASG), TYPE II, CLASS 2.

UNLESS OTHERWISE SPECIFIED:

ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.

SURFACE ROUGHNESS MUST NOT EXCEED 125/√.

ALL EDGES ON SURFACE V MUST BE .030 TO .040 RADIUS

MUST BE FREE FROM BURRS.

FINISH:

1 CHEMICAL FILM PER MIL-C-5541 (ES-591).

APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).

2 APPLY TT-E-527 (ES-2602) LUSTERLESS ENAMEL (GREY), COLOR NO. 36231 OF FED-STD-595, TO FRONT AND SIDES OF PANEL, PER ND1002110.

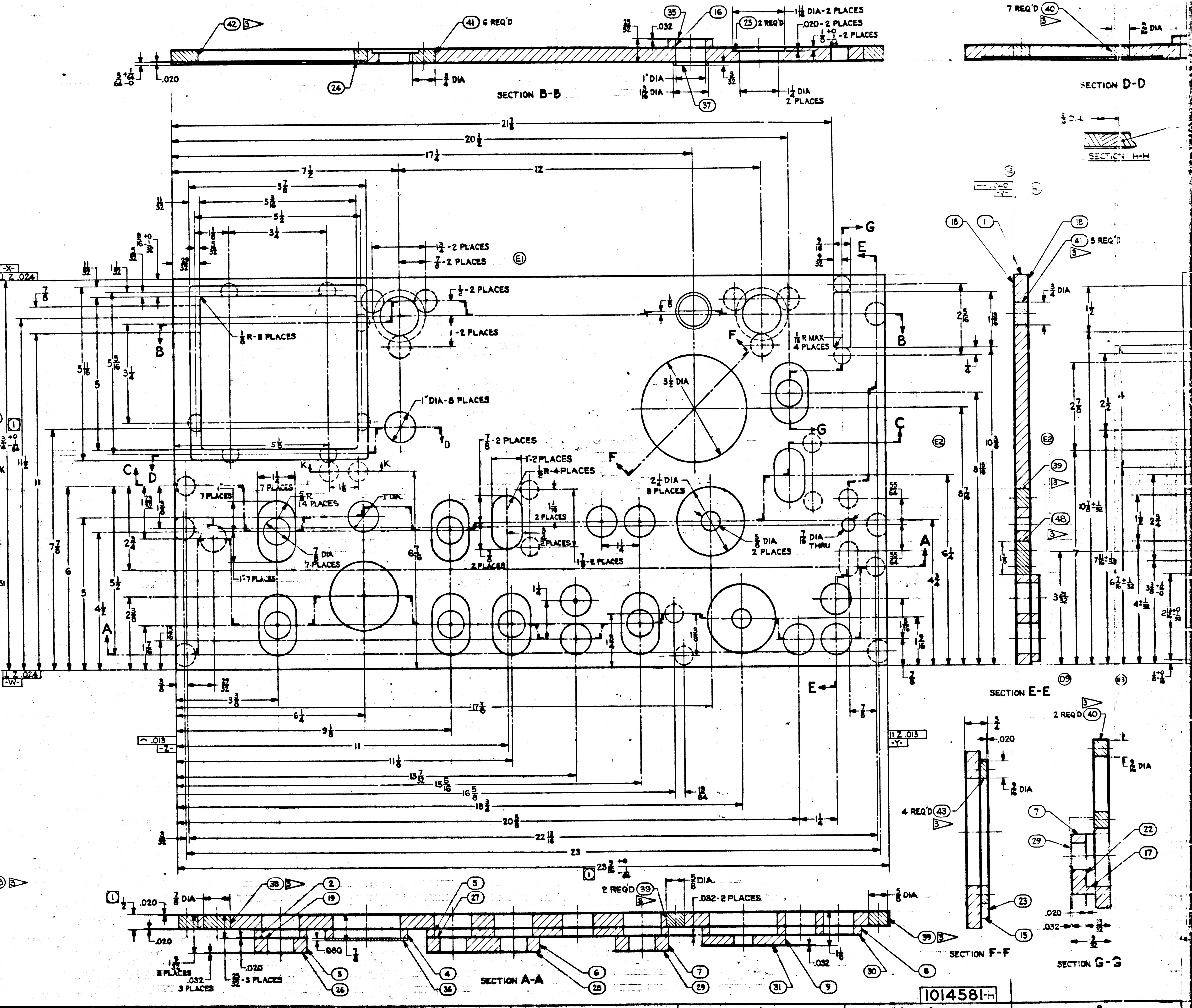
CHARACTERS, BORDER LINES, POSITION MARKS AND ARROWS ON FRONT OF PANEL TO BE SILK SCREENED PER ND1002112 USING ND1002111 LUSTERLESS (WHITE) ENAMEL, COLOR NO. 37875 OF FED-STD-595. UNLESS OTHERWISE SPECIFIED CHARACTERS TO BE 1/8 HIGH FUTURA DEMIBOLD PER ND 1002122. CENTRALIZE AS SHOWN. BORDER LINES, POSITION MARKS AND ARROWS TO BE 1/32 WIDE.

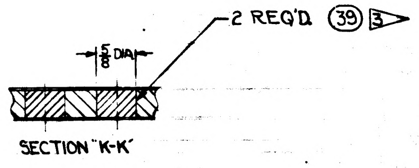
2 IDENTIFY USING DWG. NO., REVISION LETTER AND IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER MIL-STD-130 (ES-267). COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

CHARACTERS ON REAR OF PANEL, EXCEPT DWG. NO., REV. LTR. AND MFR'S SYMBOL, TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND1002019.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND1002177.

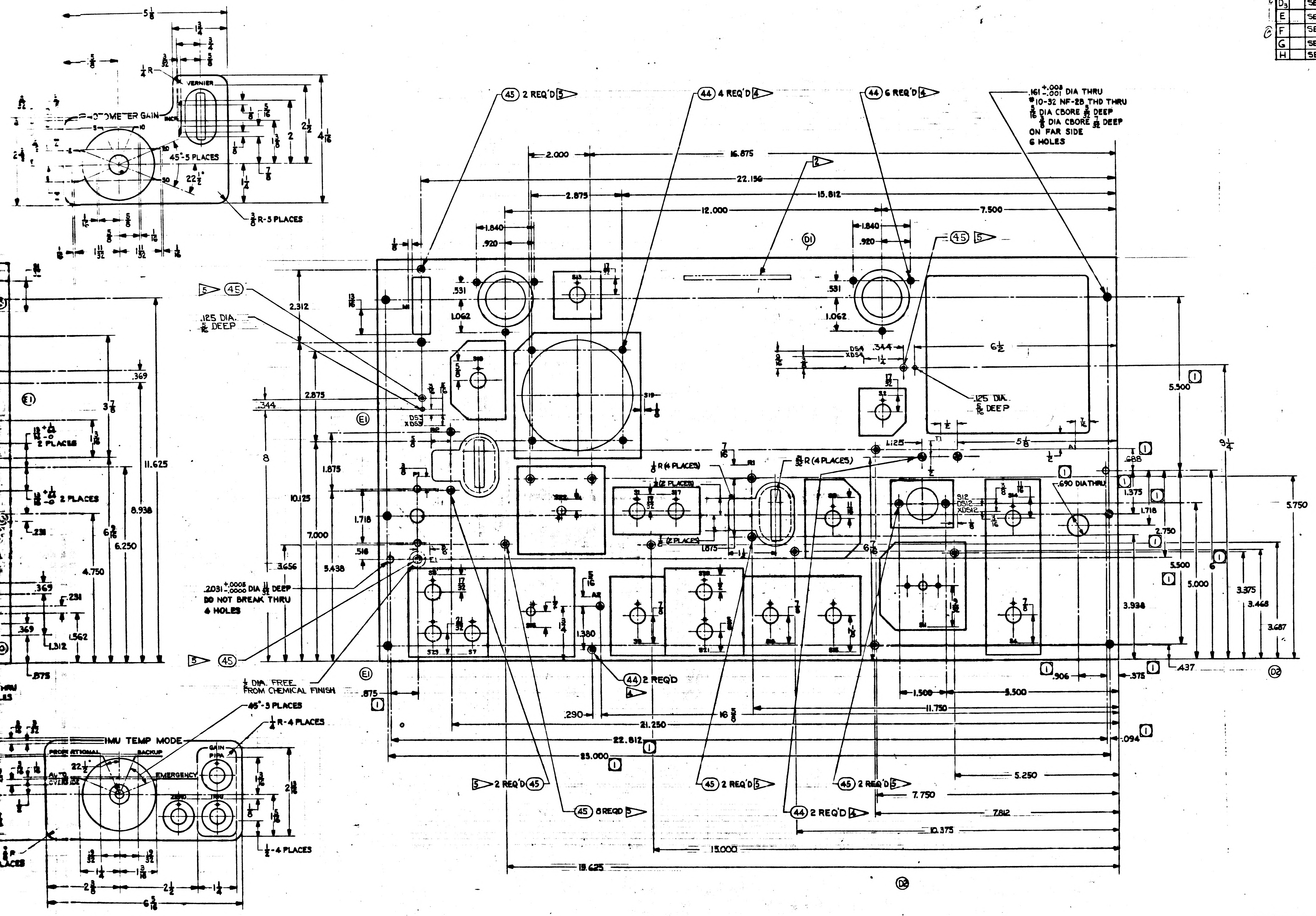
3 TOLERANCE FOR LOCATION OF ITEMS 38 THRU 43 AND 48 THRU 51 IS ±1/32 HOLE LOCATIONS SHALL BE AS SPECIFIED.


SECTION B-B
SECTION D-D
SECTION H-H
SECTION E-E
SECTION F-F
SECTION G-G
SECTION A-A
6 REQ'D
2 REQ'D
7 REQ'D
5 REQ'D
4 REQ'D
1 1/16 DIA-2 PLACES
.020-2 PLACES
1" DIA-8 PLACES
1/8 R-8 PLACES
3 1/2 DIA
2 1/4 DIA 3 PLACES
5/8 DIA 2 PLACES
7/16 DIA THRU
1/4 R MAX 4 PLACES
7/8 DIA 7 PLACES
.032-2 PLACES
21 7/8
20 1/2
17 1/4
12
23
-X-
-W-
-Y-
-Z-
1014581-H


2 REQ'D 39 3
5/8 DIA
SECTION "K-K"

1014581-H

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		SEE SHEET 1 FOR REVISIONS.			
D3		SEE SHEET 1 FOR REVS.		10/22/63	WK
E		SEE SHEET 1 FOR REVS.		10/22/63	WK
F		SEE SHEET 1 FOR REVS.		10/24/63	WK
G		SEE SHEET 1 FOR REVS.		11/25/63	WK
H		SEE SHEET 1 FOR REVS.		11/25/63	WK



VERNIER
PHOTOMETER GAIN
45°-5 PLACES
3/8 R-3 PLACES
45 2 REQ'D 5
44 4 REQ'D 4
44 6 REQ'D 4
.161 +.003 -.001 DIA THRU
10-32 NF-2B THD THRU
5/16 DIA CBORE 3/32 DEEP
3/8 DIA CBORE 7/32 DEEP
ON FAR SIDE
6 HOLES
16.875
22.156
15.812
12.000
7.500
.125 DIA. 1/8 DEEP
.2031 +.0005 -.0000 DIA 11/32 DEEP
DO NOT BREAK THRU
4 HOLES
1/4 DIA. FREE FROM CHEMICAL FINISH
1/8 R (4 PLACES)
3/32 R (4 PLACES)
.690 DIA THRU
5.750
44 2 REQ'D
45 6 REQ'D 5
45 2 REQ'D 5
44 2 REQ'D 4
21.250
22.812
23.000
19.625
15.000
10.375
7.812
7.750
5.250
11.750
5.500
IMU TEMP MODE
PROPORTIONAL
BACKUP
EMERGENCY
GAIN
PIPA
ZERO
TRIM
45°-3 PLACES
1/4 R-4 PLACES
1/4-4 PLACES

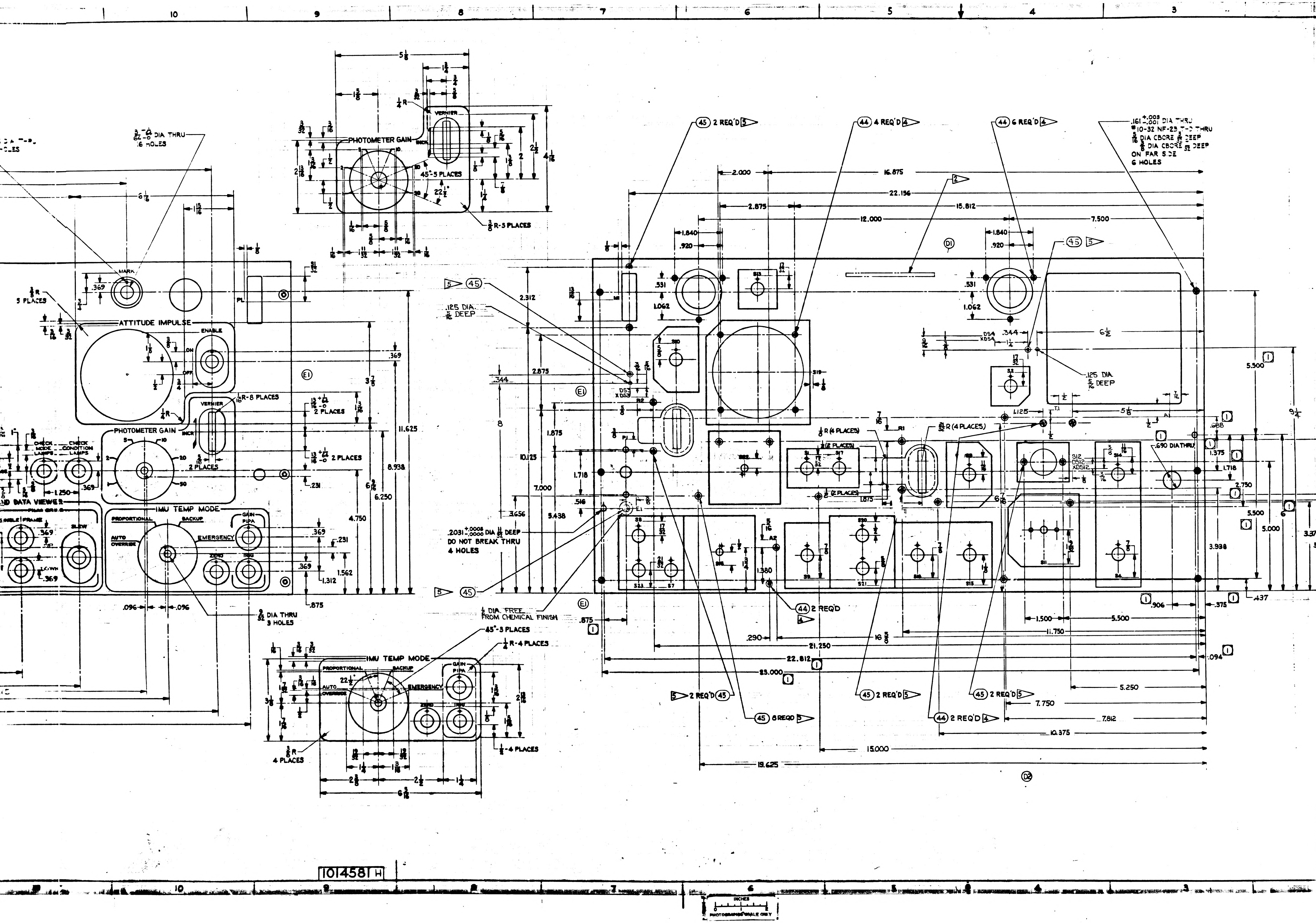
10 14581

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 3 MAY 63
CHECKED 13 MAY 63
APPROVAL Scholl 13 MAY 63
APPROVAL 13 MAY 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO.
SIZE J
1014581
SCALE 1:1
SHEET 2 OF 2



10
9
8
7
6
5
4
3
PHOTOMETER GAIN
VERNIER
INCR
45°-5 PLACES
$22\frac{1}{2}$°
$\frac{3}{8}$R-5 PLACES
$5\frac{1}{8}$
$2\frac{1}{2}$
$4\frac{1}{16}$
$\frac{3}{64}$ DIA THRU
6 HOLES
$6\frac{1}{8}$
$\frac{3}{8}$R
5 PLACES
MARK
PL
ATTITUDE IMPULSE
ENABLE
ON
OFF
$\frac{1}{16}$R-8 PLACES
CHECK MODE LAMPS
CHECK CONDITION LAMPS
2 PLACES
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN PIPA
ZERO
TRIG
AND DATA VIEWER
SLEW
DOWN
11.625
8.938
6.250
4.750
$\frac{9}{32}$ DIA THRU
3 HOLES
.096
.875
45°-5 PLACES
$\frac{1}{4}$R-4 PLACES
$\frac{1}{4}$-4 PLACES
$\frac{3}{8}$R
4 PLACES
$6\frac{5}{8}$
(45) 2 REQ'D 5
(44) 4 REQ'D 4
(44) 6 REQ'D 4
.161 +.003 -.001 DIA THRU
#10-32 NF-2B T-D THRU
$\frac{5}{16}$ DIA CBORE $\frac{3}{16}$ DEEP
$\frac{5}{8}$ DIA CBORE $\frac{5}{32}$ DEEP
ON FAR SIDE
6 HOLES
2.000
16.875
22.156
2.875
15.812
12.000
7.500
D1
.125 DIA.
$\frac{1}{16}$ DEEP
E1
M1
S13
S10
S19
DS4
XDS4
$6\frac{1}{2}$
S2
DS3
XDS3
R2
P1
R1
S22
S1
S17
$\frac{1}{8}$R (4 PLACES)
$\frac{5}{32}$R (4 PLACES)
(2 PLACES)
S12
DS12
XDS12
S14
.690 DIA THRU
5.500
5.750
$9\frac{1}{4}$
10.125
7.000
5.438
.2031 +.0008 -.0000 DIA $\frac{11}{32}$ DEEP
DO NOT BREAK THRU
4 HOLES
$\frac{1}{2}$ DIA. FREE FROM CHEMICAL FINISH
S8
S23
S7
S16
A2
S9
S20
S21
S18
S15
S11
S4
E1
5.000
3.938
3.375
3.168
3.687
.437
D2
(44) 2 REQ'D 4
.306
.375
1.500
5.500
11.750
.290
$16\frac{5}{8}$
21.250
22.812
23.000
.094
5 2 REQ'D (45)
(45) 6 REQ'D 5
(45) 2 REQ'D 5
(44) 2 REQ'D 4
(45) 2 REQ'D 5
5.250
7.750
7.812
10.375
15.000
19.625
D3

101458 H

AC SPARK PLUG DIVIS
MILWAUKEE, WISCO

GSP PN

DRAWN

CHECKED

APPROVAL

APPROVAL

NASA APPROVAL

T APPROVAL

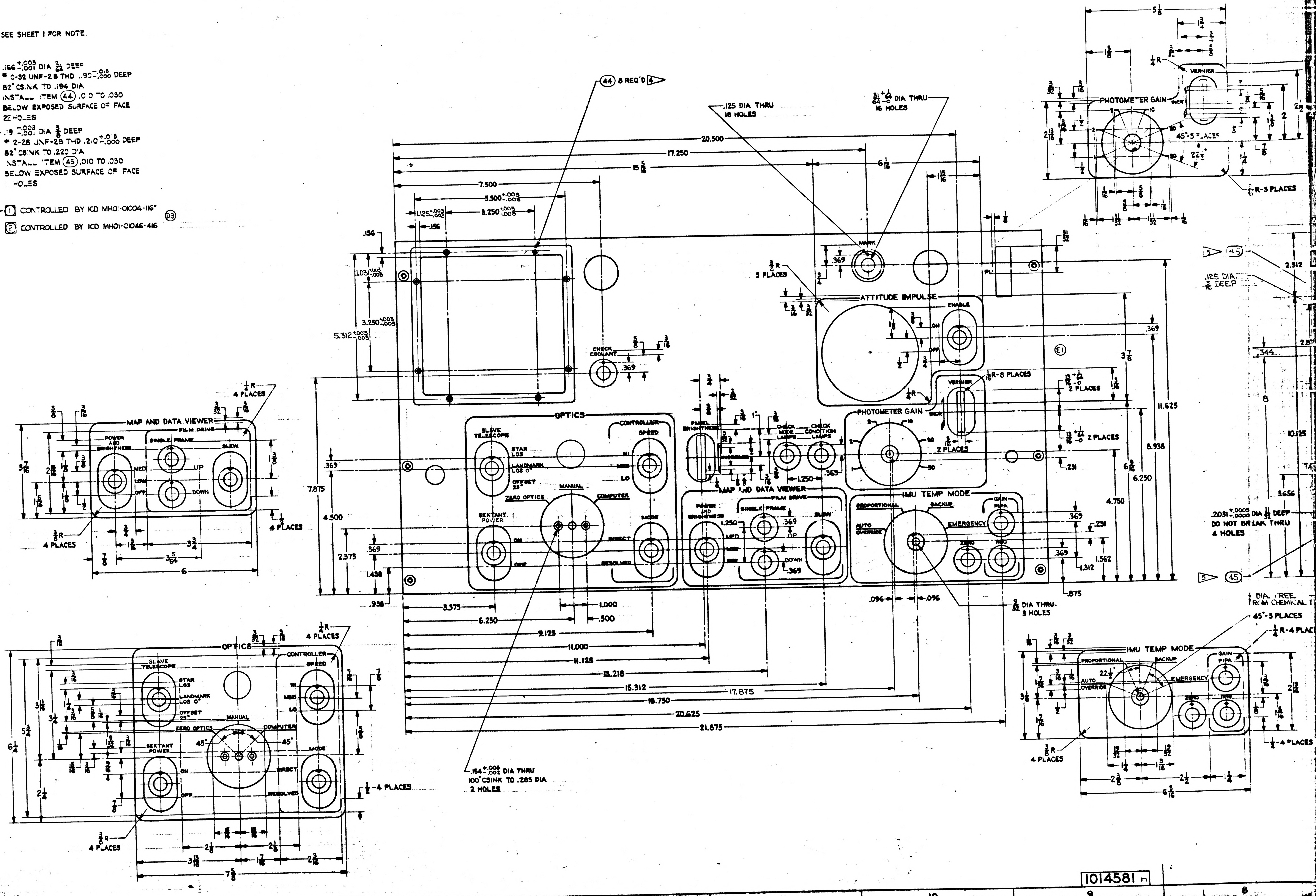
INCHES
PHOTOGRAPHIC SCALE ONLY

2 SEE SHEET 1 FOR NOTE.

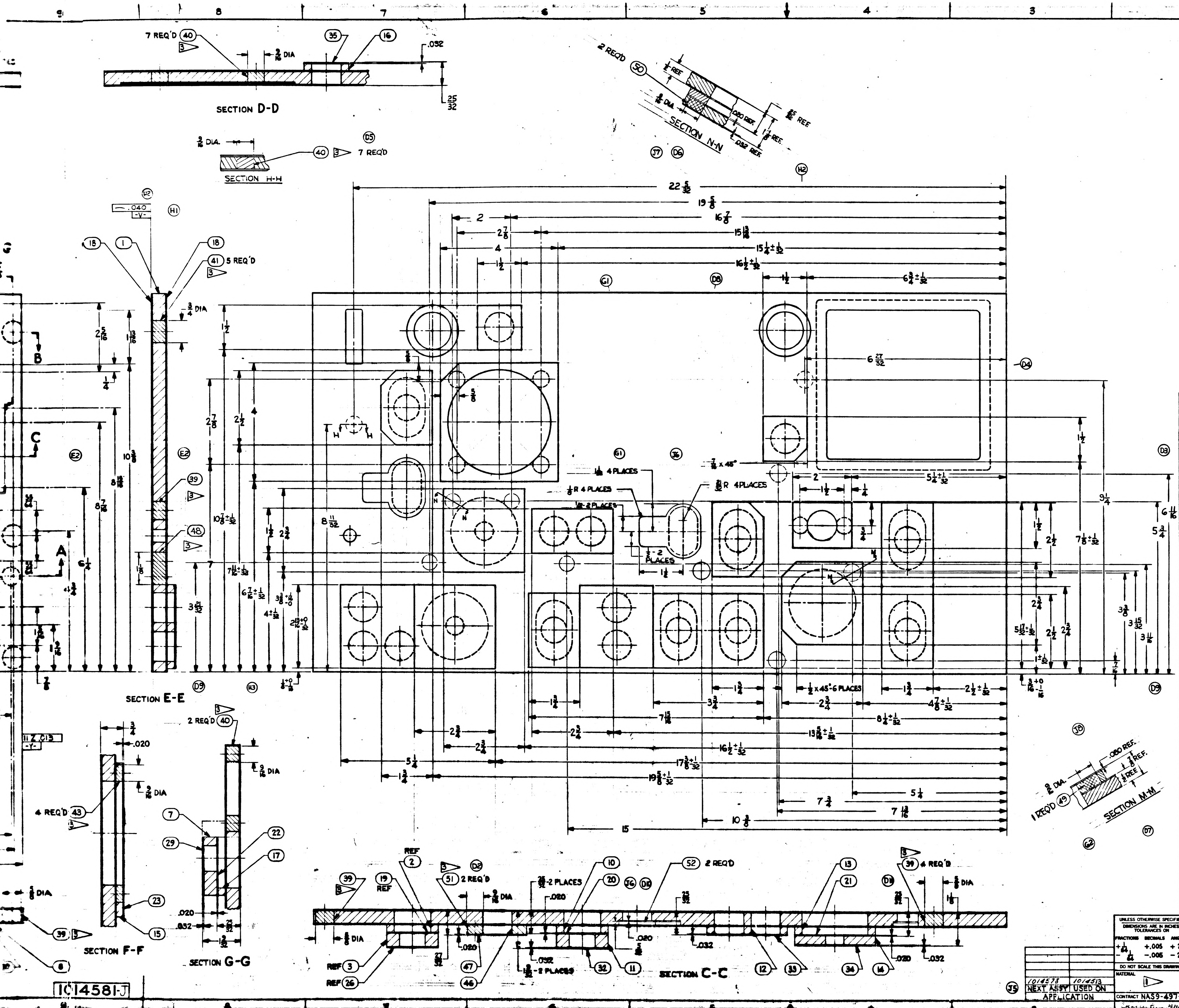
4 .166 $^{+.003}_{-.001}$ DIA $\frac{2}{64}$ DEEP
#10-32 UNF-2B THD .90 $^{+.015}_{-.000}$ DEEP
82° CSINK TO .194 DIA
INSTALL ITEM (44) .010 TO .030
BELOW EXPOSED SURFACE OF FACE
22 HOLES

5 .19 $^{+.003}_{-.001}$ DIA $\frac{3}{8}$ DEEP
2-28 UNF-2B THD .210 $^{+.015}_{-.000}$ DEEP
82° CSINK TO .220 DIA
INSTALL ITEM (45) .010 TO .030
BELOW EXPOSED SURFACE OF FACE
[illegible] HOLES

6 ① CONTROLLED BY ICD MH01-01004-116" D3
② CONTROLLED BY ICD MH01-01046-416



(44) 8 REQ'D 4
.125 DIA THRU 18 HOLES
$\frac{31}{64}$ $^{+\frac{1}{64}}_{-0}$ DIA THRU 16 HOLES
20.500
17.250
15 $\frac{5}{16}$
6 $\frac{1}{16}$
7.500
5.500 $^{+.003}_{-.003}$
3.250 $^{+.003}_{-.003}$
1.125 $^{+.003}_{-.003}$
.156
5.312 $^{+.003}_{-.003}$
CHECK COOLANT
MARK
ATTITUDE IMPULSE
ENABLE
ON
OFF
VERNIER
INCR
PHOTOMETER GAIN
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
MANUAL
ZERO OPTICS
COMPUTER
CONTROLLER
SPEED
HI
MED
LO
MODE
DIRECT
RESOLVED
SEXTANT POWER
MAP AND DATA VIEWER
FILM DRIVE
POWER AND BRIGHTNESS
SINGLE FRAME
SLEW
UP
DOWN
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN PIPA
ZERO
1.000
.500
3.375
6.250
9.125
11.000
11.125
13.218
15.312
17.875
18.750
20.625
21.875
11.625
8.938
6.250
4.750
7.875
4.500
2.375
1.438
.938
.369
.231
1.312
1.562
.875
.096
$\frac{3}{32}$ DIA THRU 3 HOLES
.154 $^{+.005}_{-.002}$ DIA THRU
100° CSINK TO .285 DIA
2 HOLES
$\frac{1}{4}$ R 4 PLACES
$\frac{3}{8}$ R 4 PLACES
$\frac{1}{2}$ 4 PLACES
45°-5 PLACES
$\frac{1}{4}$ R-5 PLACES
$\frac{1}{8}$ R-8 PLACES
$\frac{3}{8}$ R 5 PLACES
.125 DIA $\frac{1}{8}$ DEEP
.2031 $^{+.0005}_{-.0000}$ DIA $\frac{11}{32}$ DEEP
DO NOT BREAK THRU
4 HOLES
DIA FREE FROM CHEMICAL
1014581 H
INCHES
PHOTOGRAPHIC SCALE ONLY


SECTION D-D
7 REQ'D (40)
(35)
(16)
$\frac{3}{16}$ DIA
.032
$\frac{25}{32}$
SECTION H-H
$\frac{3}{16}$ DIA.
(40) 7 REQ'D
2 REQ'D (50)
SECTION N-N
.020 REF.
.032 REF.
(J7) (D6)
$22\frac{5}{32}$
$19\frac{5}{8}$
$16\frac{7}{8}$
$15\frac{13}{16}$
$15\frac{1}{4}\pm\frac{1}{32}$
$16\frac{1}{2}\pm\frac{1}{32}$
$6\frac{3}{4}\pm\frac{1}{32}$
$6\frac{27}{32}$
(G1) (D8) (D4) (D3) (D9) (H2) (H1) (H3) (J6)
$\frac{1}{16}$ R 4 PLACES
$\frac{1}{8}$ R 4 PLACES
$\frac{1}{8}$ R 2 PLACES
$\frac{3}{16}$ R 4 PLACES
$\frac{7}{16}$ x 45°
$\frac{1}{2}$ x 45°-6 PLACES
$\frac{3}{16}$-2 PLACES
$9\frac{1}{4}$
$7\frac{5}{8}\pm\frac{1}{32}$
$5\frac{1}{4}\pm\frac{1}{32}$
$5\frac{3}{4}$
$6\frac{11}{16}$
$17\frac{3}{8}\pm\frac{1}{32}$
$19\frac{5}{8}\pm\frac{1}{32}$
$13\frac{5}{16}\pm\frac{1}{32}$
$8\frac{1}{4}\pm\frac{1}{32}$
$4\frac{7}{8}\pm\frac{1}{32}$
$2\frac{1}{2}\pm\frac{1}{32}$
$7\frac{13}{16}$
$10\frac{3}{8}$
15
SECTION E-E
(18) (1) (18)
(41) 5 REQ'D
(39) (48)
.040 -V-
B
C
A
SECTION F-F
SECTION G-G
.020
.032
2 REQ'D (40)
4 REQ'D (43)
(7) (29) (22) (17) (23) (15) (8)
$\frac{9}{16}$ DIA
$\frac{5}{8}$ DIA
1 REQ'D (49)
SECTION M-M
.080 REF.
(J8) (G2) (D7)
SECTION C-C
(39)
(19) REF
(2) REF
(51) 2 REQ'D
(10) (20) (52) 2 REQ'D
(13) (21) (39) 4 REQ'D
$\frac{25}{32}$-2 PLACES
REF (3)
REF (26)
(47) (46) (32) (11) (12) (33) (34) (14)
(J5)

1014581-J

INCHES
PHOTOGRAPHIC SCALE ONLY

E2

SYM	ZONE	REVISIONS DESCRIPTION	CHG NO.	DATE	APPD
B		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.
C	D-12	(C1) 1" DIA. HOLE WAS 1" SQUARE HOLE.		AUG 63	
	G-16	(C2) ADDED NOTE 6			
	D-15 D-11	(C3) RELOCATED UP & DOWN MARKING IN MAP & DATA VIEWER GROUP.			
	E-12	(C4) ADDED SECTION K-K AND RELOCATED INSERTCORES			
	H-7	(C5) MODIFIED SECTION D-D			
	E-3	(C6) RELOCATED AI MARKING			
	E-4	(C7) RELOCATED T1 MARKING & RELATED MACHINED HOLES			
	E-4	(C8) RELOCATED SI2, DSI2 & XDSI2 MARKING			
	D-16	(C9) IN 3 DELETED COVER WITH CLEAR LACQUER FROM CHARACTERS ON REAR OF PANEL.			
	E-2	(C10) CHANGED ITEM 44 FROM 24 TO 22			
	E-2	(C11) CHANGED ITEM 45 FROM 8 TO 11 TDRR #02782		11/26/63	
D_{11}		REVISED PER TDRR NO. 03902		10/22/63	WH
E_2		REVISED PER TDRR NO. 03903		10/22/63	WH
F		REVISED PER TDRR NO. 04082		10/24/63	WH
G_2		REVISED PER TDRR NO. 04802		11/25/63	WH
H_2		REVISED PER TDRR NO. 04803		11/25/63	WK
J_{14}		REVISED PER TDRR NO. 06164		2/11/64	WH

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
52	2	1014581-052	FACE-PAD
51	2	-051	INSERT CORE PAD
50	2	-050	
49	1	-049	INSERT CORE PAD
48	1	1014581-048	INSERT-CORE, PANEL
47	1	-047	FACE-PAD
46	1	1014581-046	CORE-HONEYCOMB, PAD
45	19	1000115-3	
44	22	1000115-2	INSERT-THREADED, SELF-LOCKING
43	4	-043	INSERT-CORE, PAD
42	1	-042	
41	11	-041	
40	16	-040	
39	11	-039	
38	1	-038	INSERT-CORE, PANEL
37	1	-037	RING
36	1	-036	
35	2	-035	
34	1	-034	
33	1	-033	
32	1	-032	
31	1	-031	
30	1	-030	
29	2	-029	
28	1	-028	
27	1	-027	
26	1	-026	
25	2	-025	
24	1	-024	
23	1	-023	
22	1	-022	
21	1	-021	
20	1	-020	
19	1	-019	FACE-PAD
18	2	-018	FACE-PANEL
17	1	-017	
16	2	-016	
15	1	-015	
14	1	-014	
13	1	-013	
12	1	-012	
11	1	-011	
10	1	-010	
9	1	-009	
8	1	-008	
7	2	-007	
6	1	-006	
5	1	-005	
4	1	-004	
3	1	-003	
2	1	-002	CORE-HONEYCOMB, PAD
1	1	1014581-001	CORE-HONEYCOMB, PANEL

LIST OF PARTS AND MATERIALS

1014578	1014513
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$+\frac{1}{64}$	+.005	+ 2°
$-\frac{1}{64}$	-.005	- 2°

DO NOT SCALE THIS DRAWING
MATERIAL 1
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 3 MAY 63
CHECKED 13 MAY 63
APPROVAL Eric Scholl 13 MAY 63
APPROVAL 13 MAY 63
NASA APPROVAL 6-14-63
MIT APPROVAL 6-14-63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO.
SIZE J
1014581
SCALE 1:1
SHEET 1 OF 2

13 MAY 63

1014581 J

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327.

MATERIAL:
ITEMS 1 THRU 17 AND ITEM 46:
HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.
ITEMS 18 THRU 25 AND ITEMS 47 & 52: (J3)
.020 THK AL ALY PER QQ-A-362, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
ITEMS 26 THRU 35: (J3)
.032 THK AL ALY PER QQ-A-362, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
ITEM 36: (J3)
.[illegible] THK AL ALY PER QQ-A-362, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
ITEM 37: (J3)
AL ALY PER QQ-A-362, TEMPER T-3 (TYPE 2024-T3) (ES-2104).
ITEMS 38 THRU 43 AND 48 THRU 51:
AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4) (ES-2104).

ADHESIVE:
ADHESIVE FOR METALLIC CONSTRUCTION IS TO BE PER MIL-A-25463(ASG), TYPE II, CLASS 2.

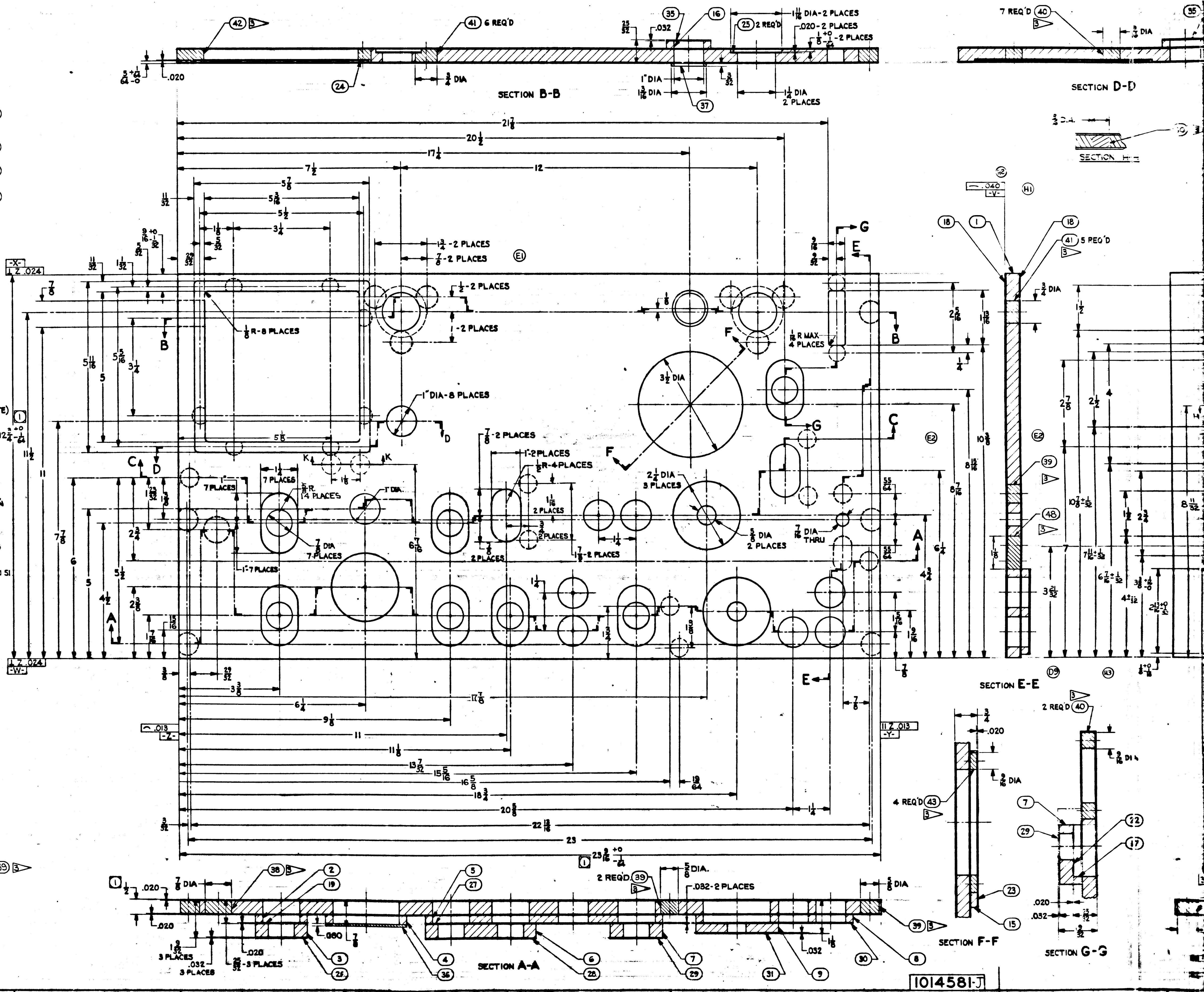
UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 125√.
ALL EDGES ON SURFACE V AND ON BUILD UPS ON OPPOSITE SIDE MUST BE .030 TO .040 RADIUS. (J1)
MUST BE FREE FROM BURRS.
FINISH:
① CHEMICAL FILM PER MIL-C-5541(ES-591).
APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).
② APPLY TT-E-527(ES-2602) LUSTERLESS ENAMEL (GREY), COLOR NO. 36231 OF FED-STD-595, TO FRONT AND SIDES OF PANEL, PER ND1002110.
② CHARACTERS, BORDER LINES, POSITION MARKS AND ARROWS ON FRONT OF PANEL TO BE SILK SCREENED PER ND1002112 USING ND1002111 LUSTERLESS (WHITE) ENAMEL, COLOR NO. 37875 OF FED-STD-595. UNLESS OTHERWISE SPECIFIED CHARACTERS TO BE 1/8 HIGH FUTURA DEMIBOLD PER ND 1002122. CENTRALIZE AS SHOWN. BORDER LINES, POSITION MARKS AND ARROWS TO BE 1/32 WIDE. (J9)
2 IDENTIFY USING DWG. NO. AND REVISION LETTER PER ND 1002019.

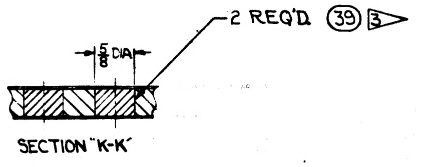
(J10)

(J11) CHARACTERS ON REAR OF PANEL, EXCEPT MFR'S SYMBOL, TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND 1002019.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND1002177.

3 TOLERANCE FOR LOCATION OF ITEMS 38 THRU 43 AND 48 THRU 51 IS ±1/32 HOLE LOCATIONS SHALL BE AS SPECIFIED.

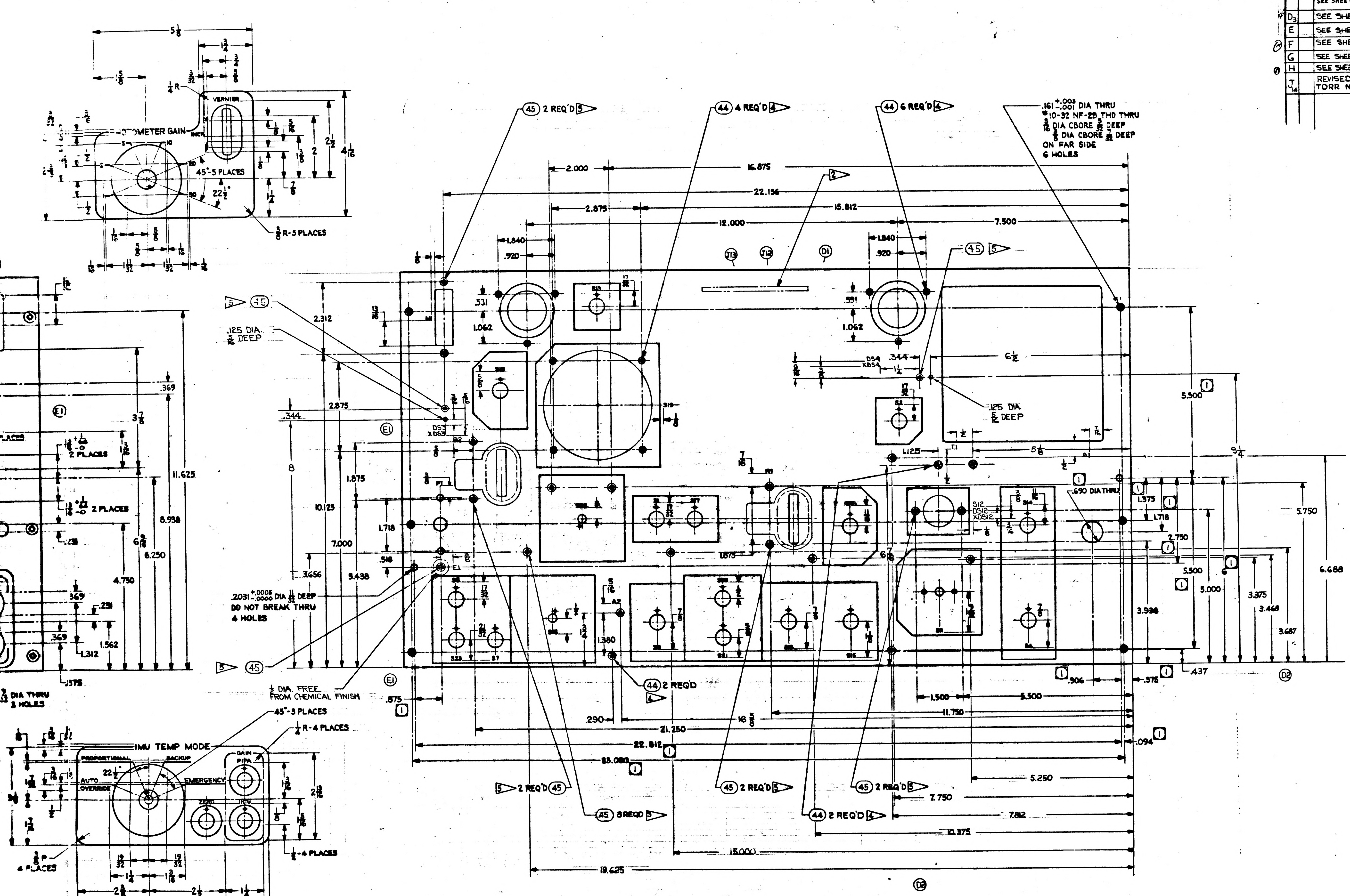

SECTION B-B
SECTION D-D
SECTION H-H
SECTION E-E
SECTION F-F
SECTION G-G
SECTION A-A
1" DIA-8 PLACES
3 1/2 DIA
2 1/4 DIA 3 PLACES
1/8 R-8 PLACES
21 7/8
20 1/2
17 1/4
12
23
23 9/16 +0 -1/64
-X- ⊥ Z .024
-W- ⊥ Z .024
-Z- ⌒ .013
-Y- ∥ Z .013
-V- ⌒ .040


2 REQ'D (39)
5/8 DIA
SECTION K-K

1014581-J

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

SYM	ZONE	REVISIONS TDRR 01629 DESCRIPTION	CHG NO.	DATE	APP'D
		SEE SHEET 1 FOR REVISIONS.			
D_3		SEE SHEET 1 FOR REVS.		10/22/63	WK
E		SEE SHEET 1 FOR REVS.		10/22/63	WK
F		SEE SHEET 1 FOR REVS.		10/24/63	WK
G		SEE SHEET 1 FOR REVS.		11/25/63	WK
H		SEE SHEET 1 FOR REVS.		11/25/63	WK
J_{14}		REVISED PER TDRR NO. 06164		2/14/64	WK



PHOTOMETER GAIN
VERNIER
INCR
45° 5 PLACES
22½°
⅜ R-5 PLACES
¼ R
(45) 2 REQ'D 5
(44) 4 REQ'D 4
(44) 6 REQ'D 4
.161 +.003 −.001 DIA THRU
10-32 NF-2B THD THRU
⅝ DIA CBORE ⅛ DEEP
⅜ DIA CBORE 7/32 DEEP
ON FAR SIDE
6 HOLES
.125 DIA. 1/16 DEEP
.2031 +.0005 −.0000 DIA 1/4 DEEP
DO NOT BREAK THRU
4 HOLES
1/16 DIA. FREE FROM CHEMICAL FINISH
.690 DIA THRU
(45) 5
(44) 2 REQ'D 4
5 2 REQ'D (45)
(45) 8 REQ'D 5
(45) 2 REQ'D 5
(44) 2 REQ'D 4
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN PIPA
ZERO
TRIG
45° 3 PLACES
¼ R-4 PLACES
⅜ R 4 PLACES
1/16 -4 PLACES
⅜ DIA THRU 3 HOLES
2 PLACES
16.875
22.156
15.812
12.000
7.500
2.000
2.875
1.840
.920
11.625
8.938
6.250
4.750
10.125
7.000
5.438
3.656
1.875
1.718
5.500
5.750
6.688
5.000
3.375
3.468
3.687
3.938
1.380
.875
.290
21.250
22.812
23.000
.094
.306
.375
.437
1.500
5.500
11.750
5.250
7.750
7.812
10.375
15.000
19.625
E1
D1
D2
D3
J12
J13
DS3 XDS3
DS4 XDS4
S12 DS12 XDS12
S13
S18
S19
S1
S17
S23
S7
S21
S16
S4
R1
T1
A1
A2

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 3 MAY 63
CHECKED Earl Scholl 13 MAY 63
APPROVAL 13 MAY 63
NASA APPROVAL
INT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO. SIZE J 1014581
SCALE 1:1 SHEET 2 OF 2

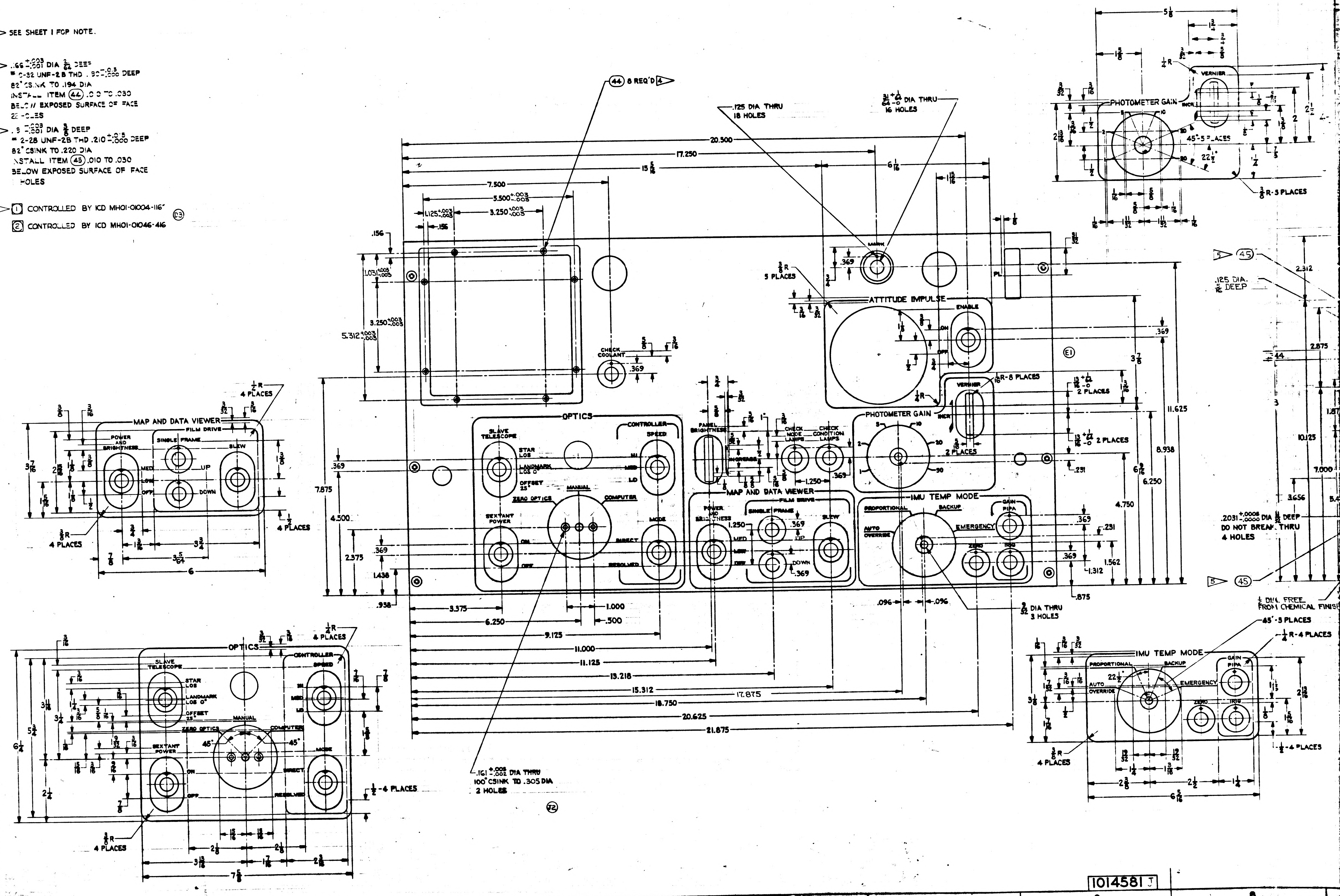
1014581 J

2 SEE SHEET 1 FOR NOTE.

4 .166 $^{+.003}_{-.001}$ DIA $\frac{2}{64}$ DEEP
* 0-32 UNF-2B THD .090 $^{+.015}_{-.000}$ DEEP
82° CSINK TO .194 DIA
INSTALL ITEM (44) .010 TO .030
BELOW EXPOSED SURFACE OF FACE
22 HOLES

3 .19 $^{+.003}_{-.001}$ DIA $\frac{3}{8}$ DEEP
* 2-28 UNF-2B THD .210 $^{+.015}_{-.000}$ DEEP
82° CSINK TO .220 DIA
INSTALL ITEM (45) .010 TO .030
BELOW EXPOSED SURFACE OF FACE
HOLES

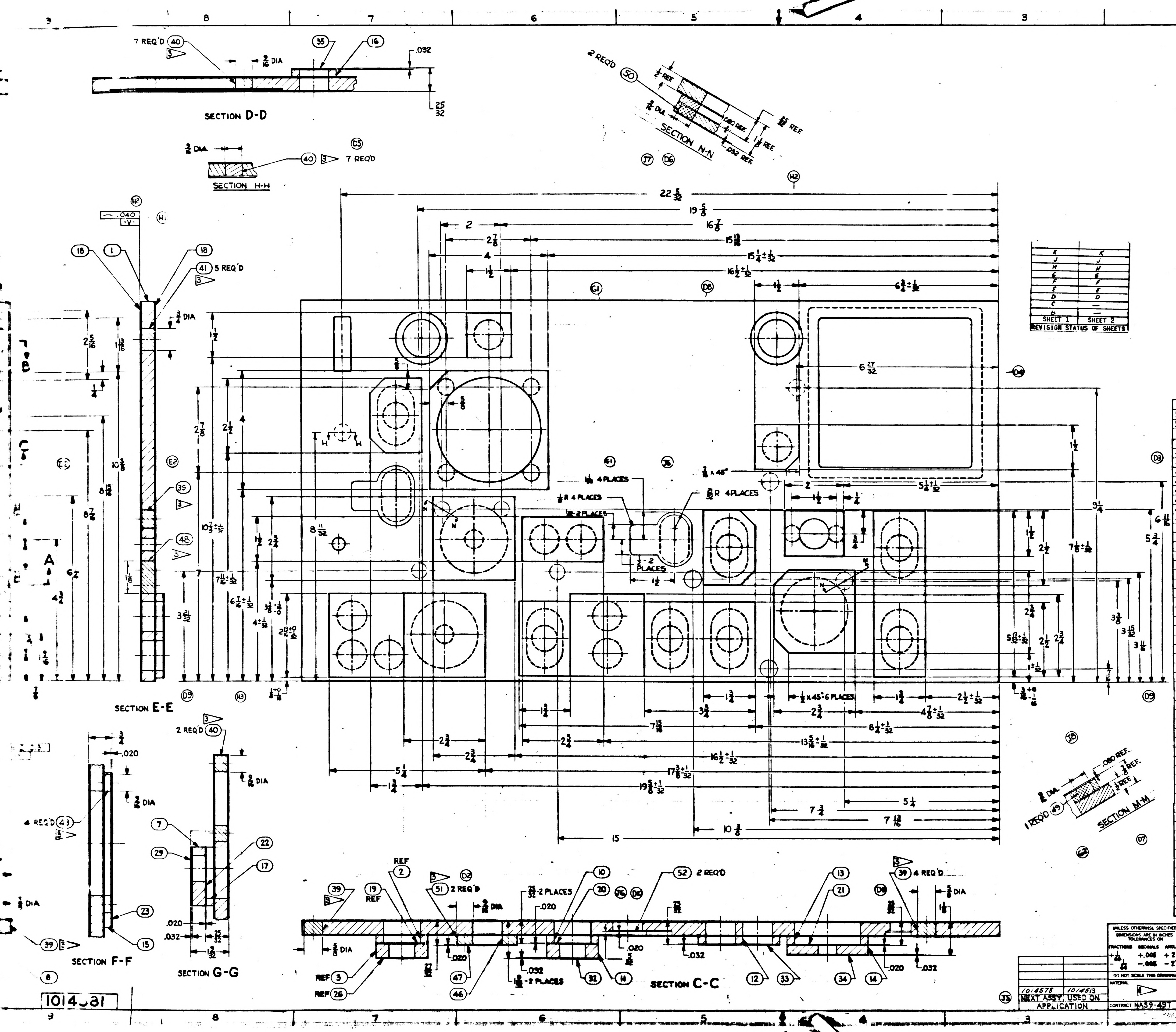
6 ① CONTROLLED BY ICD MH01-01004-116" (D3)
② CONTROLLED BY ICD MH01-01046-416



(44) 8 REQ'D 4
.125 DIA THRU
18 HOLES
$\frac{31}{64}$ $^{+\frac{1}{64}}_{-0}$ DIA THRU
16 HOLES
20.500
17.250
15 $\frac{5}{16}$
6 $\frac{1}{16}$
1 $\frac{15}{16}$
7.500
5.500 $^{+.003}_{-.003}$
1.125 $^{+.003}_{-.003}$
3.250 $^{+.003}_{-.003}$
.156
1.031 $^{+.003}_{-.003}$
3.250 $^{+.003}_{-.003}$
5.312 $^{+.003}_{-.003}$
CHECK COOLANT
.369
MARK
$\frac{3}{8}$R 5 PLACES
ATTITUDE IMPULSE
ENABLE
ON
OFF
PL
(E1)
PHOTOMETER GAIN
VERNIER
INCR
$\frac{1}{4}$R
$\frac{1}{16}$R-8 PLACES
2 PLACES
.251
3 $\frac{7}{8}$
11.625
8.938
6 $\frac{9}{16}$
6.250
4.750
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
CONTROLLER
SPEED
HI
MED
LO
ZERO OPTICS
MANUAL
COMPUTER
SEXTANT POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
1.250
MAP AND DATA VIEWER
FILM DRIVE
POWER AND BRIGHTNESS
SINGLE FRAME
SLEW
UP
DOWN
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN PIPA
ZERO
TRIG
.231
1.562
1.312
.875
7.875
4.500
2.375
1.438
.938
3.375
6.250
9.125
11.000
11.125
13.218
15.312
17.875
18.750
20.625
21.875
1.000
.500
.096
$\frac{3}{32}$ DIA THRU 3 HOLES
.161 $^{+.005}_{-.002}$ DIA THRU
100° CSINK TO .305 DIA
2 HOLES
(72)
$\frac{1}{2}$R 4 PLACES
$\frac{3}{8}$R 4 PLACES
$\frac{1}{2}$ 4 PLACES
6
3 $\frac{5}{64}$
3 $\frac{3}{4}$
1 $\frac{3}{16}$
3 $\frac{7}{16}$
$\frac{1}{2}$R 4 PLACES
$\frac{1}{2}$-4 PLACES
6 $\frac{1}{4}$
5 $\frac{3}{4}$
3 $\frac{11}{16}$
3 $\frac{1}{2}$
2 $\frac{1}{4}$
45°
2 $\frac{1}{8}$
3 $\frac{13}{16}$
1 $\frac{7}{16}$
2 $\frac{3}{8}$
7 $\frac{5}{8}$
5 $\frac{1}{8}$
1 $\frac{3}{4}$
$\frac{1}{4}$R
2 $\frac{1}{2}$
2
2 $\frac{13}{16}$
45°-5 PLACES
22 $\frac{1}{2}$°
$\frac{3}{8}$R-5 PLACES
5 (45)
.125 DIA. $\frac{3}{16}$ DEEP
2.312
2.875
.44
10.125
7.000
3.656
.2031 $^{+.0005}_{-.0000}$ DIA $\frac{1}{2}$ DEEP
DO NOT BREAK THRU
4 HOLES
$\frac{1}{4}$ DIA FREE FROM CHEMICAL FINISH
45°-5 PLACES
$\frac{1}{4}$R-4 PLACES
$\frac{1}{4}$-4 PLACES
$\frac{3}{8}$R 4 PLACES
2 $\frac{3}{8}$
2 $\frac{1}{2}$
1 $\frac{1}{4}$
6 $\frac{5}{16}$

1014581 J

INCHES
PHOTOGRAPHIC SCALE ONLY


SECTION D-D
7 REQ'D (40)
(35)
(16)
.032
$\frac{3}{16}$ DIA
$\frac{25}{32}$
SECTION H-H
$\frac{3}{16}$ DIA
(40) 7 REQ'D
2 REQ'D (50)
SECTION N-N
.080 REF.
.032 REF.
SECTION E-E
(18) (1) (18)
(41) 5 REQ'D
$\frac{3}{4}$ DIA
(39)
(48)
B
A
$22\frac{5}{32}$
$19\frac{5}{8}$
$16\frac{7}{8}$
$15\frac{13}{16}$
$15\frac{1}{4}\pm\frac{1}{32}$
$16\frac{1}{2}\pm\frac{1}{32}$
$6\frac{3}{4}\pm\frac{1}{32}$
$6\frac{27}{32}$
$\frac{1}{16}$ 4 PLACES
$\frac{1}{8}$ R 4 PLACES
$\frac{3}{8}$ R 4PLACES
$\frac{1}{8}$ x 45°
$\frac{1}{8}$ x 45°-6 PLACES
15
$10\frac{3}{8}$
$7\frac{3}{4}$
$7\frac{13}{16}$
$5\frac{1}{4}$
SECTION M-M
1 REQ'D (49)
$\frac{3}{8}$ DIA
.080 REF.
SECTION F-F
4 REQ'D (43)
(7) (29) (22) (17) (23) (15)
2 REQ'D (40)
$\frac{5}{16}$ DIA
$\frac{3}{16}$ DIA
.020
.032
(39)
SECTION G-G
SECTION C-C
REF (2)
(19) REF
(51) 2 REQ'D
(10) (20)
(52) 2 REQ'D
(13) (21)
(39) 4 REQ'D
$\frac{25}{32}$-2 PLACES
REF (3)
REF (26)
(47) (46) (32) (11) (12) (33) (34) (14)
.020
.032

K	K
J	J
H	H
G	G
F	F
E	E
D	D
C	—
B	—
SHEET 1	SHEET 2

REVISION STATUS OF SHEETS

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APP'D
B		UPGRADED FOR CLASS A RELEASE		6-N 63	E.L.
C	D-12	Ⓒ₁ 1" DIA. HOLE WAS 1" SQUARE HOLE.		AUG 63	
	G-16	Ⓒ₂ ADDED NOTE 6			
	D-15 D-11	Ⓒ₃ RELOCATED UP & DOWN MARKING IN MAP & DATA VIEWER GROUP.			
	E-12	Ⓒ₄ ADDED SECTION K-K AND RELOCATED INSERTCORES			
	H-7	Ⓒ₅ MODIFIED SECTION D-D			
	E-3	Ⓒ₆ RELOCATED AI MARKING			
	E-4	Ⓒ₇ RELOCATED T MARKING & RELATED MACHINED HOLES			
	E-4	Ⓒ₈ RELOCATED SI2, DSI2 & XDSI2 MARKING			
	D-16	Ⓒ₉ IN B DELETED 'COVER WITH CLEAR LACQUER FROM CHARACTERS ON REAR OF PANEL.			
	E-2	Ⓒ₁₀ CHANGED ITEM 44 FROM 24 TO 22			
	E-2	Ⓒ₁₁ CHANGED ITEM 45 FROM 8 TO 11 TDRR 02782		11/25/63	
D_{11}		REVISED PER TDRR NO. 03902		10/22/63	WK
E_2		REVISED PER TDRR NO. 03903		10/22/63	WK
F		REVISED PER TDRR NO. 04082		10/24/63	WK
G_2		REVISED PER TDRR NO. 04802		11/25/63	WK
H_2		REVISED PER TDRR NO. 04803		11/25/63	WK
J_{14}		REVISED PER TDRR NO. 06164		2/11/64	WK
K		REVISION STATUS CHANGED PER TDRR 07385		10 APR 64	J.K.

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
52	2	1014581-052	FACE-PAD
51	2	-051	INSERT CORE PAD
50	2	-050	
49	1	-C49	INSERT CORE PAD
48	1	1014581-048	INSERT-CORE, PANEL
47	1	-047	FACE-PAD
46	1	1014581-046	CORE-HONEYCOMB, PAD
45	19	1000115-3	
44	22	1000115-2	INSERT-THREADED, SELF-LOCKING
43	4	-043	INSERT-CORE, PAD
42	1	-042	
41	11	-041	
40	16	-040	
39	11	-039	
38	1	-038	INSERT-CORE, PANEL
37	1	-037	RING
36	1	-036	
35	2	-035	
34	1	-034	
33	1	-033	
32	1	-032	
31	1	-031	
30	1	-030	
29	2	-029	
28	1	-028	
27	1	-027	
26	1	-026	
25	2	-025	
24	1	-024	
23	1	-023	
22	1	-022	
21	1	-021	
20	1	-020	
19	1	-019	FACE-PAD
18	2	-018	FACE-PANEL
17	1	-017	
16	2	-016	
15	1	-015	
14	1	-014	
13	1	-018	
12	1	-012	
11	1	-011	
10	1	-010	
9	1	-009	
8	1	-008	
7	2	-007	
6	1	-006	
5	1	-005	
4	1	-004	
3	1	-003	
2	1	-002	CORE-HONEYCOMB, PAD
1	1	1014581-001	CORE-HONEYCOMB, PANEL

LIST OF PARTS AND MATERIALS

1014578	1014513
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$+\frac{1}{64}$	+.005	+2°
$-\frac{1}{64}$	-.005	-2°

DO NOT SCALE THIS DRAWING

MATERIAL ▷

CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 3 MAY 63
CHECKED 13 MAY 63
APPROVAL Eric Scholl 13 MAY 63
APPROVAL 13 MAY 63
NASA APPROVAL 6-4-63
NT APPROVAL 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO.
SIZE J
1014581
SCALE 1/1
SHEET 1 OF 2

1014581 K

1014581

2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327.

1 MATERIAL:
ITEMS 1 THRU 17 AND ITEM 46:
HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .00 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.
(1) ITEMS 18 THRU 25 AND ITEMS 47 & 52: (J3)
.020 THK AL ALY PER QQ-A-362, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
(1) ITEMS 26 THRU 35: (J3)
.032 THK AL ALY PER QQ-A-362, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
(1) ITEM 36: (J3)
.100 THK AL ALY PER QQ-A-362, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
(1) ITEM 37: (J3)
AL ALY PER QQ-A-362, TEMPER T-3 (TYPE 2024-T3) (ES-2104).
ITEMS 38 THRU 43 AND 48 THRU 51: (D1)
AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4)(ES-2104).

ADHESIVE:
ADHESIVE FOR METALLIC CONSTRUCTION IS TO BE PER MIL-A-25463(ASG), TYPE II, CLASS 2.

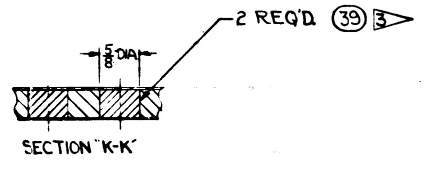
UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 125√.
ALL EDGES ON SURFACE V AND ON BUILD UPS ON OPPOSITE SIDE MUST BE .030 TO .040 RADIUS. (J1)
MUST BE FREE FROM BURRS.
FINISH:
(1) CHEMICAL FILM PER MIL-C-5541(ES-591).
APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).
(2) APPLY TT-E-527(ES-2602) LUSTERLESS ENAMEL (GREY), COLOR NO. 36231 OF FED-STD-595, TO FRONT AND SIDES OF PANEL, PER ND1002110.
(2) CHARACTERS, BORDER LINES, POSITION MARKS AND ARROWS ON FRONT OF PANEL TO BE SILK SCREENED PER ND1002112 USING ND1002111 LUSTERLESS (WHITE) ENAMEL, COLOR NO. 37875 OF FED-STD-595. UNLESS OTHERWISE SPECIFIED CHARACTERS TO BE 1/8 HIGH FUTURA DEMIBOLD PER ND 1002122. CENTRALIZE AS SHOWN. BORDER LINES, POSITION MARKS AND ARROWS TO BE 1/32 WIDE. (J9)
2 IDENTIFY USING DWG. NO. AND REVISION LETTER PER ND 1002019.

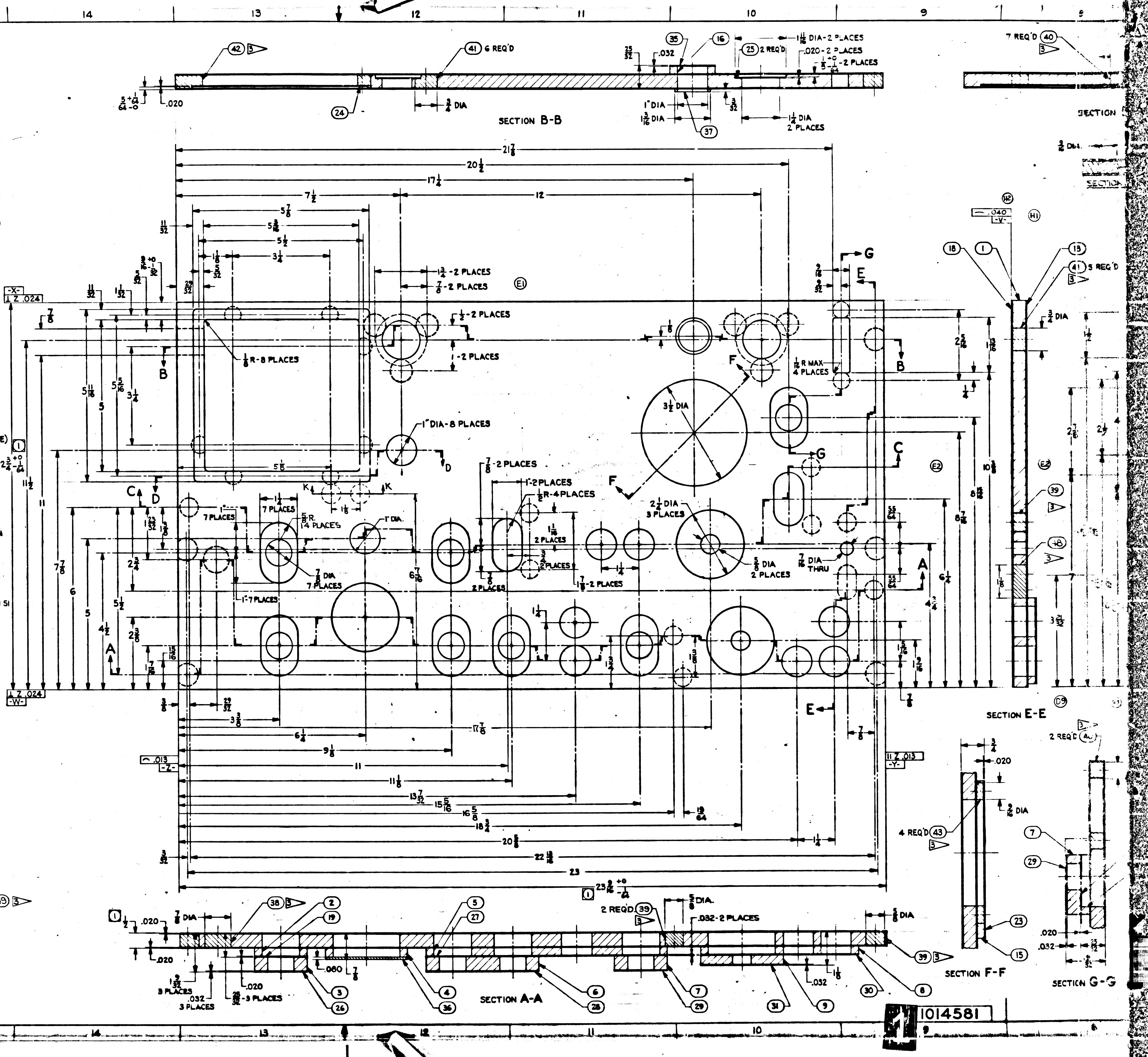
(J10)

(J11) CHARACTERS ON REAR OF PANEL, EXCEPT MFR'S SYMBOL, TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND 1002019.

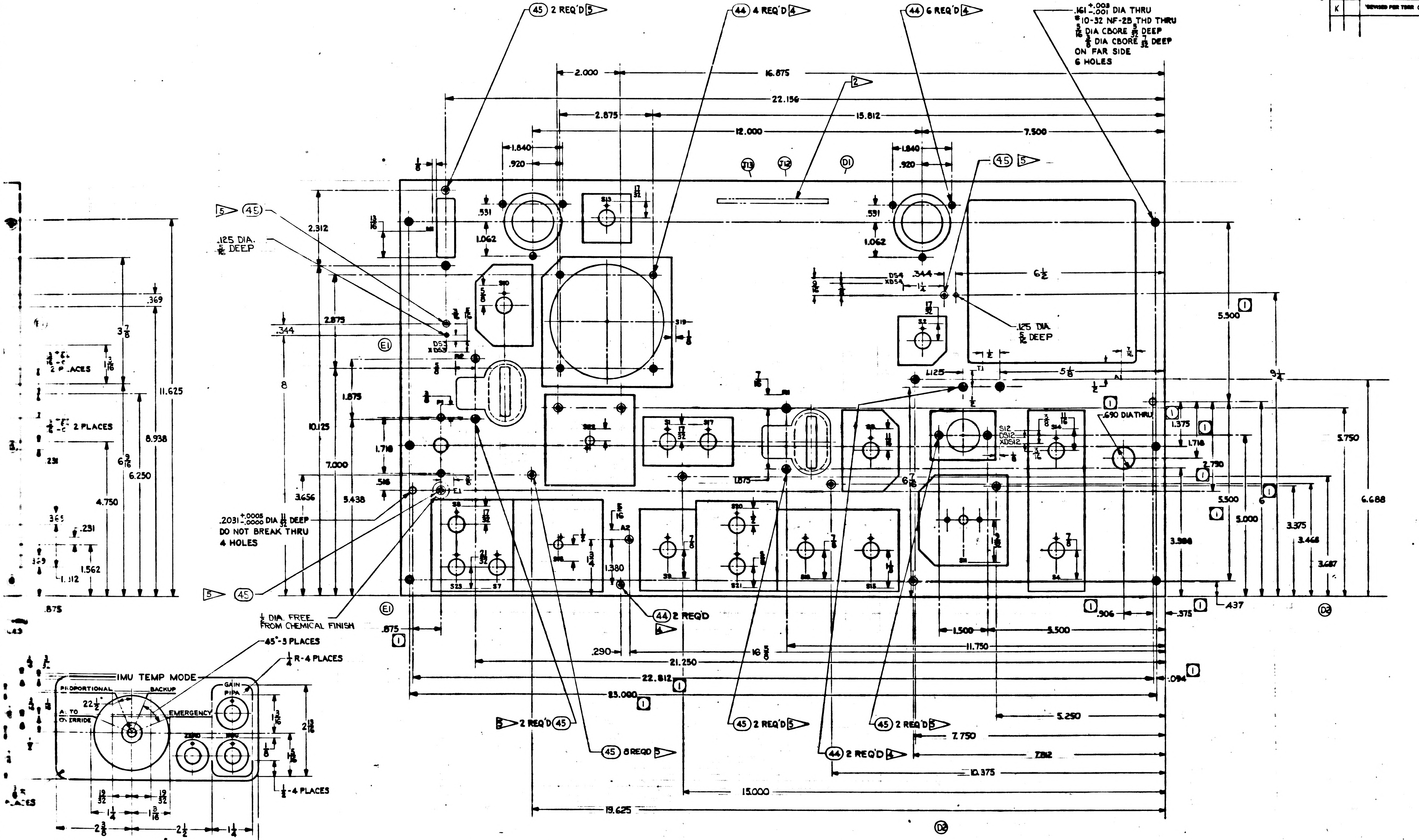
BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND1002177.

3 TOLERANCE FOR LOCATION OF ITEMS 38 THRU 43 AND 48 THRU 51 IS ±1/32 HOLE LOCATIONS SHALL BE AS SPECIFIED.


2 REQ'D (39) 3
5/8 DIA
SECTION "K-K"


SECTION B-B
(42) 3
(41) 6 REQ'D
(24)
.020
3/4 DIA
1" DIA
1 3/16 DIA
(37)
(35) (16) (25) 2 REQ'D
1 1/16 DIA-2 PLACES
.020-2 PLACES
1 1/4 DIA 2 PLACES
7 REQ'D (40)
SECTION
21 7/8
20 1/2
17 1/4
12
7 1/2
5 7/8
5 3/8
5 1/2
3 1/4
-X-
⊥ Z .024
-W-
1/8 R-8 PLACES
1 3/4-2 PLACES
7/8-2 PLACES
1/2-2 PLACES
-2 PLACES
1" DIA-8 PLACES
3 1/2 DIA
1/16 R MAX 4 PLACES
B
C
D
E
F
G
K
7/8-2 PLACES
1-2 PLACES
1/2 R-4 PLACES
2 1/4 DIA 3 PLACES
5/8 DIA 2 PLACES
7/16 DIA THRU
1" DIA.
7/8 DIA 7 PLACES
1-7 PLACES
1 1/4 7 PLACES
5/8 R 14 PLACES
1 1/16 2 PLACES
1 7/8-2 PLACES
6 1/4
9 1/8
11
11 1/8
13 7/32
15 5/16
16 5/8
18 3/4
20 5/8
22 13/16
23
23 9/16 +0 -1/64
-Z-
-Y-
⊥ Z .013
SECTION E-E
(18) (1) (13) (41) 5 REQ'D
3/4 DIA
(39) (48)
SECTION F-F
4 REQ'D (43)
9/16 DIA
(23) (15)
SECTION G-G
(7) (29)
SECTION A-A
(38) 3 (2) (19) (5) (27)
2 REQ'D (39) 3
.032-2 PLACES
(3) (26) (4) (36) (6) (28) (7) (29) (31) (9) (30) (8) (39)
1 1/32 3 PLACES
.032 3 PLACES
29/32-3 PLACES
.060
1014581

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APP'D
		SEE SHEET 1 FOR REVISIONS.			
D3		SEE SHEET 1 FOR REVS.		10/22/63	WK
E		SEE SHEET 1 FOR REVS.		10/22/63	WK
F		SEE SHEET 1 FOR REVS.		10/24/63	WK
G		SEE SHEET 1 FOR REVS.		11/25/63	WK
H		SEE SHEET 1 FOR REVS.		11/25/63	WK
J14		REVISED PER TDRR NO. 06164		2/14/64	
K		REVISED PER TDRR 07385		10 APR 64	



(45) 2 REQ'D 5
(44) 4 REQ'D 4
(44) 6 REQ'D 4
.161 +.003 -.001 DIA THRU
* 10-32 NF-2B THD THRU
5/16 DIA CBORE 5/32 DEEP
3/8 DIA CBORE 7/32 DEEP
ON FAR SIDE
6 HOLES
2.000
16.875
22.156
2.875
15.812
12.000
7.500
1.840
.920
2
J13
J12
D1
(45) 5
5 (45)
.125 DIA. 5/16 DEEP
2.312
.531
1.062
S13
S10
S19
DS4 XDS4
.344
6 1/2
5.500
S2
.125 DIA. 5/16 DEEP
2.875
.344
DS3 XDS3
E1
8
10.125
7.000
5.438
3.656
1.875
1.718
.516
.369
3 7/8
11.625
8.938
6 9/16
6.250
4.750
1.562
1.312
.231
.875
2 PLACES
S23
S1
S17
S12 DS12 XDS12
S14
.690 DIA THRU
1.375
1.718
2.750
5 1/8
9 1/4
1.125
5.750
6.688
5.500
5.000
3.375
3.468
3.687
3.388
6 7/16
1.875
S8
S7
S18
S9
S20
S21
S16
S15
S11
S4
A2
1.380
.2031 +.0005 -.0000 DIA 11/32 DEEP
DO NOT BREAK THRU
4 HOLES
5 (45)
1/2 DIA. FREE FROM CHEMICAL FINISH
45°-3 PLACES
1/4 R-4 PLACES
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
22 1/2°
EMERGENCY
GAIN
PIPA
ZERO
1 3/16
2 13/16
1/8
1 5/16
1/2-4 PLACES
19/32
19/32
1 1/4
1 3/16
2 3/8
2 1/2
1 1/4
6 5/16
(44) 2 REQ'D 4
E1
.875
1
.906
.375
.437
D2
1.500
3.500
11.750
.290
16 5/8
21.250
22.812
.094
23.000
5 2 REQ'D (45)
(45) 8 REQ'D 5
(45) 2 REQ'D 5
(45) 2 REQ'D 5
(44) 2 REQ'D 4
5.250
7.750
7.812
10.375
15.000
19.625
D2

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN C. LENZ DATE 3 MAY 63
CHECKED 13 MAY 63
APPROVAL Scholl 13 MAY 63
APPROVAL 13 MAY 63
NASA APPROVAL 6-19-63
MIT APPROVAL 6-14-63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO. | SIZE J | 1014581

SCALE 1:1 | SHEET 2 OF 2

2

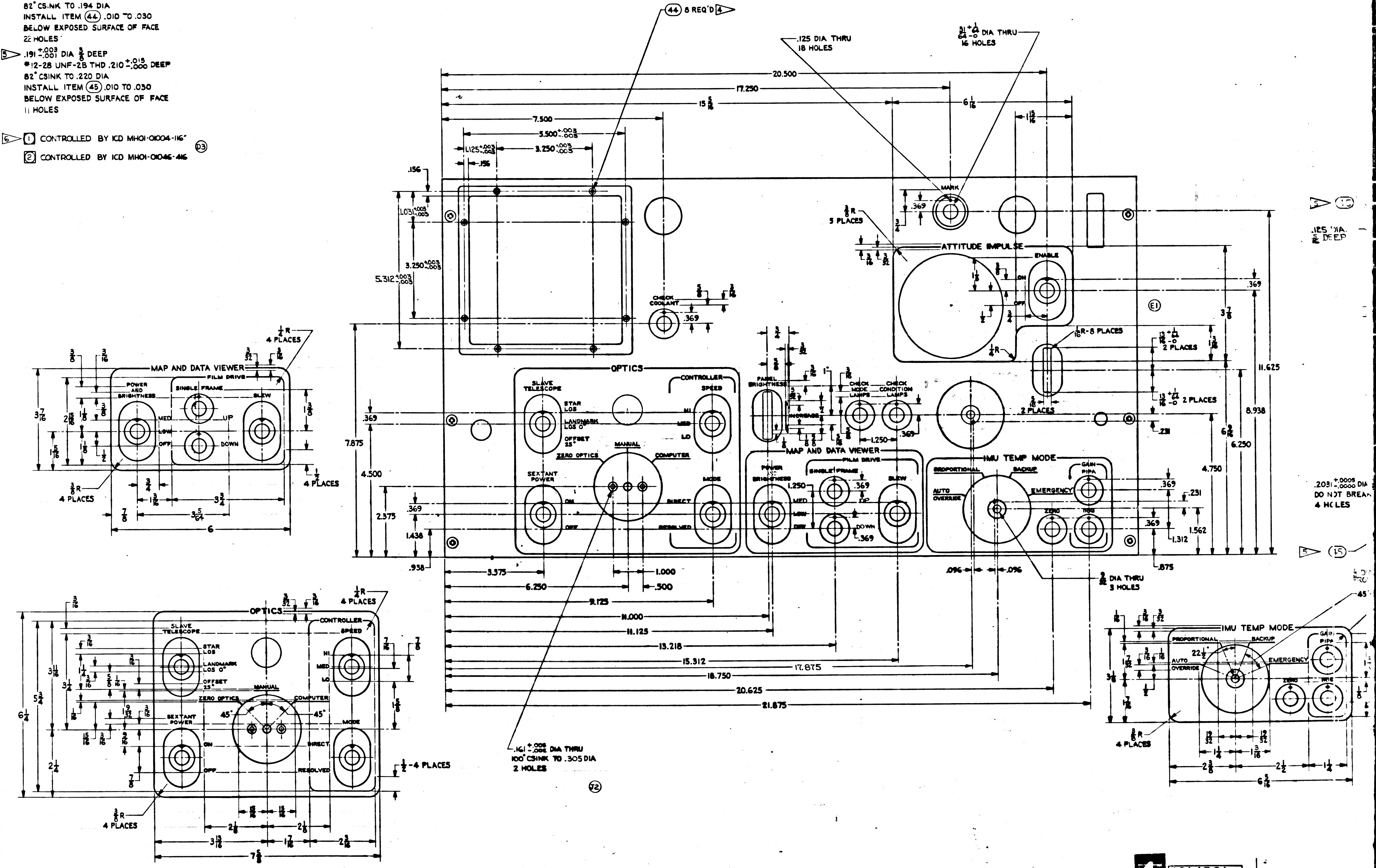
1014581

2 SEE SHEET I FOR NOTE.

4 $.166^{+.003}_{-.001}$ DIA $\frac{21}{64}$ DEEP
#10-32 UNF-2B THD $.190^{+.015}_{-.000}$ DEEP
82° CSINK TO .194 DIA
INSTALL ITEM (44) .010 TO .030
BELOW EXPOSED SURFACE OF FACE
22 HOLES

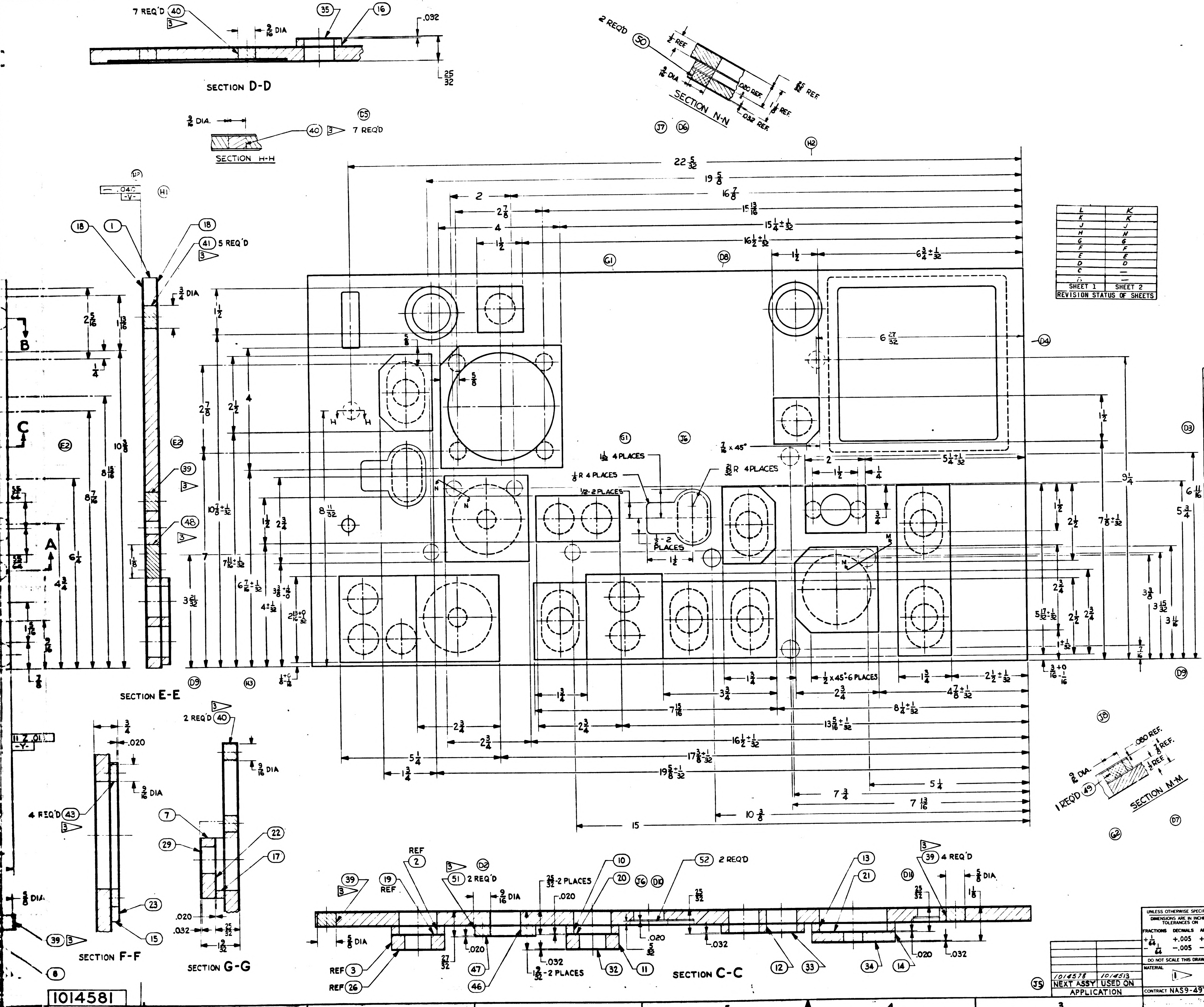
5 $.191^{+.003}_{-.001}$ DIA $\frac{3}{8}$ DEEP
#12-28 UNF-2B THD $.210^{+.015}_{-.000}$ DEEP
82° CSINK TO .220 DIA
INSTALL ITEM (45) .010 TO .030
BELOW EXPOSED SURFACE OF FACE
11 HOLES

6 1 CONTROLLED BY ICD MH01-01004-116"
2 CONTROLLED BY ICD MH01-01046-416 (D3)



16
15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A
(44) 8 REQ'D 4
.125 DIA THRU
18 HOLES
$\frac{31}{64}$ DIA THRU
16 HOLES
20.500
17.250
15 $\frac{5}{16}$
6 $\frac{1}{16}$
1 $\frac{15}{16}$
7.500
5.500
3.250
1.125
.156
1.031
3.250
5.312
CHECK COOLANT
.369
MARK
$\frac{3}{8}$R
5 PLACES
ATTITUDE IMPULSE
ENABLE
ON
OFF
$\frac{1}{16}$R-8 PLACES
2 PLACES
11.625
8.938
6.250
4.750
3 $\frac{7}{8}$
(E1)
.125 DIA.
$\frac{5}{8}$ DEEP
MAP AND DATA VIEWER
FILM DRIVE
POWER AND BRIGHTNESS
SINGLE FRAME
SLEW
MED
LOW
OFF
UP
DOWN
$\frac{1}{4}$R
4 PLACES
$\frac{3}{8}$R
4 PLACES
$\frac{1}{2}$
4 PLACES
6
3 $\frac{5}{64}$
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
CONTROLLER
SPEED
HI
MED
LO
ZERO OPTICS
MANUAL
COMPUTER
SEXTANT POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
1.250
IMU TEMP MODE
PROPORTIONAL
BACKUP
GAIN PIPA
AUTO OVERRIDE
EMERGENCY
ZERO
TRIG
7.875
4.500
2.375
1.438
.938
.369
3.375
6.250
9.125
11.000
11.125
13.218
15.312
17.875
18.750
20.625
21.875
1.000
.500
.096
.096
.875
.231
1.312
1.562
$\frac{3}{32}$ DIA THRU
3 HOLES
$.161^{+.006}_{-.002}$ DIA THRU
100° CSINK TO .305 DIA
2 HOLES
(72)
$.2031^{+.0005}_{-.0000}$ DIA
DO NOT BREAK
4 HOLES
5 (15)
45°
22 $\frac{1}{2}$°
$\frac{1}{2}$-4 PLACES
7 $\frac{5}{8}$
6 $\frac{1}{4}$
5 $\frac{3}{4}$
6 $\frac{5}{16}$

1 1014581


SECTION D-D
7 REQ'D (40)
(35)
(16)
.032
$\frac{9}{16}$ DIA
$\frac{25}{32}$
2 REQ'D (50)
SECTION N-N
$\frac{1}{2}$ REF
$\frac{3}{16}$ DIA
.080 REF
$\frac{25}{32}$ REF
$\frac{1}{8}$ REF
.032 REF
SECTION H-H
$\frac{9}{16}$ DIA.
(40) 7 REQ'D
(18) (1) (18)
(41) 5 REQ'D
$\frac{3}{4}$ DIA
B
C
A
SECTION E-E
(39)
(48)
$22\frac{5}{32}$
$19\frac{5}{8}$
$16\frac{7}{8}$
$15\frac{13}{16}$
$15\frac{1}{4}\pm\frac{1}{32}$
$16\frac{1}{2}\pm\frac{1}{32}$
$6\frac{3}{4}\pm\frac{1}{32}$
$6\frac{27}{32}$
$\frac{1}{2}$ 4 PLACES
$\frac{1}{8}$R 4 PLACES
1/2-2 PLACES
$\frac{21}{32}$R 4 PLACES
$\frac{7}{8}$ x 45°
$\frac{3}{4}$-2 PLACES
$\frac{1}{2}$ x 45°-6 PLACES
$9\frac{1}{4}$
$7\frac{1}{8}\pm\frac{1}{32}$
$6\frac{11}{16}$
$5\frac{3}{4}$
$7\frac{15}{16}$
$8\frac{1}{4}\pm\frac{1}{32}$
$13\frac{5}{16}\pm\frac{1}{32}$
$16\frac{1}{2}\pm\frac{1}{32}$
$17\frac{3}{8}\pm\frac{1}{32}$
$19\frac{5}{8}\pm\frac{1}{32}$
$5\frac{1}{4}$
$7\frac{3}{4}$
$7\frac{13}{16}$
$10\frac{3}{8}$
15
SECTION M-M
1 REQ'D (49)
.080 REF.
$\frac{1}{8}$ REF.
$\frac{1}{2}$ REF.
2 REQ'D (40)
4 REQ'D (43)
SECTION F-F
SECTION G-G
(7) (29) (22) (17) (23) (15)
(39) (8)
SECTION C-C
REF (2)
(19) REF
(51) 2 REQ'D
$\frac{25}{32}$-2 PLACES
(10) (20)
(52) 2 REQ'D
(13) (21)
(39) 4 REQ'D
$\frac{5}{8}$ DIA
REF (3)
REF (26)
(47) (46) (32) (11) (12) (33) (34) (14)
$\frac{3}{32}$-2 PLACES
1014581

L	K
K	K
J	J
H	H
G	G
F	F
E	E
D	D
C	—
B	—
SHEET 1	SHEET 2

REVISION STATUS OF SHEETS

REVISIONS

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
B		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.
C	D-12	(C1) 1" DIA. HOLE WAS 1" SQUARE HOLE.		AUG 63	
	G-16	(C2) ADDED NOTE 6			
	D-15 D-11	(C3) RELOCATED UP & DOWN MARKING IN MAP & DATA VIEWER GROUP.			
	E-12	(C4) ADDED SECTION K-K AND RELOCATED INSERTCORES			
	H-7	(C5) MODIFIED SECTION D-D			
	E-3	(C6) RELOCATED AI MARKING			
	E-4	(C7) RELOCATED TI MARKING & RELATED MACHINED HOLES			
	E-4	(C8) RELOCATED S12, DS12 & XDS12 MARKING			
	D-16	(C9) IN 2▷ DELETED COVER WITH CLEAR LACQUER FROM CHARACTERS ON REAR OF PANEL.			
	E-2	(C10) CHANGED ITEM 44 FROM 24 TO 22			
	E-2	(C11) CHANGED ITEM 45 FROM 9 TO 11			
		TDRR #02782		1/28/63	
D_{11}		REVISED PER TDRR NO. 03902		10/22/63	WH
E_2		REVISED PER TDRR NO. 03903		10/22/63	WH
F		REVISED PER TDRR NO. 04082		10/24/63	WH
G_2		REVISED PER TDRR NO. 04802		11/25/63	WH
H_2		REVISED PER TDRR NO. 04803		11/25/63	WK
J_{14}		REVISED PER TDRR NO. 06164		2/11/64	WK
K		REVISION STATUS CHANGED PER TDRR 07385		10 APR 64	J.K
L_1		REVISED PER TDRR 12539		25 SEP 64	JWP CHP

ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
52	2	1014581-052	FACE - PAD
51	2	-051	INSERT CORE PAD
50	2	-050	
49	1	-049	INSERT CORE PAD
48	1	1014581-048	INSERT-CORE, PANEL
47	1	-047	FACE - PAD
46	1	1014581-046	CORE-HONEYCOMB, PAD
45	19	1000115-3	
44	22	1000115-2	INSERT-THREADED, SELF-LOCKING
43	4	-043	INSERT-CORE, PAD
42	1	-042	
41	11	-041	
40	16	-040	
39	11	-039	
38	1	-038	INSERT-CORE, PANEL
37	1	-037	RING
36	1	-036	
35	2	-035	
34	1	-034	
33	1	-033	
32	1	-032	
31	1	-031	
30	1	-030	
29	2	-029	
28	1	-028	
27	1	-027	
26	1	-026	
25	2	-025	
24	1	-024	
23	1	-023	
22	1	-022	
21	1	-021	
20	1	-020	
19	1	-019	FACE - PAD
18	2	-018	FACE - PANEL
17	1	-017	
16	2	-016	
15	1	-015	
14	1	-014	
13	1	-013	
12	1	-012	
11	1	-011	
10	1	-010	
9	1	-009	
8	1	-008	
7	2	-007	
6	1	-006	
5	1	-005	
4	1	-004	
3	1	-003	
2	1	-002	CORE-HONEYCOMB, PAD
1	1	1014581-001	CORE-HONEYCOMB, PANEL

LIST OF PARTS AND MATERIALS

1014578	1014513
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$+\frac{1}{64}$ $-\frac{1}{64}$	+.005 −.005	+ 2° − 2°

DO NOT SCALE THIS DRAWING

MATERIAL 1▷

CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN	C. LENZ	3 MAY 63
CHECKED		13 MAY 63
APPROVAL		13 MAY 63
APPROVAL		13 MAY
NASA APPROVAL		
MIT APPROVAL		

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO. | SIZE | 1014581

SCALE 1:1 | SHEET 1 OF 2

1014581

2/1014581

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327.

1 MATERIAL:
ITEMS 1 THRU 17 AND ITEM 46:
HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.
ITEMS 18 THRU 25 AND ITEMS 47 & 52: (J3)
.020 THK AL ALY PER QQ-A-362, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
ITEMS 26 THRU 35: (J3)
.032 THK AL ALY PER QQ-A-362, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
ITEM 36: (J3)
.100 THK AL ALY PER QQ-A-362, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
ITEM 37: (J3)
AL ALY PER QQ-A-362, TEMPER T-3 (TYPE 2024-T3) (ES-2104).
(D1) ITEMS 38 THRU 43 AND 48 THRU 51:
AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4)(ES-2104).

ADHESIVE:
ADHESIVE FOR METALLIC CONSTRUCTION IS TO BE PER MIL-A-25463(ASG), TYPE II, CLASS 2.

UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 125√.
ALL EDGES ON SURFACE V AND ON BUILD UPS ON OPPOSITE SIDE MUST BE .030 TO .040 RADIUS. (J1)
MUST BE FREE FROM BURRS.
FINISH:
1 CHEMICAL FILM PER MIL-C-5541(ES-591).
APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).
2 APPLY TT-E-527(ES-2602) LUSTERLESS ENAMEL (GREY), COLOR NO. 36231 OF FED-STD-595, TO FRONT AND SIDES OF PANEL, PER ND1002110.
2 CHARACTERS, BORDER LINES, POSITION MARKS AND ARROWS ON FRONT OF PANEL TO BE SILK SCREENED PER ND1002112 USING ND1002111 LUSTERLESS (WHITE) ENAMEL, COLOR NO. 37875 OF FED-STD-595. UNLESS (J9) OTHERWISE SPECIFIED CHARACTERS TO BE 1/8 HIGH FUTURA DEMIBOLD PER ND 1002122. CENTRALIZE AS SHOWN. BORDER LINES, POSITION MARKS AND ARROWS TO BE 1/32 WIDE.

2 IDENTIFY USING DWG. NO. AND REVISION LETTER PER ND 1002019.

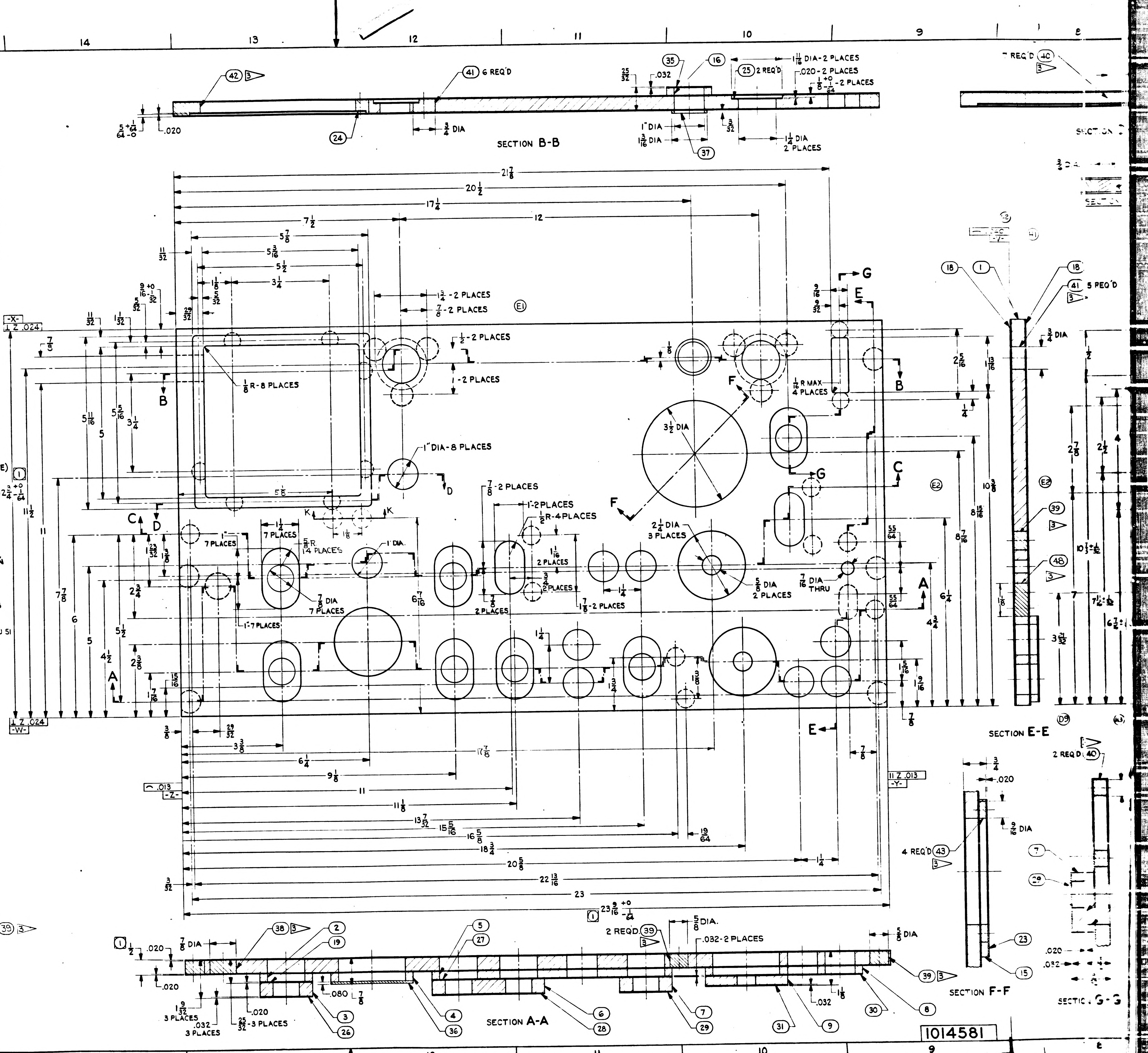
(J10)

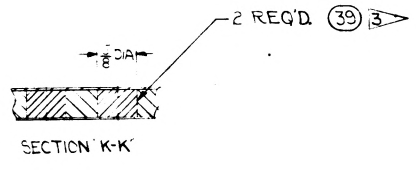
(J11) CHARACTERS ON REAR OF PANEL, EXCEPT MFR'S SYMBOL, TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND 1002019.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND1002177.

3 TOLERANCE FOR LOCATION OF ITEMS 38 THRU 43 AND 48 THRU 51 IS ±1/32 HOLE LOCATIONS SHALL BE AS SPECIFIED.

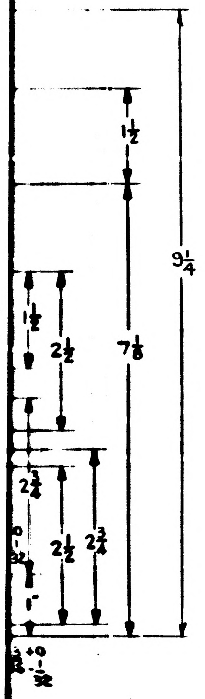
(L) SERIALIZE PER ND1002023.


SECTION B-B
SECTION A-A
SECTION E-E
SECTION F-F
SECTION G-G
1" DIA-8 PLACES
1/8 R-8 PLACES
3 1/2 DIA
2 1/4 DIA 3 PLACES
7/8 DIA 7 PLACES
5/8 R 14 PLACES
1/8 R MAX 4 PLACES
7/16 DIA THRU
5/8 DIA 2 PLACES
41 6 REQ'D
25 2 REQ'D
2 REQ'D 39
4 REQ'D 43
41 5 REQ'D
2 REQ'D 40
23 9/16 +0 -1/64
12 3/4 +0 -1/64
21 7/8
20 1/2
17 1/4
23
-X-
-W-
-Y-
-Z-
1014581


2 REQ'D 39 3
1/4 DIA
SECTION K-K

1/1014581

REVISIONS					TDPR 01629
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
B		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.



ITEM NO.	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
48	1	1014581-048	INSERT-CORE, PANEL
47	1	↑ -047	FACE-PAD
46	1	1014581-046	CORE-HONEYCOMB, PAD
45	9	1000115-3	↑ ↑ ↑
44	24	1000115-2	INSERT-THREADED, SELF-LOCKING
43	4	↑ -043	INSERT-CORE, PAD
42	1	-042	↑ ↑ ↑
41	11	-041	
40	13	-040	
39	13	-039	
38	1	-038	INSERT-CORE, PANEL
37	1	-037	RING
36	1	-036	↑ ↑
35	2	-035	
34	1	-034	
33	1	-033	
32	1	-032	
31	1	-031	
30	1	-030	
29	2	-029	
28	1	-028	
27	1	-027	
26	1	-026	
25	2	-025	
24	1	-024	
23	1	-023	
22	1	-022	
21	1	-021	
20	1	-020	
19	1	-019	FACE-PAD
18	2	-018	FACE-PANEL
17	1	-017	↑ ↑ ↑
16	2	-016	
15	1	-015	
14	1	-014	
13	1	-013	
12	1	-012	
11	1	-011	
10	1	-010	
9	1	-009	
8	1	-008	
7	2	-007	
6	1	-006	
5	1	-005	
4	1	-004	
3	1	-003	
2	1	-002	CORE-HONEYCOMB, PAD
1	1	1014581-001	CORE-HONEYCOMB, PANEL

LIST OF PARTS AND MATERIALS

B 1014581

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$+\frac{1}{64}$	+.005	+2°
$-\frac{1}{64}$	-.005	-2°

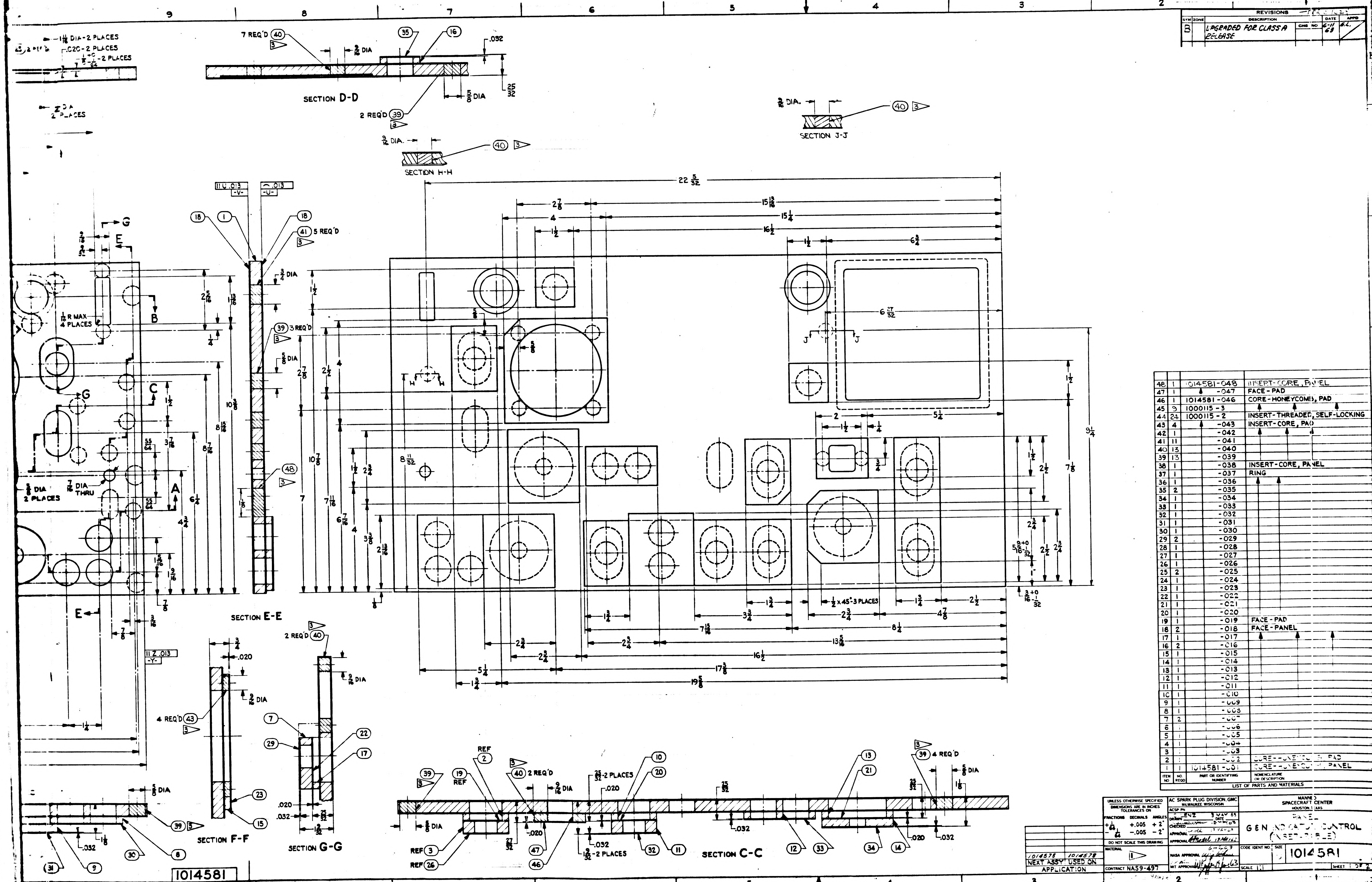
DO NOT SCALE THIS DRAWING
MATERIAL ▷
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 3 MAY 63
CHECKED 13 MAY 63
APPROVAL 13 MAY 63
APPROVAL 13 MAY 63
NASA APPROVAL 6-19-63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO.
SIZE J
1014581
SCALE 1:1
SHEET 1 OF 2


SECTION D-D
SECTION E-E
SECTION F-F
SECTION G-G
SECTION H-H
SECTION J-J
SECTION C-C
7 REQ'D (40)
2 REQ'D (39)
3 REQ'D (39)
5 REQ'D (41)
4 REQ'D (43)
2 REQ'D (40)
4 REQ'D (39)
$1\frac{1}{16}$ DIA - 2 PLACES
.020 - 2 PLACES
$\frac{7}{16}$ DIA THRU
$\frac{5}{8}$ DIA 2 PLACES
$\frac{1}{16}$ R MAX 4 PLACES
$\frac{1}{2}$ x 45° - 3 PLACES
$\frac{25}{32}$ - 2 PLACES
$1\frac{9}{32}$ - 2 PLACES
$22\frac{5}{32}$
$15\frac{13}{16}$
$15\frac{1}{4}$
$16\frac{1}{2}$
$9\frac{1}{4}$
$7\frac{1}{8}$
$17\frac{3}{8}$
$19\frac{5}{8}$
REF
1014581

ITEM NO	NO. REQD	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
48	1	1014581-048	INSERT-CORE, PANEL
47	1	-047	FACE-PAD
46	1	1014581-046	CORE-HONEYCOMB, PAD
45	9	1000115-3	
44	24	1000115-2	INSERT-THREADED, SELF-LOCKING
43	4	-043	INSERT-CORE, PAD
42	1	-042	
41	11	-041	
40	13	-040	
39	13	-039	
38	1	-038	INSERT-CORE, PANEL
37	1	-037	RING
36	1	-036	
35	2	-035	
34	1	-034	
33	1	-033	
32	1	-032	
31	1	-031	
30	1	-030	
29	2	-029	
28	1	-028	
27	1	-027	
26	1	-026	
25	2	-025	
24	1	-024	
23	1	-023	
22	1	-022	
21	1	-021	
20	1	-020	
19	1	-019	FACE-PAD
18	2	-018	FACE-PANEL
17	1	-017	
16	2	-016	
15	1	-015	
14	1	-014	
13	1	-013	
12	1	-012	
11	1	-011	
10	1	-010	
9	1	-009	
8	1	-008	
7	2	-007	
6	1	-006	
5	1	-005	
4	1	-004	
3	1	-003	
2	1	-002	CORE-HONEYCOMB, PAD
1	1	1014581-001	CORE-HONEYCOMB, PANEL

LIST OF PARTS AND MATERIALS

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
B		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.

NEXT ASSY	USED ON
1014578	1014578

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
$\pm\frac{1}{64}$	+.005 −.005	+2° −2°

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN LENZ DATE 3 MAY 63
CHECKED 3 MAY 63
APPROVAL 13 MAY 63
APPROVAL 13 MAY 63
NASA APPROVAL 6-7-63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL
G & N INDICATOR CONTROL
(INSERTABLE)

CODE IDENT NO. | SIZE | 1014581

SCALE 1:1 | SHEET 1 OF 2

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

1 MATERIAL:
ITEMS 1 THRU 17 AND ITEM 46:
HONEYCOMB IN ACCORDANCE WITH MIL-C-7438C, 1/8 CELL SIZE, .001 FOIL GAUGE (PERFORATED CELL WALLS) ALUMINUM ALLOY PER (5052-H39), 4.5 DENSITY CORE.
ITEMS 18 THRU 25 AND ITEM 47:
.020 THK AL ALY PER QQ-A-355, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
ITEMS 26 THRU 35:
.032 THK AL ALY PER QQ-A-355, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
ITEM 36:
.100 THK AL ALY PER QQ-A-355, TEMPER T-3 (TYPE 2024-T3)(ES-2104).
ITEM 37:
AL ALY PER QQ-A-355, TEMPER T-3 (TYPE 2024-T3) (ES-2104).
ITEMS 38 THRU 43 AND 48
AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4) (ES-2104).

ADHESIVE:
ADHESIVE FOR METALLIC CONSTRUCTION IS TO BE PER MIL-A-25463(ASG), TYPE II, CLASS 2.

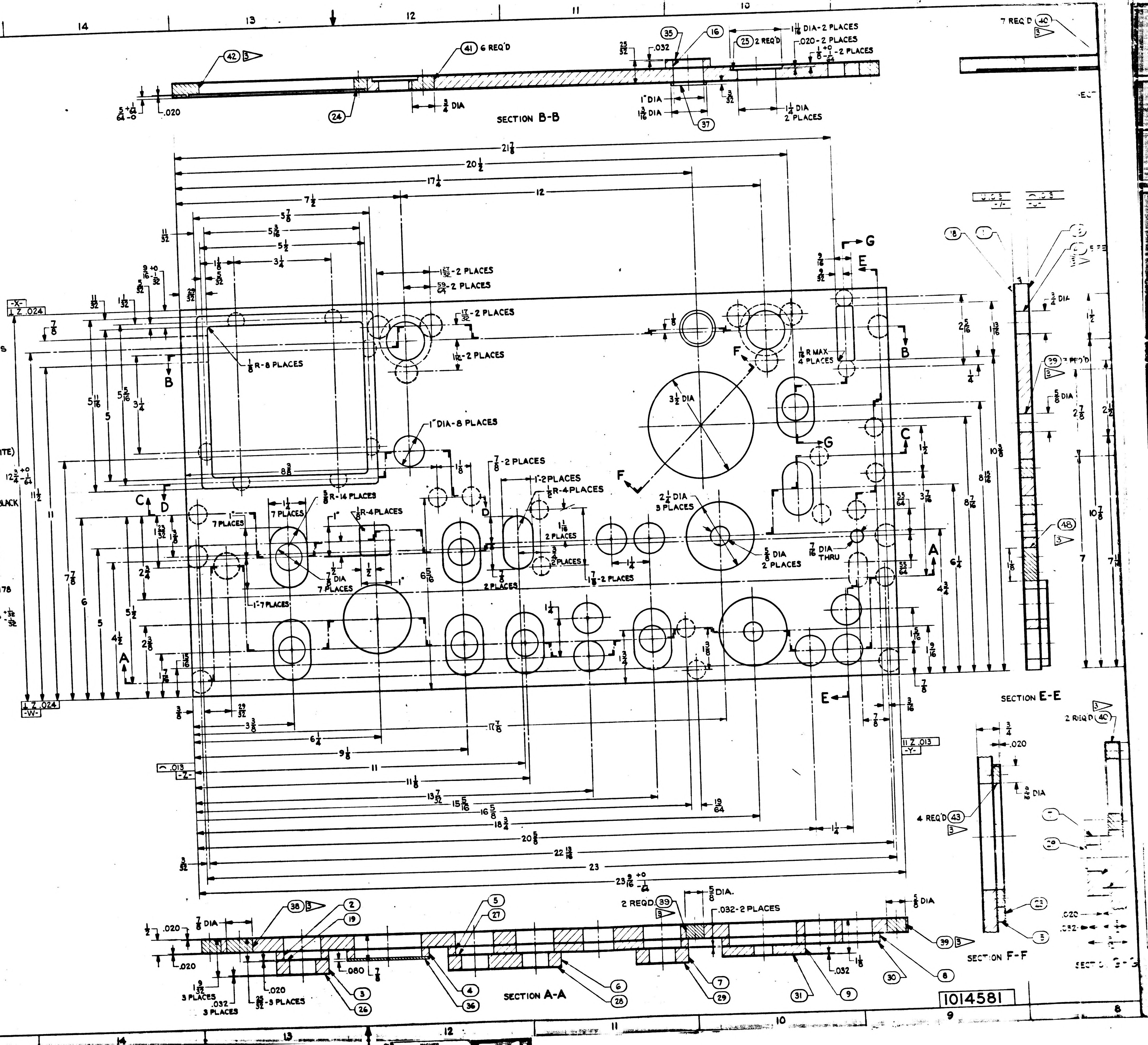
UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 125√.
ALL EDGES ON SURFACE V MUST BE .030 TO .040 RADIUS
MUST BE FREE FROM BURRS.

FINISH:
CHEMICAL FILM PER MIL-C-5541(ES-591).
APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589).
APPLY TT-E-527(ES-2602) LUSTERLESS ENAMEL (GREY), COLOR NO. 36231 OF FED-STD-595, TO FRONT AND SIDES OF PANEL, PER ND1002110.
CHARACTERS, BORDER LINES, POSITION MARKS AND ARROWS ON FRONT OF PANEL TO BE SILK SCREENED PER ND1002112 USING ND1002111 LUSTERLESS (WHITE) ENAMEL, COLOR NO. 37875 OF FED-STD-595. UNLESS OTHERWISE SPECIFIED CHARACTERS TO BE 1/8 HIGH FUTURA DEMIBOLD PER ND 1002122. CENTRALIZE AS SHOWN. BORDER LINES, POSITION MARKS AND ARROWS TO BE 1/32 WIDE.

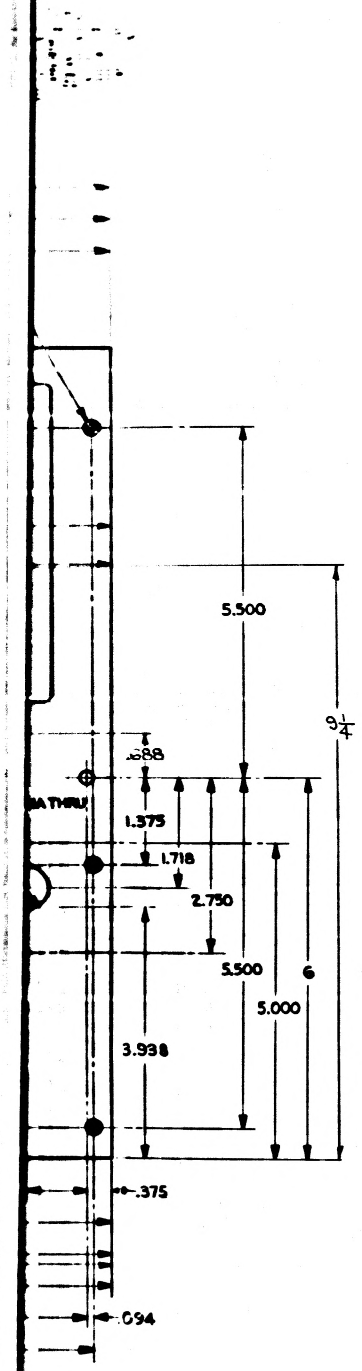
2 IDENTIFY USING DWG. NO., REVISION LETTER AND IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER MIL-STD-130 (ES-267). COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.
CHARACTERS ON REAR OF PANEL, EXCEPT DWG. NO., REV. LTR. AND MFR'S SYMBOL, TO BE MARKED IN 1/8 HIGH BLACK CHARACTERS IN POSITION SHOWN PER ND1002019. COVER WITH TT-L-58 (ES-2562) CLEAR LACQUER.

BAND ALL EXPOSED HONEYCOMB CORE EDGES PER ND1002178 USING EPOXY PUTTY PER ND1002177.

3 TOLERANCE FOR LOCATION OF ITEMS 38 THRU 43 AND 48 IS $^{+\frac{1}{32}}_{-\frac{1}{32}}$ HOLE LOCATIONS SHALL BE AS SPECIFIED.


SECTION B-B
SECTION A-A
SECTION E-E
SECTION F-F
1 1/16 DIA-2 PLACES
.020-2 PLACES
2 REQ'D
6 REQ'D
7 REQ'D
1" DIA
1 3/16 DIA
1 1/4 DIA 2 PLACES
3/4 DIA
21 7/8
20 1/2
17 1/4
12
7 1/2
5 7/8
5 3/16
5 1/2
3 1/4
1 27/32-2 PLACES
59/64-2 PLACES
17/32-2 PLACES
1 1/2-2 PLACES
1/8 R-8 PLACES
1" DIA-8 PLACES
3 1/2 DIA
1/8 R MAX 4 PLACES
7/8-2 PLACES
1"-2 PLACES
1/8 R-4 PLACES
5/8 R-14 PLACES
1 1/4 7 PLACES
7 PLACES
2 1/4 DIA 3 PLACES
5/8 DIA 2 PLACES
7/16 DIA THRU
1 7/8-2 PLACES
2 PLACES
1"-7 PLACES
8 3/8
12 3/4 +0 -1/64
11 1/2
-X-
⊥ Z .024
-W-
-Y-
11 Z .013
-Z-
3 3/8
6 1/4
9 1/8
11
11 1/8
13 7/32
15 5/16
16 5/8
18 3/4
20 5/8
22 13/16
23
23 9/16 +0 -1/64
11 7/8
19/64
1 1/4
10 3/8
8 15/16
8 7/16
10 7/8
6 1/4
4 3/4
7
7 1/2
2 REQD.
.032-2 PLACES
5/8 DIA.
7/8 DIA
.020
.080
.032
1 9/32 3 PLACES
.032 3 PLACES
25/32-3 PLACES
4 REQ'D
1014581
INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS		TDPR 01629			
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
		SEE SHEET 1 FOR REVISIONS.			



5.500
9 1/4
.688
A THRU
1.375
1.718
2.750
5.500
6
5.000
3.938
.375
.094

1014581

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ 3 MAY 63
CHECKED
APPROVAL Schell 13 MAY 63
APPROVAL 13 MAY 63
NASA APPROVAL 6-19-63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

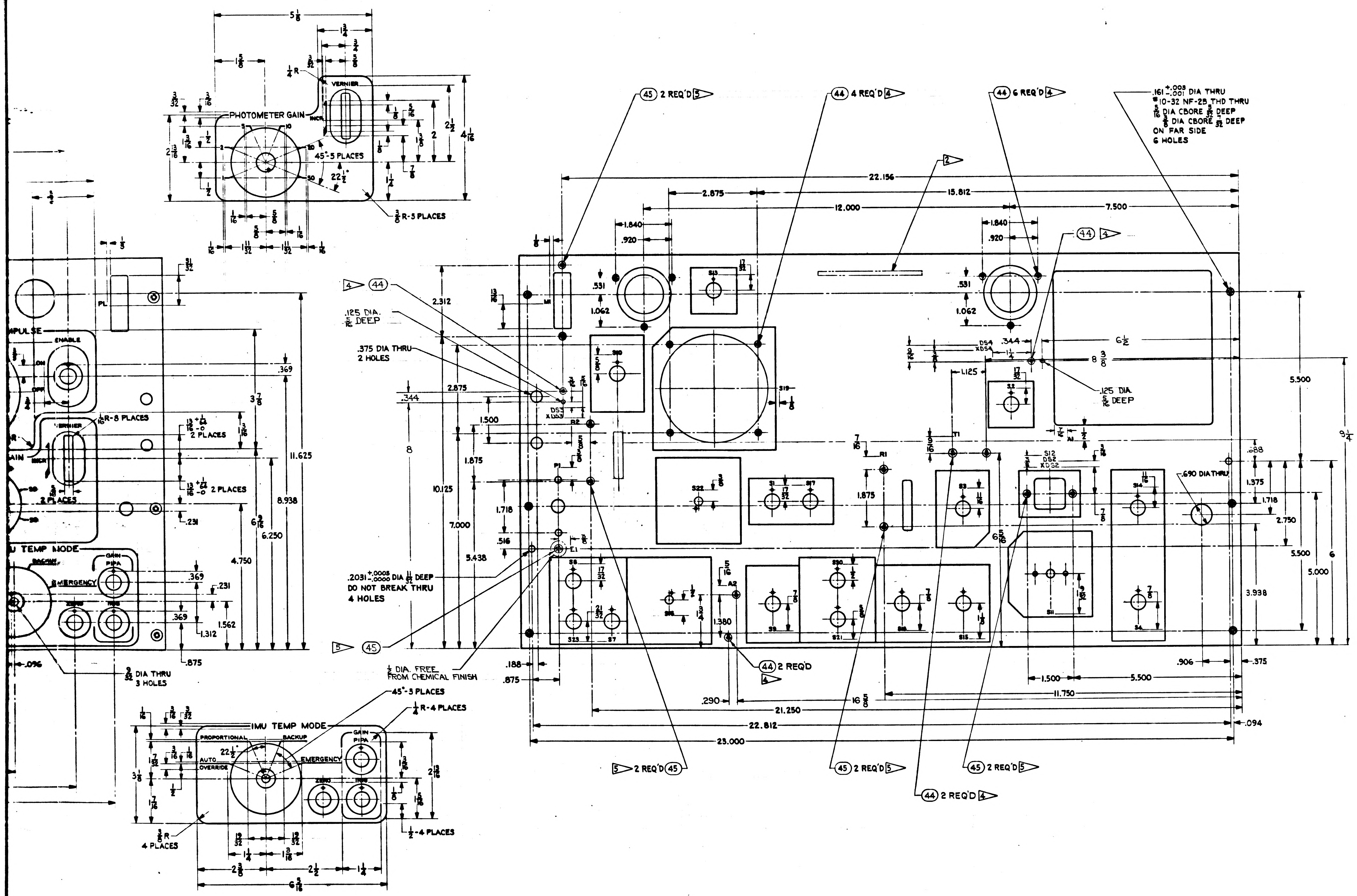
PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO. SIZE J 1014581
SCALE 1:1 SHEET 2 OF 2

INCHES
PHOTOGRAPHIC SCALE ONLY

F3

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		SEE SHEET 1 FOR REVISIONS			



PHOTOMETER GAIN
VERNIER
INCR
45°-5 PLACES
3/8 R-5 PLACES
IMPULSE
ENABLE
ON
OFF
R-8 PLACES
2 PLACES
TEMP MODE
BACKUP
EMERGENCY
GAIN
PIPA
ZERO
9/32 DIA THRU 3 HOLES
IMU TEMP MODE
PROPORTIONAL
AUTO
OVERRIDE
45°-3 PLACES
1/4 R-4 PLACES
3/8 R 4 PLACES
1/2-4 PLACES
.125 DIA. 1/8 DEEP
.375 DIA THRU 2 HOLES
.2031 +.0005 -.0000 DIA 11/32 DEEP DO NOT BREAK THRU 4 HOLES
1/2 DIA. FREE FROM CHEMICAL FINISH
.161 +.003 -.001 DIA THRU #10-32 NF-2B THD THRU 5/16 DIA CBORE 5/32 DEEP 3/8 DIA CBORE 1/32 DEEP ON FAR SIDE 6 HOLES
.690 DIA THRU
(45) 2 REQ'D 5
(44) 4 REQ'D 4
(44) 6 REQ'D 4
(44) 2 REQ'D 4
(45) 2 REQ'D 5
2
22.156
15.812
12.000
7.500
2.875
23.000
22.812
21.250
16 5/8
11.750
5.500
1.500
11.625
8.938
6.250
10.125
7.000
5.438
S1 S2 S3 S4 S7 S8 S9 S10 S11 S12 S13 S14 S15 S16 S17 S18 S19 S20 S21 S22 S23
DS2 XDS2 DS3 XDS3 DS4 XDS4
M1 R1 R2 T1 P1 E1 A1 A2 PL

AC SPARK PLUG DIVISION. GMC
MILWAUKEE. WISCONSIN

ACSP PN

DRAWN C. LENZ DATE 3 [illegible] 63

CHECKED

APPROVAL

APPROVAL

NASA APPROVAL 6-19-63

MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

PANEL
G & N INDICATOR CONTROL
(INSEPARABLE)

CODE IDENT NO. SIZE 1014581

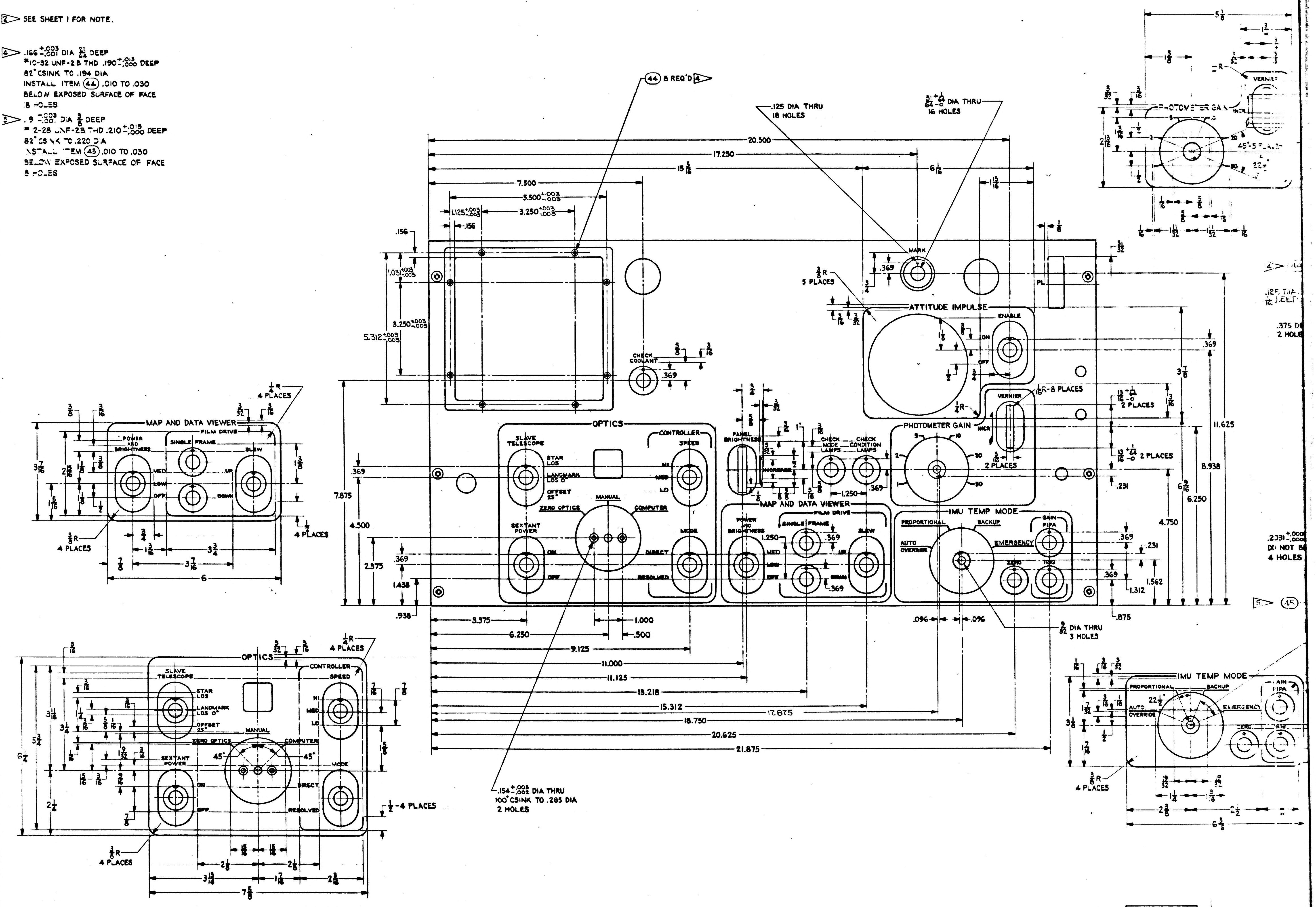
SCALE 1:1 SHEET

1014581

2 SEE SHEET 1 FOR NOTE.

4 .166 $^{+.003}_{-.001}$ DIA $\frac{21}{64}$ DEEP
#10-32 UNF-2B THD .190 $^{+.015}_{-.000}$ DEEP
82° CSINK TO .194 DIA
INSTALL ITEM (44) .010 TO .030
BELOW EXPOSED SURFACE OF FACE
8 HOLES

5 .9 $^{-.003}_{-.001}$ DIA $\frac{3}{8}$ DEEP
2-28 UNF-2B THD .210 $^{+.015}_{-.000}$ DEEP
82° CSINK TO .220 DIA
INSTALL ITEM (45) .010 TO .030
BELOW EXPOSED SURFACE OF FACE
8 HOLES


(44) 8 REQ'D 4
.125 DIA THRU 18 HOLES
31/64 +1/64 -0 DIA THRU 16 HOLES
20.500
17.250
15 5/16
6 1/16
7.500
5.500 +.003 -.003
3.250 +.003 -.003
1.125 +.003 -.003
.156
1.031 +.003 -.003
5.312 +.003 -.003
MARK
ATTITUDE IMPULSE
ENABLE
ON
OFF
3/8 R 5 PLACES
PL
VERNIER
INCR
1/16 R-8 PLACES
2 PLACES
PHOTOMETER GAIN
CHECK COOLANT
OPTICS
SLAVE TELESCOPE
STAR LOS
LANDMARK LOS 0°
OFFSET 25°
CONTROLLER
SPEED
HI
MED
LO
ZERO OPTICS
MANUAL
COMPUTER
SEXTANT POWER
ON
OFF
MODE
DIRECT
RESOLVED
PANEL BRIGHTNESS
INCREASE
CHECK MODE LAMPS
CHECK CONDITION LAMPS
MAP AND DATA VIEWER
POWER AND BRIGHTNESS
FILM DRIVE
SINGLE
FRAME
SLEW
UP
DOWN
IMU TEMP MODE
PROPORTIONAL
BACKUP
AUTO OVERRIDE
EMERGENCY
GAIN PIPA
ZERO
TRIG
11.625
8.938
6.250
4.750
7.875
4.500
2.375
1.438
.938
3.375
6.250
9.125
11.000
11.125
13.218
15.312
17.875
18.750
20.625
21.875
1.000
.500
.096
.096
.369
.231
1.562
1.312
.875
1.250
9/32 DIA THRU 3 HOLES
.154 +.003 -.002 DIA THRU 100° CSINK TO .285 DIA 2 HOLES
5 (45)
3/8 R 4 PLACES
1/4 R 4 PLACES
1/2 4 PLACES
6
3 3/4
7 5/8
6 1/4
5 3/4
6 5/8
5 1/8
.125 DIA
.375 DI 2 HOLE
.2031 +.000 DO NOT B 4 HOLES
45° 5 PLACES
22 1/2°

1014581

1014585 A

REVISIONS TDRR 01629

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

1 MATERIAL:
AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4) (ES-2104).

UNLESS OTHERWISE SPECIFIED:
ALL CORNERS MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt{}^{125}$.
ALL RADII TO BE 1/16.

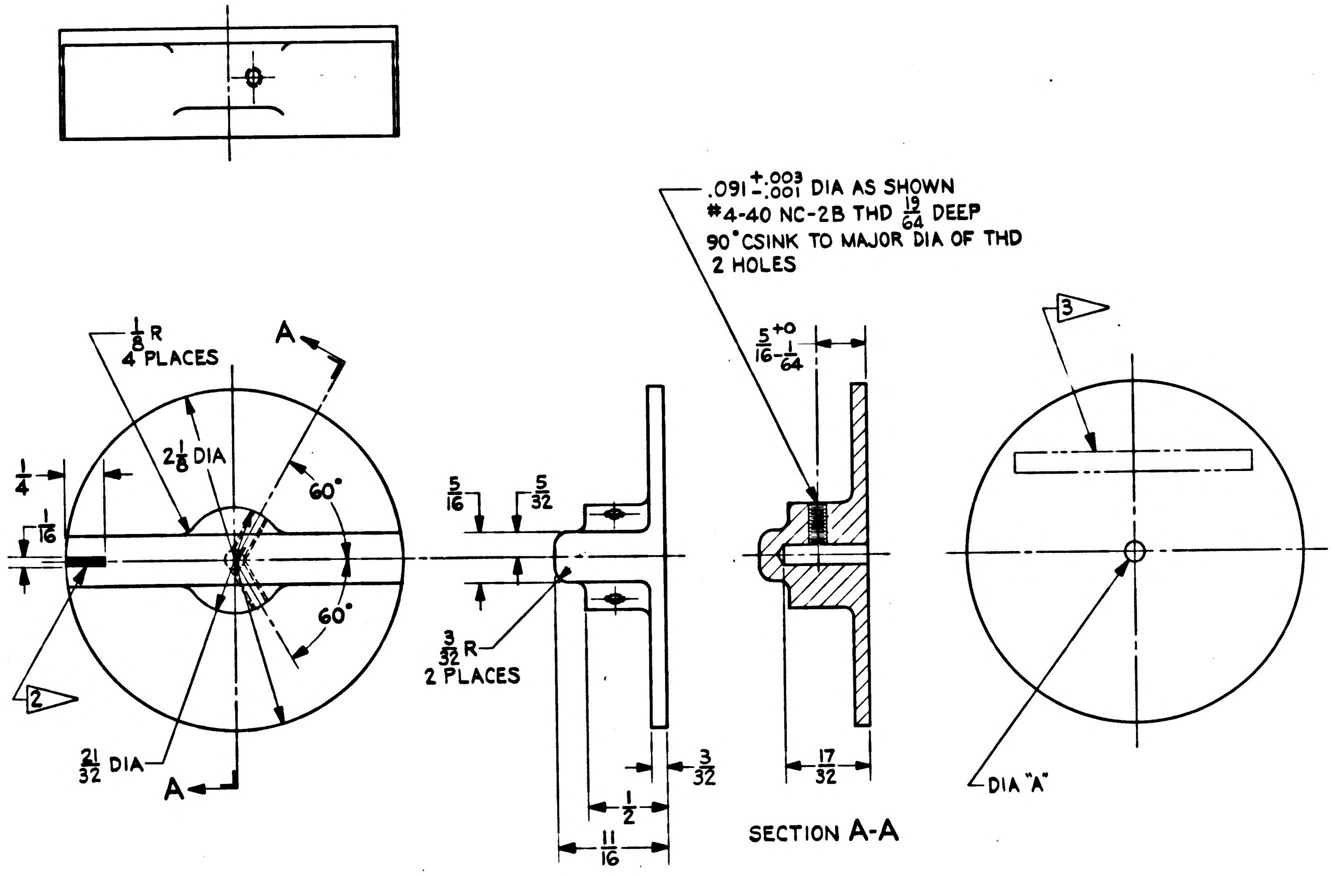
MUST BE FREE FROM BURRS.

FINISH:
CHEMICAL FILM PER MIL-C-5541 (ES-591).
APPLY ZINC CHROMATE PRIMER PER MIL-P-6808

APPLY TT-E-529, CLASS A, SEMI GLOSS ENAMEL, LIGHT GRAY, COLOR NO. 26440 OF FED-STD-595 TO FRONT AND EDGES.

2 INDICATOR MARK ON FRONT OF KNOB TO BE STENCILLED PER ND1002019 USING LUSTERLESS ENAMEL, WHITE, COLOR NO. 37875 OF FED-STD-595. CENTRALIZE AS SHOWN.

3 IDENTIFY USING DWG NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).



1/8 R 4 PLACES
A
2 1/8 DIA
60°
60°
1/4
1/16
2
21/32 DIA
A
5/16
5/32
3/32 R 2 PLACES
3/32
1/2
11/16
.091 +.003 -.001 DIA AS SHOWN
#4-40 NC-2B THD 19/64 DEEP
90° CSINK TO MAJOR DIA OF THD
2 HOLES
5/16 +0 -1/64
17/32
SECTION A-A
3
DIA "A"

PART NUMBER	DIAMETER "A"
1014585-001	.135
1014585-002	.150

1014578	1014578	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± 1/64 DECIMALS +.005 −.005 ANGLES + 2° − 2° DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN C. LENZ DATE 17 APR '63 CHECKED Hogue 17 MAY 63 APPROVAL Earl Scholl 20 MAY 63 APPROVAL 20 MAY 63	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	KNOB, ROTARY SWITCH
NEXT ASSY	USED ON	MATERIAL 1	NASA APPROVAL 6-19-63 MIT APPROVAL	CODE IDENT NO.	SIZE D · 1014585
APPLICATION		CONTRACT NAS9-497		SCALE 2:1	SHEET

Checked 20 MAY 63

MIL 10770-F

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

B	1014585	2

REVISIONS TDRR 01629

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.
B_4		REVISED PER TDRR NO. 04234		30 OCT 63	WK

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

1 MATERIAL:
AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4) (ES-2104).

UNLESS OTHERWISE SPECIFIED:
ALL CORNERS MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED 125√.
ALL RADII TO BE 1/16.

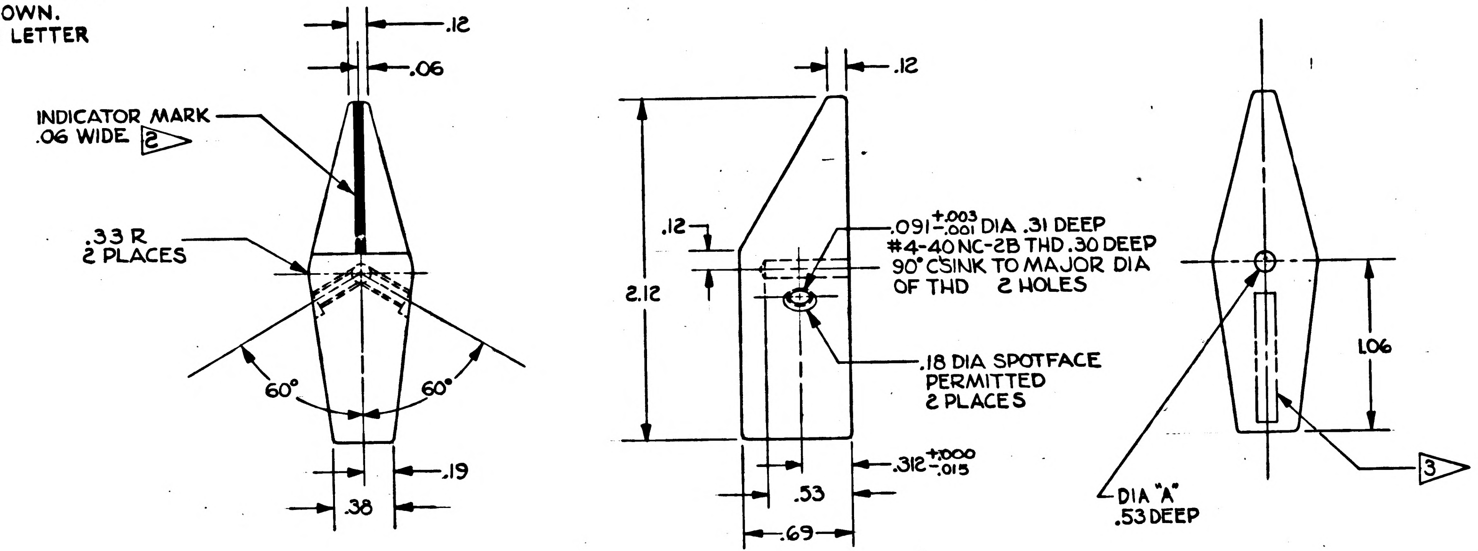
MUST BE FREE FROM BURRS.

FINISH:
CHEMICAL FILM PER MIL-C-5541 (ES-591).
APPLY ZINC CHROMATE PRIMER PER MIL-P-6808

APPLY TT-E-529, CLASS A, SEMI GLOSS ENAMEL, LIGHT GRAY, COLOR NO. 26440 OF FED-STD-595 TO FRONT AND EDGES.

2 INDICATOR MARK ON FRONT OF KNOB TO BE STENCILLED PER ND1002019 USING LUSTERLESS ENAMEL, WHITE, COLOR NO. 37875 OF FED-STD-595. CENTRALIZE AS SHOWN.

3 IDENTIFY USING DWG NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).



.12
.06
INDICATOR MARK .06 WIDE 2
.33 R 2 PLACES
60°
60°
.19
.38
.12
.12
2.12
.091 +.003 −.001 DIA .31 DEEP
#4-40 NC-2B THD .30 DEEP
90° CSINK TO MAJOR DIA OF THD 2 HOLES
.18 DIA SPOTFACE PERMITTED 2 PLACES
.312 +.000 −.015
.53
.69
1.06
DIA "A" .53 DEEP
3

PART NUMBER	DIAMETER "A"
1014585-001	.135
1014585-002	.150

NEXT ASSY	USED ON
1014578	1014578

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

2 PLACE DECIMALS	3 PLACE DECIMALS	ANGLES
+.02	+.005	+ 2°
−.02	−.005	− 2°

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN C. LENZ DATE 17 APR '63
CHECKED Hogue 17 MAY 63
APPROVAL Earl Scholl 20 MAY 63
APPROVAL 20 MAY 63
NASA APPROVAL 6-19-63
MIT APPROVAL 19 Jun 63
Charleston 20 MAY 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

KNOB,
ROTARY SWITCH

CODE IDENT NO.
SIZE D
1014585
SCALE 2:1
SHEET OF 1

MIL 10770-P

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

C 1014585

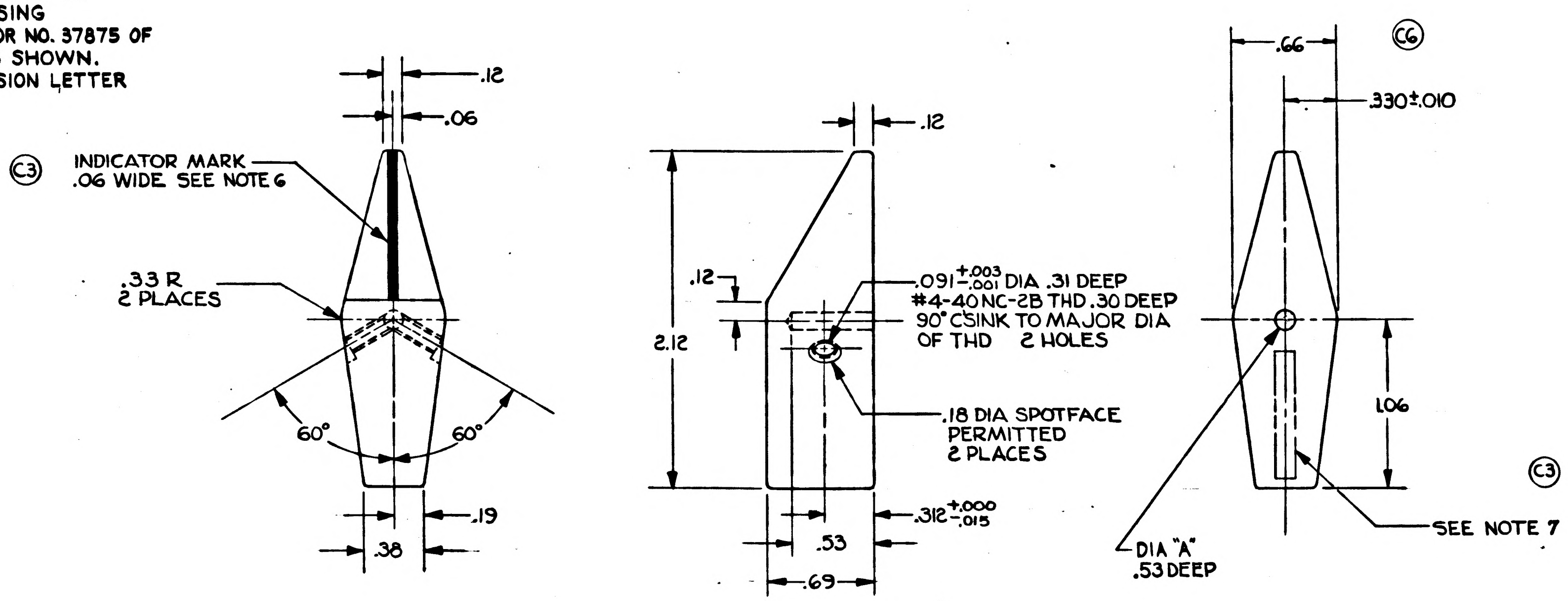
REVISIONS TDRR 01629					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.
B4		REVISED PER TDRR NO. 04234		30 OCT 63	WK
C6		REVISED PER TDRR NO 05942		4 FEB 64	WK

NOTES:

Ⓒ2

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4) (ES-2104).
3. UNLESS OTHERWISE SPECIFIED:
   A. ALL CORNERS MUST BE .005 TO .015 R OR CHAMFER.
   B. SURFACE ROUGHNESS MUST NOT EXCEED $\overset{125}{\vee}$/.
   C. ALL RADII TO BE 1/16.
4. MUST BE FREE FROM BURRS.
5. FINISH: MIL-A-8625 TYPE I (ES-385) Ⓒ1
6. INDICATOR MARK ON FRONT OF KNOB TO BE STENCILLED PER ND1002019 USING LUSTERLESS ENAMEL, WHITE, COLOR NO. 37875 OF FED-STD-595. CENTRALIZE AS SHOWN.
7. IDENTIFY USING DWG NO. AND REVISION LETTER PER ND 1002019.

Ⓒ5



.12
.06
Ⓒ3
INDICATOR MARK .06 WIDE SEE NOTE 6
.33 R 2 PLACES
60°
60°
.19
.38
.12
.12
2.12
.091 +.003 -.001 DIA .31 DEEP
#4-40NC-2B THD .30 DEEP
90° CSINK TO MAJOR DIA OF THD 2 HOLES
.18 DIA SPOTFACE PERMITTED 2 PLACES
.312 +.000 -.015
.53
.69
.66
Ⓒ6
.330±.010
1.06
Ⓒ3
DIA "A" .53 DEEP
SEE NOTE 7

PART NUMBER	DIAMETER "A"
1014585-001	.135
1014585-002	.150

Ⓒ4

1014578	1014513
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

2 PLACE DECIMALS	3 PLACE DECIMALS	ANGLES
+.02	+.005	+ 2°
−.02	−.005	− 2°

DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTE 2
CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN C. LENZ DATE 17 APR '63
CHECKED Hogue 17 MAY 63
APPROVAL Earl Scholl 20 MAY 63
APPROVAL 20 MAY 63
NASA APPROVAL 6-19-63
MIT APPROVAL 19 Jun 63
Charleston 20 MAY 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

KNOB,
ROTARY SWITCH

CODE IDENT NO.
SIZE D
1014585
SCALE 2:1
SHEET 1 OF 1

MIL 1077D-P

D 1014585 2

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.
B	4	REVISED PER TDRR NO. 04234		30 OCT 63	WK
C	6	REVISED PER TDRR NO 05942		4 FEB 64	WK
D		REVISED PER TDRR NO 10171		24 JUN 64	JJJ P7

REVISIONS TDRR 01629

ⓒ2

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL: AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4) (ES-2104).

3. UNLESS OTHERWISE SPECIFIED:
   A. ALL CORNERS MUST BE .005 TO .015 R OR CHAMFER.
   B. SURFACE ROUGHNESS MUST NOT EXCEED $\overset{125}{\surd}$.
   C. ALL RADII TO BE 1/16.

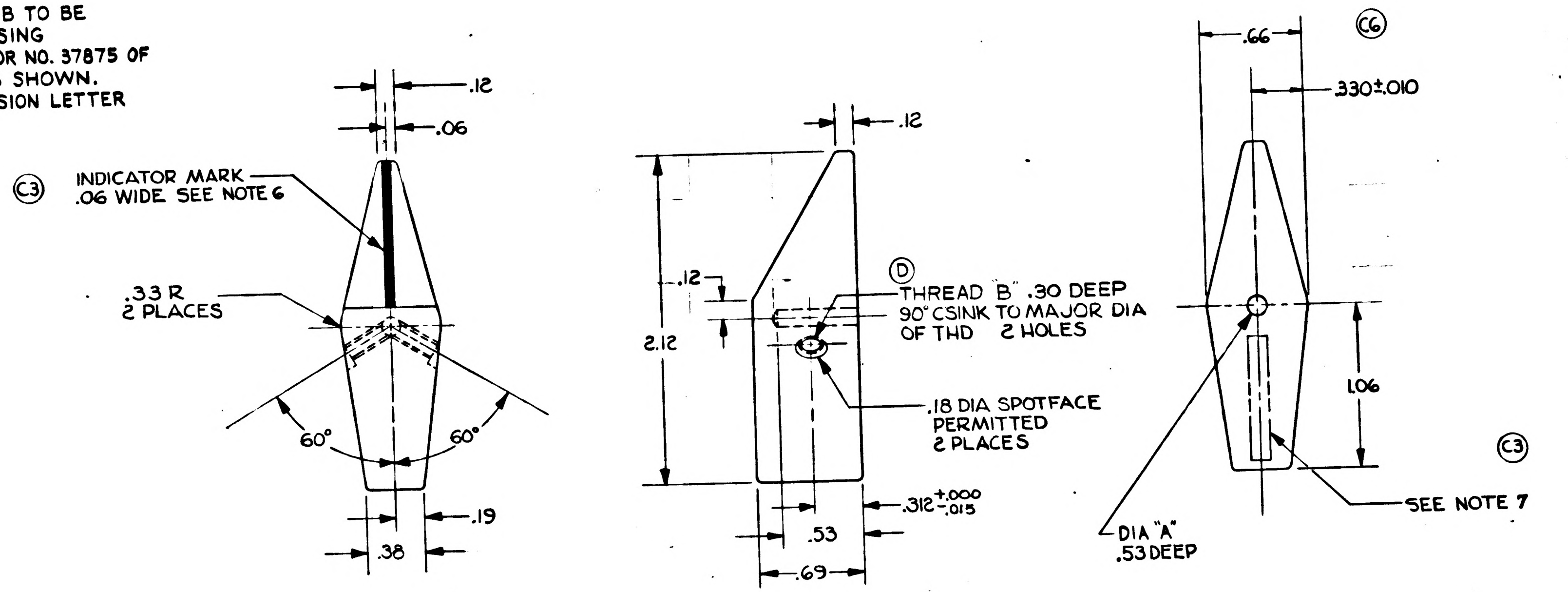
4. MUST BE FREE FROM BURRS.

5. FINISH: MIL-A-8625 TYPE I (ES-385) ⓒ1

6. INDICATOR MARK ON FRONT OF KNOB TO BE STENCILLED PER ND1002019 USING LUSTERLESS ENAMEL, WHITE, COLOR NO. 37875 OF FED-STD-595. CENTRALIZE AS SHOWN.

7. IDENTIFY USING DWG NO. AND REVISION LETTER PER ND 1002019.

ⓒ5



.12
.06
INDICATOR MARK .06 WIDE SEE NOTE 6
ⓒ3
.33 R 2 PLACES
60°
60°
.19
.38
.12
.12
2.12
Ⓓ
THREAD "B" .30 DEEP 90° CSINK TO MAJOR DIA OF THD 2 HOLES
.18 DIA SPOTFACE PERMITTED 2 PLACES
.312 +.000 −.015
.53
.69
.66
ⓒ6
.330±.010
1.06
ⓒ3
SEE NOTE 7
DIA "A" .53 DEEP

Ⓓ

PART NUMBER	DIAMETER "A"	THREAD "B"
1014585-001	.135	#4-40 NC-2B
1014585-002	.150	#4-40 NC-2B
1014585-003	.260	#6-32 NC-2B

NEXT ASSY	USED ON
1014578	1014513

APPLICATION

ⓒ4

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

2 PLACE DECIMALS	3 PLACE DECIMALS	ANGLES
+.02	+.005	+ 2°
−.02	−.005	− 2°

DO NOT SCALE THIS DRAWING

MATERIAL SEE NOTE 2

CONTRACT NAS9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN C. LENZ DATE 17 APR '63
CHECKED Hogue 17 MAY 63
APPROVAL Earl Scholl 20 MAY 63
APPROVAL A.Pickel 20 MAY 63
NASA APPROVAL 6-19-63
MIT APPROVAL

Checked 20 MAY 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

KNOB,
ROTARY SWITCH

CODE IDENT NO.
SIZE D
1014585
SCALE 2:1
SHEET 1 OF 1

MIL 10770-F

B 1014588

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
REVISIONS TDRR 01629					
B		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

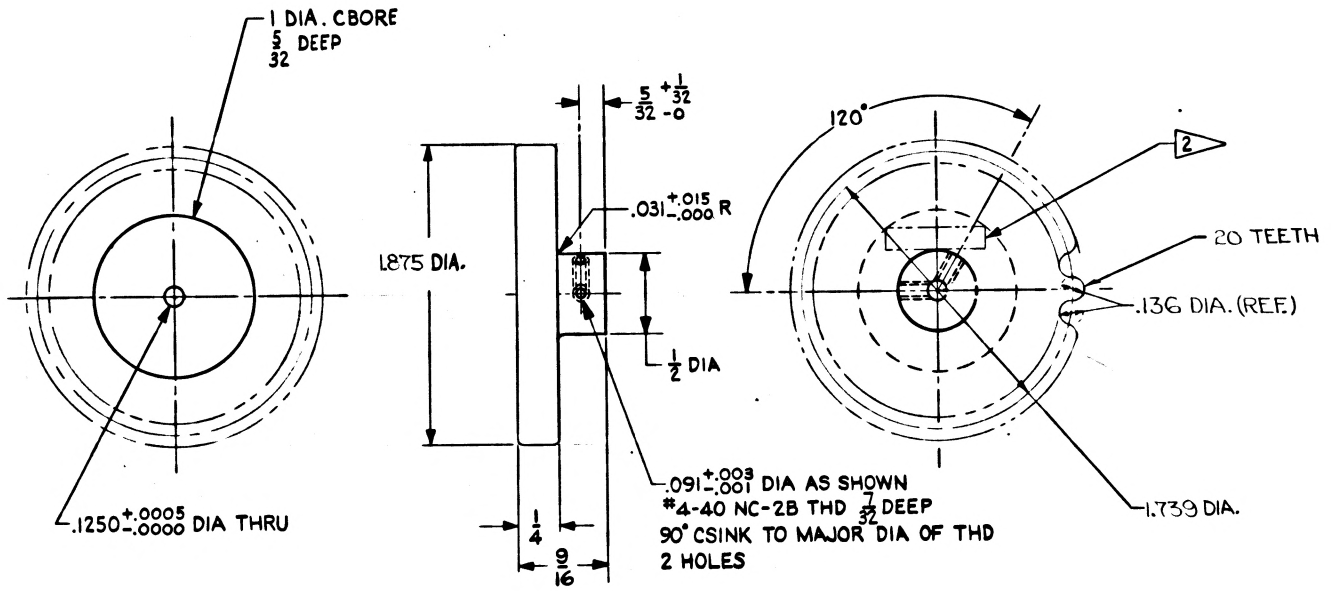
1 MATERIAL:
AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4)(ES-2104).

UNLESS OTHERWISE SPECIFIED:
ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt{}^{125}$.
ALL TOOTH EDGES MUST BE .030 TO .040 RADIUS.
MUST BE FREE FROM BURRS.

FINISH:
CHEMICAL FILM PER MIL-C-5541 (ES-591).
APPLY ZINC CHROMATE PRIMER PER MIL-P-6808

APPLY TT-E-529, CLASS A SEMI GLOSS ENAMEL, LIGHT GRAY, COLOR NO. 26440 OF FED-STD-595 ALL OVER.

2 IDENTIFY USING DWG. NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).



1 DIA. CBORE 5/32 DEEP
.1250 +.0005 -.0000 DIA THRU
1.875 DIA.
5/32 +1/32 -0
.031 +.015 -.000 R
1/2 DIA
1/4
9/16
.091 +.003 -.001 DIA AS SHOWN
#4-40 NC-2B THD 7/32 DEEP
90° CSINK TO MAJOR DIA OF THD
2 HOLES
120°
2
20 TEETH
.136 DIA. (REF.)
1.739 DIA.

1014578	1014578	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS +1/64 -1/64 DECIMALS +.005 -.005 ANGLES +2° -2° DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN C. LENZ DATE 19 APR '63 CHECKED Hogue 17 MAY 63 APPROVAL Earl Scholl 20 MAY 63 APPROVAL 20 MAY 63	MANNED SPACECRAFT CENTER HOUSTON, TEXAS WHEEL, POTENTIOMETER		
NEXT ASSY	USED ON	MATERIAL 1	NASA APPROVAL 6-19-63	CODE IDENT NO.	SIZE D	1014588
APPLICATION		CONTRACT NAS9-497	MIT APPROVAL	SCALE 2:1		SHEET

20 MAY 63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

C 1014588

REVISIONS		TDRR 01629			
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.
C 12		REVISED PER TDRR NO. 03901		18 OCT. 63	WK

Ⓒ1

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL:
   AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4)(ES-2104).

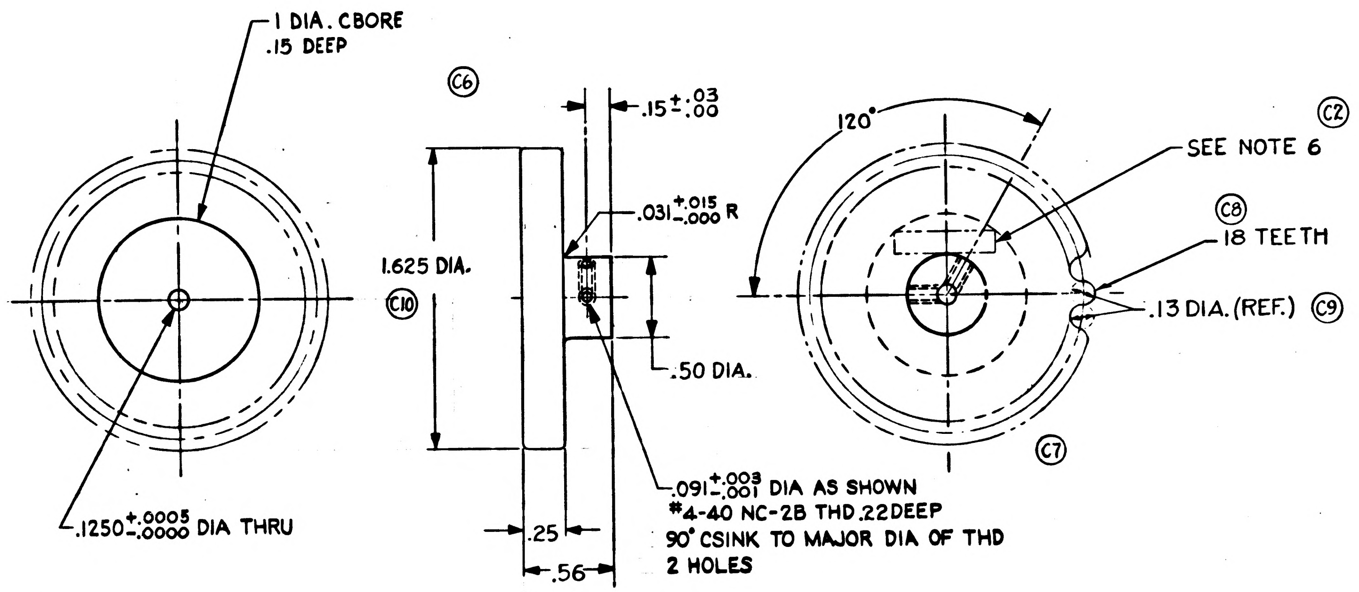
3. UNLESS OTHERWISE SPECIFIED:
   a. ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
   b. SURFACE ROUGHNESS MUST NOT EXCEED 125/.
   c. ALL TOOTH EDGES MUST BE .030 TO .040 RADIUS.
4. MUST BE FREE FROM BURRS.

5. FINISH:
   a. CHEMICAL FILM PER MIL-C-5541 (ES-591).
   b. APPLY ZINC CHROMATE PRIMER PER MIL-P-6808

Ⓒ11 c. APPLY TT-E-529, CLASS A SEMI GLOSS ENAMEL, LIGHT GRAY, COLOR NO. 26440 OF FED-STD-595 ALL OVER. Ⓘ

6. IDENTIFY USING DWG. NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

Ⓒ12 7. Ⓘ CONTROLLED BY ICD MH01-01046-416



1 DIA. CBORE
.15 DEEP
.1250 +.0005 −.0000 DIA THRU
Ⓒ6
.15 +.03 −.00
.031 +.015 −.000 R
1.625 DIA.
Ⓒ10
.50 DIA.
.25
.56
.091 +.003 −.001 DIA AS SHOWN
#4-40 NC-2B THD .22 DEEP
90° CSINK TO MAJOR DIA OF THD
2 HOLES
120°
Ⓒ2
SEE NOTE 6
Ⓒ8
18 TEETH
.13 DIA. (REF.)
Ⓒ9
Ⓒ7

Ⓒ3 Ⓒ4 Ⓒ5

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ±.02 3 PLACE DECIMALS ±.005 ANGLES +2° −2°	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
	ACSP PN			
	DRAWN C. LENZ DATE 19 APR '63	WHEEL, POTENTIOMETER		
	CHECKED Hogue 17 MAY 63			
	APPROVAL Earl Scholl 20 MAY 63			
DO NOT SCALE THIS DRAWING	APPROVAL [illegible] 20 MAY 63			
MATERIAL SEE NOTE 2	NASA APPROVAL W J [illegible] 6-18-63	CODE IDENT NO.	SIZE D	1014588
CONTRACT NAS9-497	MIT APPROVAL W Kupfer 19 Jun 63	SCALE 2:1		SHEET 1 OF 1

1014578	1014578
NEXT ASSY	USED ON
APPLICATION	

Charleston 20 MAY 63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

D 1014588

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS A RELEASE		6-11 63	EL
C 12		REVISED PER TDRR NO. 03901		18 OCT. 63	WK
D 4		REVISED PER TDRR NO. 04880		11 DEC. 63	

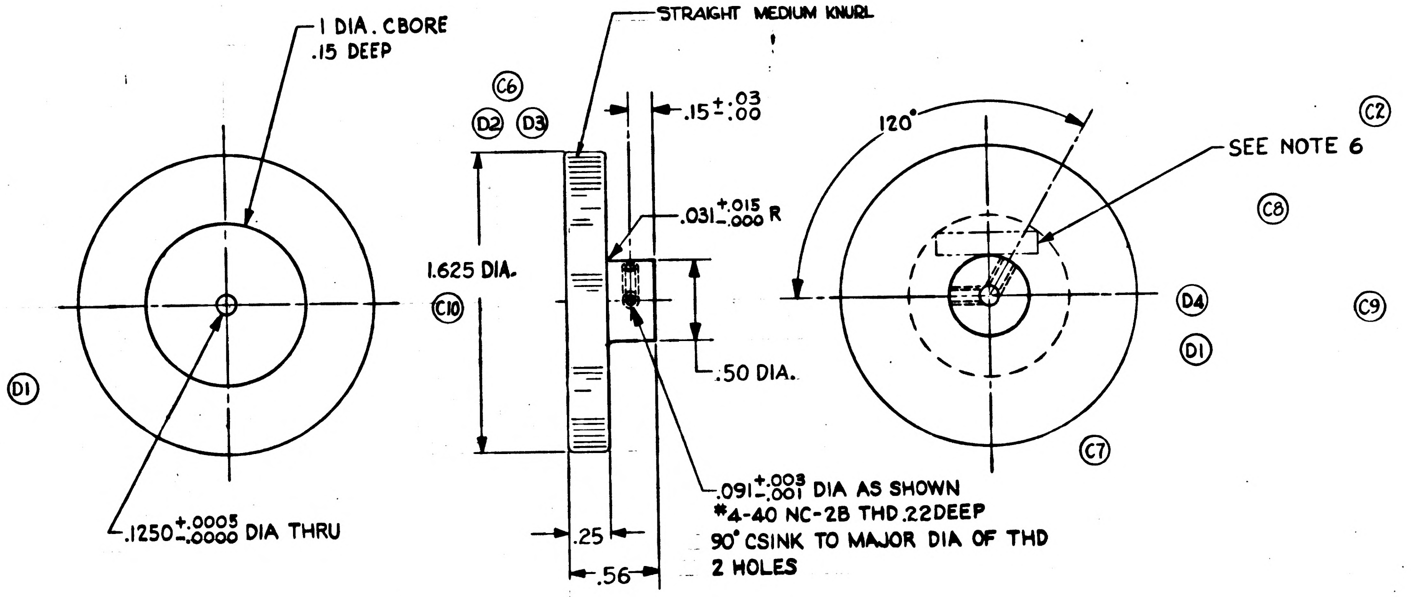
REVISIONS TDRR 01629

(C1)

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MATERIAL: AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4)(ES-2104).
3. UNLESS OTHERWISE SPECIFIED:
   - a. ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
   - b. SURFACE ROUGHNESS MUST NOT EXCEED 125√.
   - c. ALL TOOTH EDGES MUST BE .030 TO .040 RADIUS.
4. MUST BE FREE FROM BURRS.
5. FINISH:
   - a. CHEMICAL FILM PER MIL-C-5541 (ES-591).
   - b. APPLY ZINC CHROMATE PRIMER PER MIL-P-6808
   - (C11) c. APPLY TT-E-529, CLASS A SEMI GLOSS ENAMEL, LIGHT GRAY, COLOR NO. 26440 OF FED-STD-595 ALL OVER. $\boxed{1}$
6. IDENTIFY USING DWG. NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

(C12) 7. $\boxed{1}$ CONTROLLED BY ICD MH01-01046-416



1 DIA. CBORE .15 DEEP
(D1)
.1250 +.0005 -.0000 DIA THRU
STRAIGHT MEDIUM KNURL
(C6)
(D2) (D3)
.15 +.03 -.00
.031 +.015 -.000 R
1.625 DIA.
(C10)
.50 DIA.
.091 +.003 -.001 DIA AS SHOWN
#4-40 NC-2B THD .22DEEP
90° CSINK TO MAJOR DIA OF THD
2 HOLES
.25
.56
120°
SEE NOTE 6
(C2)
(C8)
(D4)
(D1)
(C9)
(C7)

(C3) (C4) (C5)

1014578	1014578	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ±.02 3 PLACE DECIMALS ±.005 ANGLES +2° -2°	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
NEXT ASSY	USED ON	DO NOT SCALE THIS DRAWING	ACSP PN	WHEEL, POTENTIOMETER
APPLICATION		MATERIAL SEE NOTE 2	DRAWN C. LENZ DATE 19 APR '63	CODE IDENT NO.
		CONTRACT NAS9-497	CHECKED Hogue 17 MAY 63	SIZE D
			APPROVAL Earl Scholl 20 MAY 63	1014588
			APPROVAL 20 MAY 63	SCALE 2:1
			NASA APPROVAL W J 6-18-63	SHEET 1 OF 1
			MIT APPROVAL	

Charleston 20 MAY 63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISIONS		TDRR 01629			
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
B		UPGRADED FOR CLASS A RELEASE		6-11 63	E.L.
C 12		REVISED PER TDRR NO. 03901		18 OCT. 63	WK
D 4		REVISED PER TDRR NO. 04880		11 DEC. 63	
E 5		REVISED PER TDRR NO. 05943		4 FEB 64	WK

(C1)

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

2. MATERIAL:
AL ALY PER QQ-A-268, TEMPER T-4 (TYPE 2024-T4)(ES-2104).

3. UNLESS OTHERWISE SPECIFIED:
a. ALL EDGES MUST BE .005 TO .015 R OR CHAMFER.
b. SURFACE ROUGHNESS MUST NOT EXCEED $\overset{125}{\surd}$.

(E3)

4. MUST BE FREE FROM BURRS.

5. FINISH: MIL-A-8625 TYPE I (ES-385)

(E1)

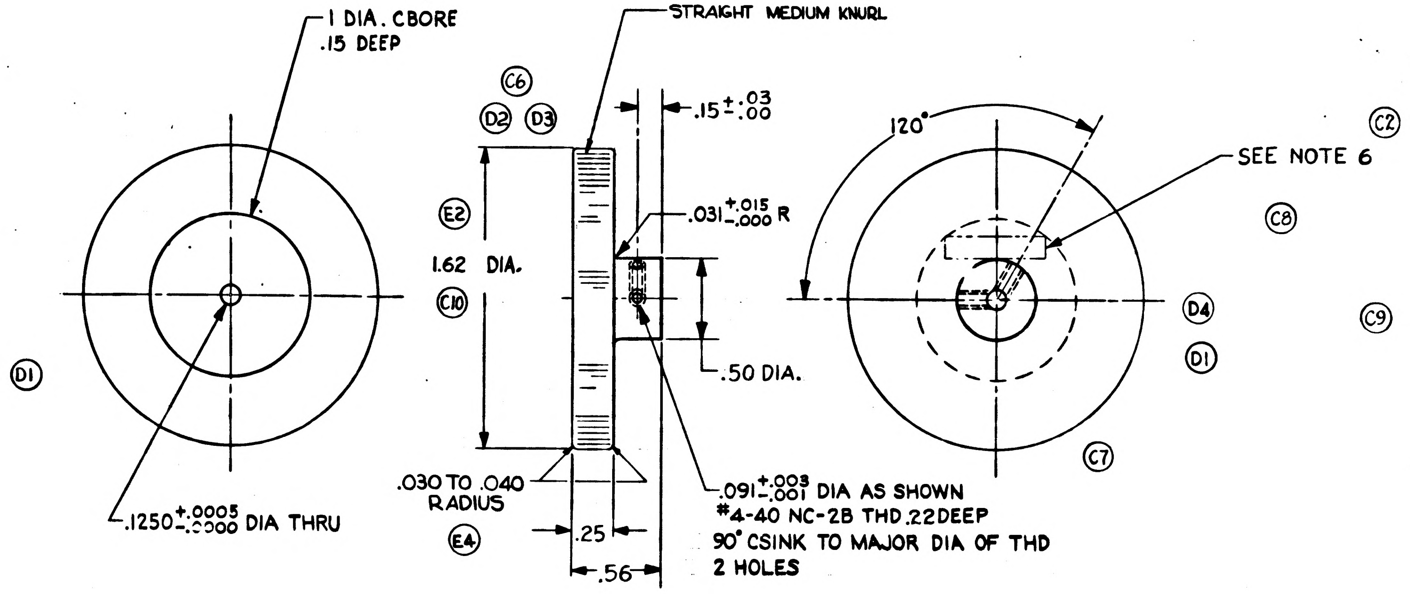
(C11)

(E5)

6. IDENTIFY USING DWG. NO. AND REVISION LETTER PER ND 1002019

(C12)

7. $\boxed{1}$ CONTROLLED BY ICD MH01-01046-416



1 DIA. CBORE .15 DEEP
.1250 +.0005 -.0000 DIA THRU
(D1)
STRAIGHT MEDIUM KNURL
(C6)
(D2) (D3)
(E2)
1.62 DIA.
(C10)
.15 +.03 -.00
.031 +.015 -.000 R
.50 DIA.
.030 TO .040 RADIUS
(E4)
.25
.56
.091 +.003 -.001 DIA AS SHOWN
#4-40 NC-2B THD .22 DEEP
90° CSINK TO MAJOR DIA OF THD
2 HOLES
120°
SEE NOTE 6
(C2)
(C8)
(D4)
(D1)
(C9)
(C7)

(C3) (C4) (C5)

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON 2 PLACE DECIMALS ±.02 3 PLACE DECIMALS ±.005 ANGLES +2° -2°	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
	ACSP PN			
	DRAWN C. LENZ DATE 19 APR '63	WHEEL, POTENTIOMETER		
	CHECKED Hogue 17 MAY 63			
	APPROVAL Earl Scholl 20 MAY 63			
DO NOT SCALE THIS DRAWING	APPROVAL 20 MAY 63			
MATERIAL SEE NOTE 2	NASA APPROVAL 6-19-63	CODE IDENT NO.	SIZE D	1014588
CONTRACT NAS9-497	MIT APPROVAL	SCALE 2:1		SHEET 1 OF 1

1014578	1014578
NEXT ASSY	USED ON
APPLICATION	

Charleston 20 May 63

A 1014591

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

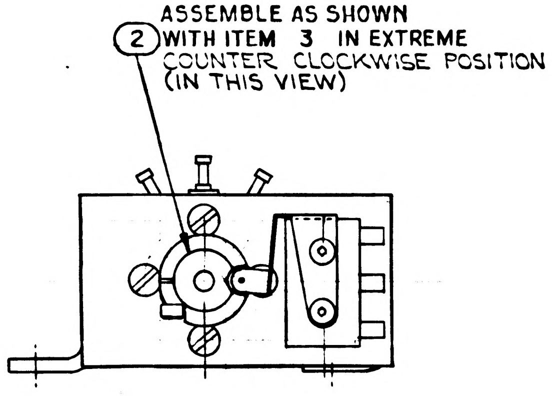
IDENTIFIY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

ASSEMBLE PER ND-

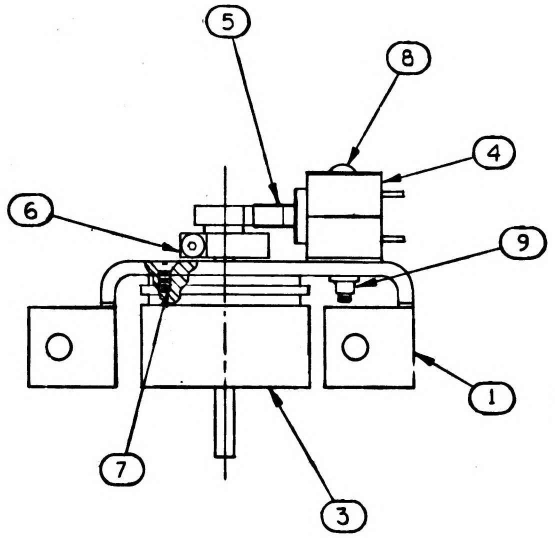
1 VENDOR ITEM - SPECIFICATION CONTROL DRAWING.

REVISIONS TDRR 01629

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		6-14 63	EL.



ASSEMBLE AS SHOWN WITH ITEM 3 IN EXTREME COUNTER CLOCKWISE POSITION (IN THIS VIEW)



					EFFEC-TIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				2		9	1000076-5	NUT-CLINCH
				2		8	1006783-95	SCREW-BUTTON HD
				4		7	1010477-3	SCREW-FLAT HD
				1		6	1010619	CLAMP
				1		5	1010457-3	ACTUATOR
				2		4	1010435-1	SWITCH, BASIC
				1		3	1010611	RESISTOR-VARIABLE
				1		2	1014593	CAM-SWITCH ACTUATING
				1		1	1014582	BRACKET, MOUNTING
				011				

QUANTITY REQUIRED

LIST OF PARTS AND MATERIALS

1 (items 3–9: VENDOR ITEM)

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014578		

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN J. Parks DATE 6-10-63
CHECKED P. Rende 13 Jun 63
APPROVAL E. W. [illegible] 13 June 63
APPROVAL [illegible] 14 Jun 63
NASA APPROVAL W. J. Rhine 6-18-63
MIT APPROVAL [illegible] 19 Jun 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL BRIGHTNESS
BRACKET & POT ASSY

CODE IDENT NO.
SIZE D
1014591
SCALE 2:1
SHEET

Charleston 13 Jun 63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

MIL 1075D-P

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

IDENTIFIY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

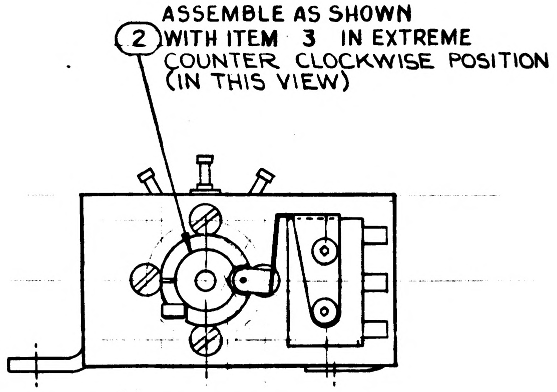
ASSEMBLE PER ND-

▷ *VENDOR ITEM - SPECIFICATION CONTROL DRAWING.*

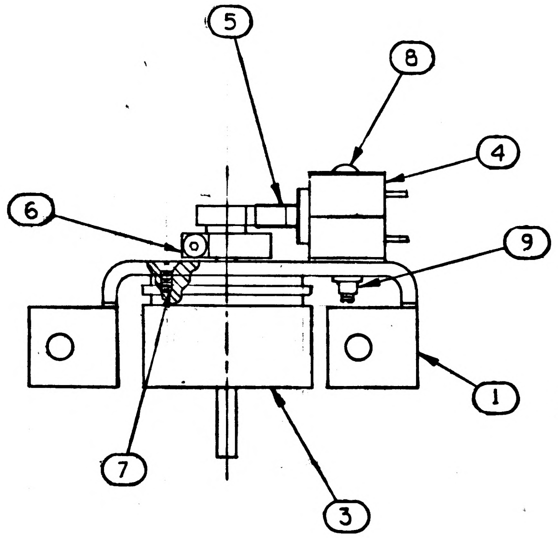
B | 1014591 | 2

REVISIONS TDRR 01629

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		*UPGRADED FOR CLASS A RELEASE*		6-14 63	E.L.
B2		(B1) ITEM 7 WAS 1010477-3 (B2) ITEM 8 WAS 1006783-88 TDRR 02769		28 AUG 63	



ASSEMBLE AS SHOWN WITH ITEM 3 IN EXTREME COUNTER CLOCKWISE POSITION (IN THIS VIEW)



				QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
				2		9	1000076-5	NUT-CLINCH
				2		8	1006783-94	SCREW-BUTTON HD
				4		7	1010477-1	SCREW-FLAT HD
				1		6	1010619	CLAMP
				1		5	1010457-3	ACTUATOR
				2		4	1010435-1	SWITCH, BASIC
				1		3	1010611	RESISTOR-VARIABLE
				1		2	1014593	CAM-SWITCH ACTUATING
				1		1	1014582	BRACKET, MOUNTING

▷ (items 3–9)

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014578		

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — DECIMALS + — ANGLES + —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN J. Parks DATE 6-10-63
CHECKED P. Reinold 13 Jun 63
APPROVAL D.W. Mickey 13 June 63
APPROVAL 14 Jun 63
NASA APPROVAL 6-18-63
MIT APPROVAL 19 Jun 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL BRIGHTNESS
BRACKET & POT ASSY

CODE IDENT NO. | SIZE D | 1014591
SCALE 2:1 | SHEET 1 OF 1

3 Charleston 13 Jun 63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

MIL 10780-P

Ⓒ2 NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFIY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

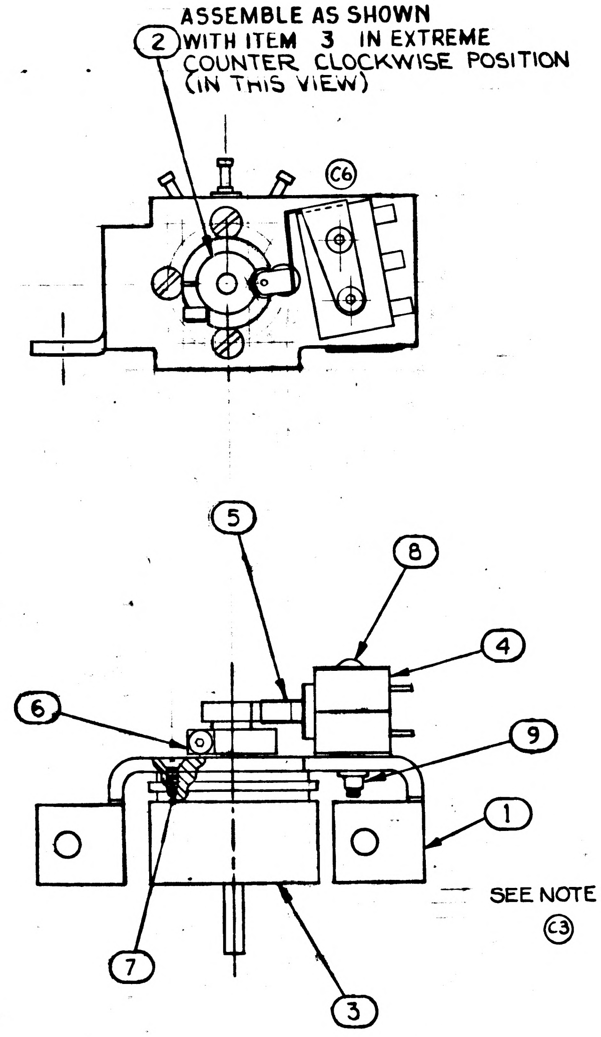
Ⓒ1

3. *VENDOR ITEM - SPECIFICATION CONTROL DRAWING.*

1014591

REVISIONS TDRR 01629

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		6-14 63	EL.
B₂		Ⓑ1 ITEM 7 WAS 1010477-3 Ⓑ2 ITEM 8 WAS 1006783-55 TDRR 02769		28 AUG 63	
C 6		REVISED PER TDRR NO. 03900		18 OCT. 63	WH


ASSEMBLE AS SHOWN WITH ITEM 3 IN EXTREME COUNTER CLOCKWISE POSITION (IN THIS VIEW)
2
C6
5
8
4
6
9
1
7
3
SEE NOTE 3
C3

QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2		9	1000076-5	NUT-CLINCH
2		8	1006783-94	SCREW-BUTTON HD
4		7	1010477-1	SCREW-FLAT HD
1		6	1010619	CLAMP
1		5	1010457-3	ACTUATOR
2		4	1010435-1	SWITCH, BASIC
1		3	1010611	RESISTOR-VARIABLE
1		2	1014593	CAM-SWITCH ACTUATING
1		1	1014582	BRACKET, MOUNTING

LIST OF PARTS AND MATERIALS

Ⓒ5

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014578	1014578	

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON

FRACTIONS ± DECIMALS ± ANGLES ±

DO NOT SCALE THIS DRAWING

MATERIAL

CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN J. Parks DATE 6-10-63
CHECKED P. Kende 13 Jun 63
APPROVAL D.W. Mickey 13 June 63
APPROVAL [illegible] 14 Jun 63
NASA APPROVAL W.J. Rhine 6-18-63
MIT APPROVAL [illegible] 19 Jun 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL BRIGHTNESS
BRACKET & POT ASSY

CODE IDENT NO.
SIZE D
1014591
SCALE 2:1
SHEET 1 OF 1

3 Charleston 13 Jun 63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

D 1014591 2

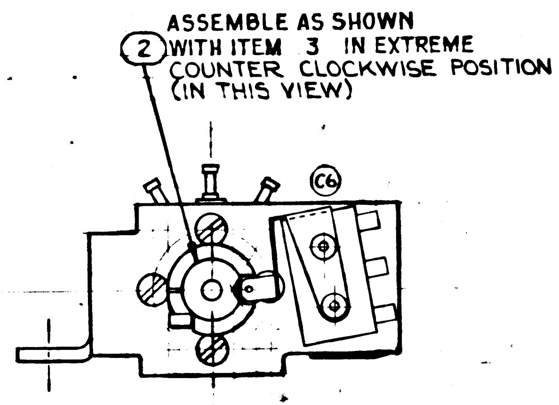
ⓒ2 NOTES:
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFIY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

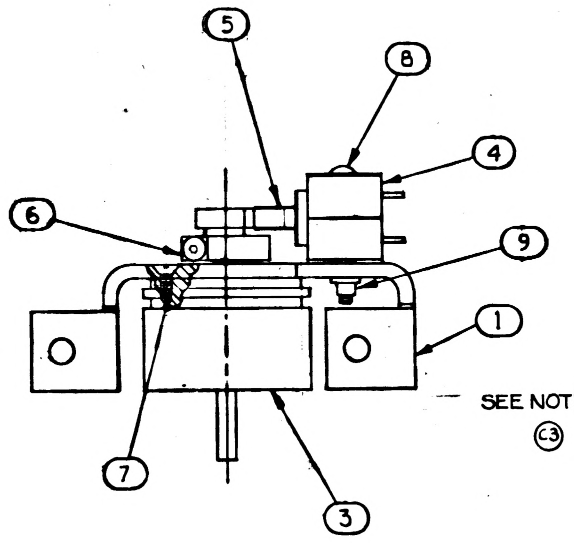
ⓒ1

3. *VENDOR ITEM - SPECIFICATION CONTROL DRAWING.*

REVISIONS TDRR 01629

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		*UPGRADED FOR CLASS A RELEASE*		6-14 63	EL.
B2		(B1) ITEM 7 WAS 1010477-3 (B2) ITEM 8 WAS 1006783-95 TDRR 02769		28 AUG 63	
C 6		REVISED PER TDRR NO. 03900		18 OCT. 63	WH
D		REVISED PER TDRR NO. 08749		4 JUN 64	JWP





SEE NOTE 3 ⓒ3

QUANTITY REQUIRED 011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2		9	1000076-5	NUT-CLINCH
2		8	1006783-94	SCREW-BUTTON HD
4		7	1010477-1	SCREW-FLAT HD
1		6	1010619	CLAMP
1		5	1010457-3	ACTUATOR
2		4	1010435-1	SWITCH, BASIC
1		3	1010764-2	RESISTOR-VARIABLE
1		2	1014593	CAM-SWITCH ACTUATING
1		1	1014582	BRACKET, MOUNTING

LIST OF PARTS AND MATERIALS

ⓒ5

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014578	1014578	

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN J. Parks DATE 6-10-63
CHECKED P. Kunde 13 Jun 63
APPROVAL D. W. Midney 13 June 63
APPROVAL 13 Jun 63
NASA APPROVAL 6-18-63
MIT APPROVAL 19 Jun 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL BRIGHTNESS
BRACKET & POT ASSY

CODE IDENT NO. | SIZE D | 1014591
SCALE 2:1 | SHEET 1 OF 1 ⓒ4

3 Charleston 13 Jun 63

Ⓒ2 NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFIY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

Ⓒ1

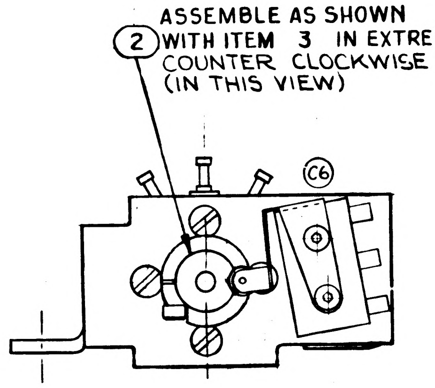
3. *VENDOR ITEM - SPECIFICATION CONTROL DRAWING.*
4. SERIALIZE PER ND 1002023.

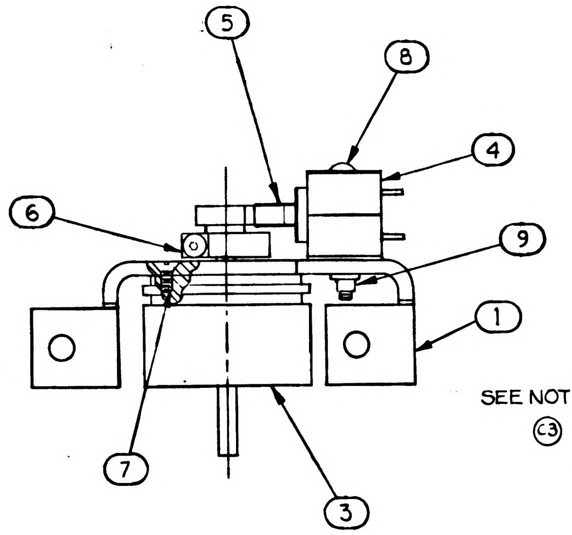
E | 1014591 | 2

REVISIONS *TDRR 01629*

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		*UPGRADED FOR CLASS A RELEASE*		6-14 63	E.L.
B2		Ⓑ1 ITEM 7 WAS 1010477-3 Ⓑ2 ITEM 8 WAS 1006783-98 TDRR 02769		28 AUG 63	
C 6		REVISED PER TDRR NO. 03900		18 OCT. 63	
D		REVISED PER TDRR NO. 08749		4 JUN 64	JWP
E		REVISED PER TDRR 11312		12 AUG 64	JWP

ASSEMBLE AS SHOWN WITH ITEM 3 IN EXTREME COUNTER CLOCKWISE POSITION (IN THIS VIEW)





SEE NOTE 3 Ⓒ3

QUANTITY REQUIRED (011)	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2		9	1000076-5	NUT-CLINCH
2		8	1006783-94	SCREW-BUTTON HD
4		7	1010477-1	SCREW-FLAT HD
1		6	1010619	CLAMP
1		5	1010457-3	ACTUATOR
2		4	1010435-1	SWITCH, BASIC
1		3	1010764-2	RESISTOR-VARIABLE
1		2	1014593	CAM-SWITCH ACTUATING
1		1	1014582	BRACKET, MOUNTING

LIST OF PARTS AND MATERIALS

Ⓒ5

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014578	1014578	

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN J. Parks DATE 6-10-63
CHECKED P. Kende 13 Jun 63
APPROVAL D.W. Mieling 13 June 63
APPROVAL 14 Jun 63
NASA APPROVAL 6-18-63
MIT APPROVAL 19 Jun 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL BRIGHTNESS
BRACKET & POT ASSY

CODE IDENT NO. | SIZE D | 1014591
SCALE 2:1 | SHEET 1 OF 1

Ⓒ4

Charleston 13 Jun 63

Ⓒ2 NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

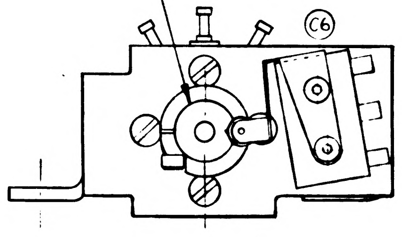
Ⓒ1

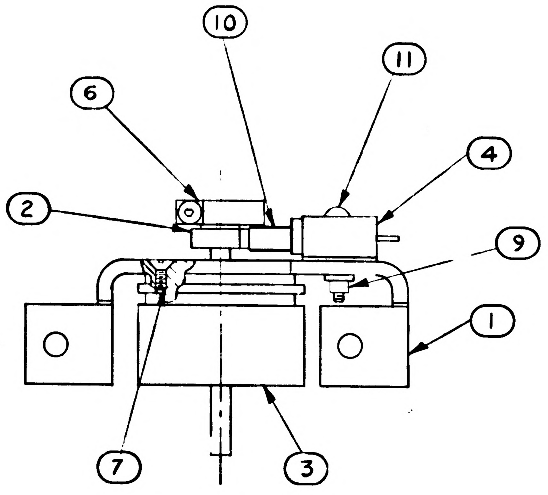
3. *VENDOR ITEM - SPECIFICATION CONTROL DRAWING.*
4. SERIALIZE PER ND 1002023.

REVISIONS TDRR 01629

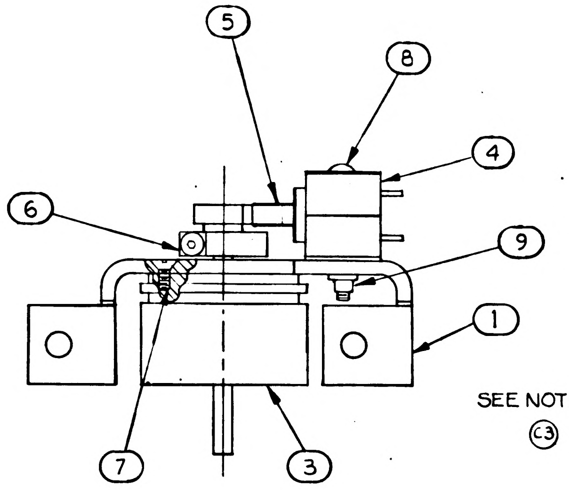
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		*UPGRADED FOR CLASS A RELEASE*		6-14 63	E.L.
B_2		Ⓑ1 ITEM 7 WAS 1010477-3 Ⓑ2 ITEM 8 WAS 1006783-96 TDRR 02769		28 AUG 63	
C 6		REVISED PER TDRR NO. 03900		18 OCT. 63	WH
D		REVISED PER TDRR NO. 08749		4 JUN 64	JWP
E		REVISED PER TDRR 11312		12 AUG 64	JWP
F		REVISED PER TDRR 17694		23 MAR 65	JWP J.E.G.

ASSEMBLE AS SHOWN WITH ITEM 3 IN EXTREME COUNTER CLOCKWISE POSITION (IN THIS VIEW)





-021 ASSEMBLY



-011 ASSEMBLY

SEE NOTE 3 Ⓒ3 (items 3–11)

021	011	EFFECTIVITY	ITEM NO	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
2	-		11	1006783-13	SCREW-BUTTON HD.
1	-		10	1010457-5	ACTUATOR
2	2		9	1000076-5	NUT-CLINCH
-	2		8	1006783-94	SCREW-BUTTON HD
4	4		7	1010477-1	SCREW-FLAT HD
1	1		6	1010619-1	CLAMP
-	1		5	1010457-3	ACTUATOR
1	2		4	1010435-1	SWITCH, BASIC
1	1		3	1010764-2	RESISTOR-VARIABLE
1	1		2	1014593	CAM-SWITCH ACTUATING
1	1		1	1014582	BRACKET, MOUNTING

QUANTITY REQUIRED — LIST OF PARTS AND MATERIALS

Ⓒ5

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014664-011	1014664-011	-021
1015053-011	1015053-011	-011
1014578-021	1014578-021	-011
1014578-011	1014578-011	-011
~~1014578~~	~~1014578~~	

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN J. Parks DATE 6-10-63
CHECKED P. Kende 13 Jun 63
APPROVAL D.W. Mickey 13 Jun 63
APPROVAL [illegible] 14 Jun 63
NASA APPROVAL W.J. [illegible] 6-18-63
MIT APPROVAL [illegible] 19 Jun 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL BRIGHTNESS
BRACKET & POT ASSY

CODE IDENT NO
SIZE D
1014591
SCALE 2:1
SHEET 1 OF 1
Ⓒ4

G 1014591

(C2) NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFY USING DRAWING NO. AND, REVISION LETTER PER ND 1002019.

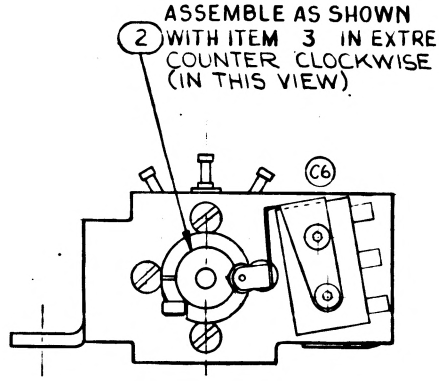
(C1)

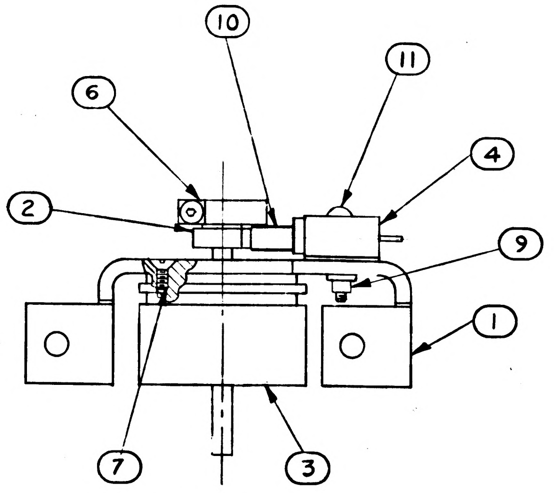
3. *VENDOR ITEM - SPECIFICATION CONTROL DRAWING.*
4. SERIALIZE PER ND 1002023.

REVISIONS TDRR 01667

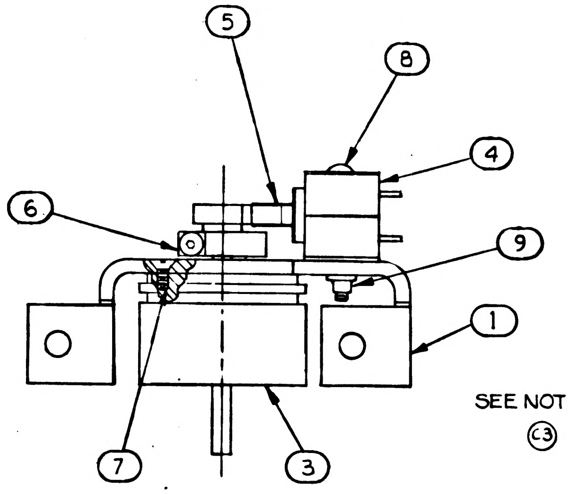
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		*UPGRADED FOR CLASS A RELEASE*		6-14 63	E.L.
B2		(B1) ITEM 7 WAS 1010477-3 (B2) ITEM 8 WAS 1006783-96 TDRR 02769		28 AUG 63	
C6		REVISED PER TDRR NO. 03900		18 OCT. 63	
D		REVISED PER TDRR NO. 08749		4 JUN 64	JWP
E		REVISED PER TDRR 11312		12 AUG 64	JWP
F		REVISED PER TDRR 17694		23 MAR 65	JNP
G		REVISED PER TDRR 17725		26 MAR 65	RW

ASSEMBLE AS SHOWN WITH ITEM 3 IN EXTREME COUNTER CLOCKWISE POSITION (IN THIS VIEW)





-021 ASSEMBLY



-011 ASSEMBLY

SEE NOTE 3 (C3)

QUANTITY REQUIRED				EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
		021	011				
		2	-		11	1006783-13	SCREW-BUTTON HD.
		1	-		10	1010457-5	ACTUATOR
		2	2		9	1000076-5	NUT-CLINCH
		-	2		8	1006783-94	SCREW-BUTTON HD
		4	4		7	1010477-1	SCREW-FLAT HD
		1	1		6	1010619-1	CLAMP
		-	1		5	1010457-3	ACTUATOR
		1	2		4	1010901-1	SWITCH, BASIC
		1	1		3	1010764-2	RESISTOR-VARIABLE
		1	1		2	1014593	CAM-SWITCH ACTUATING
		1	1		1	1014582	BRACKET, MOUNTING

LIST OF PARTS AND MATERIALS

(C5)

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014664-011	1014664-011	-021
1015053-011	1015053-011	-011
1014578-021	1014578-021	-011
1014578-011	1014578-011	-011
~~1014578~~	~~1014578~~	

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	+ —	+ —
− —	− —	− —

DO NOT SCALE THIS DRAWING

MATERIAL —

CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN J. Parks DATE 6-10-63
CHECKED P. Lamb 13 Jun 63
APPROVAL D.W. Mulry 13 June 63
APPROVAL 14 Jun 63
NASA APPROVAL 6-18-63
MIT APPROVAL 19 Jun 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL BRIGHTNESS
BRACKET & POT ASSY

CODE IDENT NO. | SIZE D | 1014591

SCALE 2:1 | SHEET 1 OF 1

(C4)

Charleston 13 Jun 63

MIL 10780-P

(C2) NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. IDENTIFY USING DRAWING NO. AND REVISION LETTER PER ND 1002019.

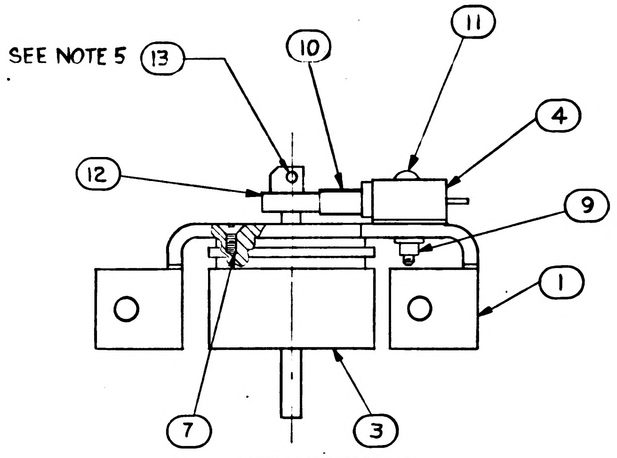
(C1)

3. *VENDOR ITEM - SPECIFICATION CONTROL DRAWING.*
4. SERIALIZE PER ND 1002023.
5. SECURE ITEM 12 ON ITEM 3 USING ITEM 14 PER ND 1002211.

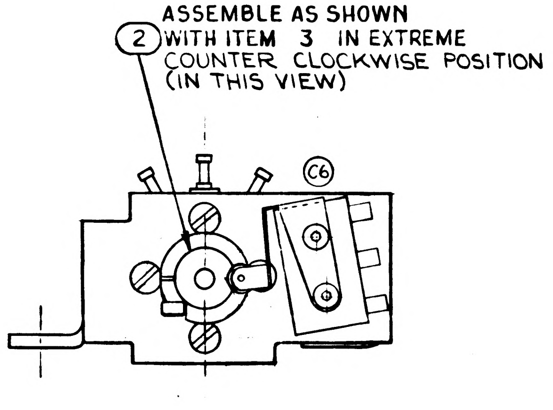
H	1014591	2

REVISIONS TDRR 01625

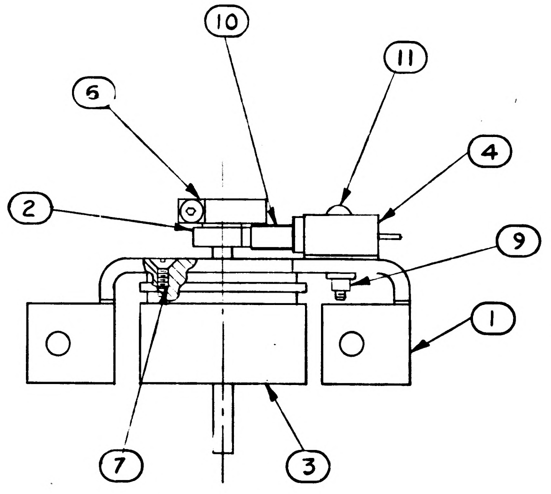
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD
A		*UPGRADED FOR CLASS A RELEASE*		6-14 63	E.L.
B2		(B1) ITEM 7 WAS 1010477-3 (B2) ITEM 8 WAS 1006783-96 TDRR 02769		28 AUG 63	
C 6		REVISED PER TDRR NO. 03900		18 OCT. 63	WK
D		REVISED PER TDRR NO. 08749		4 JUN 64	JWP
E		REVISED PER TDRR 11312		12 AUG 64	JWP
F		REVISED PER TDRR 17694		23 MAR 65	JWP J.E.G.
G		REVISED PER TDRR 17725		26 MAR 65	RJ
H		REVISED PER TDRR 26527		1 MAR 66	DKD RWH



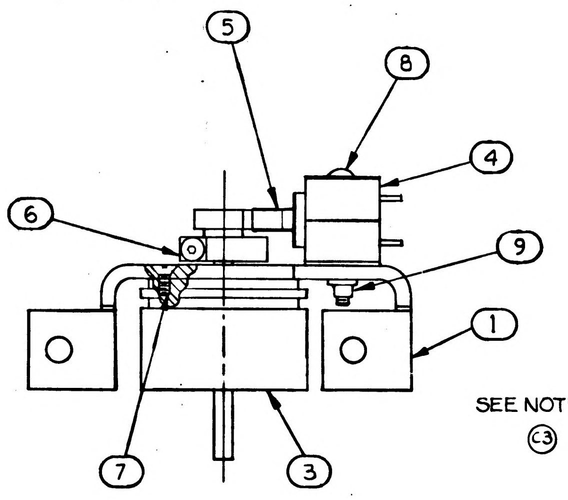
-031 ASSEMBLY



ASSEMBLE AS SHOWN WITH ITEM 3 IN EXTREME COUNTER CLOCKWISE POSITION (IN THIS VIEW)
2
C6



-021 ASSEMBLY



-011 ASSEMBLY

031	021	011	EFFECTIVITY	ITEM NO.	PART OR IDENTIFYING NUMBER	NOMENCLATURE OR DESCRIPTION
AR	-	-		14	MIL-S-22473	SEALING COMP. RETAINING GRADE A-A
2	-	-		13	NAS1081C02D2L	SCREW-SET, SELF LOCK
1	-	-		12	1023060	CAM, SWITCH ACTUATING
2	2	-		11	1006783-13	SCREW-BUTTON HD.
1	1	-		10	1010457-5	ACTUATOR
2	2	2		9	1000076-5	NUT-CLINCH
-	-	2		8	1006783-94	SCREW-BUTTON HD
4	4	4		7	1010477-1	SCREW-FLAT HD
-	1	1		6	1010619-1	CLAMP
-	-	1		5	1010457-3	ACTUATOR
1	1	2		4	1010901-1	SWITCH, BASIC
1	1	1		3	1010764-2	RESISTOR-VARIABLE
-	1	1		2	1014593	CAM-SWITCH ACTUATING
1	1	1		1	1014582	BRACKET, MOUNTING

QUANTITY REQUIRED — LIST OF PARTS AND MATERIALS

SEE NOTE 3 (items 3 through 11) (C3)

(C5)

NEXT ASSY	USED ON	APPLICABLE DASH NO.
1014664-011	1014664-011	-021
1015053-011	1015053-011	-011
1014578-021	1014578-021	-011
1014578-011	1014578-011	-011
~~1014578~~	~~1014578~~	

APPLICATION

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + — — DECIMALS + — — ANGLES + — —

DO NOT SCALE THIS DRAWING

MATERIAL ———

CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN J. Parks DATE 6-10-63
CHECKED P. Kende 13 Jun 63
APPROVAL D.W. Mieling 13 June 63
APPROVAL A.Pickel 14 Jun 63
NASA APPROVAL W.J. Rhine 6-18-63
MIT APPROVAL W. Hoffman 19 Jun 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PANEL BRIGHTNESS
BRACKET & POT ASSY

CODE IDENT NO. | SIZE D | 1014591

SCALE 2:1 | SHEET 1 OF 1

(C4)

Charleston 13 Jun 63

MIL 10780-F

REVISIONS TDRR 01629					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		6-14-63	E.L.

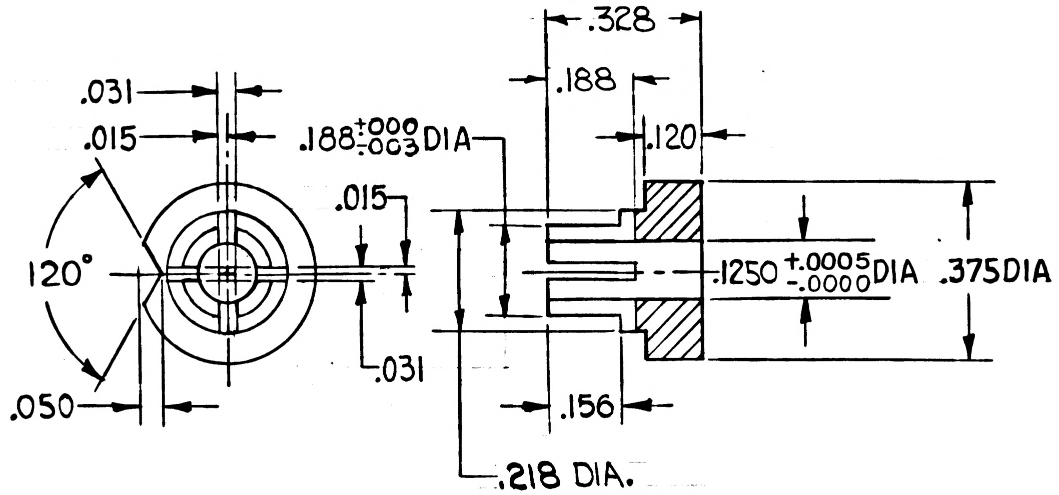
1 ▷ MATERIAL:- QQ-S-763 CLASS 303 OR 303 Se COND A, CF (SST ES-380).

FINISH:- MIL-F-14072 (SIG "C") E-300 (PASSIVATE ES-585).

UNLESS OTHERWISE SPECIFIED:-
- MUST BE FREE FROM BURRS.
- SURFACE ROUGHNESS MUST NOT EXCEED $\sqrt{}^{125}$.
- ALL MACHINED CORNERS MUST BE .005 TO .015R OR CHAMFER.

IDENTIFY USING DRAWING NO. & REVISION LETTER PER MIL-STD-130 (ES-267).

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.



1014591	1014578		
NEXT ASSY	USED ON		
APPLICATION			

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+1°
-1/64	-.005	-1°

DO NOT SCALE THIS DRAWING

MATERIAL ▷1

CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN J. Parks DATE 6-6-63
CHECKED P. Pemde 13 JUN 63
APPROVAL 13 JUNE 63
APPROVAL 14 JUN 63
NASA APPROVAL 6-18-63
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CAM-SWITCH ACTUATING

CODE IDENT NO. | SIZE C | 1014593
SCALE 4:1 | SHEET

2 Charleston 13 Jun 63

MIL 1077C—P

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1 MATERIAL:- QQ-S-763 CLASS 303 OR 303 Se COND A, CF (SST ES-380).

FINISH:- MIL-F-14072 (SIG "C") E-300 (PASSIVATE ES-585).

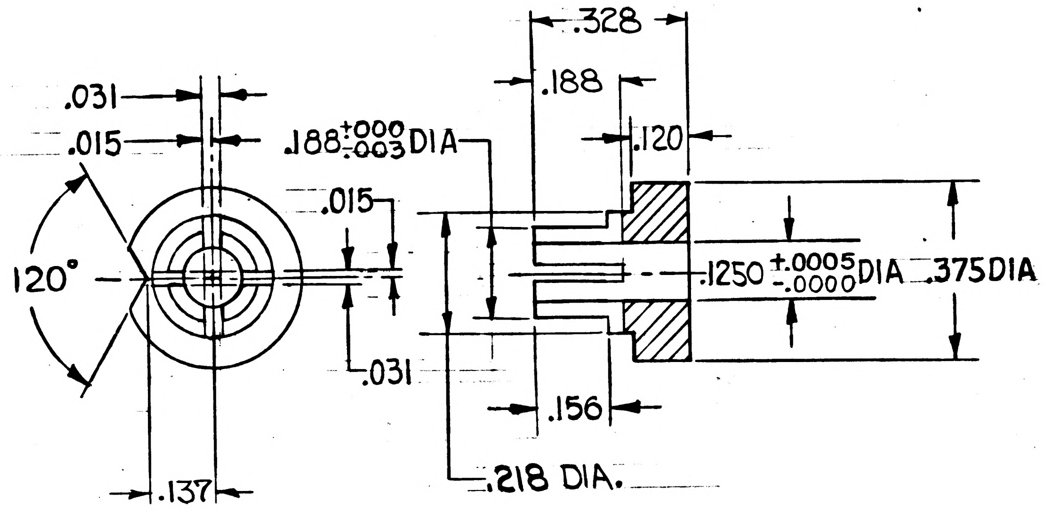
UNLESS OTHERWISE SPECIFIED:-
MUST BE FREE FROM BURRS.
SURFACE ROUGHNESS MUST NOT EXCEED 125√.
ALL MACHINED CORNERS MUST BE .005 TO .015R OR CHAMFER.

IDENTIFY USING DRAWING NO. & REVISION LETTER
PER MIL-STD-130 (ES-267).

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS
PRESCRIBED BY MIL-D-70327.

REVISIONS TDRR 01629

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		6-14 63	E.L.
B	B-2	(B1) OMITTED .050 DIMENSION (B2) ADDED .137 DIMENSION.	TDRR 02423	6 AUG. 63	WR



1014591	1014578	
NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+1°
-1/64	-.005	-1°

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN J. Parks DATE 6-6-63
CHECKED P. Pemle 13 JUN 63
APPROVAL Dr. Mink 13 JUNE 63
APPROVAL 14 JUN 63
NASA APPROVAL 6-18-63
MIT APPROVAL 19 June 63
Charleston 13 Jun 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

CAM-SWITCH ACTUATING

CODE IDENT NO.	SIZE	
	C	1014593
SCALE 4:1		SHEET

MIL 1077C-P

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1 MATERIAL:- QQ-A-362 T-3 (2034 AL ALY ES-2104).
FINISH:- MIL-C-5541 (CHEMICAL FILM ES-591)

2 APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589). APPLY ND-1002125 LUSTERLESS ENAMEL, COLOR NO 36231 OF FED-STD-595 PER ND-1002110.

UNLESS OTHERWISE SPECIFIED:-
MUST BE FREE FROM BURRS AND SHARP CORNERS.

IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

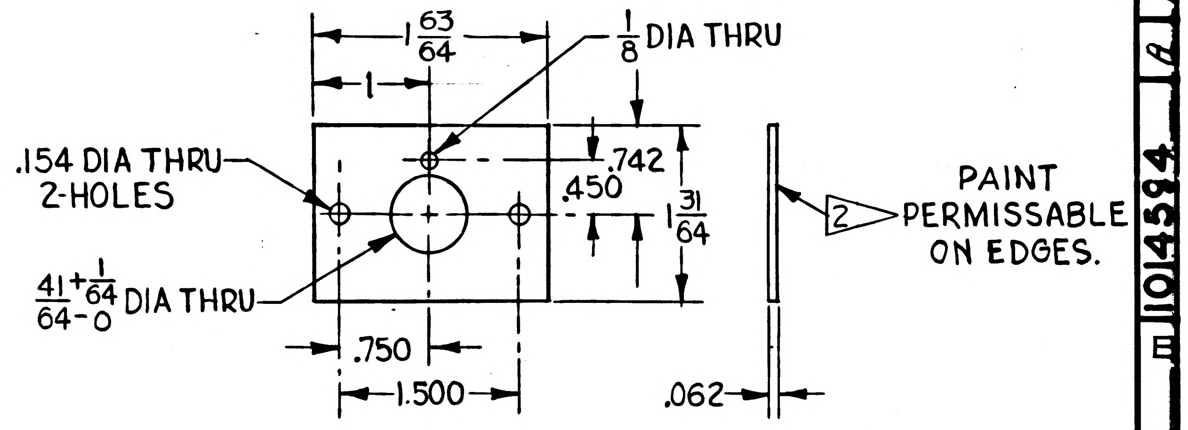
INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

SURFACE ROUGHNESS SHALL NOT EXCEED $\overset{125}{\checkmark}$

ALL EDGES MUST BE .005 TO .015 R. OR CHAMFER.

REVISIONS TDRR 01629

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		6-14-63	E.L.



1014578	1014578	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN
NEXT ASSY	USED ON	FRACTIONS $+\frac{1}{64}$ $-\frac{1}{64}$ DECIMALS +.005 -.005 ANGLES + - - -	ACSP PN
APPLICATION		DO NOT SCALE THIS DRAWING	DRAWN J. Parks DATE 6-6-63 CHECKED P. Remde 13 JUN 63 APPROVAL D.W. Micling 13 JUNE 63 APPROVAL A.Kodel 14 JUN 63
		MATERIAL 1	NASA APPROVAL W.J. Rhine 6-19-63 MIT APPROVAL W. Wuffer 19 Jun 63
		CONTRACT	

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

MOUNTING PLATE - SWITCH

CODE IDENT NO.
SIZE C
1014594
SCALE FULL
SHEET

Charleston 13 Jun 63

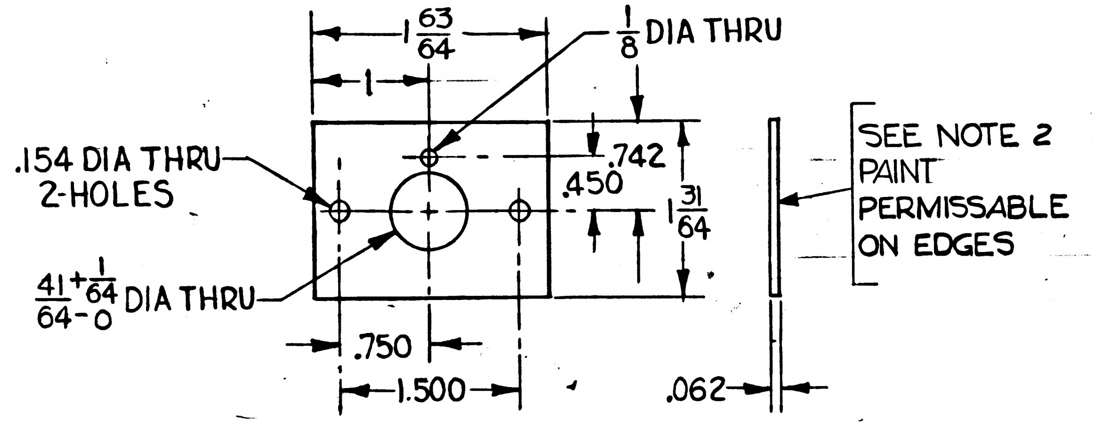
INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

MIL 1077C—P

1014594 A

REVISIONS TDRR 01629					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		6-14-63	E.L.
B		REVISED PER TDRR NO. 04078		10/24/63	WK

NOTES:
1. MATERIAL:- QQ-A-362 T-3 (2024 AL ALY ES-2104).
2. FINISH:- MIL-C-5541 (CHEMICAL FILM ES-591) APPLY ZINC CHROMATE PRIMER PER MIL-P-6808 (ES-2589). APPLY TT-E-527 LUSTERLESS ENAMEL, COLOR NO 36231 OF FED-STD-595 PER ND-1002110. $\boxed{1}$
3. UNLESS OTHERWISE SPECIFIED:-
   A. MUST BE FREE FROM BURRS AND SHARP CORNERS.
4. IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).
5. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
6. SURFACE ROUGHNESS SHALL NOT EXCEED $^{125}\surd$
7. ALL EDGES MUST BE .005 TO .015 R. OR CHAMFER.
8. $\boxed{1}$ CONTROLLED BY ICD MH01-01046-416



1014578 NEXT ASSY	1014578 USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS $+\frac{1}{64}$ $-\frac{1}{64}$ DECIMALS +.005 -.005 ANGLES + - - - DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN DRAWN J. Parks DATE 6-6-63 CHECKED P. Remde 13 JUN 63 APPROVAL D.W. Mickey 13 JUNE 63 APPROVAL A.F. Kodel 14 JUN 63	MANNED SPACECRAFT CENTER HOUSTON, TEXAS MOUNTING PLATE - SWITCH
APPLICATION		MATERIAL SEE NOTE 1 CONTRACT	NASA APPROVAL W.J. Rhine 6-19-63 MIT APPROVAL 19 Jun 63	CODE IDENT NO. SIZE C 1014594 SCALE FULL SHEET 1 OF 1

Charleston 13 Jun 63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

MIL 1077C-P

1 MATERIAL:-QQ-A-318 TEMPER H-34(5052 AL ALY ES-2105).
FINISH: MIL-C-5541 (CHEMICAL FILM ES-591).

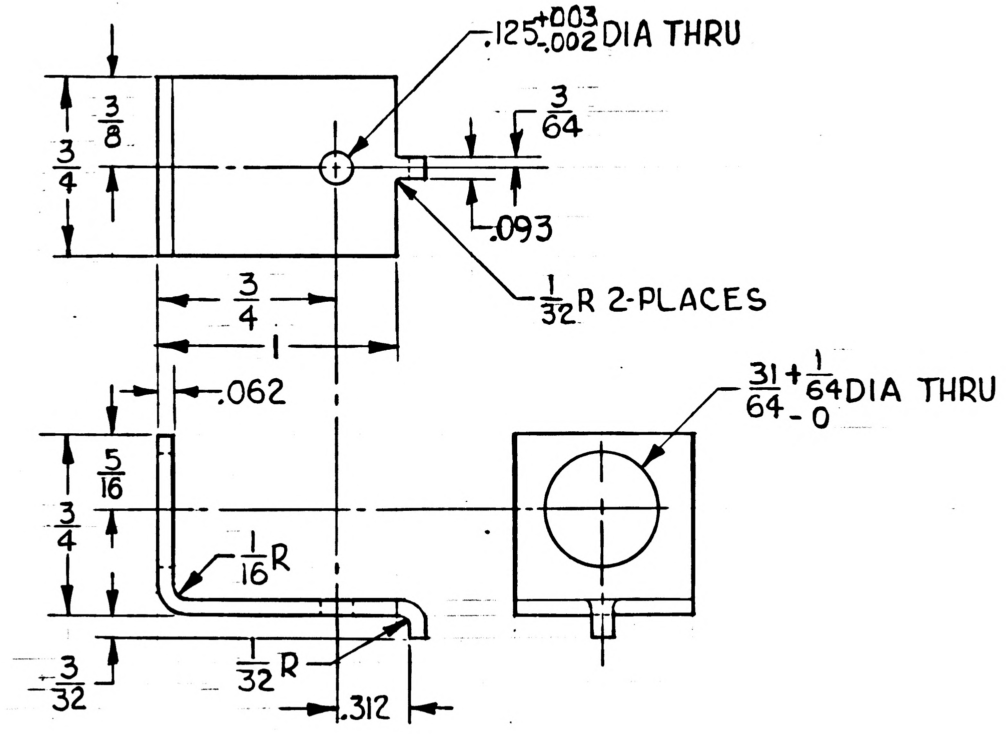
UNLESS OTHERWISE SPECIFIED:
MUST BE FREE FROM BURRS AND SHARP CORNERS.

IDENTIFY USING DRAWING NO. AND REVISION LETTER PER MIL-STD-130 (ES-267).

INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

REVISIONS TDRR01629

SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
A		UPGRADED FOR CLASS A RELEASE		6-14 63	E.L.



1014578	1014578
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+1/64	+.005	+ –
-1/64	-.005	– –

DO NOT SCALE THIS DRAWING

MATERIAL 1

CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN J. Parks DATE 6-6-63
CHECKED P. Remde 13 JUN 63
APPROVAL D.W. Mieling 13 JUNE 63
APPROVAL 14 JUN 63
NASA APPROVAL W.J. Rhine 6-19-63
MIT APPROVAL 19 Jun 63

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

MOUNTING BRACKET-LAMP

CODE IDENT NO.
SIZE C
1014595
SCALE 2:1
SHEET

Charleston · 13 · Jun 63 .

MIL 1077C—P

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

1014595 A

1014606

REVISIONS TDRR 01876				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL
	A	REVISED PER TDRR 02314	7/31/63	WK

PART NO.	DESCRIPTION	REQD.
1014605	AGE Harness Assembly	1
1007161	PSA End Connector Assembly	1

MASTER

QTY. REQD.	NOMENCLATURE OR DESCRIPTION	PART OR IDENTIFYING NO.	SPECIFICATION	MATERIAL OR NOTES	FIND NO.

LIST OF PARTS AND MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES

DO NOT SCALE THIS DRAWING

MATERIAL:

MIT
INSTRUMENTATION LAB
CONTRACT
NAS 9-153

		DATE
APPROVED		7-2-63
CHECKED		
DRAWN		

APPROVED FOR MSC
W J Swift Jr 7/2/63

MIT/IL APPROVAL	DATE
W Kupfer	2 July 63

AGE HARNESS & PSA END CONNECTOR ASSEMBLY

SCALE	UNIT WT.	CODE IDENT.

MIT
INSTRUMENTATION
LABORATORY
CAMBRIDGE, MASS.

DWG. NO.

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

NASA DRAWING NO.
1014606

SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS 1014606 A
Original Issue Date: 14 July 1964
Release Authority: TDRR 10951
Class A Release

PROCUREMENT SPECIFICATION

FOR

AGE HARNESS & PSA END CONNECTOR ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3-2-65	A	17063	1, 2 and 3	W.K.	W.J.R.

This specification consists of page i and 1 to 4 inclusive.

APPROVALS	7/14/64 NASA/MSC	14 July 64 6/15/64 MIT/IL	ACSP

APOLLO G&N Specification
PS-1014606 A

PROCUREMENT SPECIFICATION

FOR

AGE HARNESS & PSA END CONNECTOR ASSEMBLY

1. SCOPE.

1.1 PURPOSE. This specification establishes the requirements for the procurement of the Age Harness & PSA End Connector Assembly, Drawing 1014606, hereafter called the assembly.

1.2 CLASSIFICATION. The requirements for the equipment covered by this specification shall be classified as follows. Unless identified by the respective type, all requirements of this specification are applicable for all types.

a. Type I. The special requirements for Part Number 1014606-000 shall be designated as Type I.

b. Type II. The special requirements for Part Number 1014606-011 shall be designated as Type II.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
ND-1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment
FTM-1014606	Final Test Method, for Age Harness & PSA End Connector Assembly

DRAWINGS

APOLLO G&N

1014606	Age Harness & PSA End Connector Assembly
1014607	Interconnection List of Age Interconnect Harness & PSA End Connector Assembly (For Reference Only)
1021710	Interconnect List (For Reference Only)

3. REQUIREMENTS

3.1 GENERAL SPECIFICATION. All of the requirements of Specification ND-1002210 shall apply as requirements of this specification.

3.2 DESCRIPTION. The assembly shall be used to interconnect APOLLO Guidance and Navigation Equipment.

3.3 FUNCTIONAL REQUIREMENTS.

3.3.1 Insulation Resistance. With 500±50 vdc applied, the insulation resistance between pin J11-L4 (structure ground) and all other pins of the assembly with the exception of those specified in Table I, and between each pin and all other pins not electrically connected including all spare pins shall be greater than or equal to 100 megohms.

TABLE I

PINS NOT TO BE MEASURED

PIN NUMBER	PIN NUMBER
J1-41	J16-N4
J2-41	J17-L6
J3-41	J18-R5
J4-41	J19-P3
J5-41	J20-G4
J6-91	P1-84
J8-29	P5-R
J9-91	P6-G
J12-K3	P8-t
J13-C6	P11-L
J14-H5	P12-L
J15-K3	P10-1

3.3.2 Continuity and DC Resistance. Continuity and dc resistance shall be in accordance with FTM-1014606. (Reference Drawing 1014607 or Reference Drawing 1021710).

3.4 PERFORMANCE AND PRODUCT CHARACTERISTICS.

3.4.1 Service Life.

3.4.1.1 Operating Life. The assembly shall meet performance specifications for at least 2000 hours of operation, excluding the supplier's test time of the completed unit.

3.4.1.2 Shelf Life. The assembly shall have a life of at least 3 years, without operation when packaged in accordance with Specification ND-1002214 at ambient room temperature after final acceptance at the supplier's facility.

3.4.2 Reliability. Design objectives require maximum reliability of the assembly during its period of useful life. Every effort shall be made to design and produce units capable of meeting a maximum failure rate of 0.38 failures per million hours.

4. QUALITY ASSURANCE PROVISIONS

4.1 GENERAL SPECIFICATION. Unless otherwise specified herein, all the quality assurance provisions of Specification ND-1002210 shall form a part of this specification.

4.2 NASA ACCEPTANCE INSPECTION. The NASA acceptance inspection shall be in accordance with Specification FTM-1014606.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND-1002210.

6. NOTES. None.

Notice: When APOLLO G&N drawings, specifications, or other data are used for any purpose other than in connection with a definitely related NASA procurement operation, NASA thereby incurs no responsibility nor any obligation whatsoever, and the fact that NASA may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

EA:lv

APOLLO G&N Specification
ATP1014606 A
Original Issue Date:
Release Authority: TDRR 14806
Class A **Release**

ASSEMBLY TEST PROCEDURE

FOR

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
2/8/65	A	17064	2, 3, 5	W. K.	W. J. R.

This specification consists of page 1 **to** 5 **inclusive.**

APPROVALS	W J Rhine 12-15-64 **NASA/MSC**	15 Dec 64 12/3/64 **MIT/IL**	J Walisievicz/R.M. **ACSP**

ASSEMBLY TEST PROCEDURE

FOR

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

1. INTRODUCTION

1.1 SCOPE. This document describes the requirements and procedures for the assembly test of the AGE Harness and PSA End Connector Assembly, Drawing 1014606, hereafter called the assembly.

1.2 CLASSIFICATION. The requirements for the equipment covered by this specification shall be classified as follows. Unless identified by the respective type, all requirements of this specification are applicable for all types.

a. Type I. The special requirements for Part Number 1014606-000 shall be designated as Type I.

b. Type II. The special requirements for Part Number 1014606-011 shall be designated as Type II.

1.3 APPLICABLE DOCUMENTS. The following documents of the issue in effect on the date of issue of this ATP form a part of this ATP.

SPECIFICATIONS

APOLLO G&N

ND1002225	Process Specification, Pulse Arc Welding of Wrapost Receptacles to Wrapost Terminals
ND1002031	Description and Requirements for Process for Solderless Wrapped Connections Process
ND1002032	Description and Requirements for Process for Fabrication of Wiring Harness in Wired Assemblies (For Reference Only)

DRAWINGS

APOLLO G&N

1014605	Wiring Harness "A", AGE Interconnect
1014606	AGE Harness and PSA End Connector Assembly
1014607	Interconnect List, AGE Harness and End Connector Assembly
1014608	Wire List AA, AGE Harness and End Connector Assembly

1014606

REVISIONS TDRR 01876

ZONE	SYM	DESCRIPTION	DATE	APPROVAL
	A	REVISED PER TDRR 02314	7/31/63	WK
	B	REVISED PER TDRR 03318	9-26-63	

PART NO.	DESCRIPTION	REQD.
1014605	AGE Harness Assembly	1
1007161	PSA End Connector Assembly	1
1000110-2	Screw, Hex Socket Head	4
1000110-8	Screw, Hex Socket Head	8
1010490-108	Insulation-Sleeving, Electrical Heat Shrink	10
1010490-110	Insulation-Sleeving, Electrical Heat Shrink	30
1010490-112	Insulation-Sleeving, Electrical Heat Shrink	60
1010490-114	Insulation-Sleeving, Electrical Heat Shrink	150
1010402-1	Sleeve-Solder	50
1010402-2	Sleeve-Solder	50

QTY. REQD.	NOMENCLATURE OR DESCRIPTION	PART OR IDENTIFYING NO.	SPECIFICATION	MATERIAL OR NOTES	FIND NO.

LIST OF PARTS AND MATERIALS

MASTER

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES

DO NOT SCALE THIS DRAWING

MATERIAL:

MIT
INSTRUMENTATION LAB
CONTRACT
NAS 9-153

		DATE
APPROVED		7-2-63
CHECKED		
DRAWN		

APPROVED FOR MSC 7/2/63

MIT/IL APPROVAL	DATE
WKupfer	2 July 63

AGE HARNESS &
PSA END CONNECTOR
ASSEMBLY

SCALE	UNIT WT.	CODE IDENT.

MIT
INSTRUMENTATION
LABORATORY
CAMBRIDGE, MASS.

DWG. NO.

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

NASA DRAWING NO.
1014606

SHEET 1 OF 1

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS 1014606 B
Original Issue Date: 14 July 1964
Release Authority: TDRR 10951
Class A Release

PROCUREMENT SPECIFICATION

FOR

AGE HARNESS & PSA END CONNECTOR ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
Ⓜ 3-2-65	A	17063	1, 2 and 3	W.K.	W.J.R.
12/1/65	B	24458	1	MGM	- -

This specification consists of page i
and 1 to 4 inclusive.

APPROVALS	7/14/64 NASA/MSC	W Kapfer 14 July 64 6/15/64 MIT/IL	E. P. Armstrong ACSP

PROCUREMENT SPECIFICATION

FOR

AGE HARNESS & PSA END CONNECTOR ASSEMBLY

1. SCOPE.

1.1 PURPOSE. This specification establishes the requirements for the procurement of the Age Harness & PSA End Connector Assembly, Drawing 1014606, hereafter called the assembly.

1.2 CLASSIFICATION. The requirements for the equipment covered by this specification shall be classified as follows. Unless identified by the respective type, all requirements of this specification are applicable for all types.

a. Type I. The special requirements for Part Number 1014606-000 and 1014606-031 shall be designated as Type I.

b. Type II. The special requirements for Part Number 1014606-011 and 1014606-021 shall be designated as Type II.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies
ND-1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment
FTM-1014606	Final Test Method, for Age Harness & PSA End Connector Assembly

1014606

REVISIONS TDRR 01876

ZONE	SYM	DESCRIPTION	DATE	APPROVAL
	A	REVISED PER TDRR 02314	7/31/63	WK
	B	REVISED PER TDRR 03318	9-26-63	JJm
	C	REVISED PER TDRR 04669	11-20-63	JJm 12/3

PART NO.	DESCRIPTION	REQD.
1014605	**AGE Harness Assembly**	1
1007161	**PSA End Connector Assembly**	1
1000110-2	Screw, Hex Socket Head	4
1000110-8	Screw, Hex Socket Head	8
1010490-108	Insulation-Sleeving, Electrical Heat Shrink	10
1010490-110	Insulation-Sleeving, Electrical Heat Shrink	30
1010490-112	Insulation-Sleeving, Electrical Heat Shrink	60
1010490-114	Insulation-Sleeving, Electrical Heat Shrink	150
1010402-1	Sleeve-Solder	50
1010402-2	Sleeve-Solder	50
MS35335-57	Washer, Lock, Flat, External Teeth	4
MS25036-44	Terminal, Lug, Crimp-Style	4
MS35649-44	Nut, Plain, Hex, Machine Screw	3
1000093-13	Screw, Button Hd. Self-Locking Soc. Hex	1
1000043-14	Screw, Button Hd. Self-Locking Soc. Hex	3

QTY. REQD.	NOMENCLATURE OR DESCRIPTION	PART OR IDENTIFYING NO.	SPECIFICATION	MATERIAL OR NOTES	FIND NO.

LIST OF PARTS AND MATERIALS

MASTER

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES

DO NOT SCALE THIS DRAWING

MATERIAL:

MIT INSTRUMENTATION LAB
CONTRACT NAS 9-153

		DATE
APPROVED	[illegible]	7-2-63
CHECKED		
DRAWN		

APPROVED FOR MSC [illegible] 7/2/63

MIT/IL APPROVAL	DATE
W Kupfer	2 July 63

AGE HARNESS &
PSA END CONNECTOR
ASSEMBLY

SCALE	UNIT WT.	CODE IDENT.

MIT
INSTRUMENTATION
LABORATORY
CAMBRIDGE, MASS.

DWG. NO.

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

NASA DRAWING NO.
1014606

SHEET 1 OF 1

INCHES
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PHOTOGRAPHIC SCALE ONLY

APOLLO G&N Specification
PS 1014606 C
Original Issue Date: 14 July 1964
Release Authority: TDRR 10951
Class A Release

PROCUREMENT SPECIFICATION

FOR

AGE HARNESS & PSA END CONNECTOR ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA
3-2-65	A	17063	1, 2 and 3	W.K.	W.J.R.
12/1/65	B	24458	1	MGM	- -
2/10/66	C	26122	1, 2 and 3	WK	----

This specification consists of page i
and 1 to 4 inclusive.

APPROVALS 7/14/64 NASA/MSC | 14 July 64 6/15/64 MIT/IL | D D Easton E. P. Armstrong ACSP

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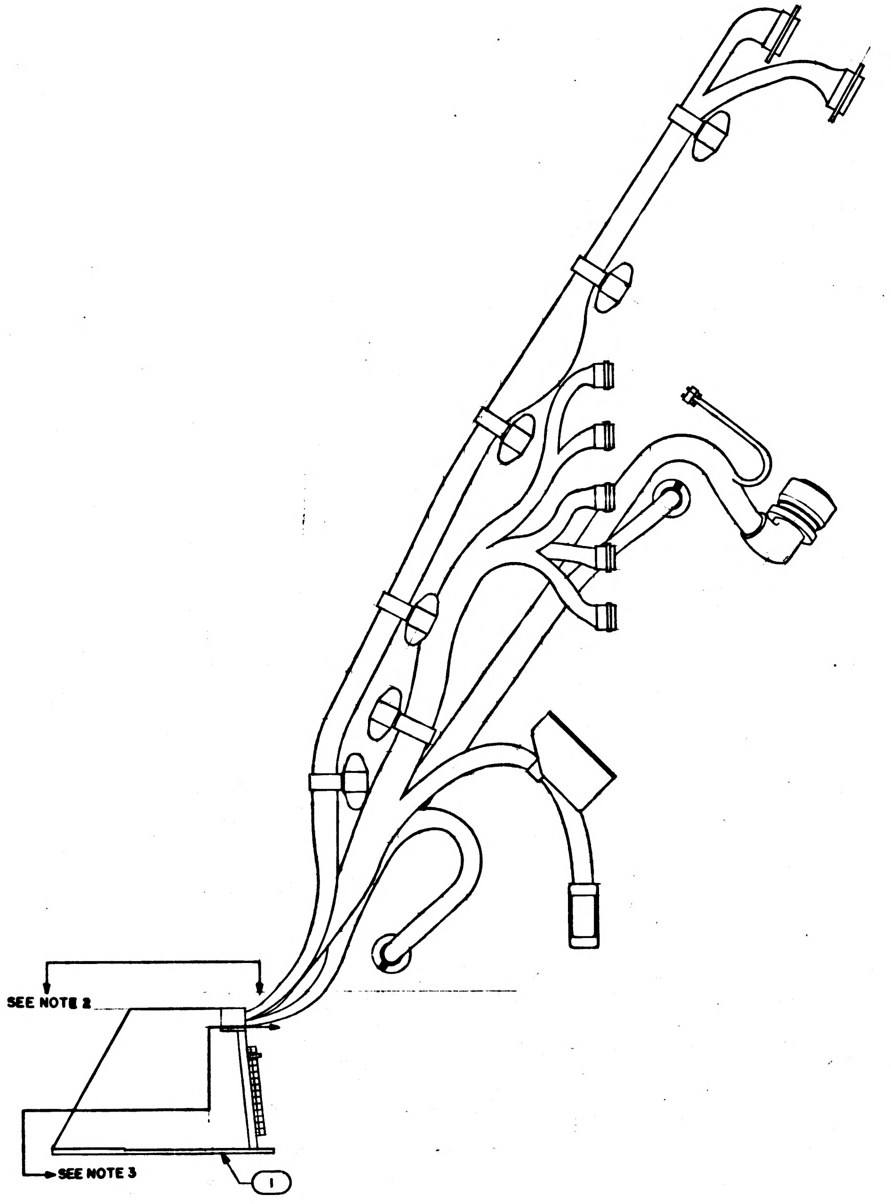
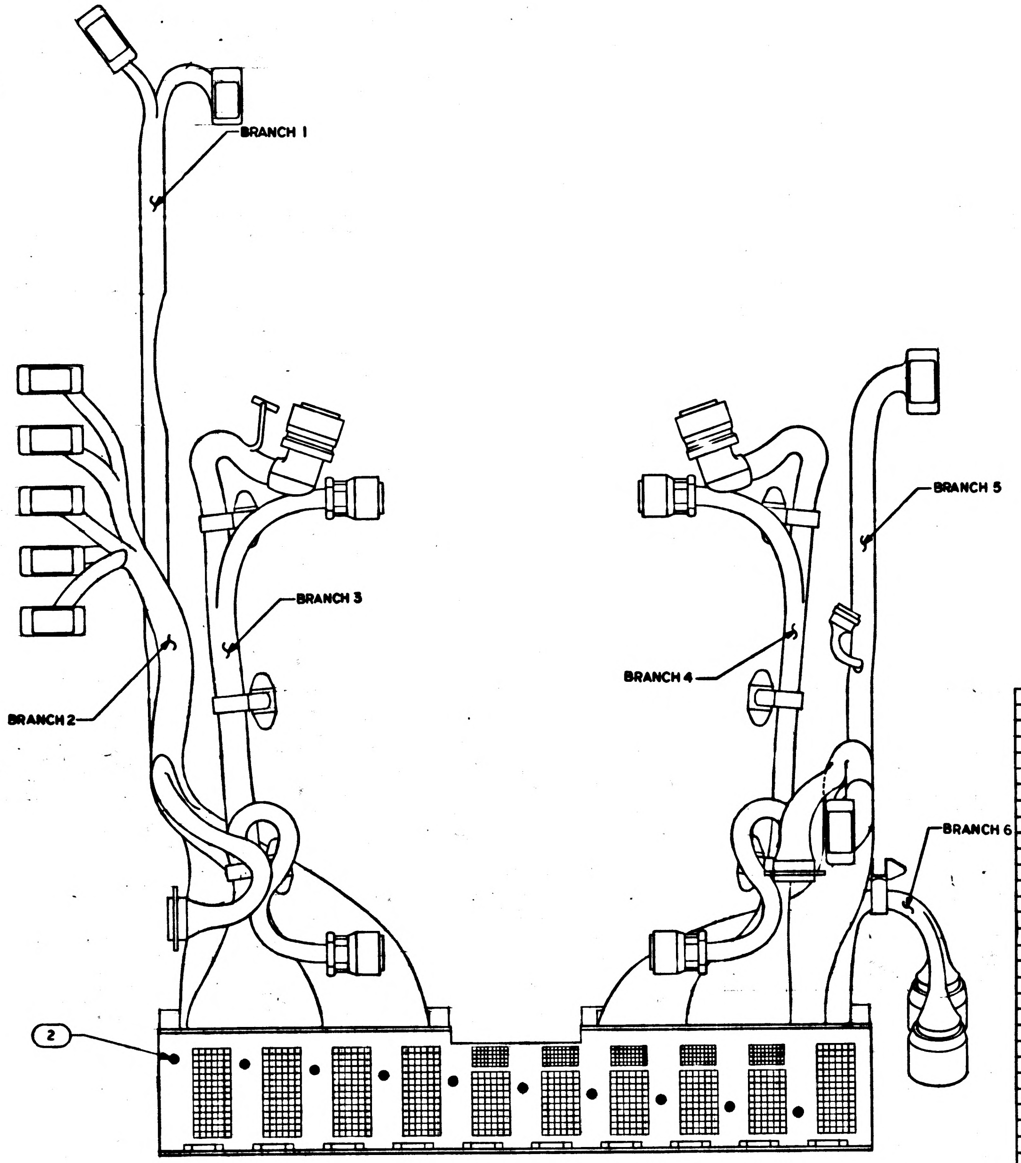
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12-27-63	





NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WIRING FOR BRANCHES 1-6 AND THE NOTED SECTION IS SHOW ON SHEETS 3, 4, 5, AND 6 OF THIS DRAWING AND DESCRIBED ON DRAWING 1014605.
3. WIRING FOR THE NOTED SECTION IS SHOWN ON SHEET 2 OF THIS DRAWING AND DESCRIBED ON DRAWING 1014608
4. POTTING VIEWS AND DIMENSIONAL DATA ARE SHOWN ON SHEET 7 OF THIS DRAWING
5. MOUNTING TORQUE FOR FIND NO. 2 IS 6.5 IN/LBS
6. INTERCONNECTING WIRING DIAGRAM FOR THE AGE HARNESS AND END CONNECTOR ASSEMBLY IS DRAWING NO. 1014607
7. INTERCONNECTION DIAGRAM-APOLLO GUIDANCE EQUIPMENT C/M, LOWER EQUIPMENT BAY IS DRAWING NO. 1014523
8. ASSEMBLE AND TEST PER ATP 1014606

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1010642-144	CONNECTOR PLUG ELEC.	47
1	1010674-1	CONNECTOR PLUG ELEC.	46
1	1010674-2	CONNECTOR PLUG ELEC.	45
6	1010400-1	CLAMP, LOOP, HINGED	44
1	1010674-4	CONNECTOR PLUG ELEC.	43
1	1010348-1	CONNECTOR PLUG ELEC.	42
1	1010674-3	CONNECTOR PLUG ELEC.	41
1	1010348-2	CONNECTOR PLUG ELEC.	40
1	1000221	CONNECTOR RECP. ELEC.	39
1	AN345C10	NUT, PLAIN HEX	38
1	1014609	BRACKET, CLAMP	37
1	1010705	CLAMP, LOOP	36
5	1010411-2	CONNECTOR RECP. ELEC.	35
1	1010400-7	CLAMP, LOOP, HINGED	34
2	1000242-21	FERRULE, OUTER ELEC COND.	33
2	1000242-30	FERRULE, OUTER ELEC COND.	32
2	1000243-26	FERRULE INNER ELEC COND.	31
2	1000243-34	FERRULE, INNER ELEC. COND.	30
1	QQ-B-575	BRAID, WIRE	29
1	QQ-B-575	BRAID, WIRE	28
2	1010490-222	INSULATION SLEEVING, HEAT SHRINK	27
2	1010490-216	INSULATION SLEEVING, HEAT SHRINK	26
1	1010490	INSULATION SLEEVING, HEAT SHRINK	25
1	1010490	INSULATION SLEEVING, HEAT SHRINK	24
1	1010400-8	CLAMP, LOOP, HINGED	23
3	1010400-4	CLAMP, LOOP, HINGED	22
5	1010400-3	CLAMP, LOOP, HINGED	21
23	1010400-2	CLAMP, LOOP, HINGED	20
1	1010671-2	CONNECTOR PLUG ELEC	19
1	1010671-1	CONNECTOR PLUG ELEC	18
2	1010607-3	CONNECTOR RECP ELEC	17
1	1010607-1	CONNECTOR RECP. ELEC.	16
4	1010411-1	CONNECTOR RECP. ELEC.	15
6	1006783-47	SCREW BUTTON HEAD	14
1	1008164	CABLE CLAMP LEFT	13
1	1008165	CABLE CLAMP RIGHT	12
1	1008148	CONN PLATE ASSY (264 PINS)	11
1	1008149	CONN PLATE ASSY (258 PINS)	10
3	MS35649-44	NUT	9
1	1010618-13	SCREW BUTTON HEAD	8
3	1010618-14	SCREW BUTTON HEAD	7
4	MS35335-57	WASHER, LOCK, FLAT, EXTERNAL TOOTH	6
1	1010642-244	CONNECTOR PLUG ELEC	5
8	MS16995-17	SCREW HEX SOCKET HD	4
4	MS16995-10	SCREW, HEX SOCKET HD	3
10	1008163	PIN, LOCATING	2
1	1007161	END CONNECTOR ASSEMBLY PSA	1

LIST OF MATERIALS

1015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG. NO. CONTRACT
DRAWN 2. Falzone DATE 5 DEC 63
CHECKED
APPROVAL 12-10-63
APPROVAL 12-20-63
NASA APPROVAL 12-30-63
MIT APPROVAL 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

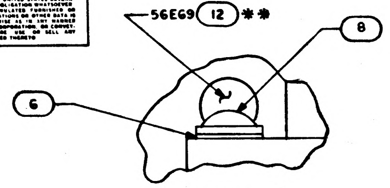
CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/2
WT
SHEET 1 OF 7

INCHES
PHOTOGRAPHIC SCALE ONLY

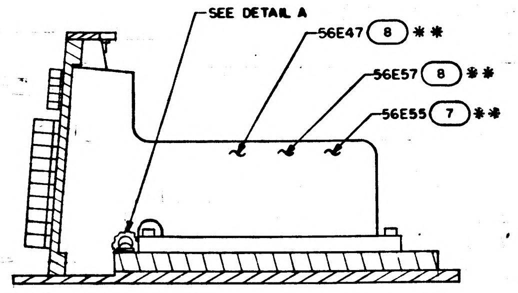
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS

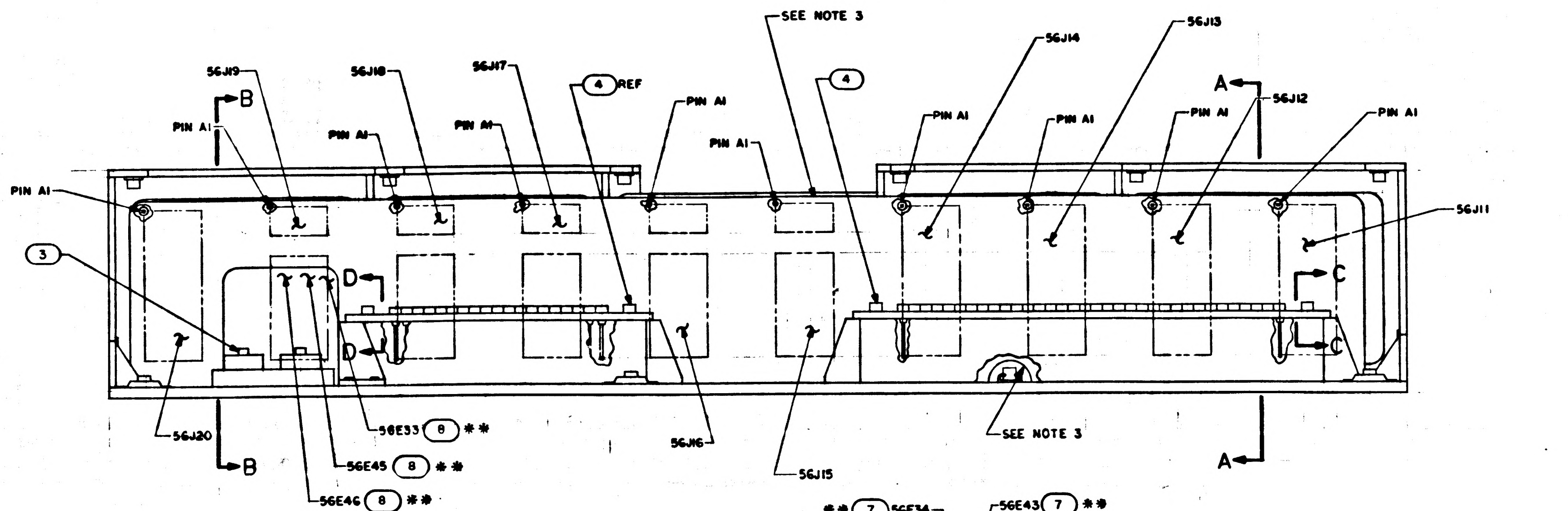
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12-27 63	

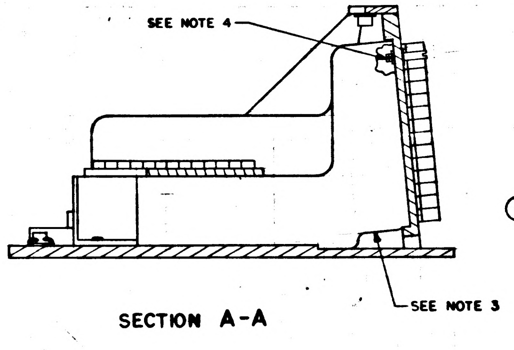


DETAIL A
SCALE 4/1

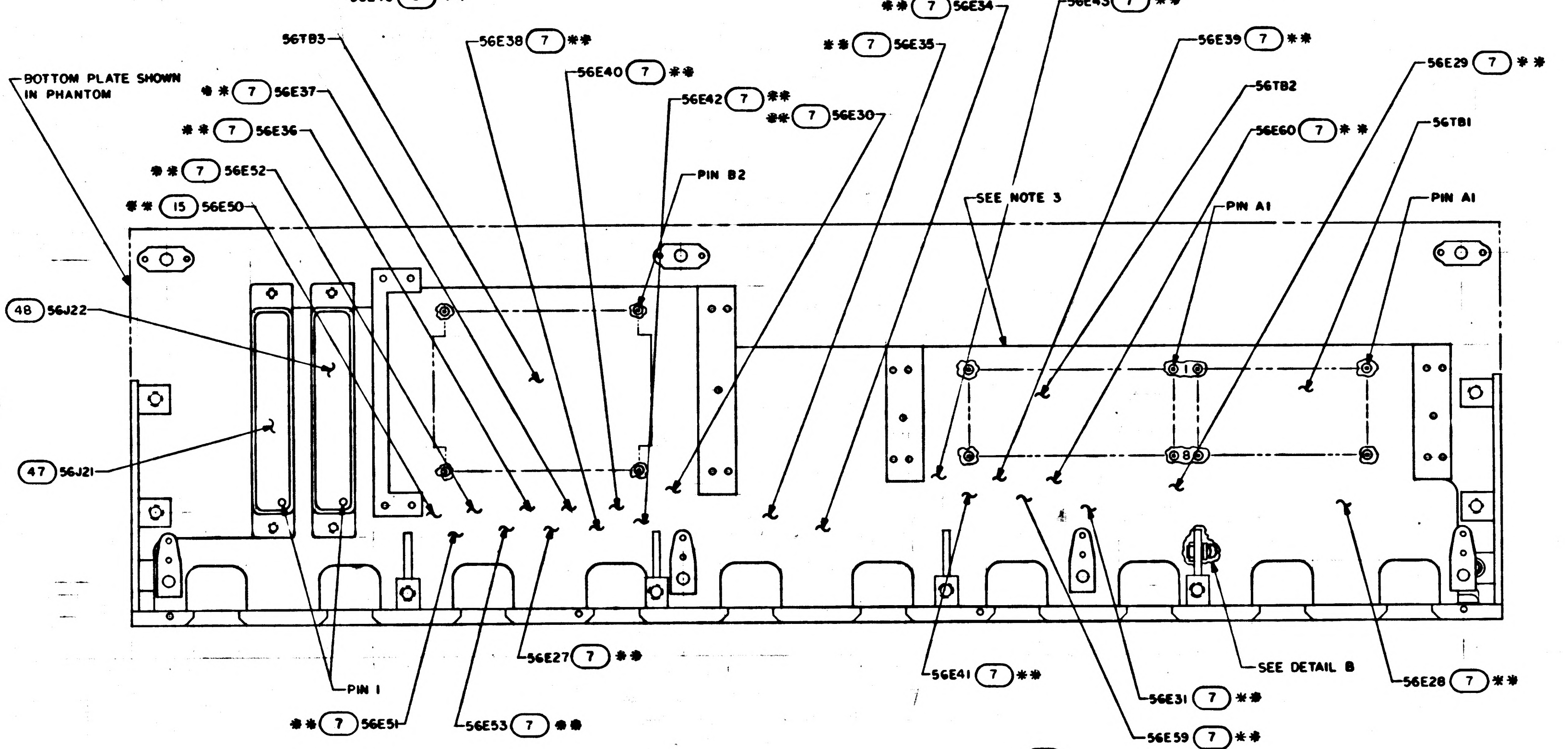

SEE DETAIL A
56E47 ⑧ **
56E57 ⑧ **
56E55 ⑦ **

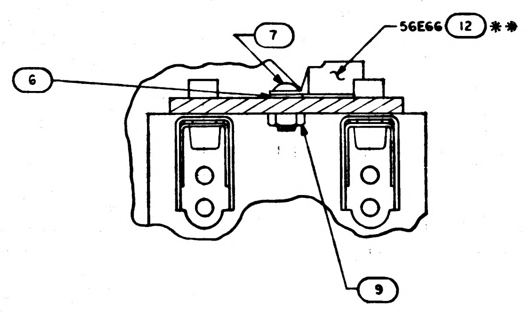
SECTION B-B


SEE NOTE 3
56J14
56J13
56J19
56J18
56J17
④ REF
PIN A1
PIN A1
PIN A1
PIN A1
PIN A1
PIN A1
PIN A1
PIN A1
PIN A1
PIN A1
④
A
56J12
B
56J11
③
D
D
C
C
56J20
56E33 ⑧ **
56E45 ⑧ **
56E46 ⑧ **
56J16
56J15
SEE NOTE 3
A
B

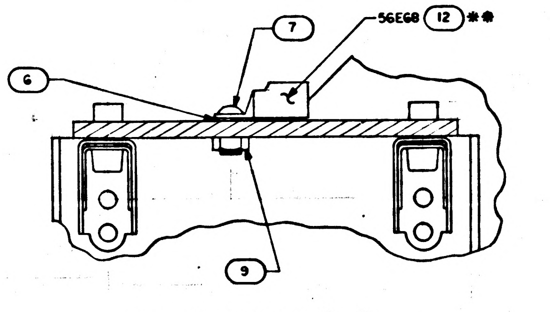

SEE NOTE 4
SEE NOTE 3

SECTION A-A

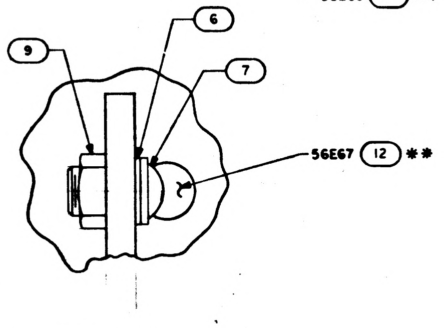

** ⑦ 56E34
56E43 ⑦ **
** ⑦ 56E35
56E39 ⑦ **
56TB3
56E38 ⑦ **
BOTTOM PLATE SHOWN IN PHANTOM
56E40 ⑦ **
** ⑦ 56E37
56E42 ⑦ **
** ⑦ 56E30
56TB2
56E29 ⑦ **
** ⑦ 56E36
56E60 ⑦ **
56TB1
** ⑦ 56E52
PIN B2
SEE NOTE 3
PIN A1
PIN A1
** ⑮ 56E50
㊽ 56J22
㊼ 56J21
56E27 ⑦ **
PIN 1
56E41 ⑦ **
SEE DETAIL B
56E28 ⑦ **
56E31 ⑦ **
** ⑦ 56E51
56E53 ⑦ **
56E59 ⑦ **



PARTIAL SECTION C-C
SCALE 2/1



PARTIAL SECTION D-D
SCALE 2/1



DETAIL B
SCALE 4/1

NOTES
1. ✱✱ PARTS ARE LISTED ON DWG 1014608
2. REFER TO DWG 1014608 FOR REFERENCE DESIGNATIONS AND WIRE LIST
3. OUTLINE SHOWS MAXIMUM ENVELOPE FOR WIRE LIST AA, 1014608
4. BEFORE WIRING, COVER THREADS AND OTHER SHARP EDGES WITH SILICON RUBBER PER ND1002009, METHOD B

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

M I T
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO. CONTRACT
DRAWN J. Falzone DATE 10 Dec 63
CHECKED
APPROVAL 12-30-63
APPROVAL 12-30-63
NASA APPROVAL W. J. 12-30-63
MIT APPROVAL 30 Dec 62

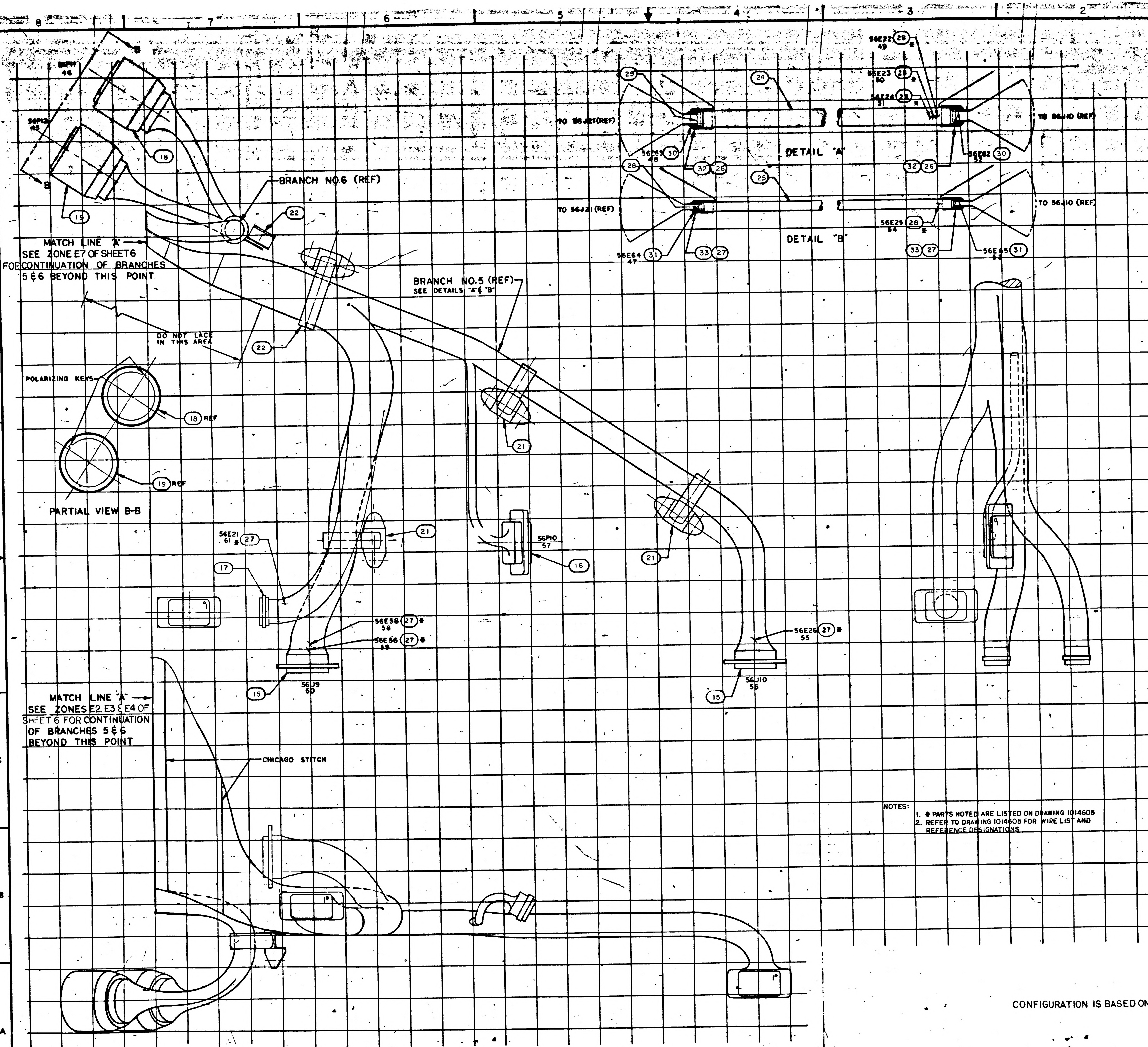
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO. SIZE E NASA DRAWING NO. 1014606
SCALE 1/1 WT SHEET 2 OF 7

INCHES
PHOTOGRAPHIC SCALE ONLY

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 06331	12 ? 13	


56P11
46
56P12
45
18
19
B
B
BRANCH NO.6 (REF)
22
MATCH LINE "A"
SEE ZONE E7 OF SHEET6
FOR CONTINUATION OF BRANCHES
5 & 6 BEYOND THIS POINT.
DO NOT LACE
IN THIS AREA
22
BRANCH NO.5 (REF)
SEE DETAILS "A" & "B"
29
24
TO 56J21(REF)
56E63 30
48
32 26
DETAIL "A"
56E22 28 #
49
56E23 28 #
50
56E24 28 #
51
TO 56J10 (REF)
56E62 30
52
32 26
28
25
TO 56J21 (REF)
56E64 31
47
33 27
DETAIL "B"
56E25 28 #
54
33 27
56E65 31
53
TO 56J10 (REF)
POLARIZING KEYS
18 REF
19 REF
PARTIAL VIEW B-B
21
21
21
56E21 27 #
61
17
56P10
57
16
56E58 27 #
58
56E56 27 #
59
56J9
60
15
56E26 27 #
55
56J10
56
15
MATCH LINE "A"
SEE ZONES E2, E3 & E4 OF
SHEET 6 FOR CONTINUATION
OF BRANCHES 5 & 6
BEYOND THIS POINT
CHICAGO STITCH
1°
1°

NOTES:

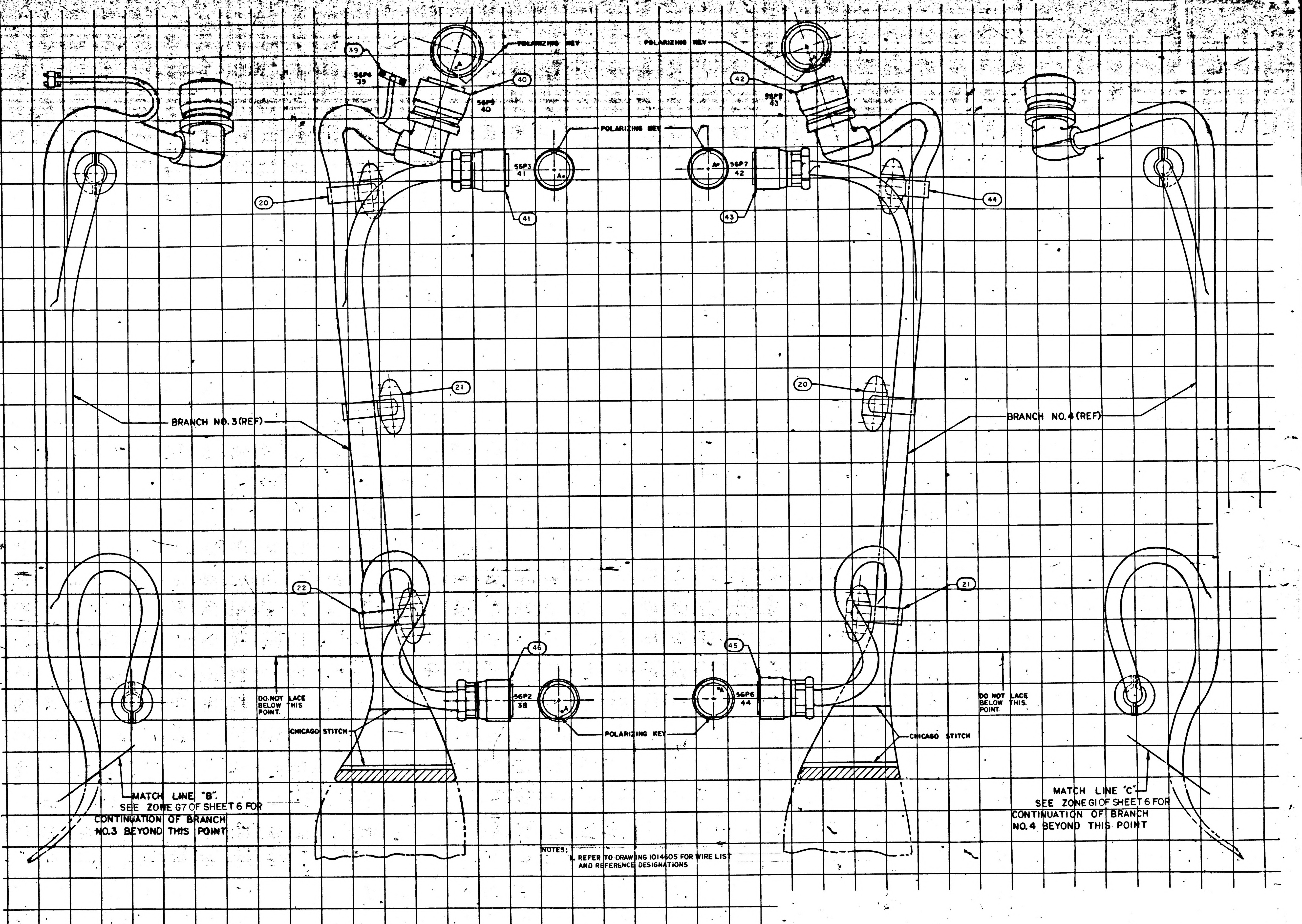
1. # PARTS NOTED ARE LISTED ON DRAWING 1014605
2. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS

CONFIGURATION IS BASED ON 1 INCH SQUARE

CODE IDENT NO.	SIZE	
	E	1014606
SCALE FULL		SHEET 3 OF

INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12-27-63	



39
56P4
39
POLARIZING KEY
40
56P9
40
POLARIZING KEY
42
56P8
43
POLARIZING KEY
56P3
41
A
56P7
42
20
41
43
44
21
20
BRANCH NO. 3 (REF)
BRANCH NO. 4 (REF)
22
21
46
45
DO NOT LACE BELOW THIS POINT.
DO NOT LACE BELOW THIS POINT
56P2
38
56P6
44
CHICAGO STITCH
CHICAGO STITCH
POLARIZING KEY
MATCH LINE "B"
SEE ZONE G7 OF SHEET 6 FOR CONTINUATION OF BRANCH NO.3 BEYOND THIS POINT
MATCH LINE "C"
SEE ZONE G1 OF SHEET 6 FOR CONTINUATION OF BRANCH NO. 4 BEYOND THIS POINT

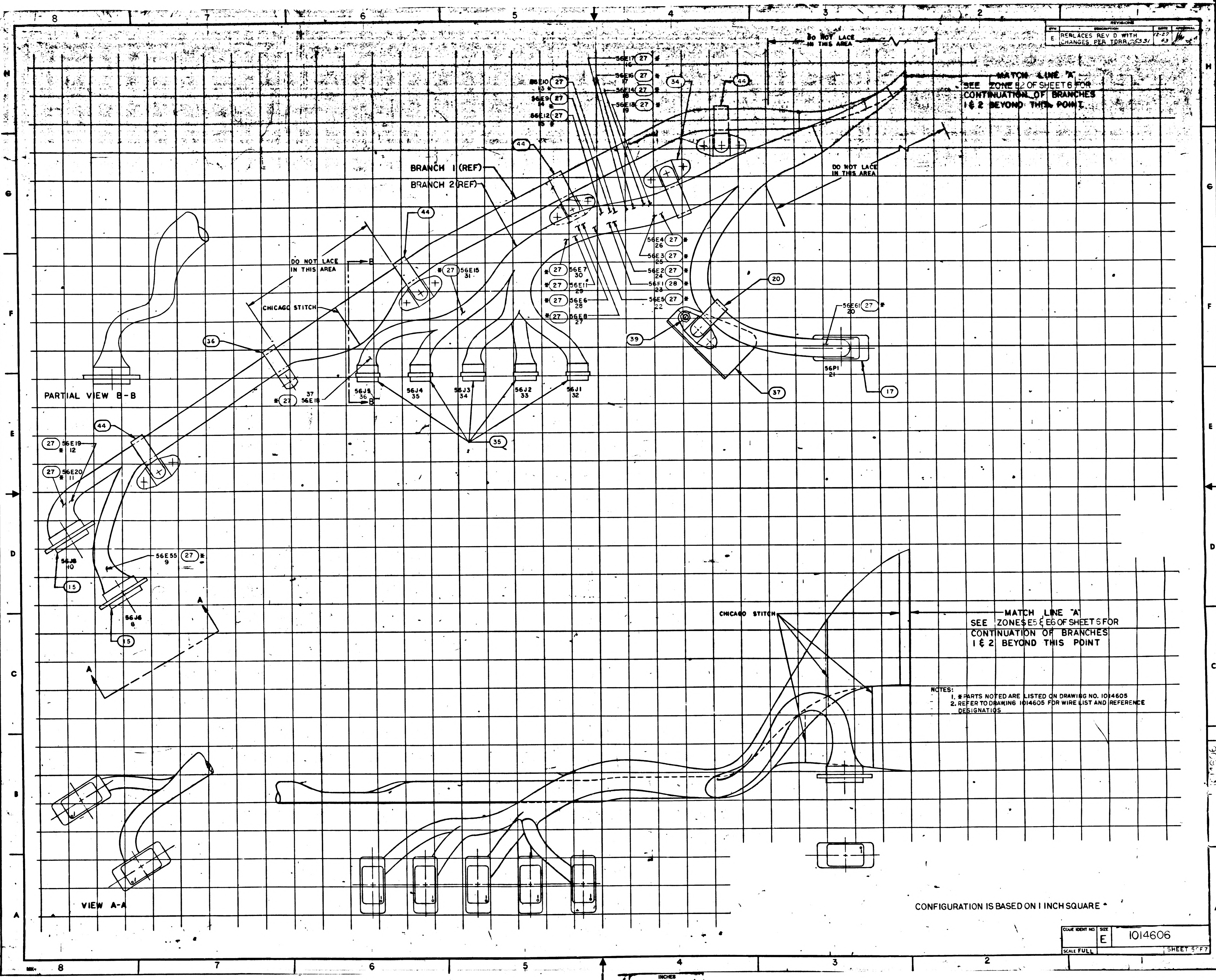
NOTES:
1. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS

CONFIGURATION IS BASED ON 1 INCH SQUARE

CODE IDENT NO.	SIZE	
	E	1014606
SCALE FULL		SHEET 4 OF 7

INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12-27 63	



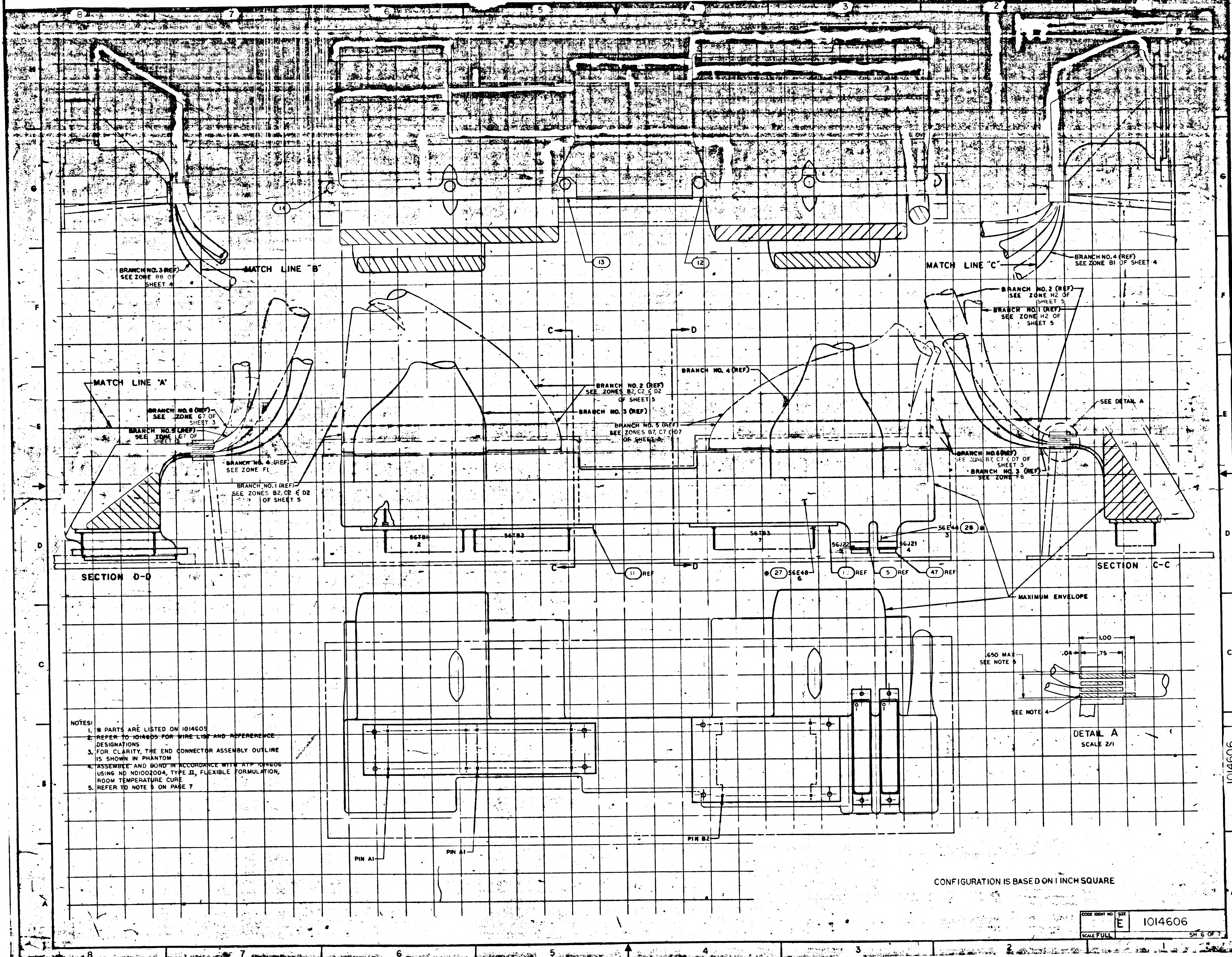
8
7
6
5
4
3
2
1
H
G
F
E
D
C
B
A
DO NOT LACE IN THIS AREA
MATCH LINE "A"
SEE ZONE E2 OF SHEET 6 FOR CONTINUATION OF BRANCHES 1 & 2 BEYOND THIS POINT
56E17 27 * 16
56E16 27 * 17
56E14 27 * 18
56E18 27 * 19
56E10 27 13 *
56E9 27 14 *
56E12 27 15 *
34
44
44
BRANCH 1 (REF)
BRANCH 2 (REF)
DO NOT LACE IN THIS AREA
44
DO NOT LACE IN THIS AREA
B
* 27 56E15 31
56E4 27 * 26
56E3 27 * 25
56E2 27 * 24
56F1 28 * 23
56E5 27 * 22
* 27 56E7 30
* 27 56E11 29
* 27 56E6 28
* 27 56E8 27
CHICAGO STITCH
20
56E61 27 * 20
36
39
56P1 21
17
37
* 27 37 56E18
56J5 36
56J4 35
56J3 34
56J2 33
56J1 32
B
35
PARTIAL VIEW B-B
44
27 56E19 * 12
27 56E20 * 11
56J8 10
15
56E55 27 * 9
56J6 8
15
A
A
CHICAGO STITCH
MATCH LINE "A"
SEE ZONES E5 & E6 OF SHEETS 6 FOR CONTINUATION OF BRANCHES 1 & 2 BEYOND THIS POINT
VIEW A-A

NOTES:
1. * PARTS NOTED ARE LISTED ON DRAWING NO. 1014605
2. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIOS

CONFIGURATION IS BASED ON 1 INCH SQUARE

CODE IDENT NO.	SIZE	
	E	1014606
SCALE FULL		SHEET 5 OF 7

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY


8
7
6
5
4
3
2
1
G
F
E
D
C
B
A
REPLACES REV
14
13
12
BRANCH NO. 3 (REF)
SEE ZONE B8 OF
SHEET 4
MATCH LINE "B"
MATCH LINE "C"
BRANCH NO. 4 (REF)
SEE ZONE B1 OF SHEET 4
BRANCH NO. 2 (REF)
SEE ZONE H2 OF
SHEET 5
BRANCH NO. 1 (REF)
SEE ZONE H2 OF
SHEET 5
MATCH LINE "A"
BRANCH NO. 6 (REF)
SEE ZONE G7 OF
SHEET 3
BRANCH NO. 5 (REF)
SEE ZONE G7 OF
SHEET 3
BRANCH NO. 4 (REF)
SEE ZONE F1
BRANCH NO. 1 (REF)
SEE ZONES B2, C2 & D2
OF SHEET 5
C
D
BRANCH NO. 2 (REF)
SEE ZONES B2, C2 & D2
OF SHEET 5
BRANCH NO. 3 (REF)
BRANCH NO. 4 (REF)
BRANCH NO. 5 (REF)
SEE ZONES B7, C7 & D7
OF SHEET 3
SEE DETAIL A
BRANCH NO. 6 (REF)
SEE ZONE B7, C7 & D7 OF
SHEET 3
BRANCH NO. 3 (REF)
SEE ZONE F8
56TB1
2
56TB2
1
56TB3
7
56J22
56J21
4
56E44
3
28
*
SECTION D-D
SECTION C-C
11 REF
* 27 56E48
6
1 REF
5 REF
47 REF
MAXIMUM ENVELOPE
1.00
.04
.75
.650 MAX
SEE NOTE 5
SEE NOTE 4
DETAIL A
SCALE 2/1
PIN A1
PIN A1
PIN B2
1014606

NOTES:

1. * PARTS ARE LISTED ON 1014605
2. REFER TO 1014605 FOR WIRE LIST AND REFERERENCE DESIGNATIONS
3. FOR CLARITY, THE END CONNECTOR ASSEMBLY OUTLINE IS SHOWN IN PHANTOM
4. ASSEMBLE AND BOND IN ACCORDANCE WITH ATP 1014606 USING ND ND1002004, TYPE II, FLEXIBLE FORMULATION, ROOM TEMPERATURE CURE
5. REFER TO NOTE 5 ON PAGE 7

CONFIGURATION IS BASED ON 1 INCH SQUARE

CODE IDENT NO	SIZE	
	E	1014606
SCALE FULL		SH 6 OF 7

PHOTOGRAPHIC SCALE ONLY

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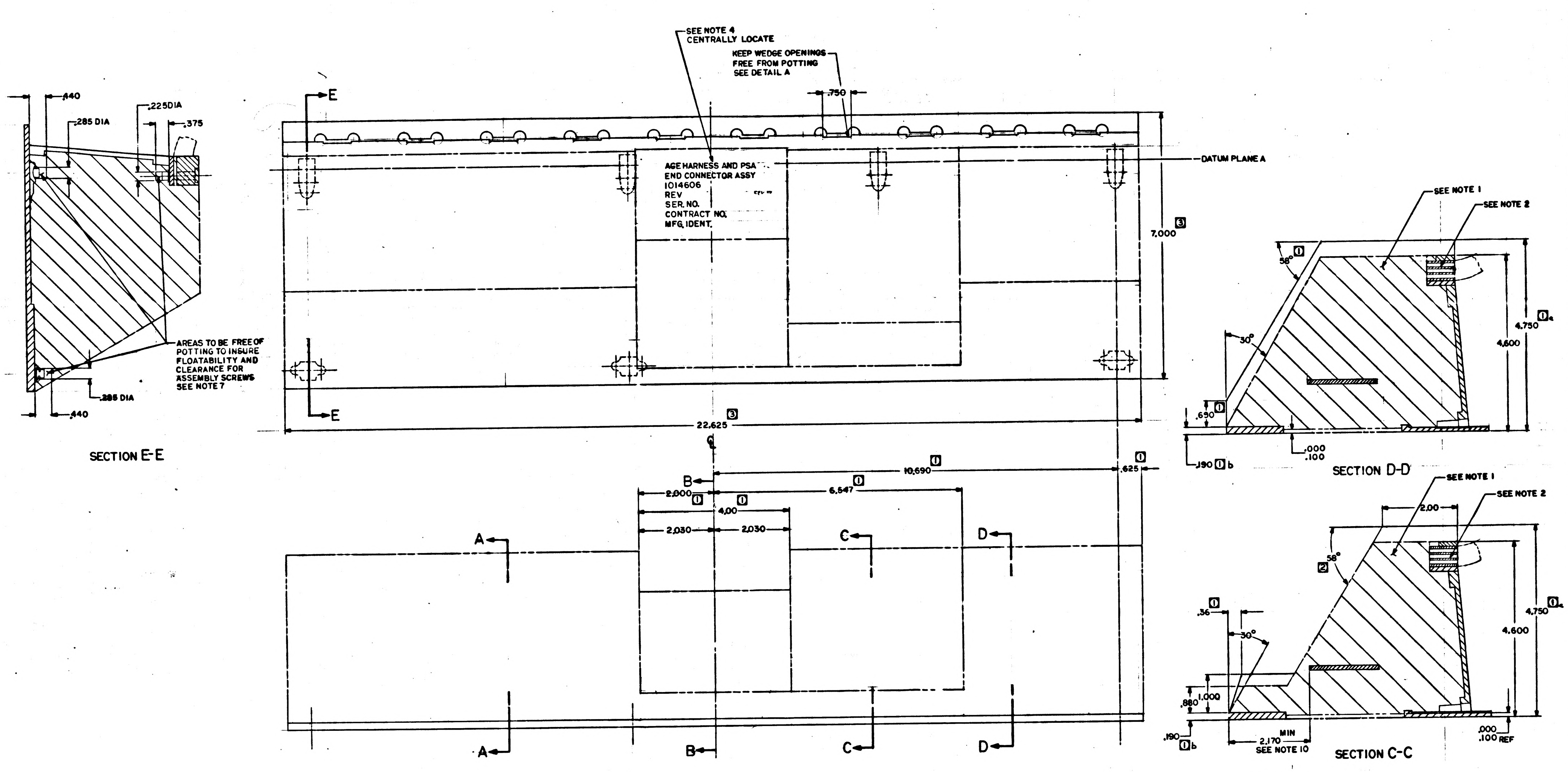
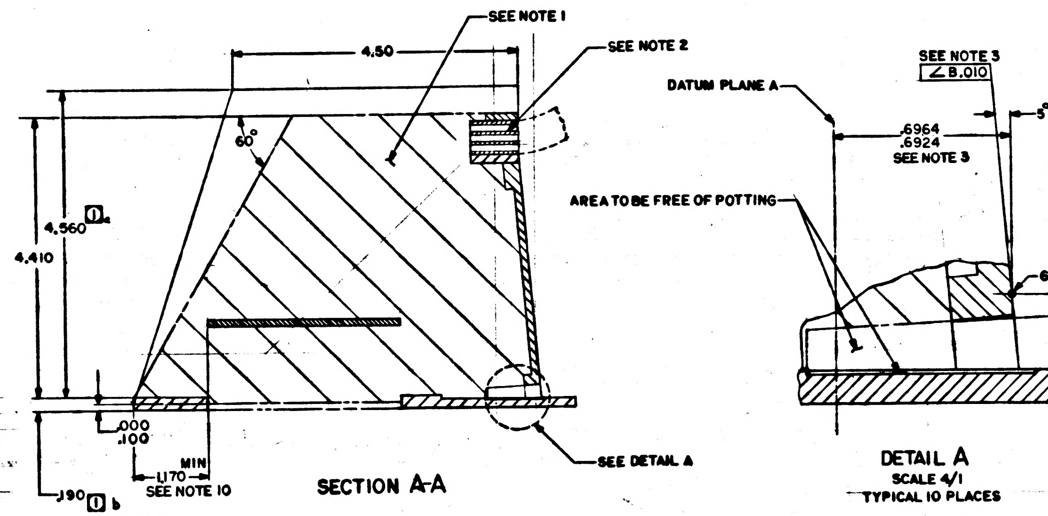
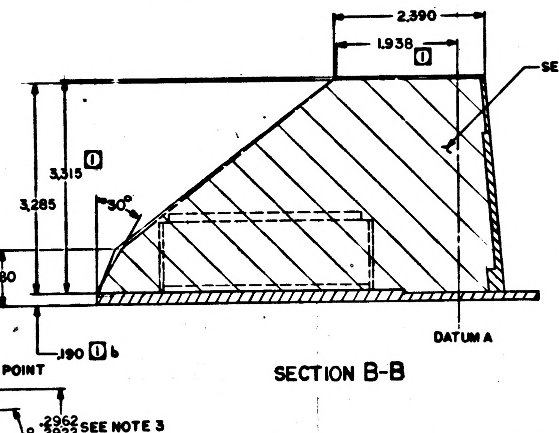
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12-20-63	


SEE NOTE 4
CENTRALLY LOCATE
KEEP WEDGE OPENINGS FREE FROM POTTING SEE DETAIL A
.750
AGE HARNESS AND PSA
END CONNECTOR ASSY
1014606
REV
SER. NO.
CONTRACT NO.
MFG. IDENT.
DATUM PLANE A
7.000 3
22.625 3
E
.440
.285 DIA
.225 DIA
.375
AREAS TO BE FREE OF POTTING TO INSURE FLOATABILITY AND CLEARANCE FOR ASSEMBLY SCREWS SEE NOTE 7
.285 DIA
.440
SECTION E-E
10.690 1
.625 1
6.547 1
2.000 1
4.00 1
2.030
2.030
A
B
C
D
SEE NOTE 1
SEE NOTE 2
58° 1
30°
4.750 1a
4.600
.690 1
.190 1 b
.000 .100
SECTION D-D
2.00
58° 2
.36 1
1.000
.880
.190 1 b
2.170 MIN SEE NOTE 10
.000 .100 REF
SECTION C-C


SEE NOTE 1
SEE NOTE 2
4.50
60°
4.560 1a
4.410
.000 .100
1.170 MIN SEE NOTE 10
.190 1 b
SEE DETAIL A
SECTION A-A
SEE NOTE 3
∠ B .010
DATUM PLANE A
5° BSC
.6964 .6924 SEE NOTE 3
AREA TO BE FREE OF POTTING
GAGE POINT
3°
.2962 .2922 SEE NOTE 3
-B-
⌒ .003 SEE NOTE 3
DETAIL A
SCALE 4/1
TYPICAL 10 PLACES


2.390
1.938 1
SEE NOTE 1
3.315 1
3.285
30°
.880 1
.190 1 b
DATUM A
SECTION B-B

NOTES:
1. ENCAPSULATE PER ND 1002002 (BLACK POLYURETHANE FOAM)
2. ENCAPSULATION PROCESS DEFINED ON SHEET 6
3. DIMENSIONS TO BE STABLE AFTER POTTING
4. SERIALIZE AND MARK CHARACTERS .12 HIGH (WHITE) PER ND 1002023
5. 1 THIS DIMENSION OR CHARACTERISTIC IS CONTROLLED BY ICDMH01-00003
6. 2 ICD ENVELOPE DIMENSION IS 58°, ACTUAL VALUE MAY BE 60°/58°
7. THE AREAS SHOWN FREE OF POTTING ARE THE MINIMUM REQUIRED. TOTAL VOLUME OF EACH VOID MAY EXCEED THAT SHOWN BUT SHALL NOT INTERFERE WITH OR EXPOSE WIRING. CAPS MAY BE USED
8. ALL WIRING SHALL BE BELOW THE SURFACE OF THE ENCAPSULATING MATERIAL
9. 1 a b THIS DIMENSION TO BE NEGOTIATED AS PART OF ICD MH01-00003, PRESENT ICD DIMENSIONS ARE (a) 4.375 AND (b) .130
10. TERMINAL BOARDS ARE TO BE LOCATED TO THESE DIMENSIONS BEFORE POTTING
11. 3 ICDMH01-00003 ENVELOPE DIMENSIONS ARE 7.000 AND 22.690 RESPECTIVELY; ACTUAL VALUES MAY BE LESS. POTTING SHALL BE FLUSH TO .015 LESS THAN THE ENVELOPE DEFINED BY THE ACTUAL LENGTH AND WIDTH OF THE END CONNECTOR ASSEMBLY

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS XX±.02 XXX±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG. NO. CONTRACT
DRAWN W. F. Tong DATE 12/11/63
CHECKED
APPROVAL 12-20-63
APPROVAL 12-20-63
NASA APPROVAL W. J. 12-30-63
MIT APPROVAL W. Coffer 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE E
NASA DRAWING NO. 1014606
SCALE
WT
SHEET 7 OF 7

1014606 E

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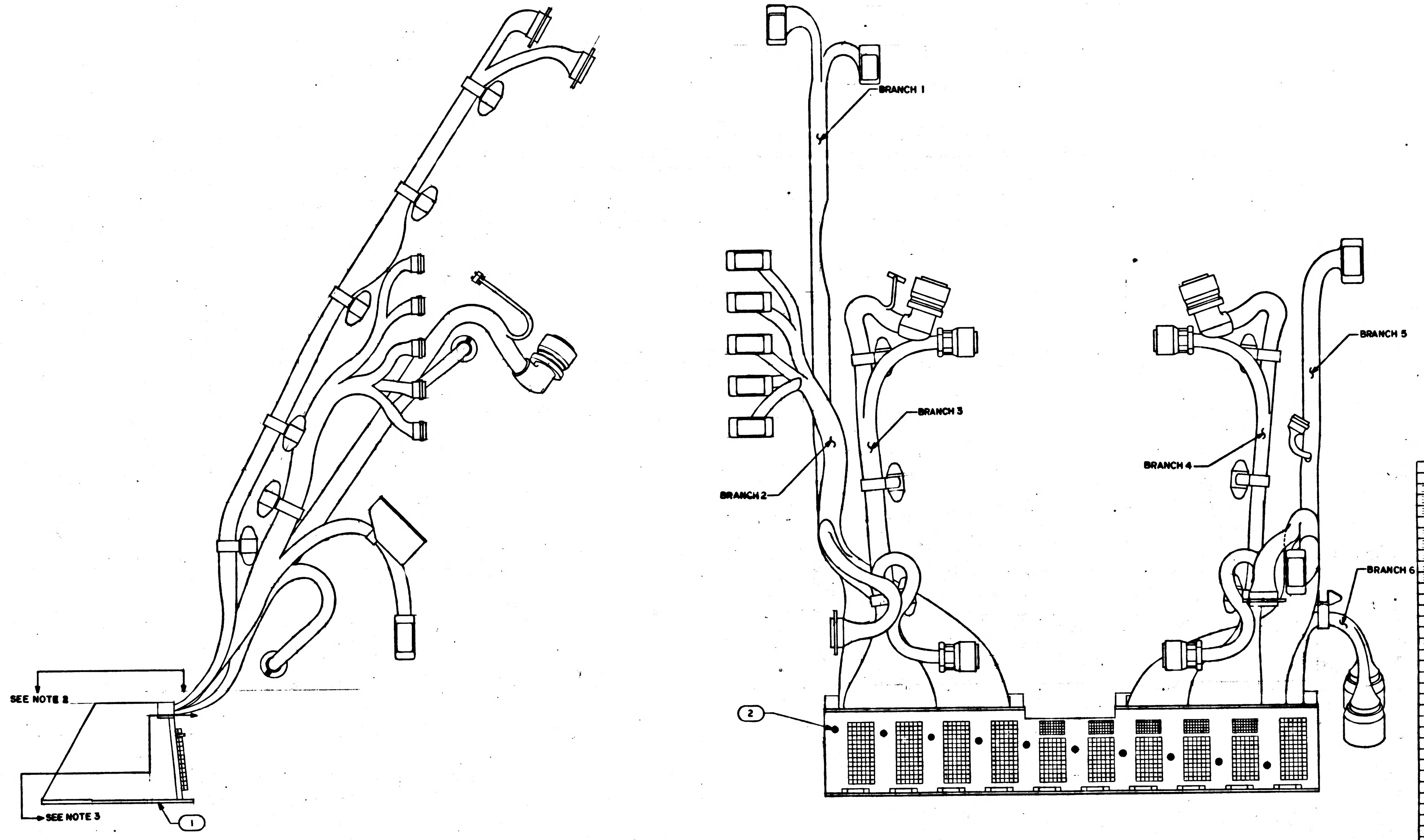
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 06331	12-27-63	
F	REVISED PER TDRR 06267	7 FEB 64	WK



NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WIRING FOR BRANCHES 1-6 AND THE NOTED SECTION IS SHOW ON SHEETS 3, 4, 5, AND 6 OF THIS DRAWING AND DESCRIBED ON DRAWING 1014605.
3. WIRING FOR THE NOTED SECTION IS SHOWN ON SHEET 2 OF THIS DRAWING AND DESCRIBED ON DRAWING 1014608
4. POTTING VIEWS AND DIMENSIONAL DATA ARE SHOWN ON SHEET 7 OF THIS DRAWING
5. MOUNTING TORQUE FOR FIND NO. 21S 6.5 IN/LBS
6. INTERCONNECTING WIRING DIAGRAM FOR THE AGE HARNESS AND END CONNECTOR ASSEMBLY IS DRAWING NO. 1014607
7. INTERCONNECTION DIAGRAM-APOLLO GUIDANCE EQUIPMENT C/M, LOWER EQUIPMENT BAY IS DRAWING NO. 1014523
8. ASSEMBLE AND TEST PER ATP 1014606

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014608	WIRE LIST "A A"	49
1	1014605	WIRING HARNESS "A"	48
~~1~~	~~1010642-144~~	~~CONNECTOR PLUG ELEC.~~	47
~~1~~	~~1010674-1~~	~~CONNECTOR PLUG ELEC.~~	46
~~1~~	~~1010674-2~~	~~CONNECTOR PLUG ELEC.~~	45
6	1010400-1	CLAMP, LOOP, HINGED	44
~~1~~	~~1010674-4~~	~~CONNECTOR PLUG ELEC.~~	43
~~1~~	~~1010348-1~~	~~CONNECTOR PLUG ELEC.~~	42
~~1~~	~~1010674-3~~	~~CONNECTOR PLUG ELEC.~~	41
~~1~~	~~1010348-2~~	~~CONNECTOR PLUG ELEC.~~	40
~~1~~	~~1000221~~	~~CONNECTOR RECP. ELEC.~~	39
1	AN345C10	NUT, PLAIN HEX	38
1	1014609	BRACKET, CLAMP	37
1	1010705-8	CLAMP, LOOP	36
~~5~~	~~1010411-2~~	~~CONNECTOR RECP. ELEC.~~	35
1	1010400-7	CLAMP, LOOP, HINGED	34
~~2~~	~~1000242-21~~	~~FERRULE, OUTER ELEC COND.~~	33
~~2~~	~~1000242-30~~	~~FERRULE, OUTER ELEC COND.~~	32
~~2~~	~~1000243-26~~	~~FERRULE, INNER ELEC COND.~~	31
~~2~~	~~1000243-34~~	~~FERRULE, INNER ELEC COND.~~	30
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	29
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	28
~~2~~	~~1010490-222~~	~~INSULATION SLEEVING, HEAT SHRINK~~	27
~~2~~	~~1010490-216~~	~~INSULATION SLEEVING, HEAT SHRINK~~	26
~~1~~	~~1010493~~	~~INSULATION SLEEVING, HEAT SHRINK~~	25
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	24
1	1010400-8	CLAMP, LOOP HINGED	23
1	1010400-4	CLAMP, LOOP, HINGED	22
5	1010400-3	CLAMP, LOOP, HINGED	21
3	1010400-2	CLAMP, LOOP, HINGED	20
~~1~~	~~1010671-2~~	~~CONNECTOR PLUG ELEC~~	19
~~1~~	~~1010671-1~~	~~CONNECTOR PLUG ELEC~~	18
~~2~~	~~1010607-3~~	~~CONNECTOR RECP ELEC~~	17
~~1~~	~~1010607-1~~	~~CONNECTOR RECP ELEC~~	16
~~3~~	~~1010411-1~~	~~CONNECTOR RECP. ELEC.~~	15
6	1006783-47	SCREW BUTTON HEAD	14
1	1008164	CABLE CLAMP LEFT	13
1	1008165	CABLE CLAMP RIGHT	12
1	1008148	CONN PLATE ASSY (264 PINS)	11
1	1008149	CONN PLATE ASSY (293 PINS)	10
3	MS35649-44	NUT	9
1	1010618-13	SCREW BUTTON HEAD	8
3	1010618-14	SCREW BUTTON HEAD	7
4	MS35335-57	WASHER, LOCK FLAT EXTERNAL TOOTH	6
~~1~~	~~1010642-244~~	~~CONNECTOR PLUG ELEC.~~	5
8	MS16995-17	SCREW HEX SOCKET HD	4
4	MS16995-10	SCREW, HEX SOCKET HD	3
10	1008163	PIN, LOCATING	2
1	1007161	END CONNECTOR ASSEMBLY PSA	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1015000	

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
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DRAWN J. Falzone DATE 5 DEC 63
CHECKED
APPROVAL B. Ives 12-20-63
APPROVAL 12-20-63
NASA APPROVAL W. J. 12-30-63
MIT APPROVAL 30 Dec 63

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AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/2
WT
SHEET 1 OF 7

1014606 F

MASTER

INCHES
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REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
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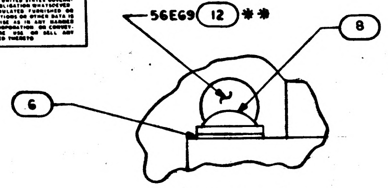
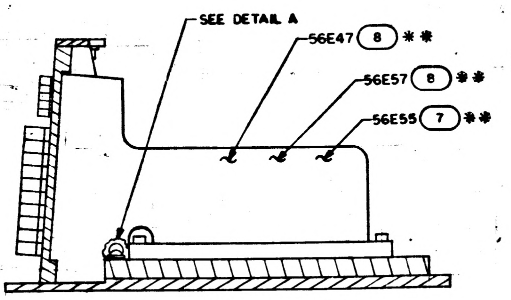
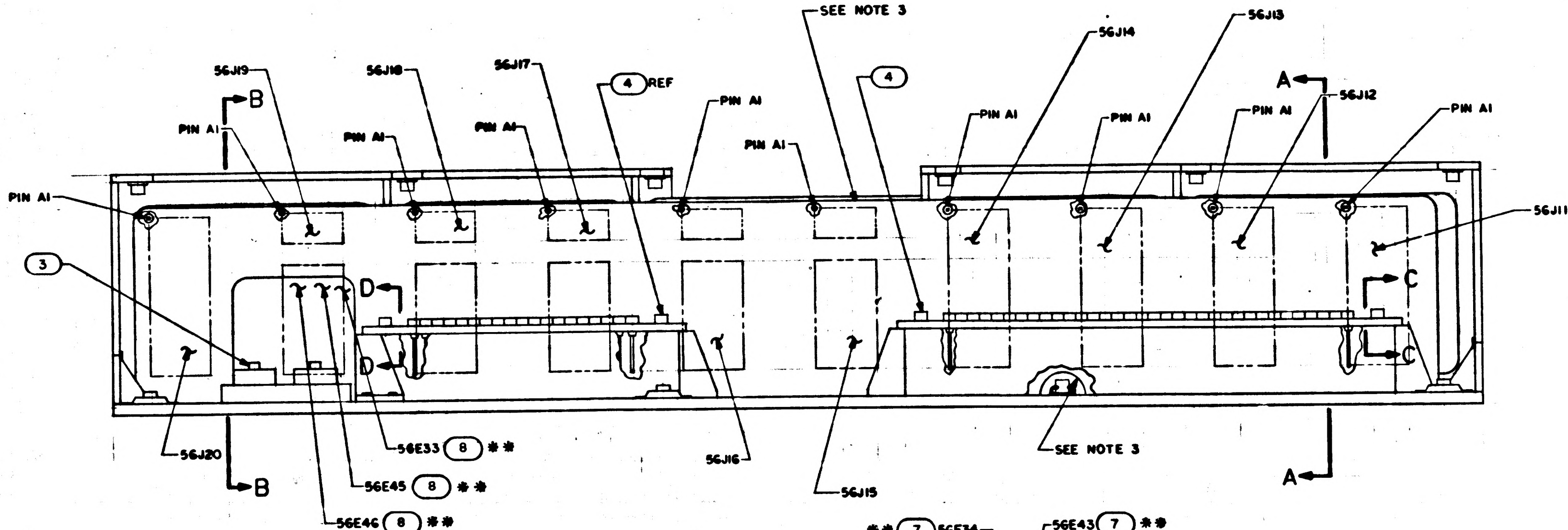
F	REVISED PER TDRR 06267	2/11/64	WK

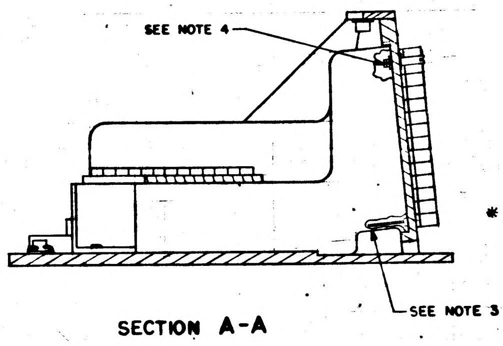


DETAIL A
SCALE 4/1

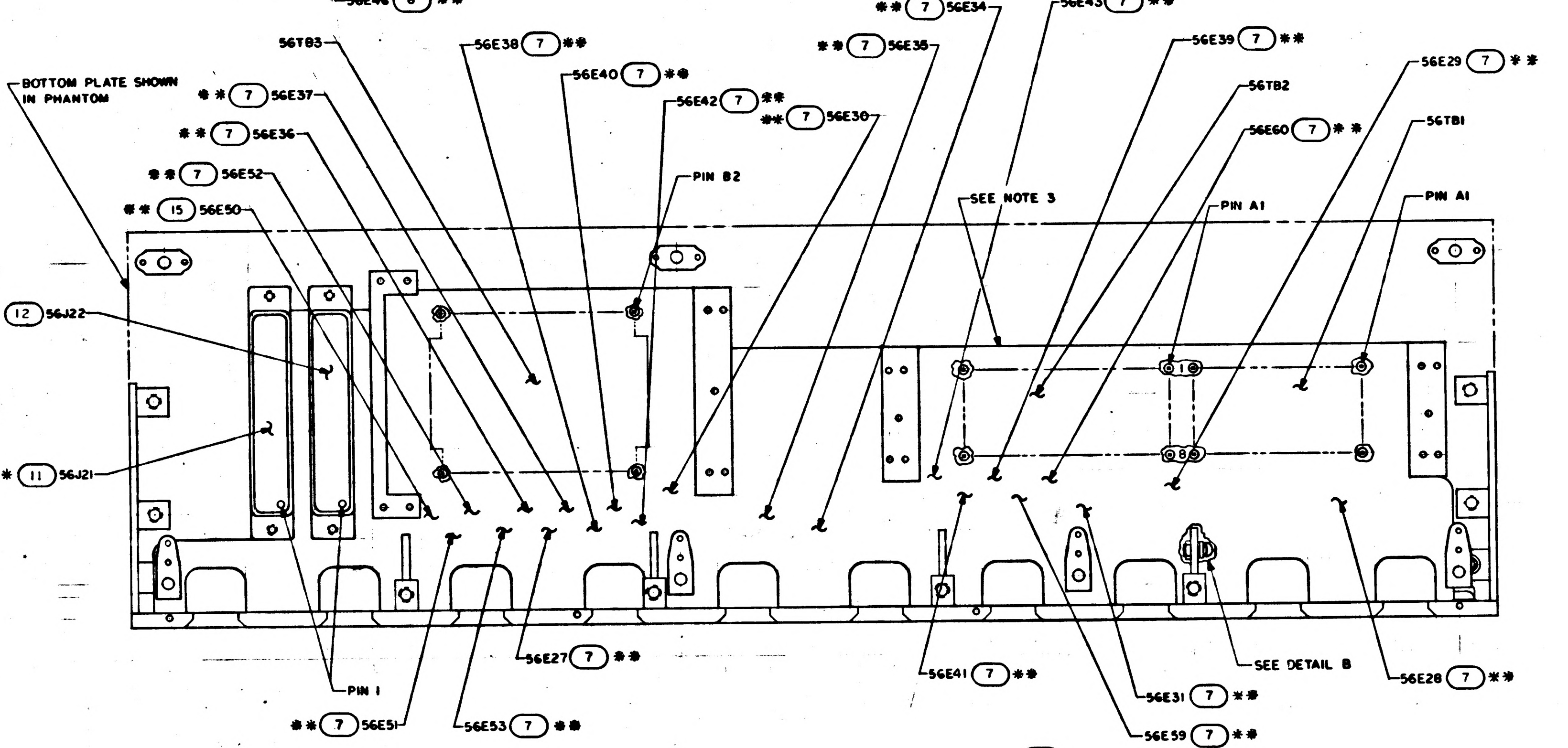

SEE DETAIL A
56E47 (8) **
56E57 (8) **
56E55 (7) **

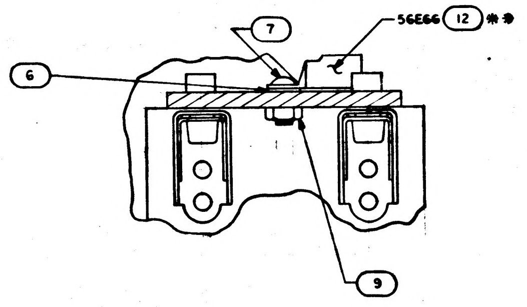
SECTION B-B


56J19
B
PIN A1
56J18
PIN A1
56J17
PIN A1
(4) REF
PIN A1
PIN A1
SEE NOTE 3
(4)
56J14
PIN A1
56J13
PIN A1
A
PIN A1
56J12
PIN A1
56J11
PIN A1
(3)
D
D
C
C
56J20
B
56E33 (8) **
56E45 (8) **
56E46 (8) **
56J16
56J15
SEE NOTE 3
A

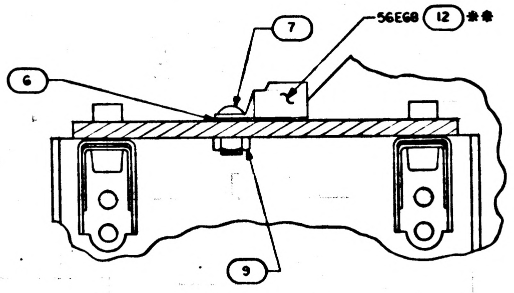

SEE NOTE 4
SEE NOTE 3

SECTION A-A

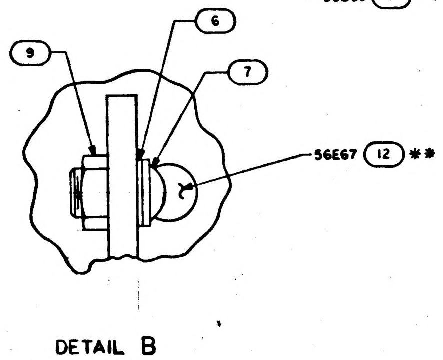

** (7) 56E34
56E43 (7) **
** (7) 56E35
56E39 (7) **
56TB3
56E38 (7) **
56TB2
56E40 (7) **
56E29 (7) **
BOTTOM PLATE SHOWN IN PHANTOM
** (7) 56E37
56E42 (7) **
** (7) 56E30
56E60 (7) **
** (7) 56E36
56TB1
** (7) 56E52
PIN B2
SEE NOTE 3
PIN A1
PIN A1
** (15) 56E50
* (12) 56J22
* (11) 56J21
56E27 (7) **
56E41 (7) **
SEE DETAIL B
56E28 (7) **
PIN 1
56E31 (7) **
** (7) 56E51
56E53 (7) **
56E59 (7) **


(7)
56E66 (12) **
(6)
(9)

PARTIAL SECTION C-C
SCALE 2/1


(7)
56E68 (12) **
(6)
(9)

PARTIAL SECTION D-D
SCALE 2/1


(9)
(6)
(7)
56E67 (12) **

DETAIL B
SCALE 4/1

NOTES
1. ** PARTS ARE LISTED ON DWG 1014608
2. REFER TO DWG 1014608 FOR REFERENCE DESIGNATIONS AND WIRE LIST
3. OUTLINE SHOWS MAXIMUM ENVELOPE FOR WIRE LIST AA, 1014608
4. BEFORE WIRING, COVER THREADS AND OTHER SHARP EDGES WITH SILICON RUBBER PER ND1002009, METHOD B TABS ON THE INSERTS FOR FIND NO 2 SHALL BE CLIPPED OFF
5. * PARTS NOTED ARE LISTED ON DRAWING 1014605

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
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APPROVAL 12-16-63
APPROVAL 12-20-63
NASA APPROVAL 12-30-63
MIT APPROVAL WK 30 Dec 63

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AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO. | SIZE E | NASA DRAWING NO. 1014606
SCALE 1/1 | WT | SHEET 2 OF 7

MASTER

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1014606 F

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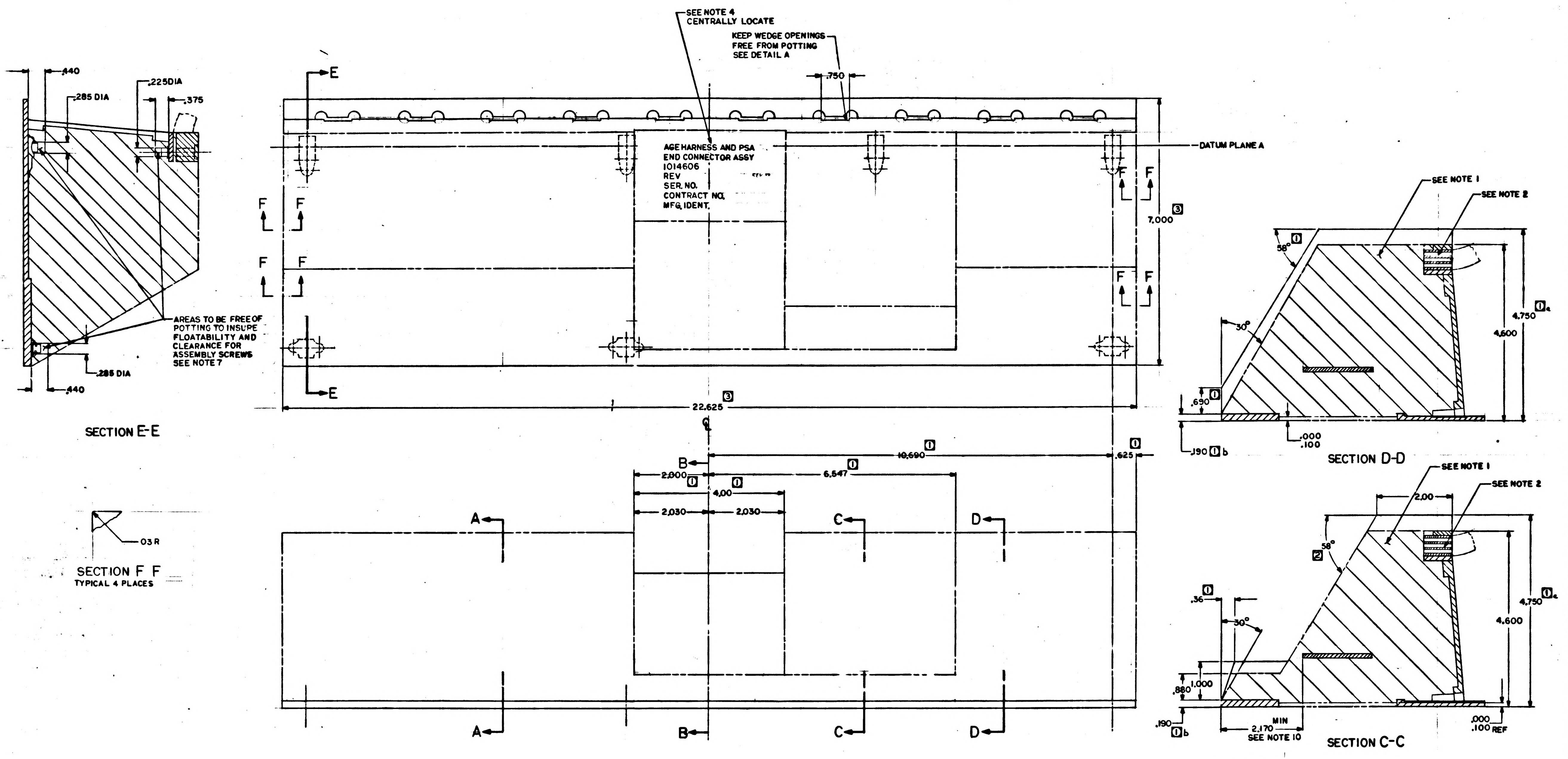
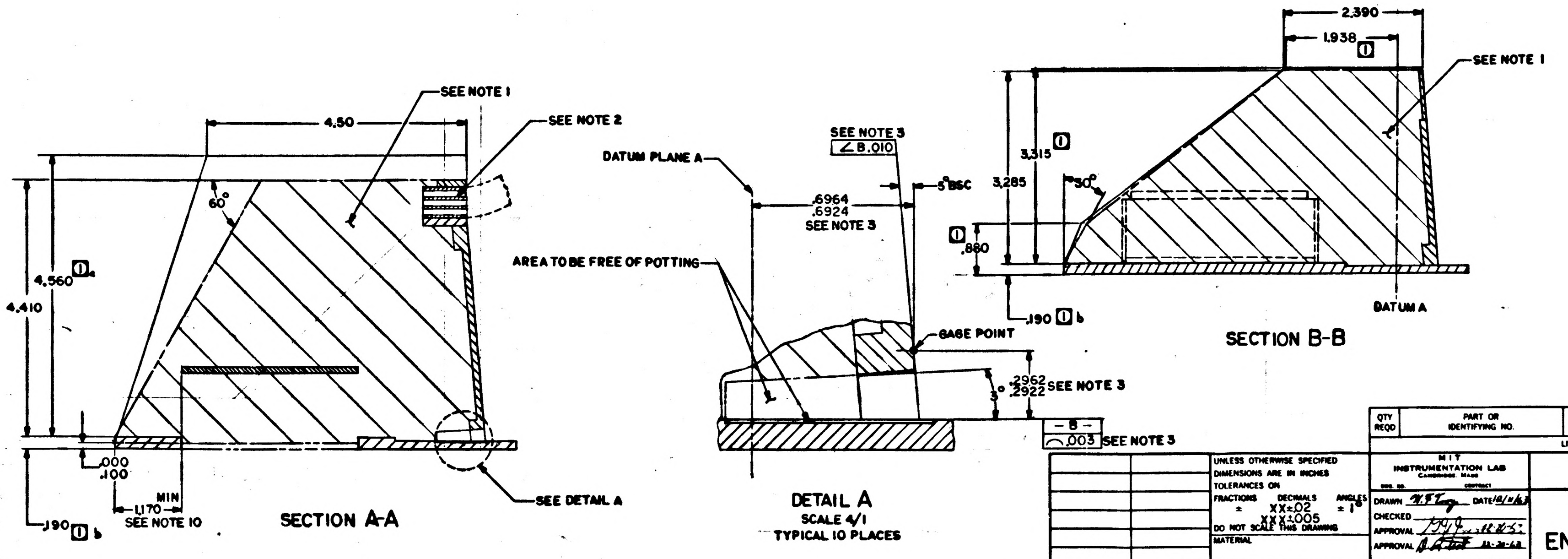
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12-30-63	
F	REVISED PER TDRR 06267	2/11/64	


SEE NOTE 4
CENTRALLY LOCATE
KEEP WEDGE OPENINGS FREE FROM POTTING SEE DETAIL A
.750
AGE HARNESS AND PSA
END CONNECTOR ASSY
1014606
REV
SER. NO.
CONTRACT NO.
MFG. IDENT.
DATUM PLANE A
7.000 ③
22.625 ③
E
F
.440
.285 DIA
.225DIA
.375
AREAS TO BE FREE OF POTTING TO INSURE FLOATABILITY AND CLEARANCE FOR ASSEMBLY SCREWS SEE NOTE 7
.285 DIA
.440
SECTION E-E
.03 R
SECTION F F
TYPICAL 4 PLACES
10.690 ①
.625 ①
2.000 ①
6.547 ①
4.00 ①
2.030
2.030
A
B
C
D
SEE NOTE 1
SEE NOTE 2
58°
30°
4.750 ①a
4.600
.690 ①
.190 ① b
.000
.100
SECTION D-D
2.00
② 58°
.36 ①
30°
.880
1.000
4.750 ①a
4.600
.190 ① b
MIN
2.170
SEE NOTE 10
.000
.100 REF
SECTION C-C


2.390
1.938 ①
SEE NOTE 1
3.315 ①
3.285
30°
.880 ①
.190 ① b
DATUM A
SECTION B-B
SEE NOTE 1
SEE NOTE 2
4.50
60°
4.560 ①a
4.410
.000
.100
MIN
1.170
SEE NOTE 10
.190 ① b
SEE DETAIL A
SECTION A-A
SEE NOTE 3
∠8.010
DATUM PLANE A
.6964
.6924
SEE NOTE 3
.5 BSC
AREA TO BE FREE OF POTTING
GAGE POINT
3°
.2962
.2922 SEE NOTE 3
-B-
⌒.003 SEE NOTE 3
DETAIL A
SCALE 4/1
TYPICAL 10 PLACES

NOTES:
1. ENCAPSULATE PER ND 1002002 (BLACK POLYURETHANE FOAM)
2. ENCAPSULATION PROCESS DEFINED ON SHEET 6
3. DIMENSIONS TO BE STABLE AFTER POTTING
4. SERIALIZE AND MARK CHARACTERS .12 HIGH (WHITE) PER ND 1002023
5. ① THIS DIMENSION OR CHARACTERISTIC IS CONTROLLED BY ICDMH01-01003-116
6. ② ICD ENVELOPE DIMENSION IS 58°, ACTUAL VALUE MAY BE 60°/58°
7. THE AREAS SHOWN FREE OF POTTING ARE THE MINIMUM REQUIRED. TOTAL VOLUME OF EACH VOID MAY EXCEED THAT SHOWN BUT SHALL NOT INTERFERE WITH OR EXPOSE WIRING. CAPS MAY BE USED
8. ALL WIRING SHALL BE BELOW THE SURFACE OF THE ENCAPSULATING MATERIAL
9. ① a b THIS DIMENSION TO BE NEGOTIATED AS PART OF ICD MH01-01003-116 PRESENT ICD DIMENSIONS ARE (a) 4.375 AND (b) .130
10. TERMINAL BOARDS ARE TO BE LOCATED TO THESE DIMENSIONS BEFORE POTTING
11. ③ ICDMH01-01003-116 ENVELOPE DIMENSIONS ARE 7.000 AND 22.690 RESPECTIVELY; ACTUAL VALUES MAY BE LESS. POTTING SHALL BE FLUSH TO .015 LESS THAN THE ENVELOPE DEFINED BY THE ACTUAL LENGTH AND WIDTH OF THE END CONNECTOR ASSEMBLY

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

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TOLERANCES ON
FRACTIONS ± DECIMALS XX±.02 XXX±.005 ANGLES ±1°
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APPROVAL 12-30-63
NASA APPROVAL W. J. 12-30-63
MIT APPROVAL 30 Dec 63

MANNED SPACECRAFT CENTER
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AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE
WT
SHEET 7 OF 7

1014606 F

MASTER

INCHES
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REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
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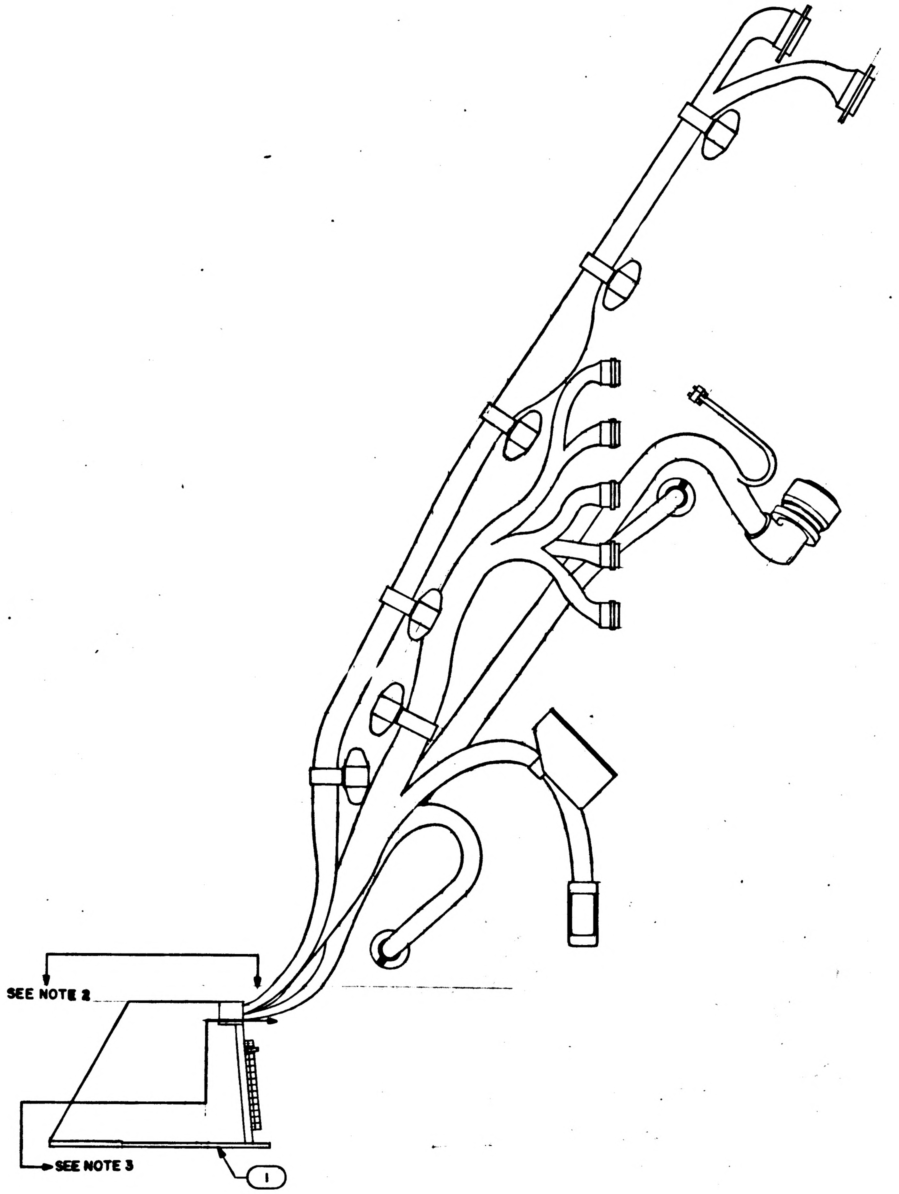
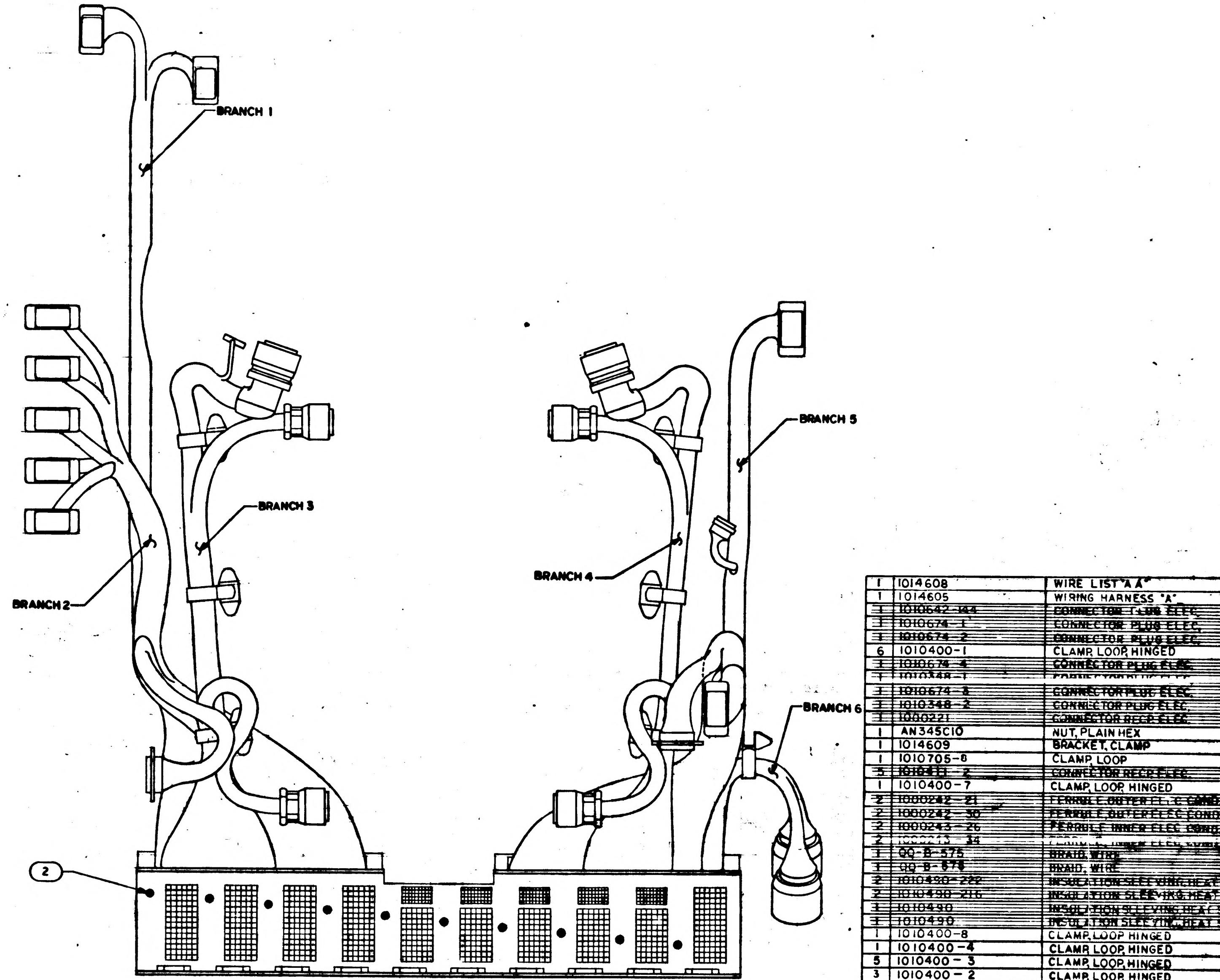
F	REVISED PER TDRR 06267		
G	REVISED PER TDRR 06777		





NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WIRING FOR BRANCHES 1–6 AND THE NOTED SECTION IS SHOW ON SHEETS 3, 4, 5, AND 6 OF THIS DRAWING AND DESCRIBED ON DRAWING 1014605.
3. WIRING FOR THE NOTED SECTION IS SHOWN ON SHEET 2 OF THIS DRAWING AND DESCRIBED ON DRAWING 1014608
4. POTTING VIEWS AND DIMENSIONAL DATA ARE SHOWN ON SHEET 7 OF THIS DRAWING
5. MOUNTING TORQUE FOR FIND NO. 2 IS 6.5 IN/LBS
6. INTERCONNECTING WIRING DIAGRAM FOR THE AGE HARNESS AND END CONNECTOR ASSEMBLY IS DRAWING NO. 1014607
7. INTERCONNECTION DIAGRAM–APOLLO GUIDANCE EQUIPMENT C/M, LOWER EQUIPMENT BAY IS DRAWING NO. 1014523
8. ASSEMBLE AND TEST PER ATP 1014606

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
1	1014608	WIRE LIST "A A"	49
1	1014605	WIRING HARNESS "A"	48
~~1~~	~~1010642-144~~	~~CONNECTOR PLUG ELEC.~~	47
~~1~~	~~1010674-1~~	~~CONNECTOR PLUG ELEC.~~	46
~~1~~	~~1010674-2~~	~~CONNECTOR PLUG ELEC.~~	45
6	1010400-1	CLAMP, LOOP, HINGED	44
~~1~~	~~1010674-4~~	~~CONNECTOR PLUG ELEC.~~	43
~~1~~	~~1010348-1~~	~~CONNECTOR PLUG ELEC.~~	42
~~1~~	~~1010674-3~~	~~CONNECTOR PLUG ELEC.~~	41
~~1~~	~~1010348-2~~	~~CONNECTOR PLUG ELEC.~~	40
~~1~~	~~1000221~~	~~CONNECTOR RECP. ELEC.~~	39
1	AN345C10	NUT, PLAIN HEX	38
1	1014609	BRACKET, CLAMP	37
1	1010705-8	CLAMP, LOOP	36
~~5~~	~~1010411-2~~	~~CONNECTOR RECP. ELEC.~~	35
1	1010400-7	CLAMP, LOOP, HINGED	34
~~2~~	~~1000242-21~~	~~FERRULE, OUTER ELEC COND.~~	33
~~2~~	~~1000242-30~~	~~FERRULE, OUTER ELEC COND.~~	32
~~2~~	~~1000243-26~~	~~FERRULE, INNER ELEC COND.~~	31
~~2~~	~~1000243-34~~	~~FERRULE, INNER ELEC COND.~~	30
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	29
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	28
~~2~~	~~1010490-222~~	~~INSULATION SLEEVING, HEAT SHRINK~~	27
~~2~~	~~1010490-216~~	~~INSULATION SLEEVING, HEAT SHRINK~~	26
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	25
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	24
1	1010400-8	CLAMP, LOOP HINGED	23
1	1010400-4	CLAMP, LOOP, HINGED	22
5	1010400-3	CLAMP, LOOP, HINGED	21
3	1010400-2	CLAMP, LOOP, HINGED	20
~~1~~	~~1010671-2~~	~~CONNECTOR PLUG ELEC~~	19
~~1~~	~~1010671-1~~	~~CONNECTOR PLUG ELEC~~	18
~~2~~	~~1010607-3~~	~~CONNECTOR RECP ELEC~~	17
~~1~~	~~1010607-1~~	~~CONNECTOR RECP. ELEC~~	16
~~3~~	~~1010411-1~~	~~CONNECTOR RECP. ELEC.~~	15
6	1006783-47	SCREW BUTTON HEAD	14
1	1008164	CABLE CLAMP LEFT	13
1	1008165	CABLE CLAMP RIGHT	12
1	1008148	CONN PLATE ASSY (264 PINS)	11
1	1008149	CONN PLATE ASSY (293 PINS)	10
3	MS35649-44	NUT	9
1	1010618-13	SCREW BUTTON HEAD	8
3	1010618-14	SCREW BUTTON HEAD	7
4	MS35335-57	WASHER, LOCK, FLAT, EXTERNAL TOOTH	6
~~1~~	~~1010642-244~~	~~CONNECTOR PLUG ELEC~~	5
8	MS16995-17	SCREW HEX SOCKET HD	4
4	MS16995-10	SCREW, HEX SOCKET HD	3
10	1008163	PIN, LOCATING	2
1	1007161	END CONNECTOR ASSEMBLY PSA	1

LIST OF MATERIALS

1015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
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APPROVAL 12-20-63
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NASA APPROVAL W. J. 12-30-63
MIT APPROVAL 30 Dec 63

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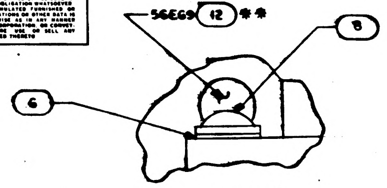
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/1
WT
SHEET 1 OF 7

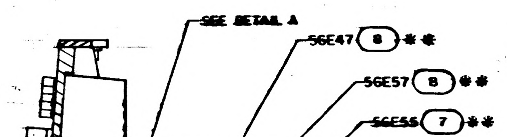
MASTER

INCHES
PHOTOGRAPHIC SCALE ONLY

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331		
F	REVISED PER TDRR 06267	2/11/64	
G	REVISED PER TDRR 06777		

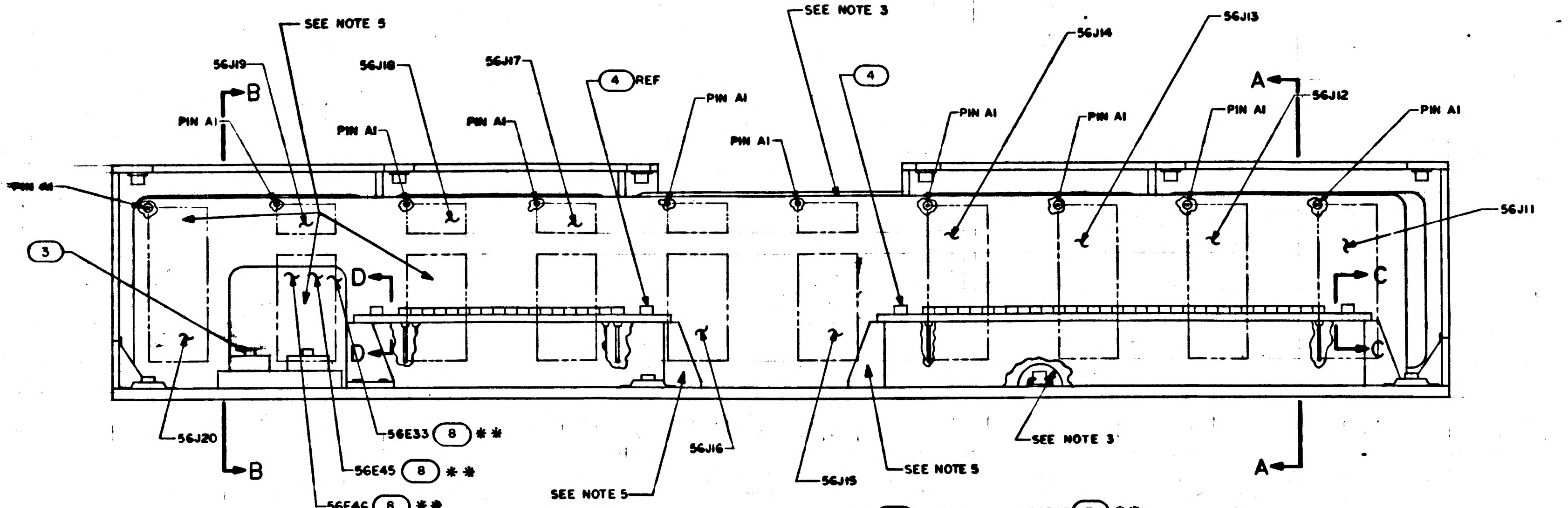


DETAIL A
SCALE 4/1

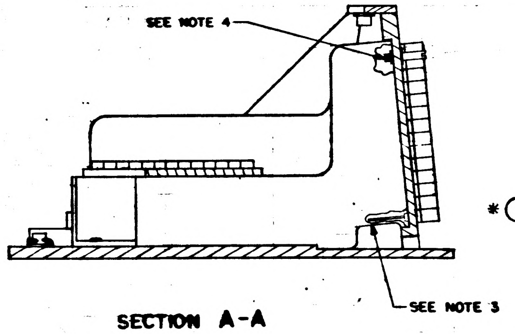


SEE DETAIL A
56E47 (8) ✱✱
56E57 (8) ✱✱
56E55 (7) ✱✱

SECTION B-B

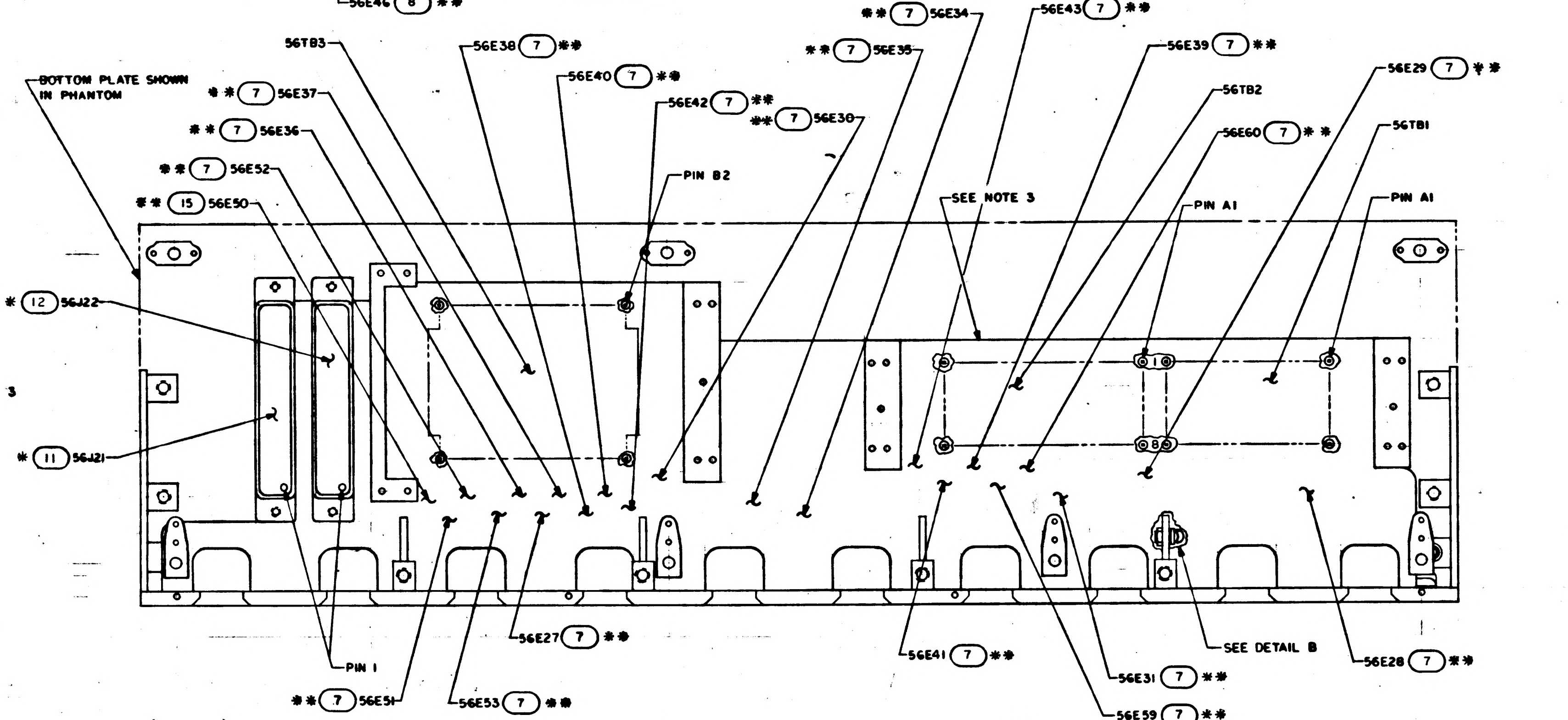


SEE NOTE 5
56J19
56J18
56J17
(4) REF
PIN A1
SEE NOTE 3
(4)
56J14
56J13
A
56J12
B
PIN A1
PIN A1
56J11
(3)
D
C
56J20
56E33 (8) ✱✱
56E45 (8) ✱✱
56E46 (8) ✱✱
56J16
SEE NOTE 5
56J15
SEE NOTE 5
SEE NOTE 3
B
A

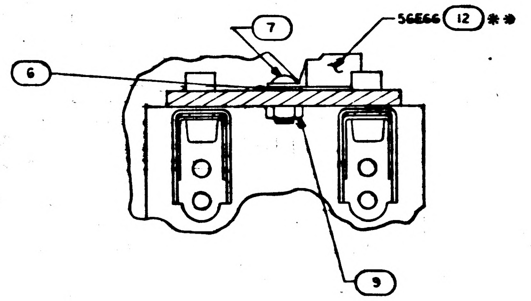


SEE NOTE 4
SEE NOTE 3

SECTION A-A

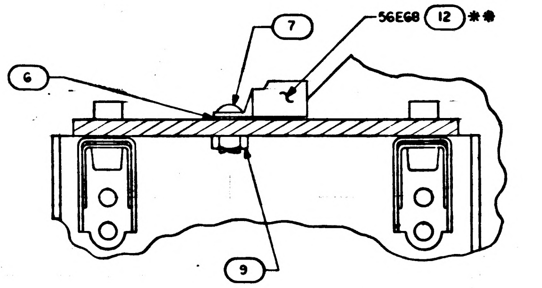


✱✱ (7) 56E34
56E43 (7) ✱✱
✱✱ (7) 56E35
56TB3
56E38 (7) ✱✱
56E39 (7) ✱✱
56E29 (7) ✱✱
BOTTOM PLATE SHOWN IN PHANTOM
56E40 (7) ✱✱
56TB2
✱✱ (7) 56E37
56E42 (7) ✱✱
✱✱ (7) 56E30
56E60 (7) ✱✱
56TB1
✱✱ (7) 56E36
PIN B2
✱✱ (7) 56E52
SEE NOTE 3
PIN A1
PIN A1
✱✱ (15) 56E50
✱ (12) 56J22
✱ (11) 56J21
56E27 (7) ✱✱
56E41 (7) ✱✱
SEE DETAIL B
56E28 (7) ✱✱
PIN 1
56E31 (7) ✱✱
✱✱ (7) 56E51
56E53 (7) ✱✱
56E59 (7) ✱✱



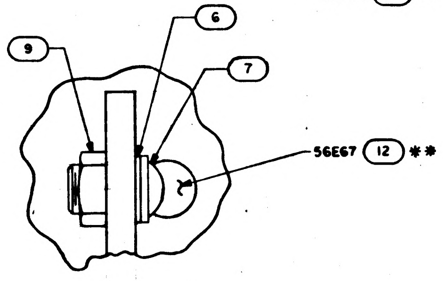
(7)
56E66 (12) ✱✱
(6)
(9)

PARTIAL SECTION C-C
SCALE 2/1



(7)
56E68 (12) ✱✱
(6)
(9)

PARTIAL SECTION D-D
SCALE 2/1



(9)
(6)
(7)
56E67 (12) ✱✱

DETAIL B
SCALE 4/1

NOTES
1. ✱✱ PARTS ARE LISTED ON DWG 1014608
2. REFER TO DWG 1014608 FOR REFERENCE DESIGNATIONS AND WIRE LIST
3. OUTLINE SHOWS MAXIMUM ENVELOPE FOR WIRE LIST AA, 1014608
4. BEFORE WIRING, COVER THREADS AND OTHER SHARP EDGES WITH SILICON RUBBER PER MB1002009, METHOD B TABS ON THE INSERTS FOR FIND NO 2 SHALL BE CLIPPED OFF
5. ✱ PARTS NOTED ARE LISTED ON DRAWING 1014605
6. PROTECT WIRING FROM SHARP EDGES USING INSULATION MATERIAL MIL-I 631D-TYPE G, SUBFORM T_S CLASS I, 0.005 THICK

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO. CONTRACT
DRAWN J. Falzone DATE 11 Dec 63
CHECKED
APPROVAL 12-26-63
APPROVAL 12-30-63
NASA APPROVAL 12-30-63
MIT APPROVAL 30 Dec 63

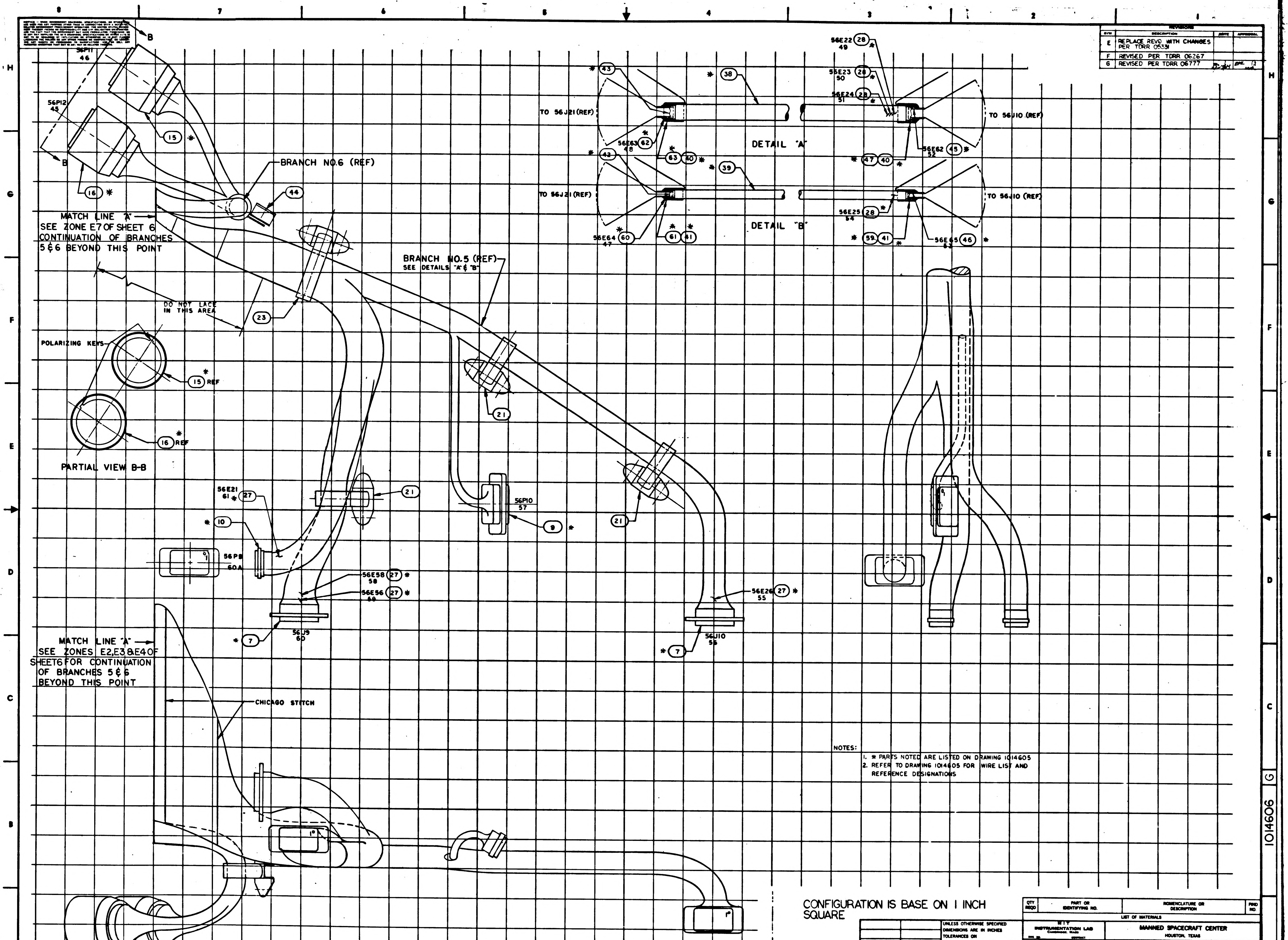
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO. SIZE E NASA DRAWING NO. 1014606
SCALE 1/1 WT SHEET 3 OF 7

1014606 G

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACE REVD WITH CHANGES PER TDRR 05331		
F	REVISED PER TDRR 06267		
G	REVISED PER TDRR 06777		



56P11
46
56P12
45
B
B
15
16
BRANCH NO.6 (REF)
44
MATCH LINE "A"
SEE ZONE E7 OF SHEET 6
CONTINUATION OF BRANCHES
5 & 6 BEYOND THIS POINT
DO NOT LACE
IN THIS AREA
23
BRANCH NO.5 (REF)
SEE DETAILS "A" & "B"
POLARIZING KEYS
15 REF
16 REF
PARTIAL VIEW B-B
21
56E21
61
27
10
56P8
60A
56E58 27
58
56E56 27
59
7
56J9
60
56P10
57
9
56E26 27
55
56J10
56
MATCH LINE "A"
SEE ZONES E2, E3 & E4 OF
SHEET 6 FOR CONTINUATION
OF BRANCHES 5 & 6
BEYOND THIS POINT
CHICAGO STITCH
43
TO 56J21 (REF)
38
56E22 28
49
56E23 28
50
56E24 28
51
TO 56J10 (REF)
56E63 62
48
63
40
DETAIL "A"
47
40
56E62 45
52
42
39
TO 56J21 (REF)
TO 56J10 (REF)
DETAIL "B"
56E25 28
54
56E64 60
47
61
41
59
41
56E65 46
53

NOTES:

1. * PARTS NOTED ARE LISTED ON DRAWING 1014605
2. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS

CONFIGURATION IS BASE ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

M I T
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO. CONTRACT
DRAWN A. G. Loo DATE
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

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HOUSTON, TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/1
WT
SHEET 2 OF 7

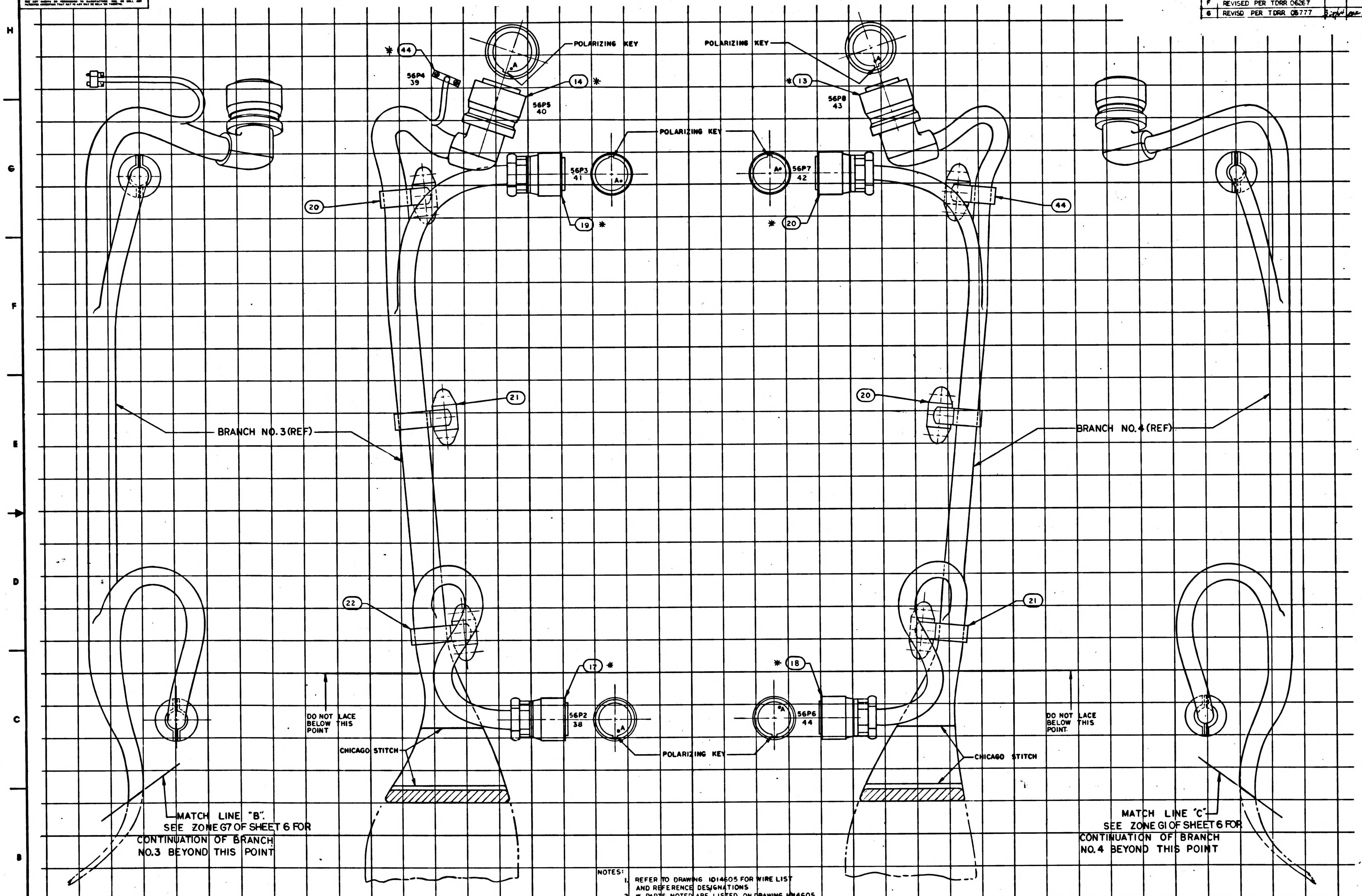
1014606 G

INCHES
PHOTOGRAPHIC SCALE ONLY

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331		
F	REVISED PER TDRR 06267		
G	REVISD PER TDRR 06777		



8
7
6
5
4
3
2
1
H
G
F
E
D
C
B
A
POLARIZING KEY
POLARIZING KEY
POLARIZING KEY
POLARIZING KEY
* 44
56P4
39
14 *
56P5
40
* 13
56P8
43
56P3
41
56P7
42
A
20
19 *
* 20
44
21
20
BRANCH NO. 3 (REF)
BRANCH NO. 4 (REF)
22
21
17 *
* 18
DO NOT LACE BELOW THIS POINT
DO NOT LACE BELOW THIS POINT
56P2
38
56P6
44
CHICAGO STITCH
CHICAGO STITCH
MATCH LINE "B". SEE ZONE G7 OF SHEET 6 FOR CONTINUATION OF BRANCH NO. 3 BEYOND THIS POINT
MATCH LINE "C". SEE ZONE G1 OF SHEET 6 FOR CONTINUATION OF BRANCH NO. 4 BEYOND THIS POINT

NOTES:
1. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS
2. * PARTS NOTED ARE LISTED ON DRAWING 1014605

CONFIGURATION IS BASED ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN A.D. Lay DATE
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

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AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/1
WT
SHEET 4 OF 7

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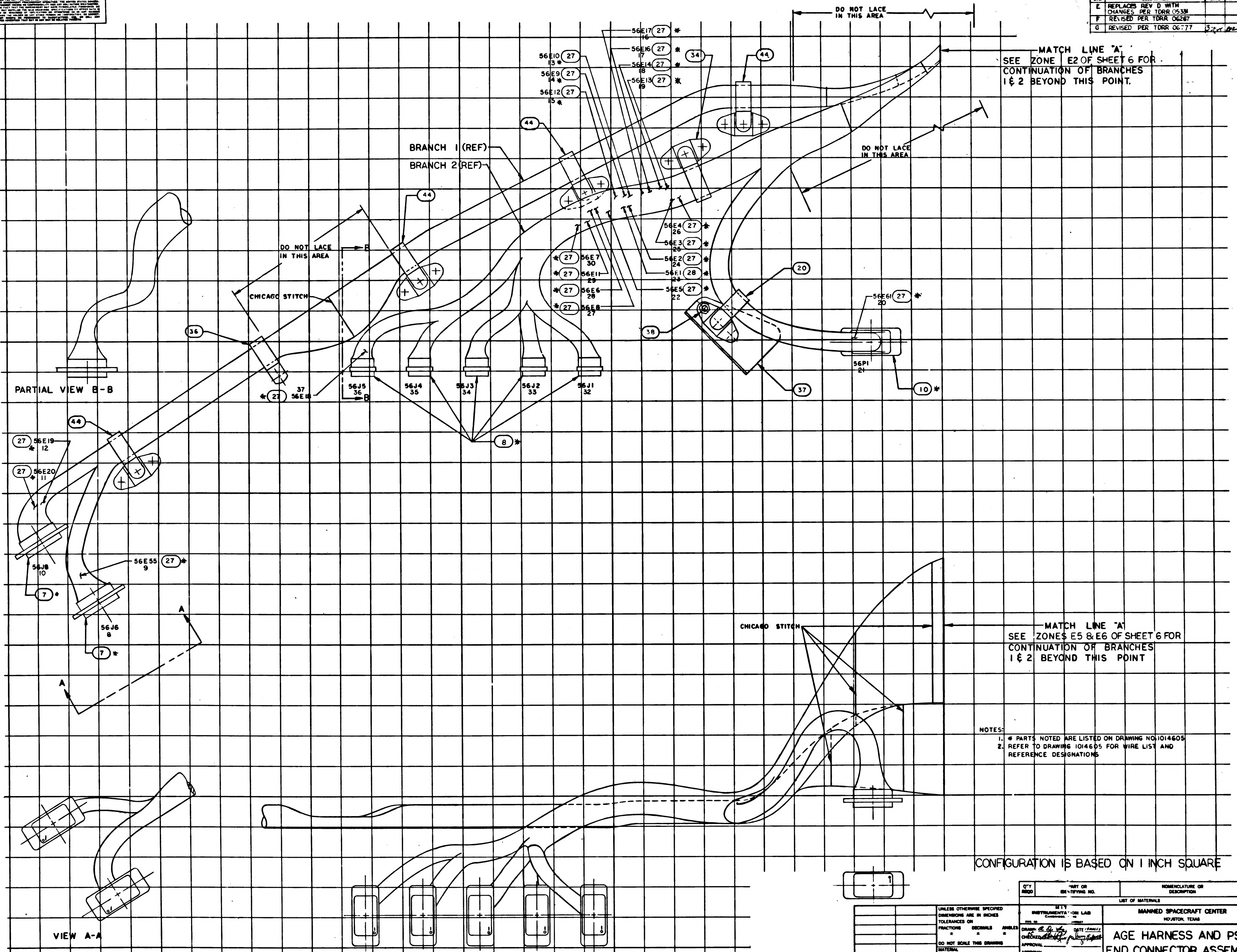
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331		
F	REVISED PER TDRR 06267		
G	REVISED PER TDRR 06777	3-[illegible]	[illegible]


8
7
6
5
4
3
2
1
H
G
F
E
D
C
B
A
DO NOT LACE
IN THIS AREA
MATCH LINE "A"
SEE ZONE E2 OF SHEET 6 FOR
CONTINUATION OF BRANCHES
1 & 2 BEYOND THIS POINT.
56E17 27 ✱
16
56E16 27 ✱
17
56E14 27 ✱
18
56E13 27 ✱
19
56E10 27
13 ✱
56E9 27
14 ✱
56E12 27
15 ✱
34
44
BRANCH 1 (REF)
BRANCH 2 (REF)
DO NOT LACE
IN THIS AREA
44
DO NOT LACE
IN THIS AREA
B
CHICAGO STITCH
56E4 27 ✱
26
56E3 27 ✱
25
56E2 27 ✱
24
56E1 28 ✱
23
56E5 27 ✱
22
✱ 27 56E7
30
✱ 27 56E11
29
✱ 27 56E6
28
✱ 27 56E8
27
20
56E61 27 ✱
20
38
36
56P1
21
37
10 ✱
37
56E18
✱ 27
56J5
36
B
56J4
35
56J3
34
56J2
33
56J1
32
PARTIAL VIEW B-B
8 ✱
44
27 56E19
✱ 12
27 ✱ 56E20
11
56J8
10
56E55 27 ✱
9
7 ✱
56J6
8
7 ✱
A
A
CHICAGO STITCH
MATCH LINE "A"
SEE ZONES E5 & E6 OF SHEET 6 FOR
CONTINUATION OF BRANCHES
1 & 2 BEYOND THIS POINT
VIEW A-A
1014606
G

NOTES:
1. ✱ PARTS NOTED ARE LISTED ON DRAWING NO. 1014605
2. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS

CONFIGURATION IS BASED ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING

MATERIAL

HEAT TREATMENT

FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL
APPROVAL
NASA APPROVAL
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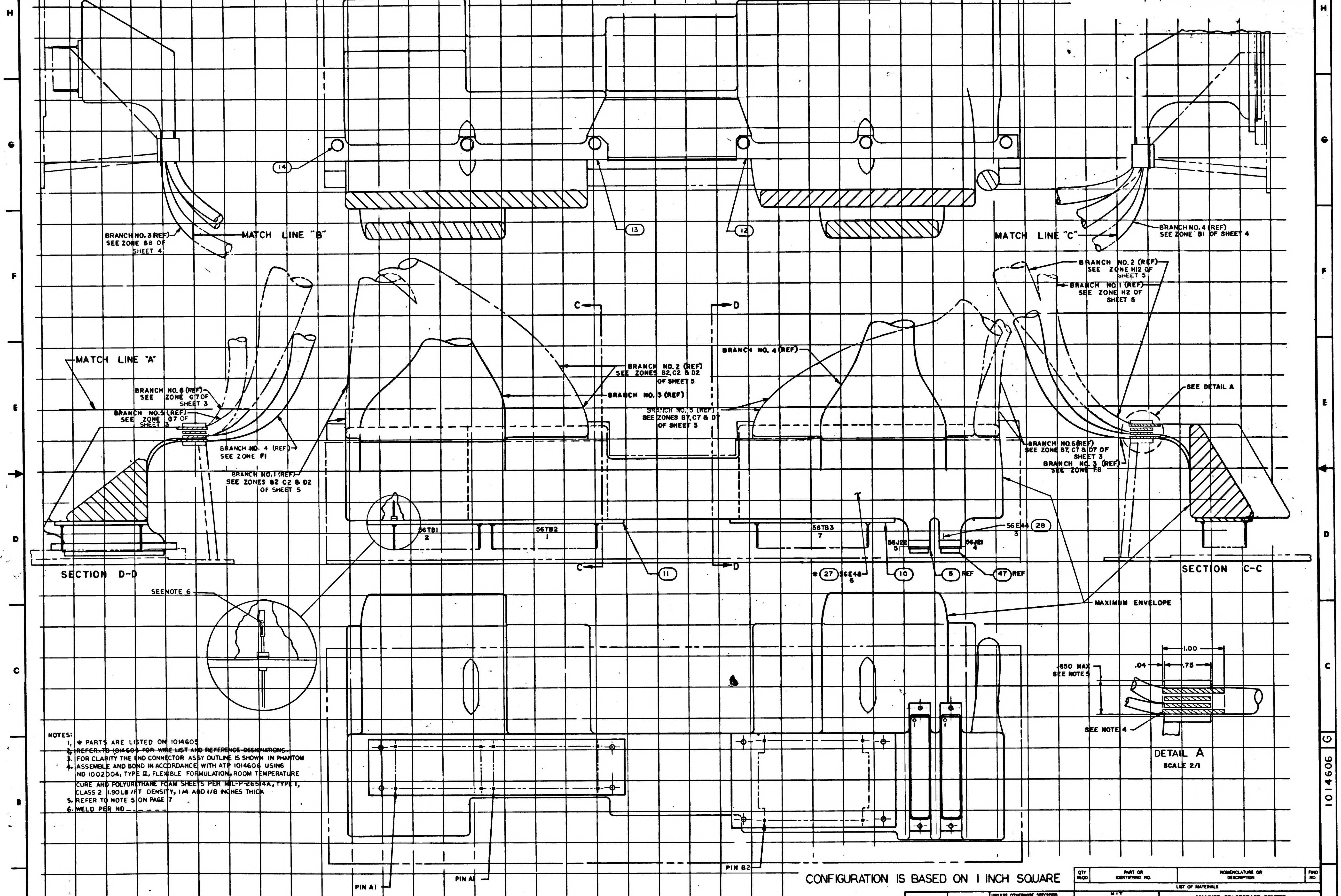
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/1
WT
SHEET 5 OF 7

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05334		—
F	REVISED PER TDRR 06267		
G	REVISED PER TDRR 06777	[illegible]	[illegible]



8
7
6
5
4
3
2
H
G
F
E
D
C
B
A
14
13
12
11
10
6 REF
47 REF
28
* 27 56E48 6
BRANCH NO. 3 (REF) SEE ZONE B8 OF SHEET 4
MATCH LINE "B"
MATCH LINE "C"
BRANCH NO. 4 (REF) SEE ZONE B1 OF SHEET 4
BRANCH NO. 2 (REF) SEE ZONE H12 OF SHEET 5
BRANCH NO. 1 (REF) SEE ZONE H2 OF SHEET 5
C
D
BRANCH NO. 4 (REF)
BRANCH NO. 2 (REF) SEE ZONES B2, C2 & D2 OF SHEET 5
BRANCH NO. 3 (REF)
BRANCH NO. 5 (REF) SEE ZONES B7, C7 & D7 OF SHEET 3
SEE DETAIL A
MATCH LINE "A"
BRANCH NO. 6 (REF) SEE ZONE G7 OF SHEET 3
BRANCH NO. 5 (REF) SEE ZONE G7 OF SHEET 3
BRANCH NO. 4 (REF) SEE ZONE F1
BRANCH NO. 1 (REF) SEE ZONES B2 C2 & D2 OF SHEET 5
BRANCH NO. 6 (REF) SEE ZONE B7, C7 & D7 OF SHEET 3
BRANCH NO. 3 (REF) SEE ZONE F8
56TB1 2
56TB2 1
56TB3 7
56J22 5
56J21 4
56E44 3
SECTION D-D
SECTION C-C
MAXIMUM ENVELOPE
SEE NOTE 6
1.00
.04
.75
.650 MAX SEE NOTE 5
SEE NOTE 4
DETAIL A
SCALE 2/1
PIN A1
PIN A1
PIN B2
1014606
G

NOTES:

1. * PARTS ARE LISTED ON 1014605
2. ~~REFER TO 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS.~~
3. FOR CLARITY THE END CONNECTOR ASSY OUTLINE IS SHOWN IN PHANTOM
4. ASSEMBLE AND BOND IN ACCORDANCE WITH ATP 1014606 USING ND 1002004, TYPE II, FLEXIBLE FORMULATION, ROOM TEMPERATURE CURE AND POLYURETHANE FOAM SHEETS PER MIL-P-26514A, TYPE I, CLASS 2 1.90LB /FT DENSITY, 1/4 AND 1/8 INCHES THICK
5. REFER TO NOTE 5 ON PAGE 7
6. WELD PER ND ______

CONFIGURATION IS BASED ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

NEXT ASSY | USED ON
APPLICATION

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DRAWN DATE
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

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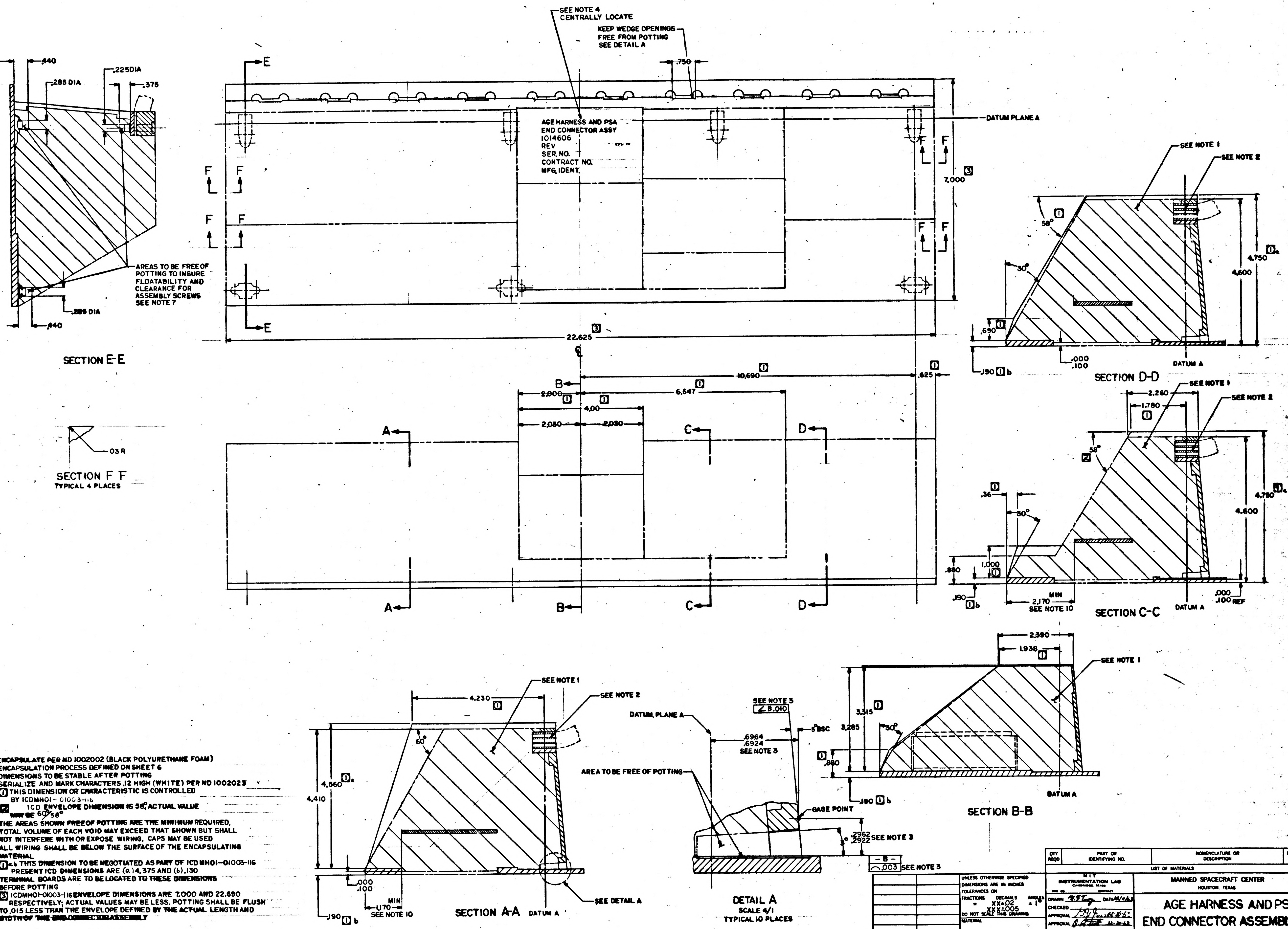
AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO. | SIZE E | NASA DRAWING NO. 1014606
SCALE 1/1 | WT | SHEET 6 OF 7

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12-20-63	
F	REVISED PER TDRR 06267	[illegible]	
6	REVISED PER TDRR 06777	[illegible]	


SEE NOTE 4
CENTRALLY LOCATE
KEEP WEDGE OPENINGS FREE FROM POTTING SEE DETAIL A
.750
AGE HARNESS AND PSA
END CONNECTOR ASSY
1014606
REV
SER. NO.
CONTRACT NO.
MFG. IDENT.
DATUM PLANE A
E
F
7,000 3
22,625 3
.440
.285 DIA
.225 DIA
.375
AREAS TO BE FREE OF POTTING TO INSURE FLOATABILITY AND CLEARANCE FOR ASSEMBLY SCREWS SEE NOTE 7
.285 DIA
.440
SECTION E-E
.03 R
SECTION F F
TYPICAL 4 PLACES
10,690 1
.625 1
6,547 1
2,000 1
4,00 1
2,030
2,030
A
B
C
D
SEE NOTE 1
SEE NOTE 2
58° 1
30°
4,750 1a
4,600
.650 1
.190 1 b
.000
.100
DATUM A
SECTION D-D
2,260
1,780 1
58° 2
.36 1
30°
1,000 1
.880
.190 1 b
2,170 MIN
SEE NOTE 10
.000
.100 REF
SECTION C-C
2,390
1,938 1
3,315 1
3,285
30°
.880 1
.190 1 b
SECTION B-B
4,230 1
60°
4,560 1a
4,410
.000
.100
1,170 MIN
SEE NOTE 10
.190 1 b
SEE DETAIL A
SECTION A-A
SEE NOTE 3
B .010
DATUM PLANE A
.6964
.6924
SEE NOTE 3
5° BSC
AREA TO BE FREE OF POTTING
GAGE POINT
3°
.2962
.2922 SEE NOTE 3
-B-
.003 SEE NOTE 3
DETAIL A
SCALE 4/1
TYPICAL 10 PLACES

NOTES:
1. ENCAPSULATE PER ND 1002002 (BLACK POLYURETHANE FOAM)
2. ENCAPSULATION PROCESS DEFINED ON SHEET 6
3. DIMENSIONS TO BE STABLE AFTER POTTING
4. SERIALIZE AND MARK CHARACTERS .12 HIGH (WHITE) PER ND 1002023
5. 1 THIS DIMENSION OR CHARACTERISTIC IS CONTROLLED BY ICDMH01- 01003-116
6. 2 ICD ENVELOPE DIMENSION IS 58°, ACTUAL VALUE MAY BE 60°/58°
7. THE AREAS SHOWN FREE OF POTTING ARE THE MINIMUM REQUIRED. TOTAL VOLUME OF EACH VOID MAY EXCEED THAT SHOWN BUT SHALL NOT INTERFERE WITH OR EXPOSE WIRING. CAPS MAY BE USED
8. ALL WIRING SHALL BE BELOW THE SURFACE OF THE ENCAPSULATING MATERIAL
9. 1 a.b THIS DIMENSION TO BE NEGOTIATED AS PART OF ICD MH01-01003-116 PRESENT ICD DIMENSIONS ARE (a) 4.375 AND (b) .130
10. TERMINAL BOARDS ARE TO BE LOCATED TO THESE DIMENSIONS BEFORE POTTING
11. 3 ICDMH01-01003-116 ENVELOPE DIMENSIONS ARE 7.000 AND 22.690 RESPECTIVELY; ACTUAL VALUES MAY BE LESS. POTTING SHALL BE FLUSH TO .015 LESS THAN THE ENVELOPE DEFINED BY THE ACTUAL LENGTH AND WIDTH OF THE END CONNECTOR ASSEMBLY

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS ± DECIMALS XX±.02 XXX±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

M I T
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DWG. NO. CONTRACT
DRAWN W.F.Tracy DATE 12/11/63
CHECKED
APPROVAL 12-20-63
APPROVAL 12-20-63
NASA APPROVAL W. J. [illegible] 12-30-63
MIT APPROVAL W Coffee 30 Dec 63

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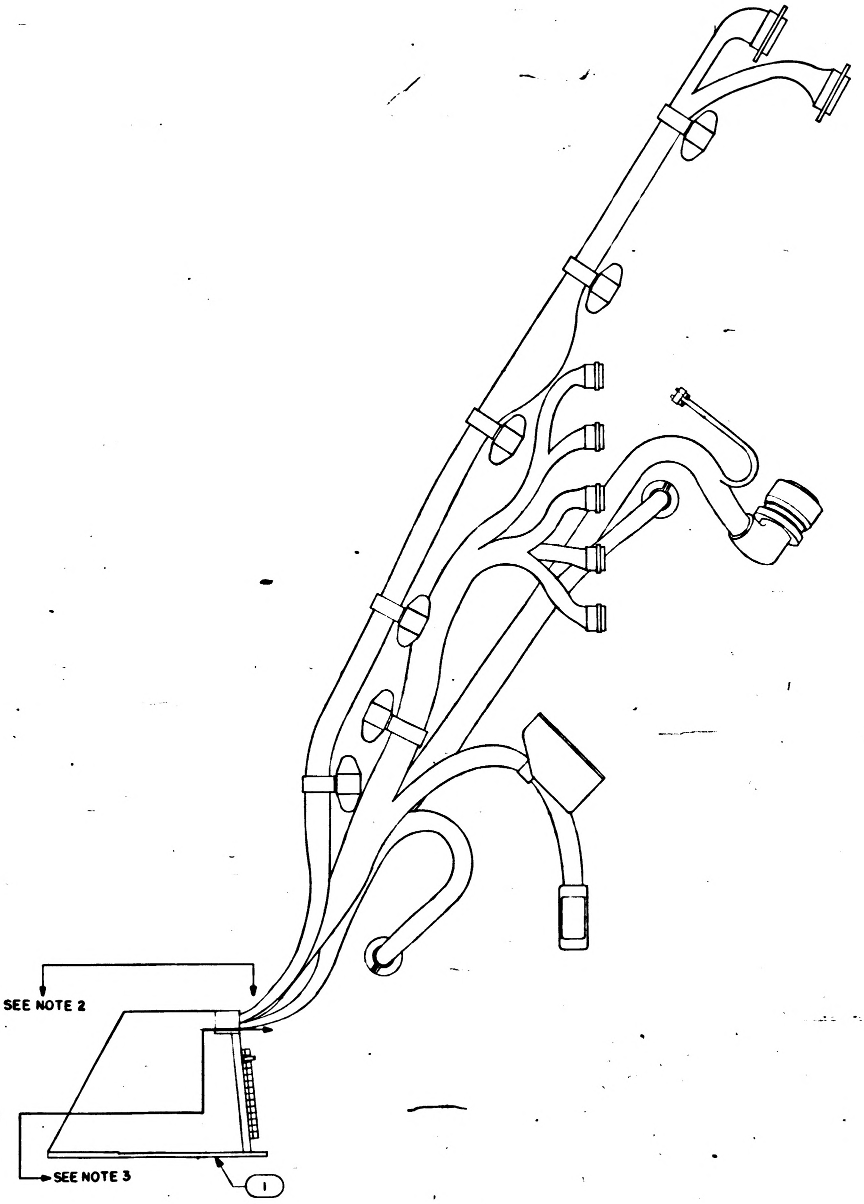
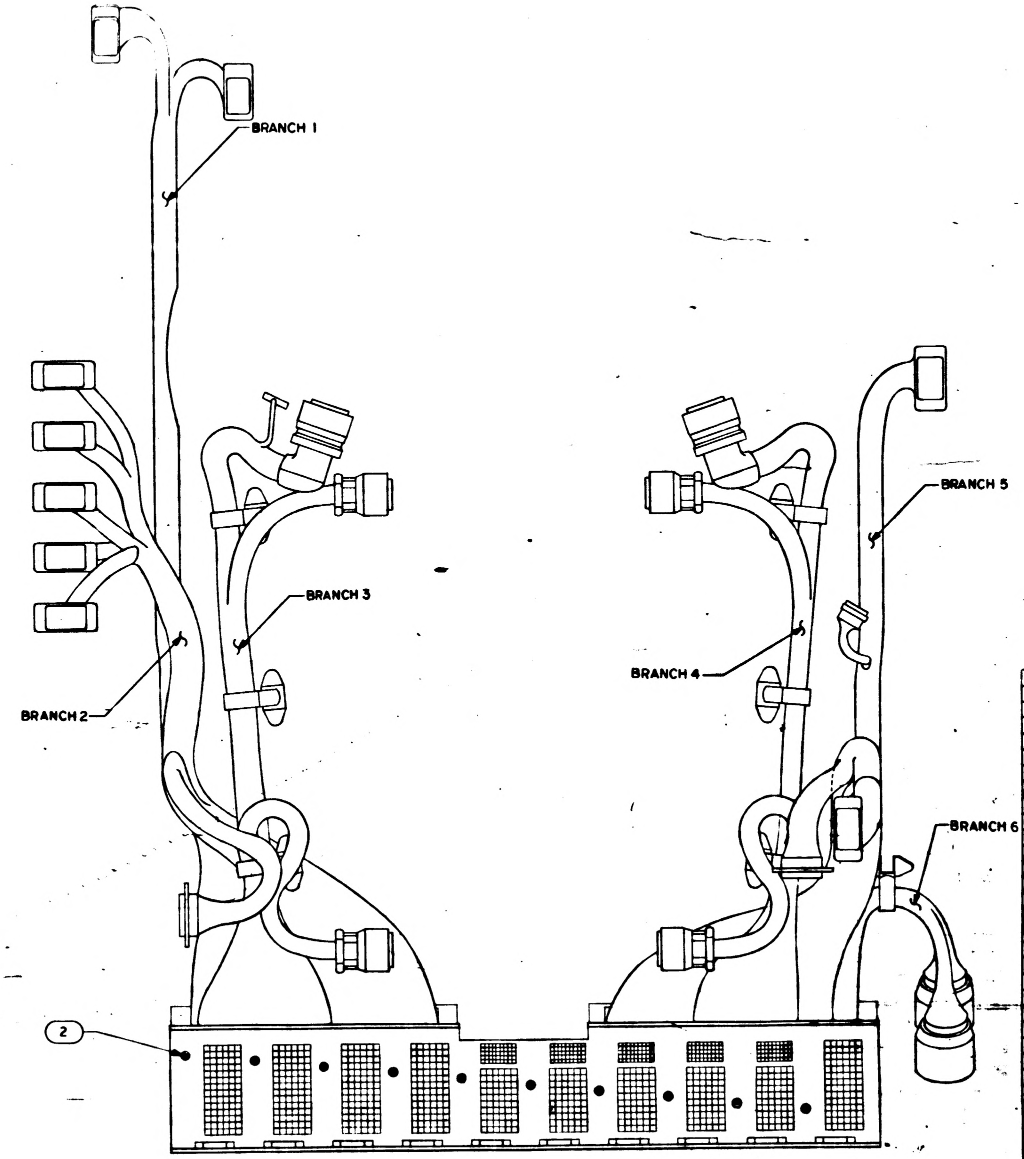
AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE
WT
SHEET 7 OF 7

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12-27-63	
F	REVISED PER TDRR 06267	Feb 64	WK
G	REVISED PER TDRR 06777		RPK
H	REVISED PER TDRR 10924	21 JUL 64	JWP





NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WIRING FOR BRANCHES 1–6 AND THE NOTED SECTION IS SHOW ON SHEETS 3, 4, 5, AND 6 OF THIS DRAWING AND DESCRIBED ON DRAWING 1014605.
3. WIRING FOR THE NOTED SECTION IS SHOWN ON SHEET 2 OF THIS DRAWING AND DESCRIBED ON DRAWING 1014608
4. POTTING VIEWS AND DIMENSIONAL DATA ARE SHOWN ON SHEET 7 OF THIS DRAWING
5. MOUNTING TORQUE FOR FIND NO. 2 IS 6.5 IN/LBS
6. INTERCONNECTING WIRING DIAGRAM FOR THE AGE HARNESS AND END CONNECTOR ASSEMBLY IS DRAWING NO. 1014607
7. INTERCONNECTION DIAGRAM–APOLLO GUIDANCE EQUIPMENT C/M. LOWER EQUIPMENT BAY IS DRAWING NO. 1014523
8. ASSEMBLE AND TEST PER ATP 1014606

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1014608	WIRE LIST "A A"	49
1	1014605	WIRING HARNESS "A"	48
~~1~~	~~1010642-144~~	~~CONNECTOR PLUG ELEC.~~	47
~~1~~	~~1010674-1~~	~~CONNECTOR PLUG ELEC.~~	46
~~1~~	~~1010674-2~~	~~CONNECTOR PLUG ELEC.~~	45
6	1010400-1	CLAMP, LOOP, HINGED	44
~~1~~	~~1010674-4~~	~~CONNECTOR PLUG ELEC.~~	43
~~1~~	~~1010348-1~~	~~CONNECTOR PLUG ELEC.~~	42
~~1~~	~~1010674-3~~	~~CONNECTOR PLUG ELEC.~~	41
~~1~~	~~1010348-2~~	~~CONNECTOR PLUG ELEC.~~	40
~~1~~	~~1000221~~	~~CONNECTOR RECP ELEC.~~	39
1	AN345C10	NUT, PLAIN HEX	38
1	1014609	BRACKET, CLAMP	37
1	1010705-8	CLAMP, LOOP	36
~~5~~	~~1010411-2~~	~~CONNECTOR RECP ELEC.~~	35
1	1010400-7	CLAMP, LOOP, HINGED	34
~~2~~	~~1000242-21~~	~~FERRULE, OUTER ELEC COND.~~	33
~~2~~	~~1000242-30~~	~~FERRULE, OUTER ELEC COND.~~	32
~~2~~	~~1000243-26~~	~~FERRULE, INNER ELEC COND.~~	31
~~2~~	~~1000243-34~~	~~FERRULE, INNER ELEC COND.~~	30
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	29
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	28
~~2~~	~~1010490-222~~	~~INSULATION SLEEVING, HEAT SHRINK~~	27
~~2~~	~~1010490-216~~	~~INSULATION SLEEVING, HEAT SHRINK~~	26
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	25
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	24
1	1010400-8	CLAMP, LOOP HINGED	23
1	1010400-4	CLAMP, LOOP, HINGED	22
5	1010400-3	CLAMP, LOOP, HINGED	21
3	1010400-2	CLAMP, LOOP, HINGED	20
~~1~~	~~1010671-2~~	~~CONNECTOR PLUG ELEC.~~	19
~~1~~	~~1010671-1~~	~~CONNECTOR PLUG ELEC.~~	18
~~2~~	~~1010607-3~~	~~CONNECTOR RECP ELEC.~~	17
~~1~~	~~1010607-1~~	~~CONNECTOR RECP ELEC.~~	16
~~4~~	~~1010411-1~~	~~CONNECTOR RECP ELEC.~~	15
6	1006783-47	SCREW BUTTON HEAD	14
1	1008164	CABLE CLAMP LEFT	13
1	1008165	CABLE CLAMP RIGHT	12
1	1008148	CONN PLATE ASSY (264 PINS)	11
1	1008149	CONN PLATE ASSY (293 PINS)	10
3	MS35649-44	NUT	9
1	1010618-13	SCREW BUTTON HEAD	8
3	1010618-14	SCREW BUTTON HEAD	7
4	MS35335-57	WASHER, LOCK, FLAT, EXTERNAL TOOTH	6
~~1~~	~~1010642-244~~	~~CONNECTOR PLUG ELEC.~~	5
8	MS16995-17	SCREW HEX SOCKET HD	4
4	MS16995-10	SCREW, HEX SOCKET HD	3
10	1008163	PIN, LOCATING	2
1	1007161	END CONNECTOR ASSEMBLY PSA	1

LIST OF MATERIALS

1015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN J. Falzone DATE 6 DEC 63
CHECKED
APPROVAL 12-20-63
APPROVAL 12-20-63
NASA APPROVAL W. J. Rhine 12-30-63
MIT APPROVAL W. Kupfer 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/2
WT
SHEET 1 OF 7

H 1014606

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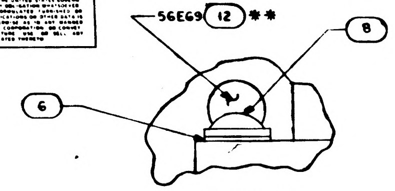
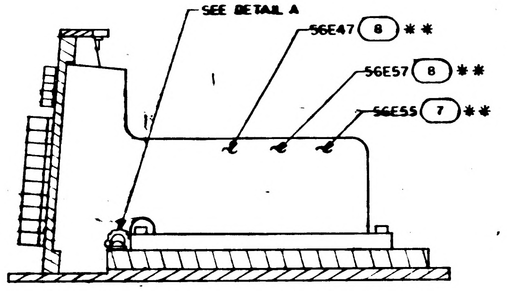
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12-27-63	
F	REVISED PER TDRR 06267	2/14/64	
G	REVISED PER TDRR 06777		
H	REVISED PER TDRR 10924	8/ /65	

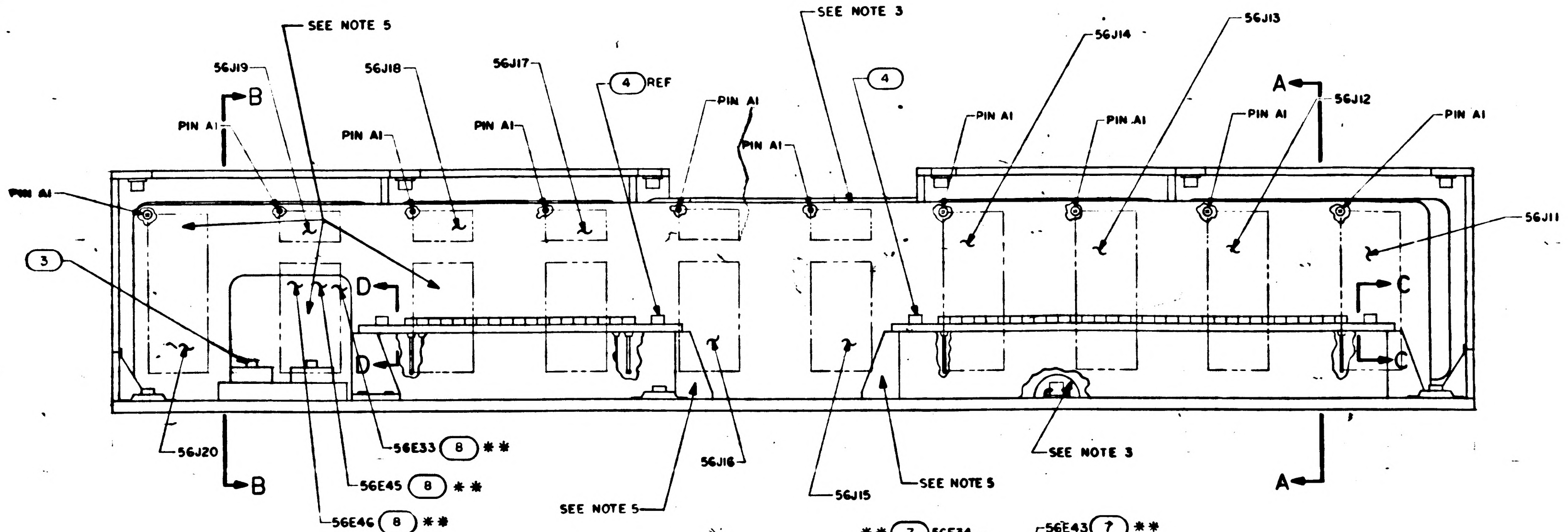


DETAIL A
SCALE 4/1

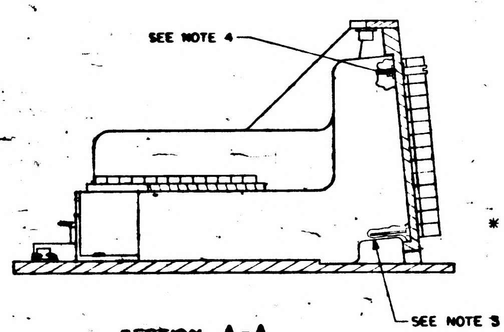


SEE DETAIL A
56E47 (8) **
56E57 (8) **
56E55 (7) **

SECTION B-B

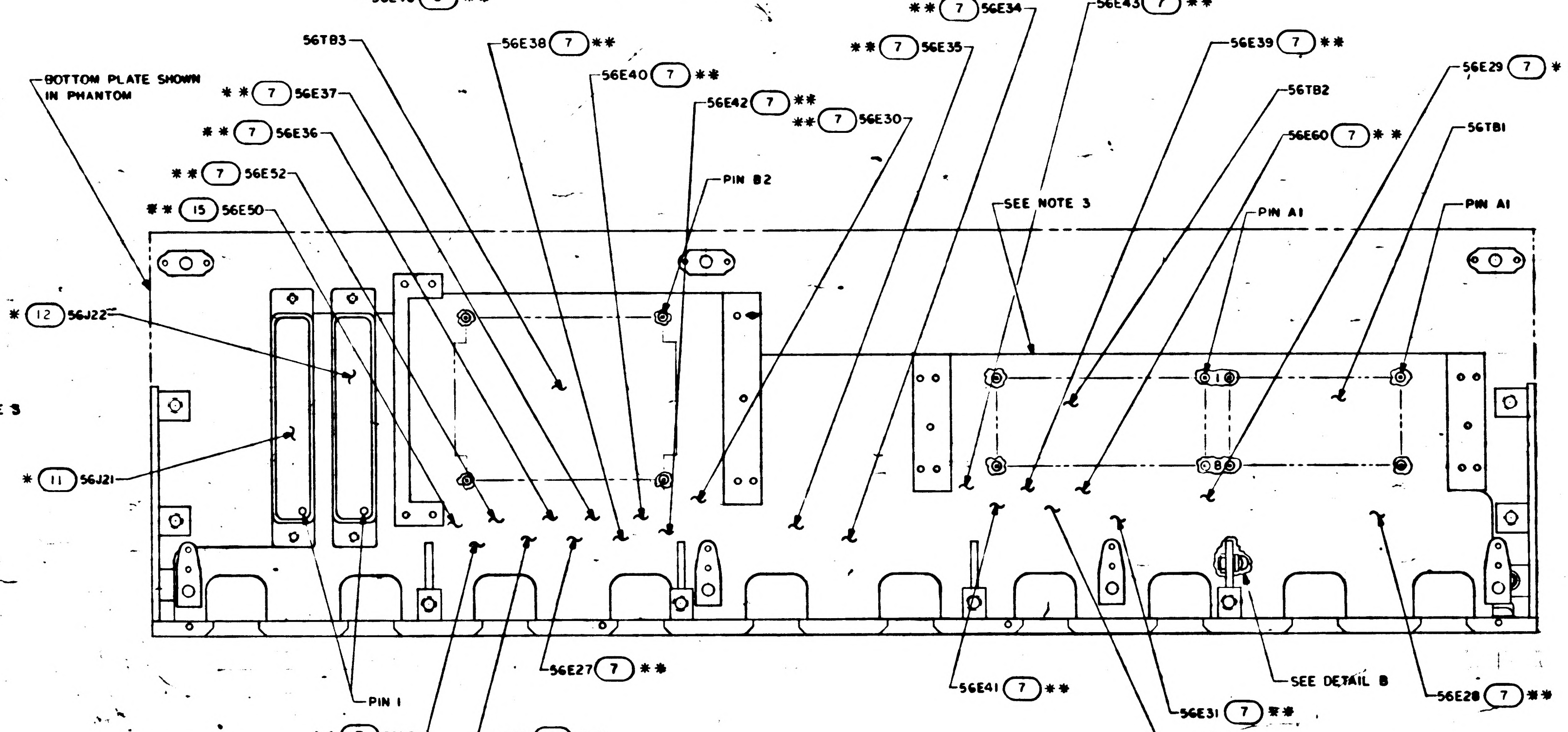


SEE NOTE 5
SEE NOTE 3
56J19
B
PIN A1
56J18
PIN A1
56J17
PIN A1
(4) REF
PIN A1
PIN A1
(4)
56J14
56J13
PIN A1
PIN A1
PIN A1
A
56J12
PIN A1
PIN A1
56J11
(3)
D
D
C
C
56J20
B
56E33 (8) **
56E45 (8) **
56E46 (8) **
SEE NOTE 5
56J16
56J15
SEE NOTE 5
SEE NOTE 3
A

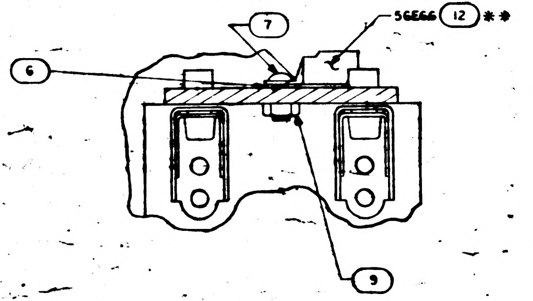


SEE NOTE 4
SEE NOTE 5

SECTION A-A

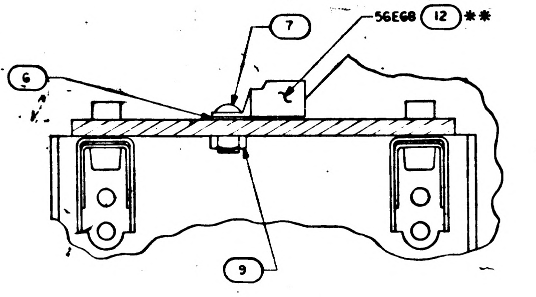


** (7) 56E34
56E43 (7) **
** (7) 56E35
56E39 (7) **
56TB3
56E38 (7) **
56E40 (7) **
56TB2
56E29 (7) **
BOTTOM PLATE SHOWN IN PHANTOM
** (7) 56E37
56E42 (7) **
** (7) 56E30
56E60 (7) **
56TB1
** (7) 56E36
PIN B2
** (7) 56E52
SEE NOTE 3
PIN A1
PIN A1
** (15) 56E50
* (12) 56J22
* (11) 56J21
56E27 (7) **
56E41 (7) **
SEE DETAIL B
56E28 (7) **
PIN 1
56E31 (7) **
** (7) 56E51
56E53 (7) **
56E59 (7) **

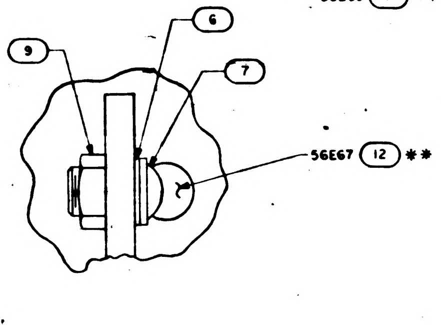


(7)
56E66 (12) **
(6)
(9)

PARTIAL SECTION C-C
SCALE 2/1



(7)
56E68 (12) **
(6)
(9)



(9)
(6)
(7)
56E67 (12) **

NOTES
1. ** PARTS ARE LISTED ON DWG 1014608
2. REFER TO DWG 1014608 FOR REFERENCE DESIGNATIONS AND WIRE LIST
3. OUTLINE SHOWS MAXIMUM ENVELOPE FOR WIRE LIST AA, 1014608
4. BEFORE WIRING, COVER THREADS AND OTHER SHARP EDGES WITH SILICON RUBBER PER MB1002009, METHOD B TABS ON THE INSERTS FOR FIND NO 2 SHALL BE CLIPPED OFF
5. * PARTS NOTED ARE LISTED ON DRAWING 1014605
6. PROTECT WIRING FROM SHARP EDGES USING INSULATION MATERIAL MIL-I 631D-TYPE G, SUBFORM T_S CLASS I, 0.005 THICK

PARTIAL SECTION D-D
SCALE 2/1

DETAIL B
SCALE 4/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

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CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN J Falzone DATE DEC 63
CHECKED
APPROVAL 12-26-63
APPROVAL 12-30-63
NASA APPROVAL W. J. 12-30-63
MIT APPROVAL 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

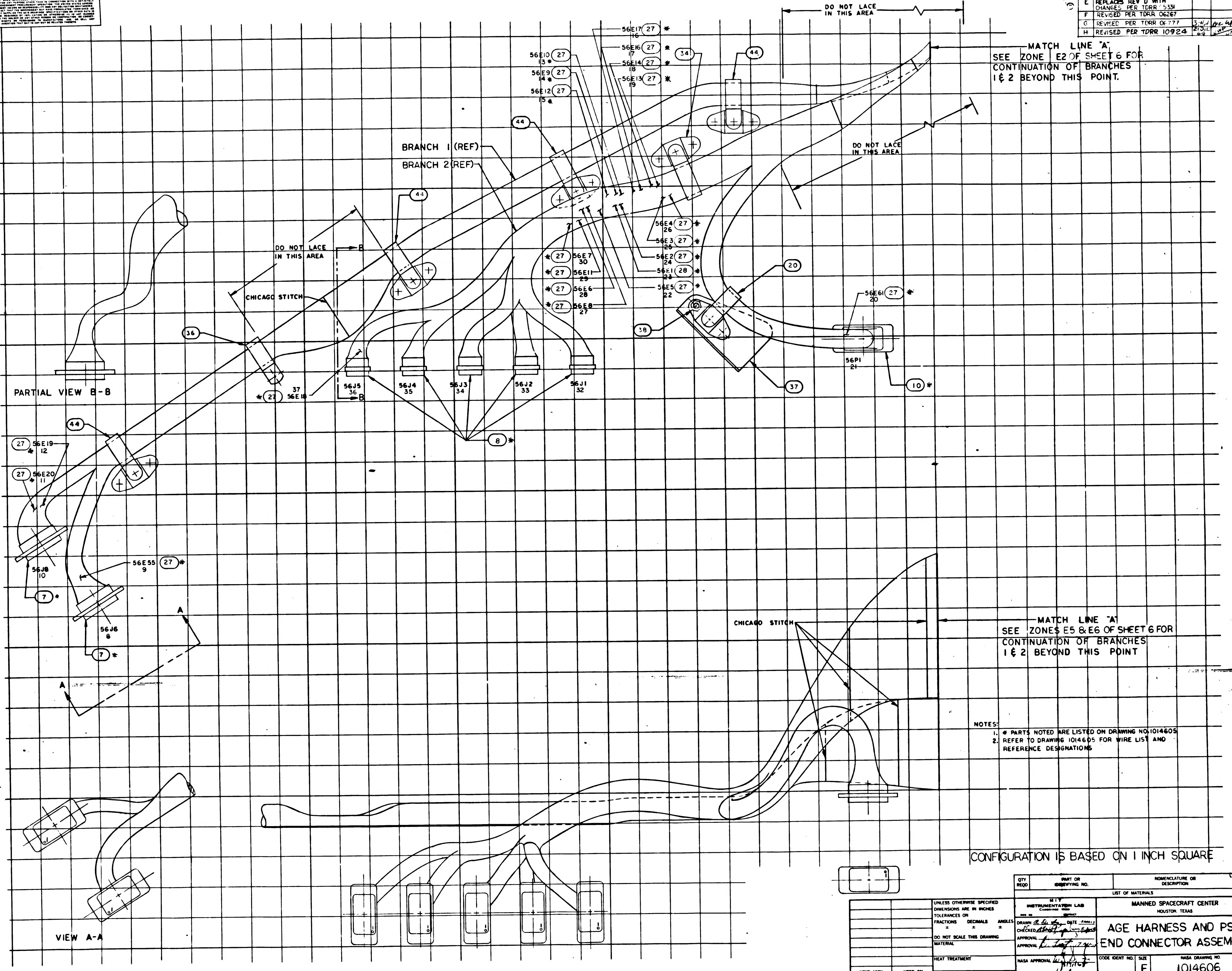
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014606
SCALE 1/1
WT
SHEET 2 OF 7

1014606 H

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331		
F	REVISED PER TDRR 06267		
G	REVISED PER TDRR 06777	3-4-64	
H	REVISED PER TDRR 10924	21 JUL 64	JWP



DO NOT LACE IN THIS AREA
MATCH LINE "A"
SEE ZONE E2 OF SHEET 6 FOR CONTINUATION OF BRANCHES 1 & 2 BEYOND THIS POINT.
56E17 16 (27) *
56E16 17 (27) *
56E14 18 (27) *
56E13 19 (27) *
56E10 13 * (27)
56E9 14 * (27)
56E12 15 * (27)
34
44
BRANCH 1 (REF)
BRANCH 2 (REF)
DO NOT LACE IN THIS AREA
56E4 26 (27) *
56E3 25 (27) *
56E2 24 (27) *
56E1 23 (28) *
56E5 22 (27) *
* (27) 56E7 30
* (27) 56E11 29
* (27) 56E6 28
* (27) 56E8 27
DO NOT LACE IN THIS AREA
B
B
CHICAGO STITCH
36
20
38
56E61 20 (27) *
56P1 21
10 *
37
*(27) 37 56E18
56J5 36
56J4 35
56J3 34
56J2 33
56J1 32
8 *
PARTIAL VIEW B-B
44
(27) 56E19 12 *
(27) 56E20 11
56J8 10
7 *
56E55 9 (27) *
56J6 8
7 *
A
A
CHICAGO STITCH
MATCH LINE "A"
SEE ZONES E5 & E6 OF SHEET 6 FOR CONTINUATION OF BRANCHES 1 & 2 BEYOND THIS POINT
VIEW A-A

NOTES:
1. * PARTS NOTED ARE LISTED ON DRAWING NO. 1014605
2. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS

CONFIGURATION IS BASED ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
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DRAWN
DATE
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL 3/13/64
MIT APPROVAL 2/14/64

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HOUSTON, TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/1
WT
SHEET 5 OF 7

1014606

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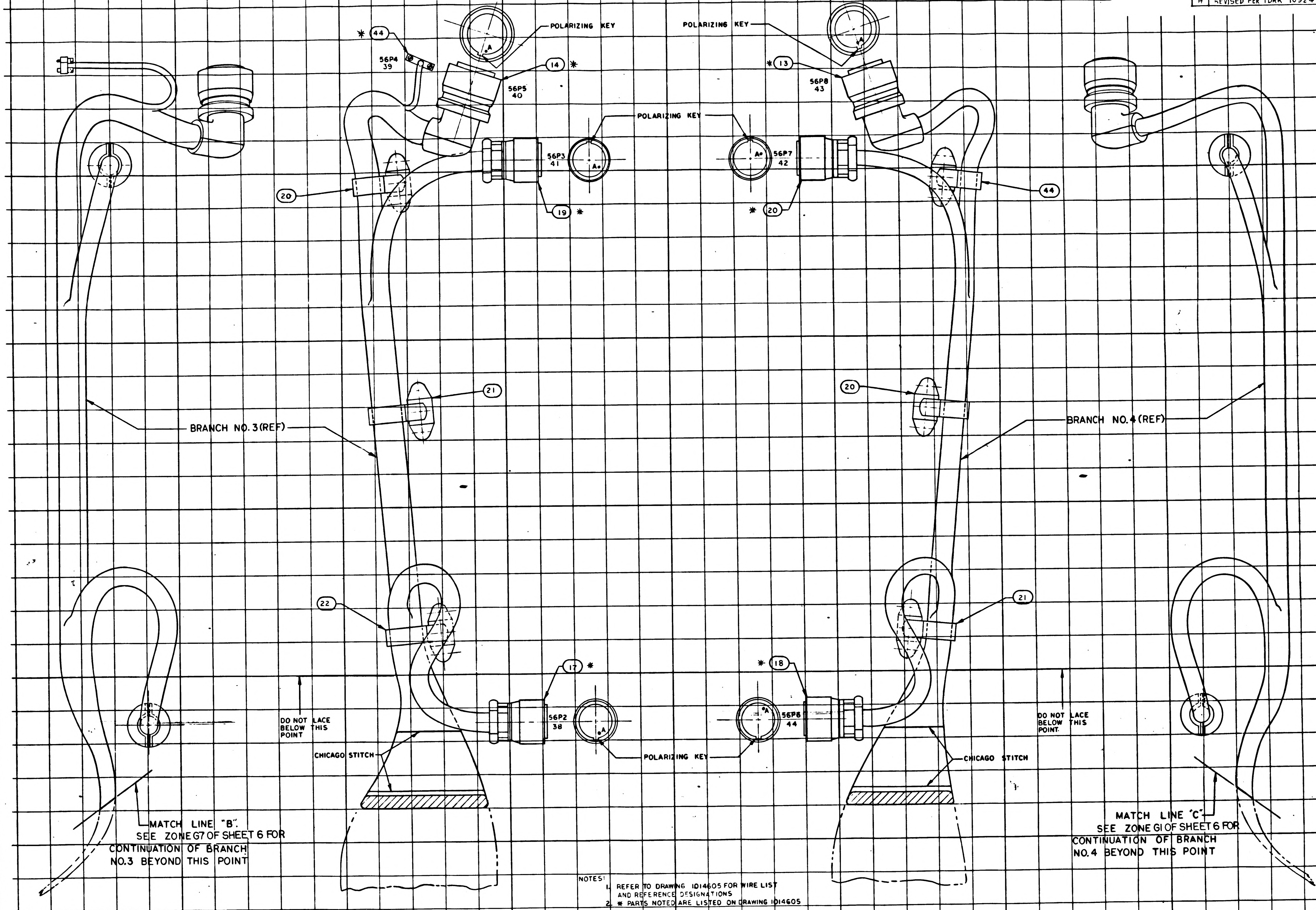
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331		
F	REVISED PER TDRR 06267		
G	REVISD PER TDRR 06777	5/24/64	
H	REVISED PER TDRR 10924	21 JUL 64	JWD CMK



8
7
6
5
4
3
2
1
H
G
F
E
D
C
B
A
✱ 44
56P4
39
POLARIZING KEY
14 ✱
56P5
40
A
POLARIZING KEY
✱ 13
56P8
43
A
POLARIZING KEY
56P3
41
A
56P7
42
A
20
19 ✱
✱ 20
44
21
20
BRANCH NO. 3 (REF)
BRANCH NO. 4 (REF)
22
21
17 ✱
✱ 18
56P2
38
A
56P6
44
A
DO NOT LACE BELOW THIS POINT
DO NOT LACE BELOW THIS POINT
CHICAGO STITCH
CHICAGO STITCH
POLARIZING KEY
MATCH LINE "B".
SEE ZONE G7 OF SHEET 6 FOR CONTINUATION OF BRANCH NO.3 BEYOND THIS POINT
MATCH LINE "C".
SEE ZONE G1 OF SHEET 6 FOR CONTINUATION OF BRANCH NO.4 BEYOND THIS POINT

NOTES:

1. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS
2. ✱ PARTS NOTED ARE LISTED ON DRAWING 1014605

CONFIGURATION IS BASED ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

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DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

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INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG NO. CONTRACT
DRAWN A. Di Lor DATE
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL 3/31/64
MIT APPROVAL

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HOUSTON, TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE
WT
SHEET 4 OF 7

MX-

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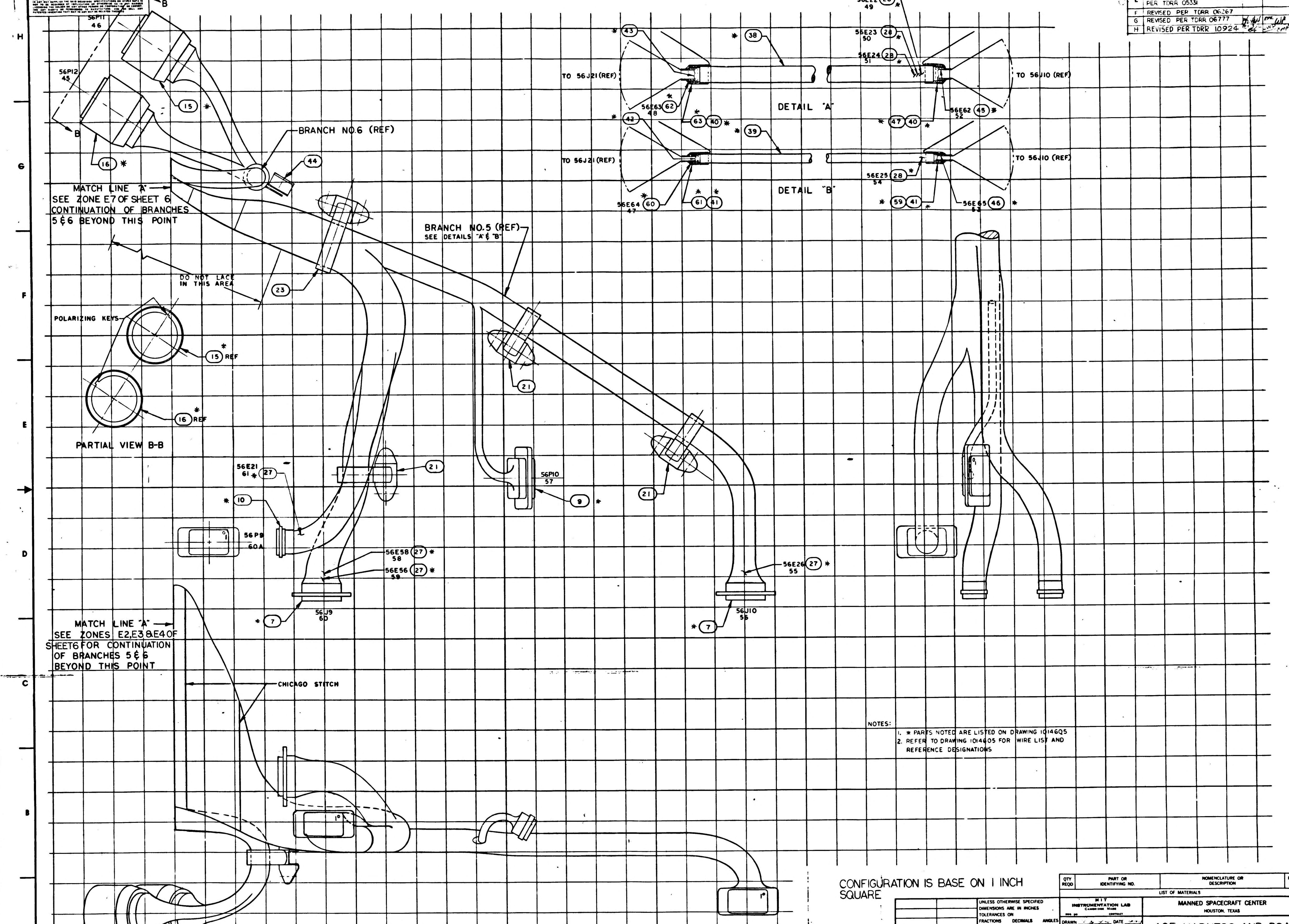
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACE REVD WITH CHANGES PER TDRR 05331		
F	REVISED PER TDRR 06267		
G	REVISED PER TDRR 06777		
H	REVISED PER TDRR 10924	21 ... 64	JWP CMP



56P11
46
56P12
45
B
B
15
16
BRANCH NO.6 (REF)
44
MATCH LINE "A"
SEE ZONE E7 OF SHEET 6
CONTINUATION OF BRANCHES
5 & 6 BEYOND THIS POINT
DO NOT LACE
IN THIS AREA
23
BRANCH NO.5 (REF)
SEE DETAILS "A" & "B"
POLARIZING KEYS
15 REF
16 REF
PARTIAL VIEW B-B
21
21
21
56E21
61
27
10
56P9
60A
56E58
58
27
56E56
59
27
56J9
60
7
56P10
57
9
56E26
55
27
56J10
55
7
43
38
TO 56J21 (REF)
DETAIL "A"
TO 56J10 (REF)
56E22
49
28
56E23
50
28
56E24
51
28
56E63
48
62
63
40
56E62
52
45
47
40
42
39
TO 56J21 (REF)
DETAIL "B"
TO 56J10 (REF)
56E64
47
60
61
41
56E25
54
28
59
41
56E65
53
46
MATCH LINE "A"
SEE ZONES E2, E3 & E4 OF
SHEET 6 FOR CONTINUATION
OF BRANCHES 5 & 6
BEYOND THIS POINT
CHICAGO STITCH
1°
1°

NOTES:
1. * PARTS NOTED ARE LISTED ON DRAWING 1014605
2. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS

CONFIGURATION IS BASE ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

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DRAWN DATE
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL 3/31/64
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

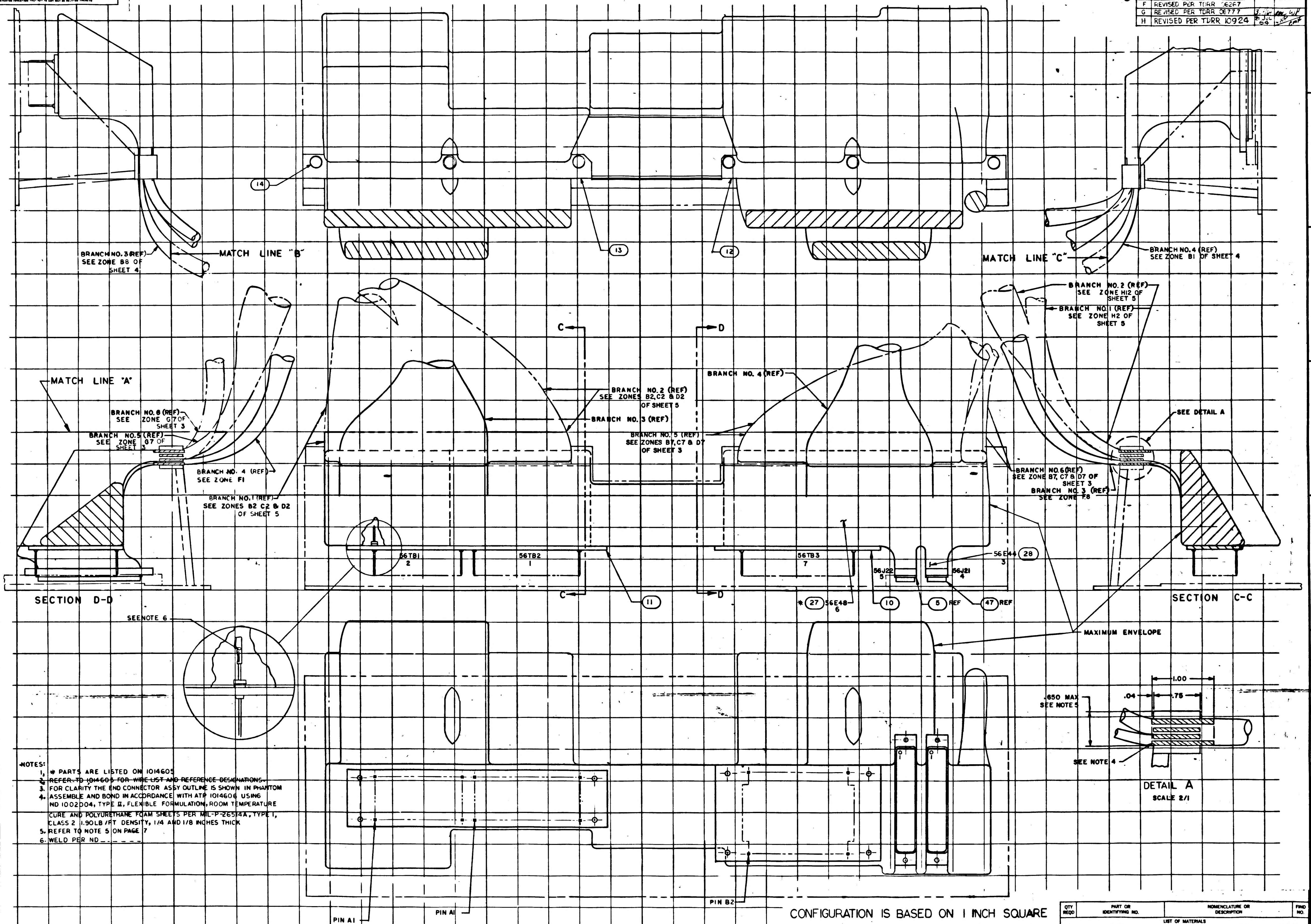
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO. SIZE E NASA DRAWING NO. 1014606
SCALE WT SHEET 3 OF 7

1014606 H

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05336		
F	REVISED PER TDRR 06267		
G	REVISED PER TDRR 06777	3 [illegible]	
H	REVISED PER TDRR 10924	21 JUL 64	


8
7
6
5
4
3
2
H
G
F
E
D
C
B
A
14
13
12
BRANCH NO. 3 (REF) SEE ZONE B8 OF SHEET 4
MATCH LINE "B"
MATCH LINE "C"
BRANCH NO. 4 (REF) SEE ZONE B1 OF SHEET 4
BRANCH NO. 2 (REF) SEE ZONE H12 OF SHEET 5
BRANCH NO. 1 (REF) SEE ZONE H2 OF SHEET 5
C
D
MATCH LINE "A"
BRANCH NO. 6 (REF) SEE ZONE G7 OF SHEET 3
BRANCH NO. 5 (REF) SEE ZONE G7 OF SHEET 3
BRANCH NO. 4 (REF) SEE ZONE F1
BRANCH NO. 1 (REF) SEE ZONES B2 C2 & D2 OF SHEET 5
BRANCH NO. 2 (REF) SEE ZONES B2, C2 & D2 OF SHEET 5
BRANCH NO. 3 (REF)
BRANCH NO. 4 (REF)
BRANCH NO. 5 (REF) SEE ZONES B7, C7 & D7 OF SHEET 3
BRANCH NO. 6 (REF) SEE ZONE B7, C7 & D7 OF SHEET 3
BRANCH NO. 3 (REF) SEE ZONE F8
SEE DETAIL A
56TB1 2
56TB2 1
56TB3 7
56E44 3
28
56J22 5
56J21 4
SECTION D-D
SECTION C-C
11
* 27
56E48 6
10
5 REF
47 REF
SEE NOTE 6
MAXIMUM ENVELOPE
1.00
.04
.75
.650 MAX SEE NOTE 5
SEE NOTE 4
DETAIL A
SCALE 2/1
PIN A1
PIN A1
PIN B2
1014606

NOTES:

1. * PARTS ARE LISTED ON 1014605
2. ~~REFER TO 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS.~~
3. FOR CLARITY THE END CONNECTOR ASSY OUTLINE IS SHOWN IN PHANTOM
4. ASSEMBLE AND BOND IN ACCORDANCE WITH ATP 1014606 USING ND 1002004, TYPE II, FLEXIBLE FORMULATION, ROOM TEMPERATURE CURE AND POLYURETHANE FOAM SHEETS PER MIL-P-26514A, TYPE I, CLASS 2 1.90 LB/FT DENSITY, 1/4 AND 1/8 INCHES THICK
5. REFER TO NOTE 5 ON PAGE 7
6. WELD PER ND ______

CONFIGURATION IS BASED ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

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INSTRUMENTATION LAB
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DWG NO
CONTRACT
DRAWN
DATE
CHECKED
APPROVAL
APPROVAL
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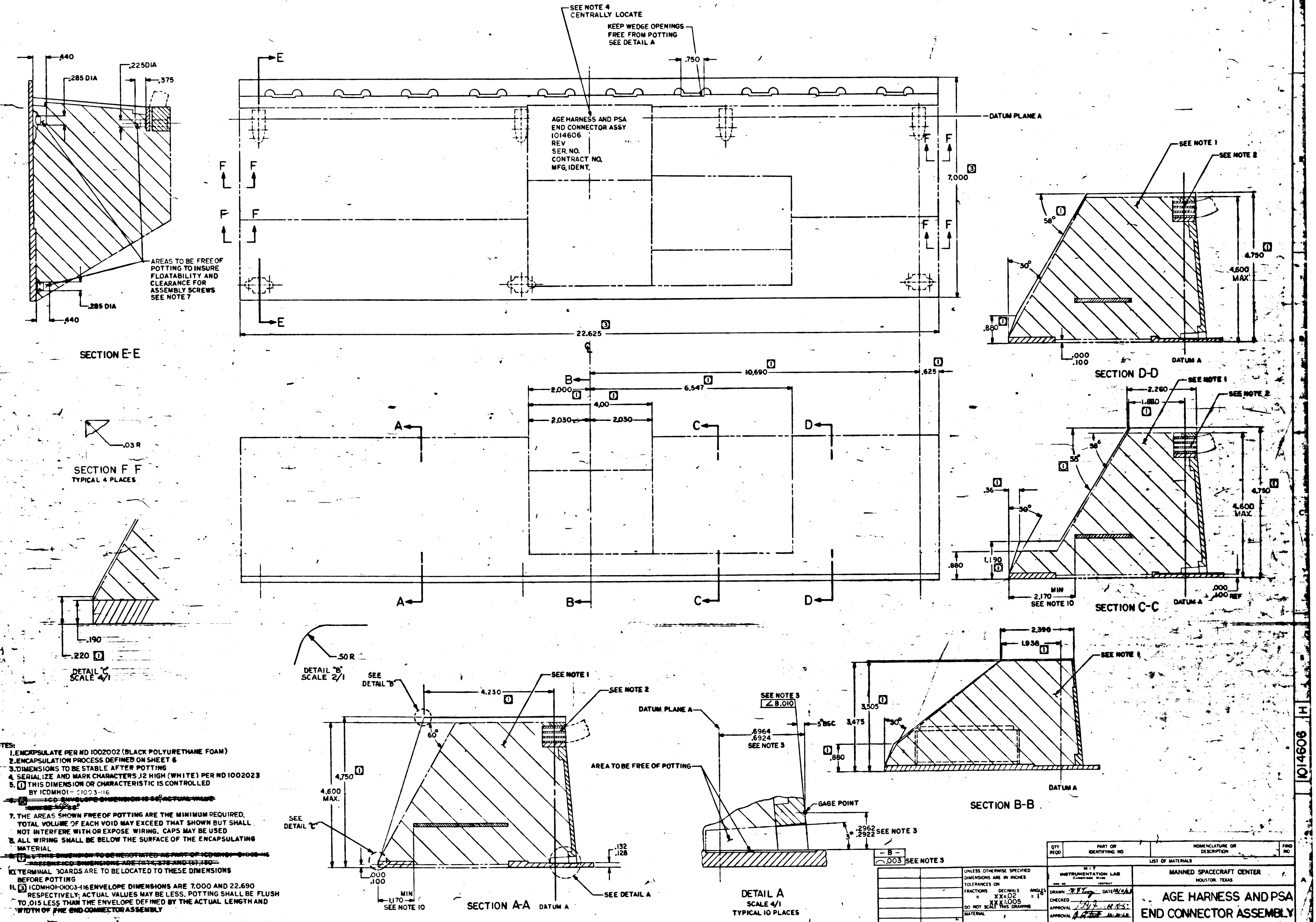
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/1
WT
SHEET 6 OF 7

NOTICE – WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331		
F	REVISED PER TDRR 06267	2	
G	REVISED PER TDRR 06777		
H	REVISED PER TDRR 10924	21 JUL	



SEE NOTE 4
CENTRALLY LOCATE
KEEP WEDGE OPENINGS FREE FROM POTTING SEE DETAIL A
.750
AGE HARNESS AND PSA END CONNECTOR ASSY 1014606 REV SER. NO. CONTRACT NO. MFG. IDENT.
DATUM PLANE A
7.000 3
22.625 3
E
F
.440
.285 DIA
.225 DIA
.375
AREAS TO BE FREE OF POTTING TO INSURE FLOATABILITY AND CLEARANCE FOR ASSEMBLY SCREWS SEE NOTE 7
.285 DIA
.440
SECTION E-E
.03 R
SECTION F F
TYPICAL 4 PLACES
.190
.220 1
DETAIL "C"
SCALE 4/1
.50 R
DETAIL "B"
SCALE 2/1
℄
B
10.690 1
.625 1
6.547 1
2.000 1
4.00 1
2.030
2.030
A
B
C
D
SEE NOTE 1
SEE NOTE 2
58° 1
30°
4.750 1
4.600 MAX
.880 1
.000 .100
DATUM A
SECTION D-D
2.260
1.880 1
55° 1
58°
.36 1
30°
1.190 1
.880
MIN 2.170 SEE NOTE 10
.000 .100 REF
SECTION C-C
2.390
1.938 1
SEE NOTE 1
3.505 1
3.475
30°
.880 1
DATUM A
SECTION B-B
SEE DETAIL "B"
4.230 1
60°
4.750 1
4.600 MAX.
SEE DETAIL "C"
.000 .100
MIN 1.170 SEE NOTE 10
.132 .128
SEE DETAIL A
SECTION A-A
DATUM A
SEE NOTE 3
∠ B .010
DATUM PLANE A
5° BSC
.6964 .6924 SEE NOTE 3
AREA TO BE FREE OF POTTING
GAGE POINT
3°
.2962 .2922 SEE NOTE 3
-B-
⌒ .003 SEE NOTE 3
DETAIL A
SCALE 4/1
TYPICAL 10 PLACES

NOTES:

1. ENCAPSULATE PER ND 1002002 (BLACK POLYURETHANE FOAM)
2. ENCAPSULATION PROCESS DEFINED ON SHEET 6
3. DIMENSIONS TO BE STABLE AFTER POTTING
4. SERIALIZE AND MARK CHARACTERS .12 HIGH (WHITE) PER ND 1002023
5. 1 THIS DIMENSION OR CHARACTERISTIC IS CONTROLLED BY ICDMH01-01003-116
6. ~~2 ICD ENVELOPE DIMENSION IS 58°, ACTUAL VALUE~~ ~~MAY BE~~ 60°/58°
7. THE AREAS SHOWN FREE OF POTTING ARE THE MINIMUM REQUIRED. TOTAL VOLUME OF EACH VOID MAY EXCEED THAT SHOWN BUT SHALL NOT INTERFERE WITH OR EXPOSE WIRING. CAPS MAY BE USED
8. ALL WIRING SHALL BE BELOW THE SURFACE OF THE ENCAPSULATING MATERIAL
9. ~~1 & THIS DIMENSION TO BE NEGOTIATED AS PART OF ICDMH01-01003-116~~ ~~PRESENT ICD DIMENSIONS ARE (4) 4.375 AND (5) .130~~
10. TERMINAL BOARDS ARE TO BE LOCATED TO THESE DIMENSIONS BEFORE POTTING
11. 3 ICDMH01-01003-116 ENVELOPE DIMENSIONS ARE 7.000 AND 22.690 RESPECTIVELY; ACTUAL VALUES MAY BE LESS. POTTING SHALL BE FLUSH TO .015 LESS THAN THE ENVELOPE DEFINED BY THE ACTUAL LENGTH AND WIDTH OF THE END CONNECTOR ASSEMBLY

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS XX±.02 XXX±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

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CAMBRIDGE MASS
DWG NO
CONTRACT
DRAWN W.F.Toug DATE 10/11/63
CHECKED
APPROVAL 12-18-63
APPROVAL 12-20-63
NASA APPROVAL W.J. 12-30-63
MIT APPROVAL 30 Dec 63

MANNED SPACECRAFT CENTER
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AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

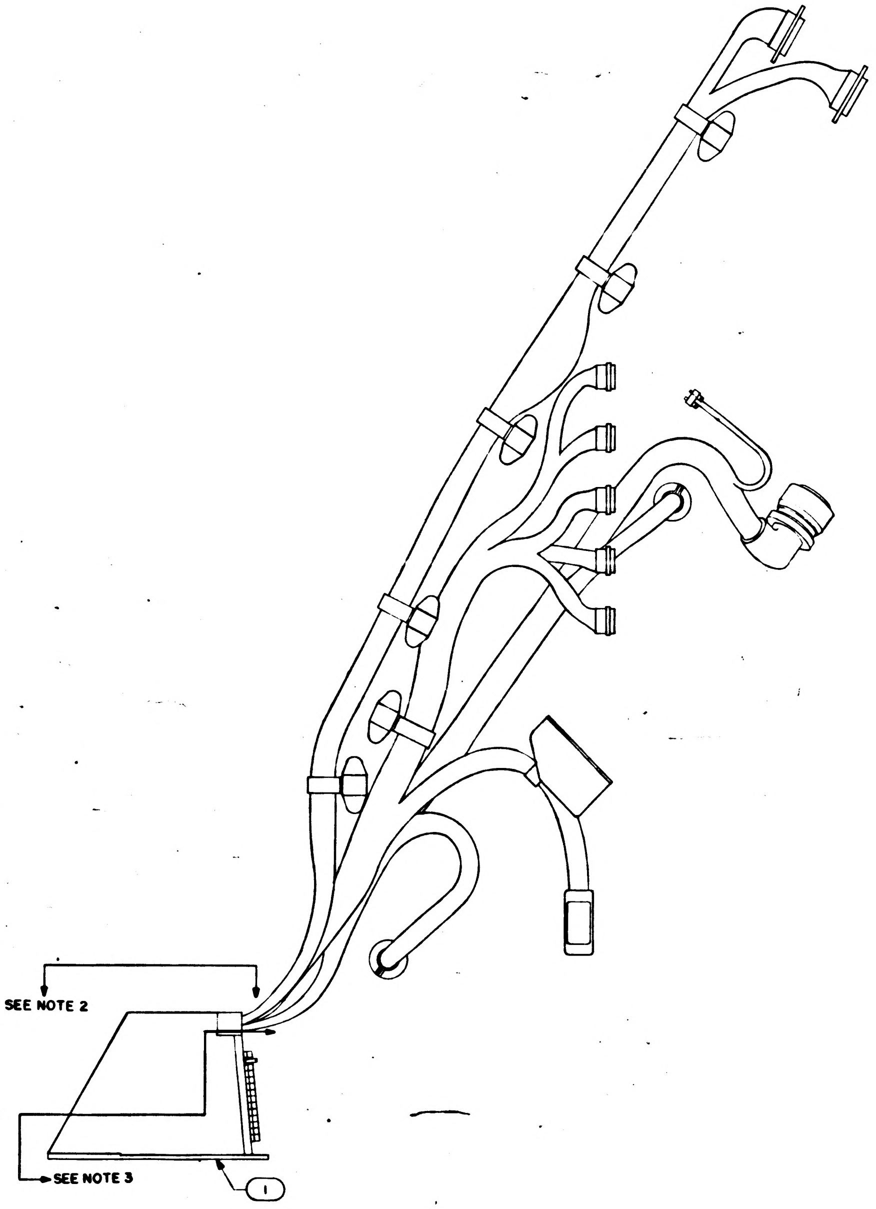
CODE IDENT NO
SIZE E
NASA DRAWING NO 1014606
SCALE
WT
SHEET 7 OF 7

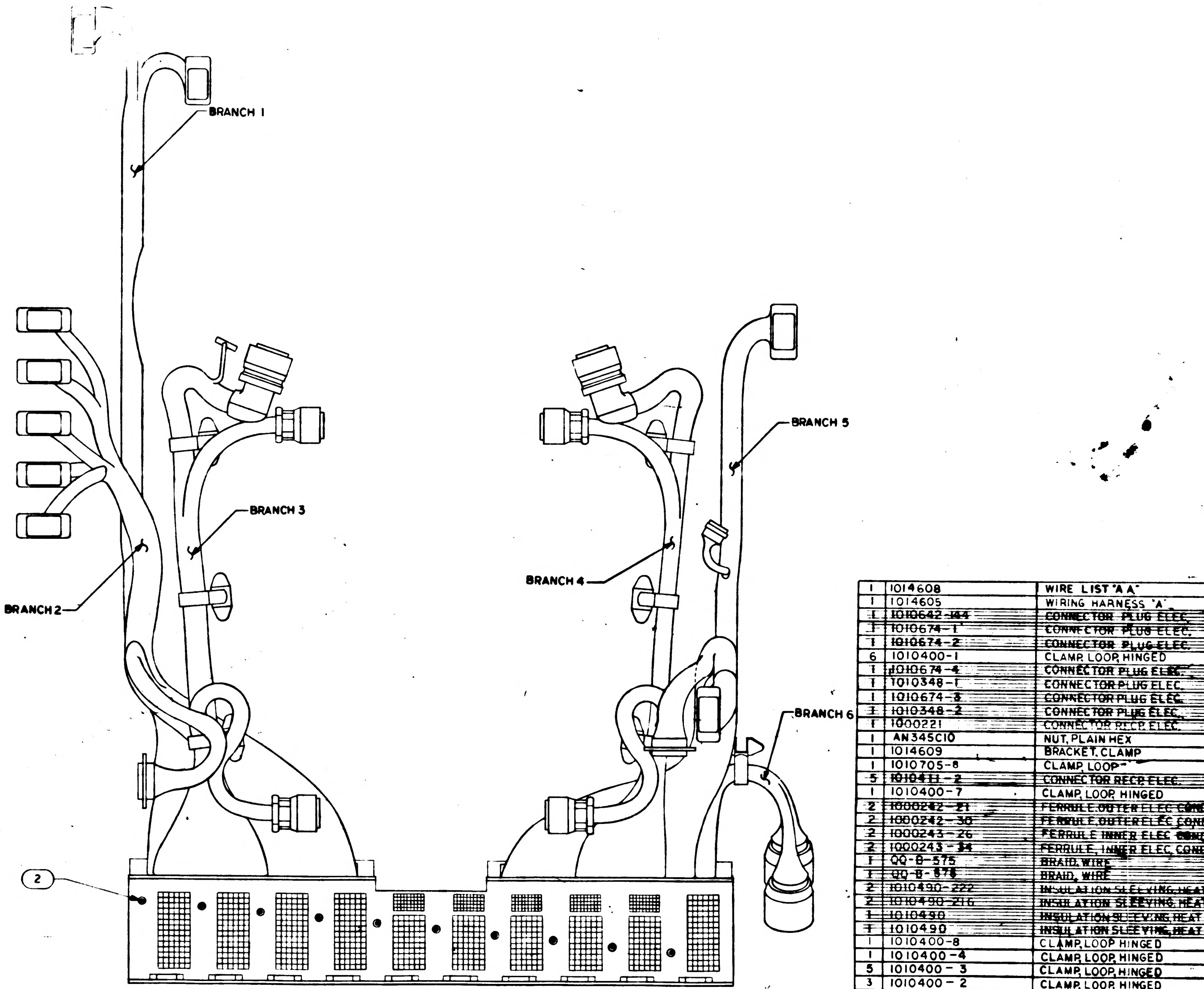
1014606 H

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12 27 63	
F	REVISED PER TDRR 06267		WK
G	REVISED PER TDRR 06777		
H	REVISED PER TDRR 10924	21 JUL 64	JWP
J	REVISED PER TDRR 10973	27 JUL 64	JWP CP





NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WIRING FOR BRANCHES 1-6 AND THE NOTED SECTION IS SHOW ON SHEETS 3, 4, 5, AND 6 OF THIS DRAWING AND DESCRIBED ON DRAWING 1014605.
3. WIRING FOR THE NOTED SECTION IS SHOWN ON SHEET 2 OF THIS DRAWING AND DESCRIBED ON DRAWING 1014608
4. POTTING VIEWS AND DIMENSIONAL DATA ARE SHOWN ON SHEET 7 OF THIS DRAWING
5. MOUNTING TORQUE FOR FIND NO. 2 IS 6.5 IN/LBS
6. INTERCONNECTING WIRING DIAGRAM FOR THE AGE HARNESS AND END CONNECTOR ASSEMBLY IS DRAWING NO. 1014607
7. INTERCONNECTION DIAGRAM-APOLLO GUIDANCE EQUIPMENT C/M, LOWER EQUIPMENT BAY IS DRAWING NO. 1014523
8. ASSEMBLE AND TEST PER ATP 1014606

Ⓙ 11. INSPECT PER PS-1014606

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1014608	WIRE LIST "A A"	49
1	1014605	WIRING HARNESS "A"	48
~~1~~	~~1010642-144~~	~~CONNECTOR PLUG ELEC.~~	47
~~1~~	~~1010674-1~~	~~CONNECTOR PLUG ELEC.~~	46
~~1~~	~~1010674-2~~	~~CONNECTOR PLUG ELEC.~~	45
6	1010400-1	CLAMP, LOOP, HINGED	44
~~1~~	~~1010674-4~~	~~CONNECTOR PLUG ELEC.~~	43
~~1~~	~~1010348-1~~	~~CONNECTOR PLUG ELEC.~~	42
~~1~~	~~1010674-3~~	~~CONNECTOR PLUG ELEC.~~	41
~~1~~	~~1010348-2~~	~~CONNECTOR PLUG ELEC.~~	40
~~1~~	~~1000221~~	~~CONNECTOR RECP. ELEC.~~	39
1	AN345C10	NUT, PLAIN HEX	38
1	1014609	BRACKET, CLAMP	37
1	1010705-8	CLAMP, LOOP	36
~~5~~	~~1010411-2~~	~~CONNECTOR RECP. ELEC.~~	35
1	1010400-7	CLAMP, LOOP, HINGED	34
~~2~~	~~1000242-21~~	~~FERRULE, OUTER ELEC. COND.~~	33
~~2~~	~~1000242-30~~	~~FERRULE, OUTER ELEC. COND.~~	32
~~2~~	~~1000243-26~~	~~FERRULE INNER ELEC. COND.~~	31
~~2~~	~~1000243-34~~	~~FERRULE, INNER ELEC. COND.~~	30
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	29
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	28
~~2~~	~~1010490-222~~	~~INSULATION SLEEVING, HEAT SHRINK~~	27
~~2~~	~~1010490-216~~	~~INSULATION SLEEVING, HEAT SHRINK~~	26
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	25
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	24
1	1010400-8	CLAMP, LOOP HINGED	23
1	1010400-4	CLAMP, LOOP, HINGED	22
5	1010400-3	CLAMP, LOOP, HINGED	21
3	1010400-2	CLAMP, LOOP, HINGED	20
~~1~~	~~1010671-2~~	~~CONNECTOR PLUG ELEC~~	19
~~1~~	~~1010671-1~~	~~CONNECTOR PLUG ELEC~~	18
~~2~~	~~1010607-3~~	~~CONNECTOR RECP ELEC~~	17
~~1~~	~~1010607-1~~	~~CONNECTOR RECP. ELEC~~	16
~~1~~	~~1010411-1~~	~~CONNECTOR RECP. ELEC.~~	15
6	1006783-47	SCREW BUTTON HEAD	14
1	1008164	CABLE CLAMP LEFT	13
1	1008165	CABLE CLAMP RIGHT	12
1	1008148	CONN PLATE ASSY (264 PINS)	11
1	1008149	CONN PLATE ASSY (293 PINS)	10
3	MS35649-44	NUT	9
1	1010618-13	SCREW BUTTON HEAD	8
3	1010618-14	SCREW BUTTON HEAD	7
4	MS35335-57	WASHER, LOCK, FLAT, EXTERNAL TOOTH	6
~~1~~	~~1010642-244~~	~~CONNECTOR PLUG ELEC~~	5
8	MS16995-17	SCREW HEX SOCKET HD	4
4	MS16995-10	SCREW, HEX SOCKET HD	3
10	1008163	PIN, LOCATING	2
1	1007161	END CONNECTOR ASSEMBLY PSA	1

LIST OF MATERIALS

NEXT ASSY	1015000
USED ON	
	APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
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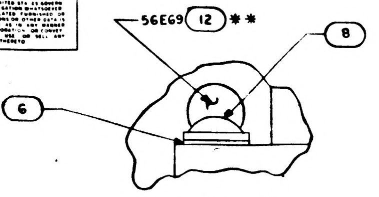
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN J. Falzone DATE 5 DEC 63
CHECKED
APPROVAL 12-16-63
APPROVAL 12-20-63
NASA APPROVAL W. J. Rhine 12-30-63
MIT APPROVAL 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

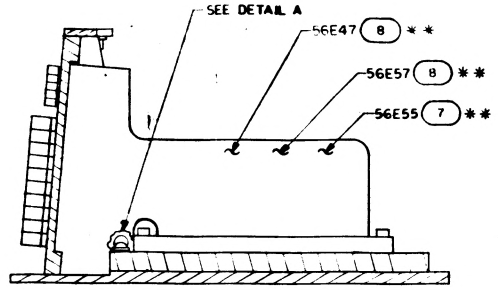
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/2
WT
SHEET 1 OF 7

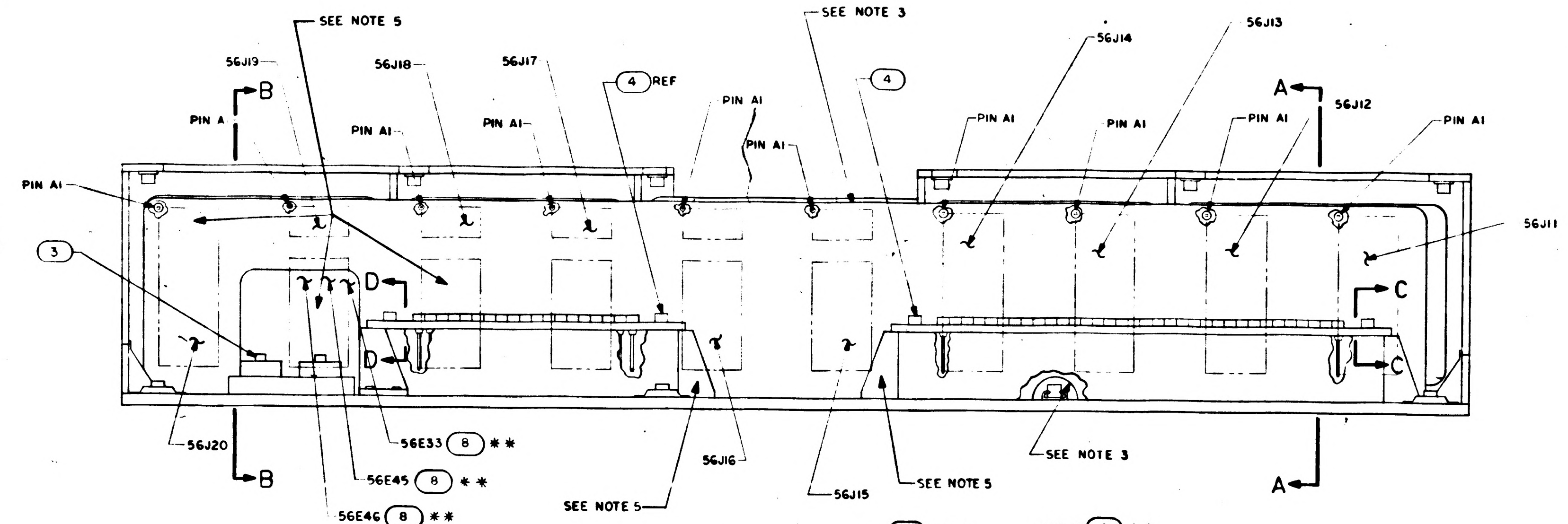
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12-27-63	
F	REVISED PER TDRR 06267	2/11/64	
G	REVISED PER TDRR 06777		
H	REVISED PER TDRR 10924	21 JUL 64	JWP
J	REVISED PER TDRR 10973	27 JUL 64	JNP

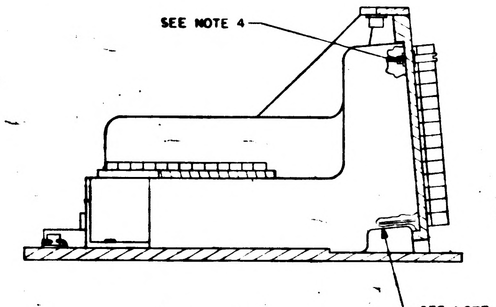


DETAIL A
SCALE 4/1

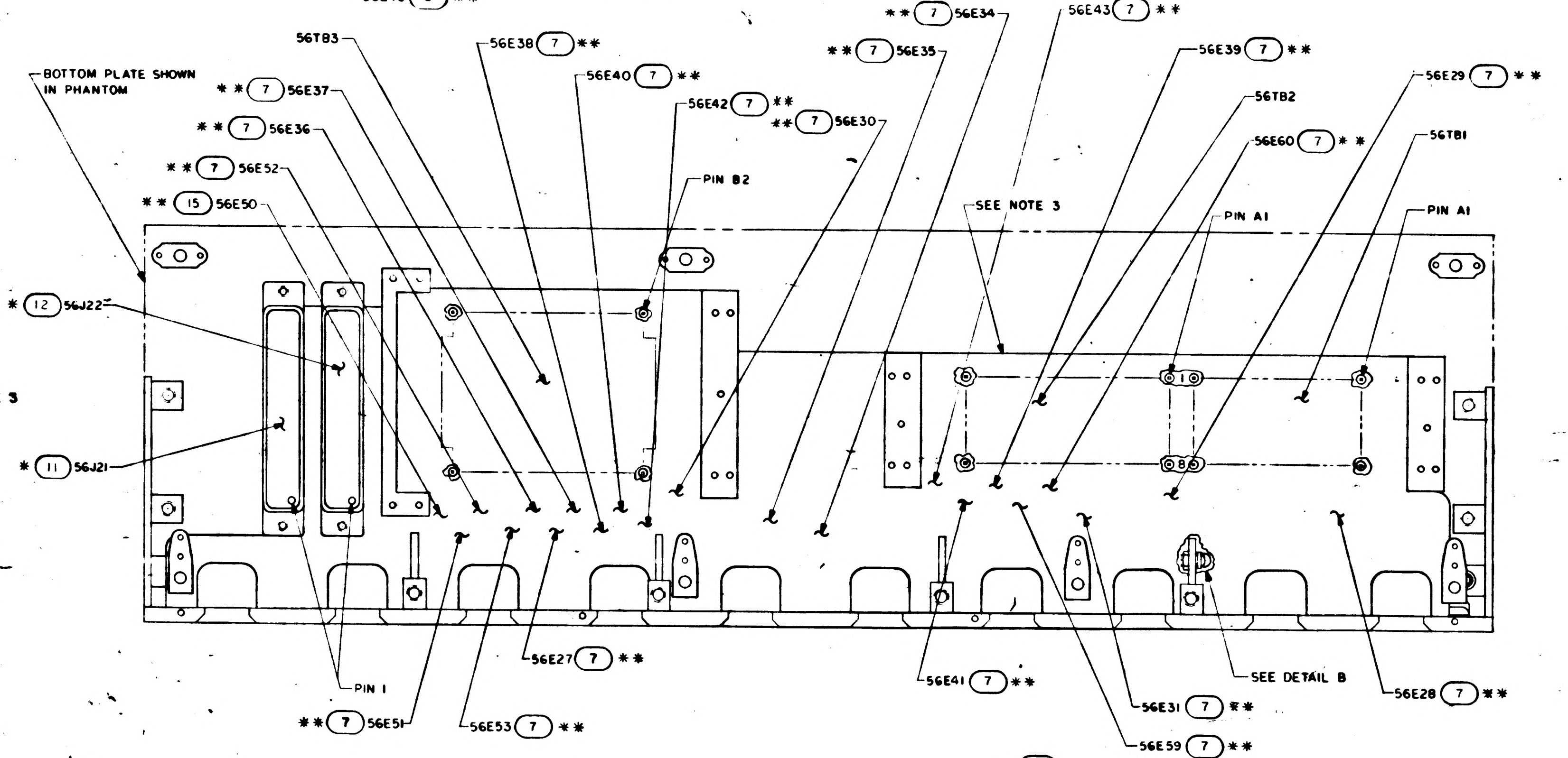

SEE DETAIL A
56E47 (8) **
56E57 (8) **
56E55 (7) **

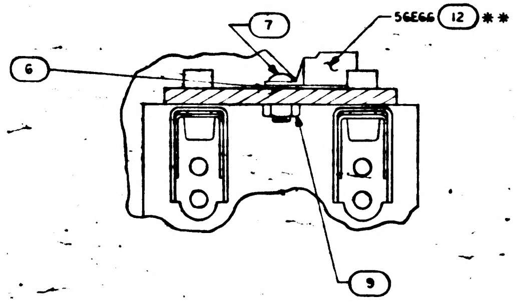
SECTION B-B


SEE NOTE 5
56J19
56J18
56J17
(4) REF
PIN A1
(4)
SEE NOTE 3
56J14
56J13
A
56J12
PIN A
B
PIN A1
PIN A1
PIN A1
PIN A1
PIN A1
PIN A1
PIN A1
PIN A1
56J11
(3)
D
D
C
C
56J20
B
56E33 (8) **
56E45 (8) **
56E46 (8) **
SEE NOTE 5
56J16
56J15
SEE NOTE 5
SEE NOTE 3
A


SEE NOTE 4
SEE NOTE 3

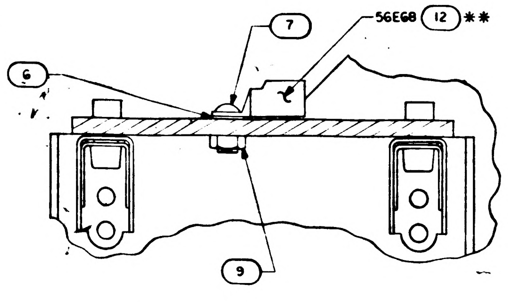
SECTION A-A


** (7) 56E34
56E43 (7) **
** (7) 56E35
56TB3
56E38 (7) **
56E39 (7) **
56E29 (7) **
BOTTOM PLATE SHOWN IN PHANTOM
** (7) 56E37
56E40 (7) **
56E42 (7) **
** (7) 56E30
56TB2
** (7) 56E36
56E60 (7) **
56TB1
** (7) 56E52
PIN B2
** (15) 56E50
SEE NOTE 3
PIN A1
PIN A1
* (12) 56J22
* (11) 56J21
PIN 1
56E27 (7) **
56E41 (7) **
SEE DETAIL B
56E28 (7) **
** (7) 56E51
56E53 (7) **
56E31 (7) **
56E59 (7) **

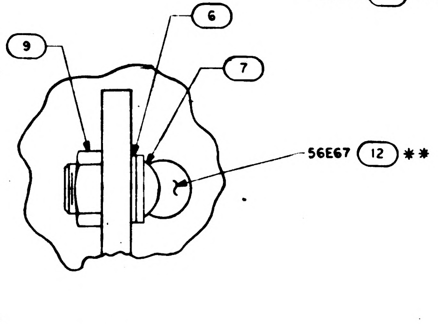

(7)
56E66 (12) **
(6)
(9)

PARTIAL SECTION C-C
SCALE 2/1

NOTES
1. ** PARTS ARE LISTED ON DWG 1014608
2. REFER TO DWG 1014608 FOR REFERENCE DESIGNATIONS AND WIRE LIST
3. OUTLINE SHOWS MAXIMUM ENVELOPE FOR WIRE LIST AA, 1014608
4. BEFORE WIRING, COVER THREADS AND OTHER SHARP EDGES WITH SILICON RUBBER PER ND1002009, METHOD B TABS ON THE INSERTS FOR FIND NO 2 SHALL BE CLIPPED OFF
5. ● PARTS NOTED ARE LISTED ON DRAWING 1014605
6. PROTECT WIRING FROM SHARP EDGES USING INSULATION MATERIAL MIL-I 631D-TYPE G, SUBFORM T_S CLASS I, 0.005 THICK


(7)
56E68 (12) **
(6)
(9)

PARTIAL SECTION D-D
SCALE 2/1


(9)
(6)
(7)
56E67 (12) **

DETAIL B
SCALE 4/1

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

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CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN J. Falzone DATE 9 DEC 63
CHECKED
APPROVAL 12-26-63
APPROVAL 12-30-63
NASA APPROVAL 12-30-63
MIT APPROVAL 30 Dec 63

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HOUSTON, TEXAS

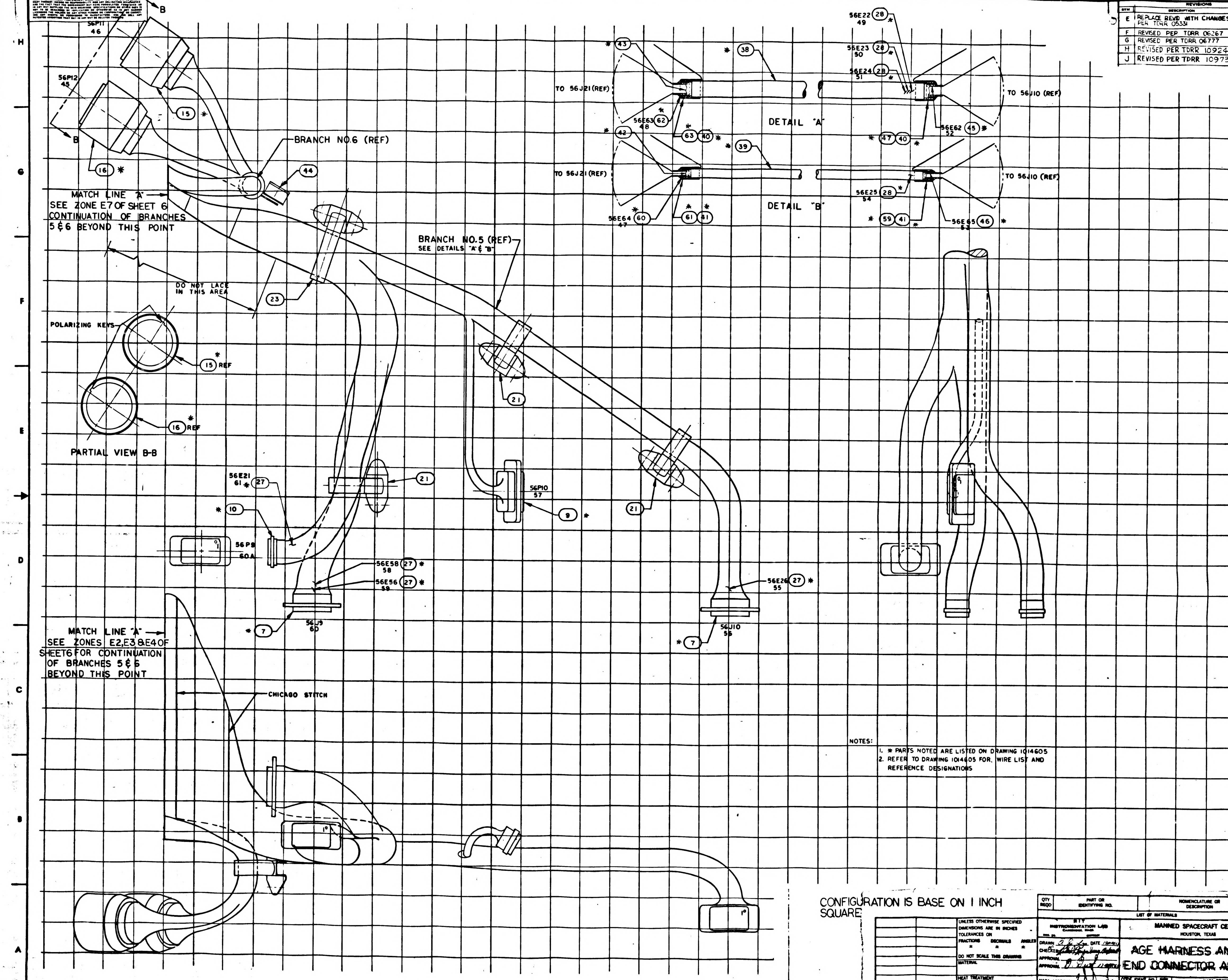
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO 1014606
SCALE 1/1
WT
SHEET 2 OF 7

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACE REVD WITH CHANGES PER TDRR 05331		
F	REVISED PEP TDRR 06267		
G	REVISED PER TDRR 06777		
H	REVISED PER TDRR 10924	64	JWF
J	REVISED PER TDRR 10973	27 JUL 64	JWF



8
7
6
5
4
3
2
H
G
F
E
D
C
B
A
B
56P11
46
56P12
45
B
15 *
16 *
BRANCH NO.6 (REF)
44
MATCH LINE "A"
SEE ZONE E7 OF SHEET 6
CONTINUATION OF BRANCHES
5 & 6 BEYOND THIS POINT
DO NOT LACE IN THIS AREA
23
BRANCH NO.5 (REF)
SEE DETAILS "A" & "B"
POLARIZING KEYS
15 * REF
16 * REF
PARTIAL VIEW B-B
21
21
21
21
56E21
61 * 27
* 10
56P9
60A
56P10
57
9 *
56E58 27 *
58
56E56 27 *
59
56J9
60
* 7
56E26 27 *
55
56J10
56
* 7
MATCH LINE "A"
SEE ZONES E2,E3 & E4 OF
SHEET 6 FOR CONTINUATION
OF BRANCHES 5 & 6
BEYOND THIS POINT
CHICAGO STITCH
1°
1°
TO 56J21 (REF)
* 43
* 38
56E63 62
48
* 63 40 *
* 42
* 39
DETAIL "A"
TO 56J10 (REF)
56E22 28
49
56E23 28
50
56E24 28
51
56E62 45 *
52
* 47 40
TO 56J21 (REF)
56E64 60
47
* 61 * 41
DETAIL "B"
TO 56J10 (REF)
56E25 28
54
* 59 41 *
56E65 46 *
53

NOTES:
1. * PARTS NOTED ARE LISTED ON DRAWING 1014605
2. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS

CONFIGURATION IS BASE ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
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DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.

DRAWN A. G. Lee DATE
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/1
WT
SHEET 3 OF 7

1014606 J

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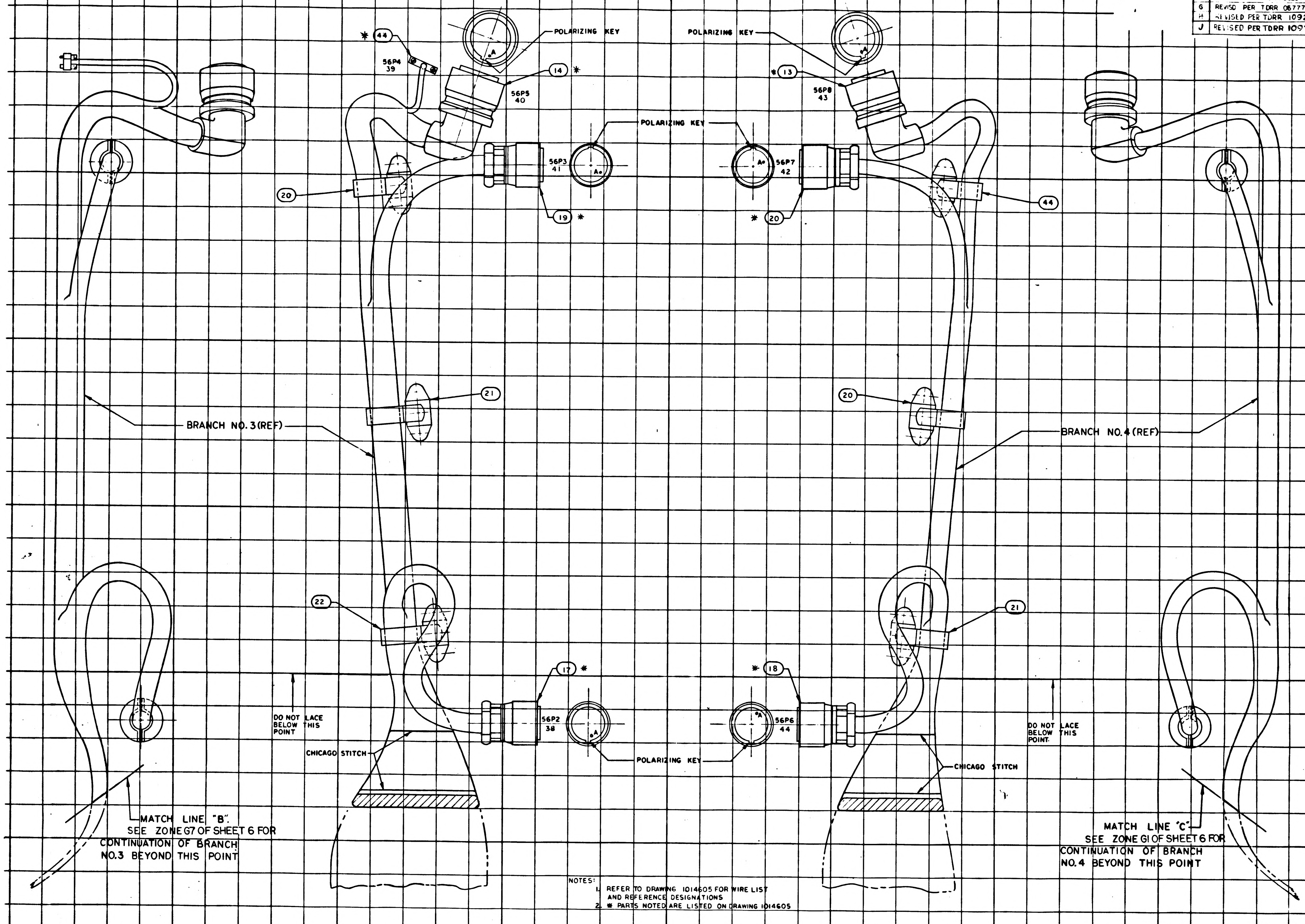
E	REPLACES REV D WITH CHANGES PER TDRR 05331		
F	REVISED PER TDRR 06267		
G	REVISD PER TDRR 06777	3/24/64	
H	REVISED PER TDRR 10924		JWP
J	REVISED PER TDRR 10973	27 JUL 64	JWP



8
7
6
5
4
3
2
1
H
G
F
E
D
C
B
A
POLARIZING KEY
POLARIZING KEY
44
56P4
39
14
56P5
40
13
56P8
43
POLARIZING KEY
56P3
41
A
A
56P7
42
20
19
20
44
21
20
BRANCH NO. 3 (REF)
BRANCH NO. 4 (REF)
22
21
17
18
DO NOT LACE BELOW THIS POINT
56P2
38
56P6
44
DO NOT LACE BELOW THIS POINT
CHICAGO STITCH
POLARIZING KEY
CHICAGO STITCH
MATCH LINE "B". SEE ZONE G7 OF SHEET 6 FOR CONTINUATION OF BRANCH NO.3 BEYOND THIS POINT
MATCH LINE "C". SEE ZONE G1 OF SHEET 6 FOR CONTINUATION OF BRANCH NO.4 BEYOND THIS POINT

NOTES:
1. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS
2. * PARTS NOTED ARE LISTED ON DRAWING 1014605

CONFIGURATION IS BASED ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

M I T
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG. NO.
CONTRACT
DRAWN A. G. Lee DATE
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL 3/31/64
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

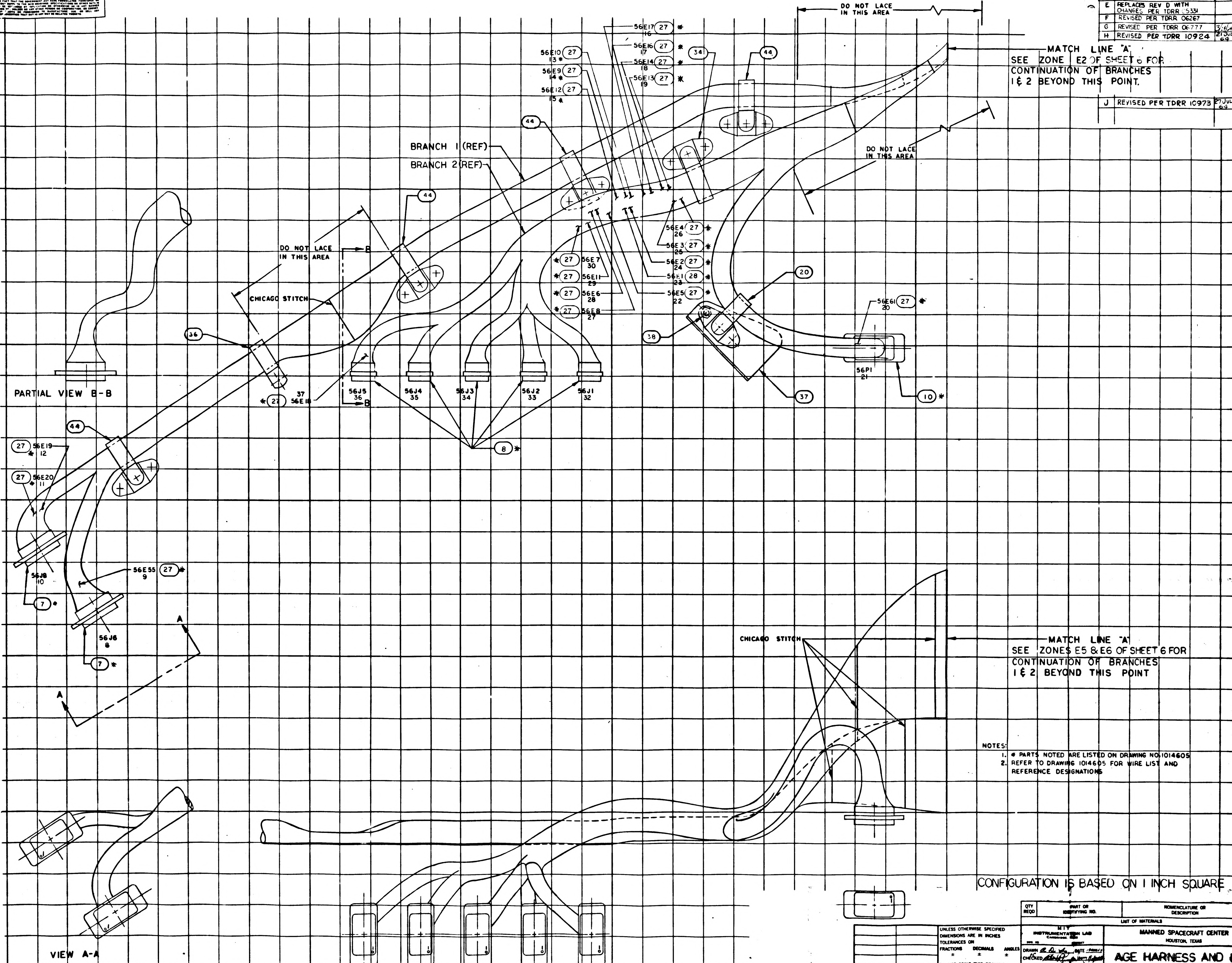
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/1
WT
SHEET 4 OF 7

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331		
F	REVISED PER TDRR 06267		
G	REVISED PER TDRR 06777	3/24/64	[illegible]
H	REVISED PER TDRR 10924	21 JUL 64	JWP
J	REVISED PER TDRR 10973	27 JUL 64	JWP



8
7
6
5
4
3
2
1
H
G
F
E
D
C
B
A
DO NOT LACE IN THIS AREA
MATCH LINE "A"
SEE ZONE E2 OF SHEET 6 FOR CONTINUATION OF BRANCHES 1 & 2 BEYOND THIS POINT.
56E17 27 * 16
56E16 27 * 17
56E14 27 * 18
56E13 27 * 19
56E10 27 13 *
56E9 27 14 *
56E12 27 15 *
34
44
BRANCH 1 (REF)
BRANCH 2 (REF)
DO NOT LACE IN THIS AREA
56E4 27 * 26
56E3 27 * 25
56E2 27 * 24
56E1 28 * 23
56E5 27 * 22
* 27 56E7 30
* 27 56E11 29
* 27 56E6 28
* 27 56E8 27
20
56E61 27 * 20
38
37
56P1 21
10 *
DO NOT LACE IN THIS AREA
B
CHICAGO STITCH
36
* 27 37 56E18
56J5 36
56J4 35
56J3 34
56J2 33
56J1 32
8 *
PARTIAL VIEW B-B
27 56E19 * 12
27 56E20 * 11
56J8 10
7 *
56E55 9 27 *
56J6 8
A
CHICAGO STITCH
MATCH LINE "A"
SEE ZONES E5 & E6 OF SHEET 6 FOR CONTINUATION OF BRANCHES 1 & 2 BEYOND THIS POINT
VIEW A-A

NOTES:
1. # PARTS NOTED ARE LISTED ON DRAWING NO. 1014605
2. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS

CONFIGURATION IS BASED ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

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INSTRUMENTATION LAB
CAMBRIDGE
DRAWN [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL
APPROVAL D. [illegible]
NASA APPROVAL [illegible] 3/17/64
MIT APPROVAL [illegible] 21 Jul. 64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/1
WT
SHEET 5 OF 7

1014606

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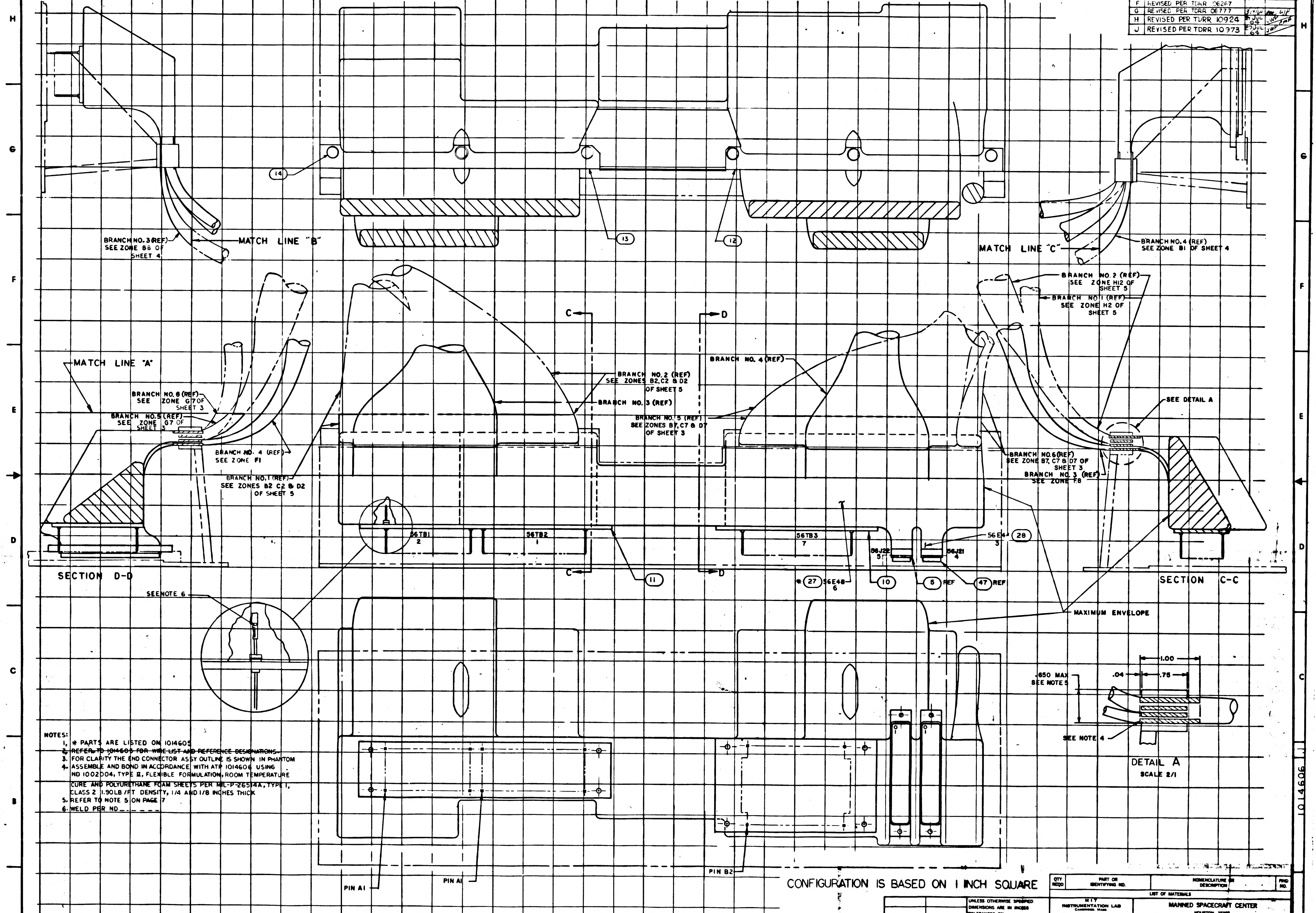
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05334		
F	REVISED PER TDRR 06267		
G	REVISED PER TDRR 06777	3/4/64	WP
H	REVISED PER TDRR 10924	21 JUL 64	JWP
J	REVISED PER TDRR 10973	27 JUL 64	JWP



MATCH LINE "A"
MATCH LINE "B"
MATCH LINE "C"
BRANCH NO. 3 (REF) SEE ZONE B6 OF SHEET 4
BRANCH NO. 4 (REF) SEE ZONE B1 OF SHEET 4
BRANCH NO. 2 (REF) SEE ZONE H12 OF SHEET 5
BRANCH NO. 1 (REF) SEE ZONE H2 OF SHEET 5
BRANCH NO. 6 (REF) SEE ZONE G7 OF SHEET 3
BRANCH NO. 5 (REF) SEE ZONE G7 OF SHEET 3
BRANCH NO. 4 (REF) SEE ZONE F1
BRANCH NO. 1 (REF) SEE ZONES B2, C2 & D2 OF SHEET 5
BRANCH NO. 2 (REF) SEE ZONES B2, C2 & D2 OF SHEET 5
BRANCH NO. 3 (REF)
BRANCH NO. 4 (REF)
BRANCH NO. 5 (REF) SEE ZONES B7, C7 & D7 OF SHEET 3
BRANCH NO. 6 (REF) SEE ZONE B7, C7 & D7 OF SHEET 3
BRANCH NO. 3 (REF) SEE ZONE F8
SEE DETAIL A
14
13
12
11
10
5 REF
47 REF
28
* 27
56TB1 2
56TB2 1
56TB3 7
56J22 5
56J21 4
56E4 3
56E48 6
C
D
SECTION D-D
SECTION C-C
SEE NOTE 6
MAXIMUM ENVELOPE
1.00
.75
.04
.650 MAX SEE NOTE 5
SEE NOTE 4
DETAIL A
SCALE 2/1
PIN A1
PIN A1
PIN B2
1014606

NOTES:
1. * PARTS ARE LISTED ON 1014605
~~2. REFER TO 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS.~~
3. FOR CLARITY THE END CONNECTOR ASSY OUTLINE IS SHOWN IN PHANTOM
4. ASSEMBLE AND BOND IN ACCORDANCE WITH ATP 1014606 USING ND 1002004, TYPE II, FLEXIBLE FORMULATION, ROOM TEMPERATURE CURE AND POLYURETHANE FOAM SHEETS PER MIL-P-26514A, TYPE I, CLASS 2 1.90LB/FT DENSITY, 1/4 AND 1/8 INCHES THICK
5. REFER TO NOTE 5 ON PAGE 7
6. WELD PER ND ______

CONFIGURATION IS BASED ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

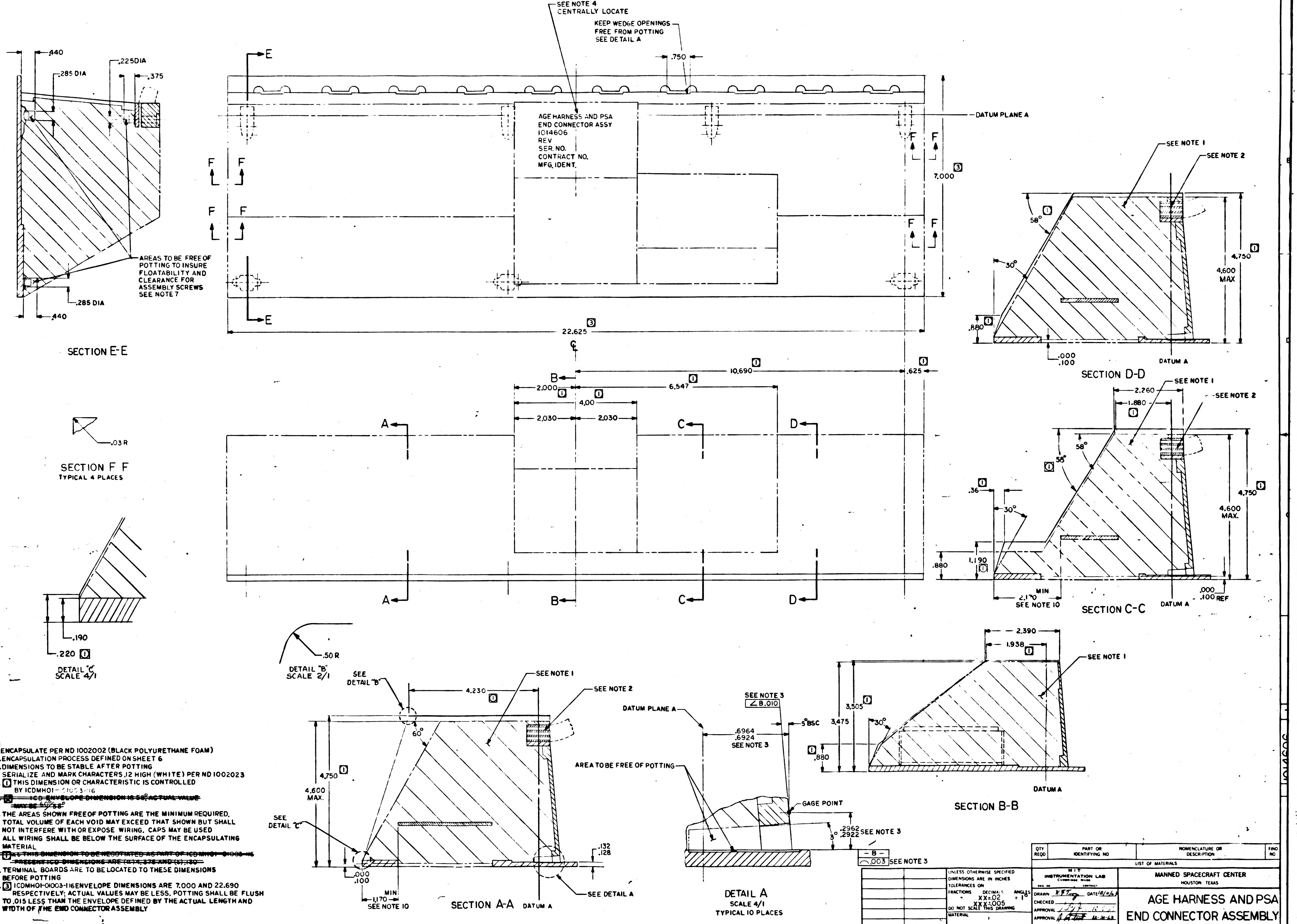
MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN [illegible] DATE [illegible]
CHECKED [illegible]
APPROVAL
APPROVAL [illegible]
NASA APPROVAL [illegible] 3/31/64
MIT APPROVAL [illegible] 3/4/64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE 1/1
WT
SHEET 6 OF 7

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR D5331	12-27-63	
F	REVISED PER TDRR 06267	2/11/64	
G	REVISED PER TDRR 06777	3/24/64	
H	REVISED PER TDRR 10924	21 JUL 64	JWP
J	REVISED PER TDRR 10973	27 JUL 64	JWP



SEE NOTE 4
CENTRALLY LOCATE
KEEP WEDGE OPENINGS FREE FROM POTTING SEE DETAIL A
.750
AGE HARNESS AND PSA END CONNECTOR ASSY 1014606 REV SER. NO. CONTRACT NO. MFG. IDENT.
DATUM PLANE A
7.000
22.625
.440
.285 DIA
.225DIA
.375
AREAS TO BE FREE OF POTTING TO INSURE FLOATABILITY AND CLEARANCE FOR ASSEMBLY SCREWS SEE NOTE 7
SECTION E-E
.03R
SECTION F F
TYPICAL 4 PLACES
.190
.220
DETAIL "C"
SCALE 4/1
.50R
DETAIL "B"
SCALE 2/1
10.690
.625
2.000
6.547
4.00
2.030
SEE NOTE 1
SEE NOTE 2
58°
30°
4.750
4.600 MAX
.880
.000 .100
DATUM A
SECTION D-D
2.260
1.880
.36
1.190
2.170 MIN
SEE NOTE 10
.000 .100 REF
SECTION C-C
2.390
1.938
3.505
3.475
SECTION B-B
SEE DETAIL "B"
4.230
60°
SEE DETAIL "C"
.132 .128
1.170 MIN
SEE DETAIL A
SECTION A-A
SEE NOTE 3
∠8.010
5°BSC
.6964 .6924
AREA TO BE FREE OF POTTING
GAGE POINT
3° .2962 .2922
-B-
.003
DETAIL A
SCALE 4/1
TYPICAL 10 PLACES

NOTES:

1. ENCAPSULATE PER ND 1002002 (BLACK POLYURETHANE FOAM)
2. ENCAPSULATION PROCESS DEFINED ON SHEET 6
3. DIMENSIONS TO BE STABLE AFTER POTTING
4. SERIALIZE AND MARK CHARACTERS .12 HIGH (WHITE) PER ND 1002023
5. $\boxed{1}$ THIS DIMENSION OR CHARACTERISTIC IS CONTROLLED BY ICDMH01-01003-116
6. ~~$\boxed{2}$ ICD ENVELOPE DIMENSION IS 58°, ACTUAL VALUE MAY BE 60°/58°~~
7. THE AREAS SHOWN FREE OF POTTING ARE THE MINIMUM REQUIRED. TOTAL VOLUME OF EACH VOID MAY EXCEED THAT SHOWN BUT SHALL NOT INTERFERE WITH OR EXPOSE WIRING. CAPS MAY BE USED
8. ALL WIRING SHALL BE BELOW THE SURFACE OF THE ENCAPSULATING MATERIAL
9. ~~$\boxed{1}$ a&b THIS DIMENSION TO BE NEGOTIATED AS PART OF ICDMH01-01003-116 PRESENT ICD DIMENSIONS ARE (a) 4.375 AND (b) .130~~
10. TERMINAL BOARDS ARE TO BE LOCATED TO THESE DIMENSIONS BEFORE POTTING
11. $\boxed{3}$ ICDMH01-01003-116 ENVELOPE DIMENSIONS ARE 7.000 AND 22.690 RESPECTIVELY; ACTUAL VALUES MAY BE LESS. POTTING SHALL BE FLUSH TO .015 LESS THAN THE ENVELOPE DEFINED BY THE ACTUAL LENGTH AND WIDTH OF THE END CONNECTOR ASSEMBLY

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS XX±.02 XXX±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

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APPROVAL
APPROVAL 12-30-63
NASA APPROVAL W. J. 12-30-63
MIT APPROVAL 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

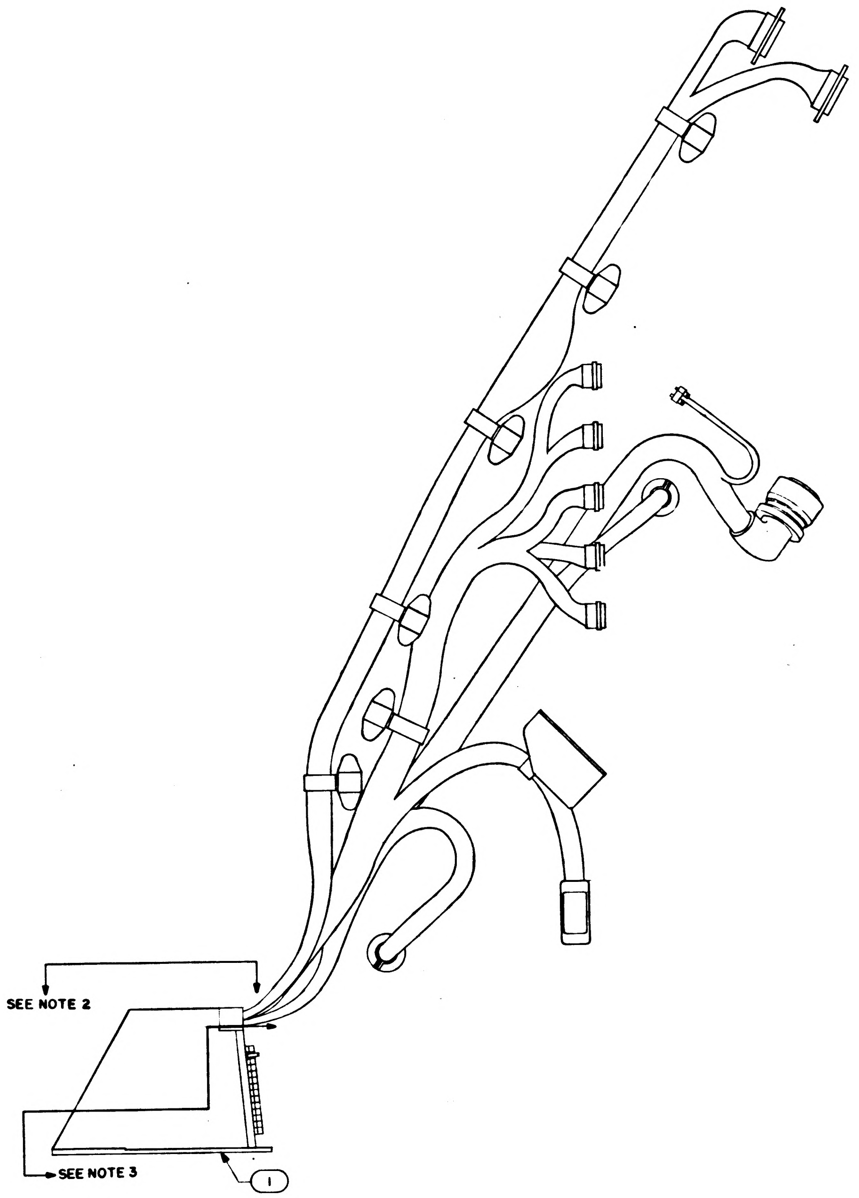
AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

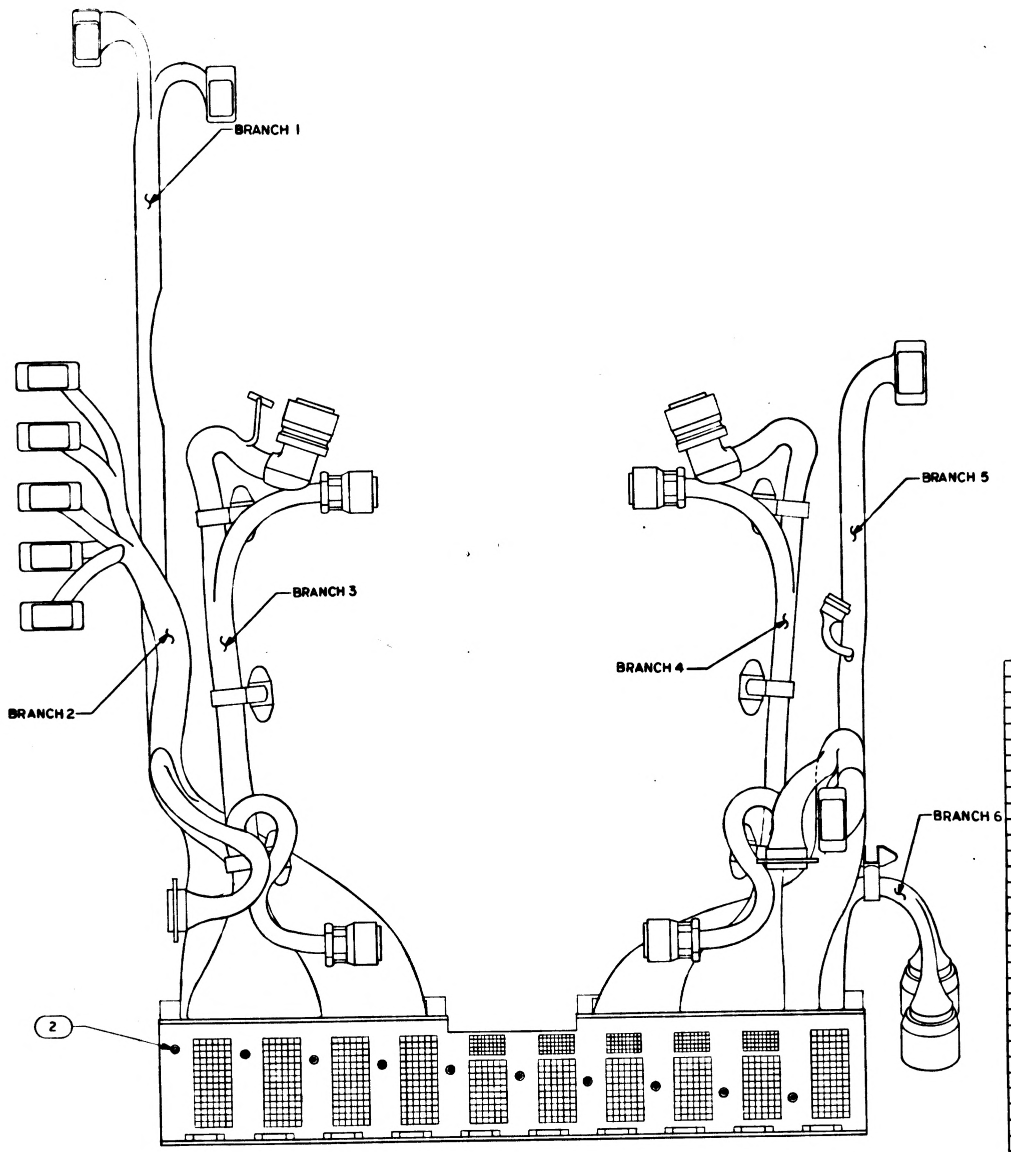
CODE IDENT NO
SIZE E
NASA DRAWING NO 1014606
SCALE
WT
SHEET 7 OF 7

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12-27-63	
F	REVISED PER TDRR 06267	FEB	
G	REVISED PER TDRR 067 7	3/24/64	
H	REVISED PER TDRR 10424	21 JUL 64	JWP
J	REVISED PER TDRR 10473	27 JUL 64	JWP
K	REPLACED WITH CHANGE BY REV "L" PER TDRR 12749	5 AUG 64	JWP





REPLACED WITH CHANGE BY REV "L"

NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327
2. WIRING FOR BRANCHES 1-6 AND THE NOTED SECTION IS SHOW ON SHEETS 3, 4, 5, AND 6 OF THIS DRAWING AND DESCRIBED ON DRAWING 1014605.
3. WIRING FOR THE NOTED SECTION IS SHOWN ON SHEET 2 OF THIS DRAWING AND DESCRIBED ON DRAWING 1014608
4. POTTING VIEWS AND DIMENSIONAL DATA ARE SHOWN ON SHEET 7 OF THIS DRAWING
5. MOUNTING TORQUE FOR FIND NO. 2 IS 6.5 IN/LBS
6. INTERCONNECTING WIRING DIAGRAM FOR THE AGE HARNESS AND END CONNECTOR ASSEMBLY IS DRAWING NO. 1014607
7. INTERCONNECTION DIAGRAM-APOLLO GUIDANCE EQUIPMENT C/M, LOWER EQUIPMENT BAY IS DRAWING NO. 1014523
8. ASSEMBLE AND TEST PER ATP 1014606
Ⓙ 9. INSPECT PER PS-1014606

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
1	1014608	WIRE LIST "A A"	49
1	1014605	WIRING HARNESS "A"	48
~~1~~	~~1010642-144~~	~~CONNECTOR PLUG ELEC.~~	47
~~1~~	~~1010674-1~~	~~CONNECTOR PLUG ELEC.~~	46
~~1~~	~~1010674-2~~	~~CONNECTOR PLUG ELEC.~~	45
6	1010400-1	CLAMP, LOOP, HINGED	44
~~1~~	~~1010674-4~~	~~CONNECTOR PLUG ELEC.~~	43
1	~~1010348-1~~	~~CONNECTOR PLUG ELEC.~~	42
1	~~1010674-3~~	~~CONNECTOR PLUG ELEC.~~	41
~~1~~	~~1010348-2~~	~~CONNECTOR PLUG ELEC.~~	40
~~1~~	~~1000221~~	~~CONNECTOR RECP. ELEC.~~	39
1	AN345C10	NUT, PLAIN HEX	38
1	1014609	BRACKET, CLAMP	37
1	1010705-8	CLAMP, LOOP	36
~~5~~	~~1010411-2~~	~~CONNECTOR RECP. ELEC.~~	35
1	1010400-7	CLAMP, LOOP, HINGED	34
~~2~~	~~1000242-21~~	~~FERRULE, OUTER ELEC. COND.~~	33
~~2~~	~~1000242-30~~	~~FERRULE, OUTER ELEC. COND.~~	32
~~2~~	~~1000243-26~~	~~FERRULE, INNER ELEC. COND.~~	31
~~2~~	~~1000243-34~~	~~FERRULE, INNER ELEC. COND.~~	30
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	29
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	28
~~2~~	~~1010490-222~~	~~INSULATION SLEEVING, HEAT SHRINK~~	27
~~2~~	~~1010490-216~~	~~INSULATION SLEEVING, HEAT SHRINK~~	26
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	25
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	24
1	1010400-8	CLAMP, LOOP HINGED	23
1	1010400-4	CLAMP, LOOP, HINGED	22
5	1010400-3	CLAMP, LOOP, HINGED	21
3	1010400-2	CLAMP, LOOP, HINGED	20
~~1~~	~~1010671-2~~	~~CONNECTOR PLUG ELEC~~	19
~~1~~	~~1010671-1~~	~~CONNECTOR PLUG ELEC~~	18
~~2~~	~~1010607-3~~	~~CONNECTOR RECP. ELEC~~	17
~~1~~	~~1010607-1~~	~~CONNECTOR RECP. ELEC.~~	16
~~4~~	~~1010411-1~~	~~CONNECTOR RECP. ELEC.~~	15
6	1006783-47	SCREW BUTTON HEAD	14
1	1008164	CABLE CLAMP LEFT	13
1	1008165	CABLE CLAMP RIGHT	12
1	1008148	CONN PLATE ASSY (264 PINS)	11
1	1008149	CONN PLATE ASSY (293 PINS)	10
3	MS35649-44	NUT	9
1	1010618-13	SCREW BUTTON HEAD	8
3	1010618-14	SCREW BUTTON HEAD	7
4	MS35335-57	WASHER, LOCK, FLAT, EXTERNAL TOOTH	6
~~1~~	~~1010642-244~~	~~CONNECTOR PLUG ELEC~~	5
8	MS16995-17	SCREW HEX SOCKET HD	4
4	MS16995-10	SCREW, HEX SOCKET HD	3
10	1008163	PIN, LOCATING	2
1	1007161	END CONNECTOR ASSEMBLY PSA	1

LIST OF MATERIALS

1015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

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DWG NO
CONTRACT
DRAWN J. Falzone DATE 5 DEC 63
CHECKED
APPROVAL 12-10-63
APPROVAL 12-20-63
NASA APPROVAL 12-30-63
MIT APPROVAL 30 Jan 64

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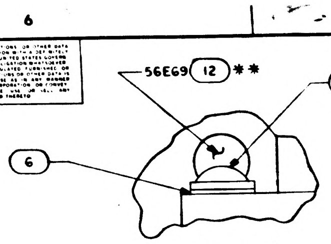
AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

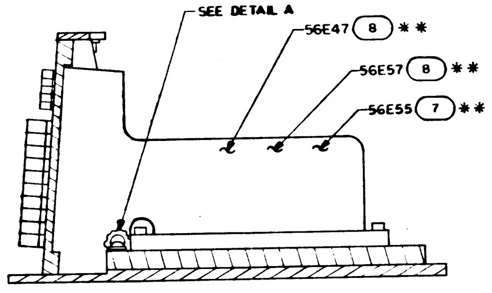
CODE IDENT NO
SIZE E
NASA DRAWING NO 1014606
SCALE 1/2
WT
SHEET 1 OF 7

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

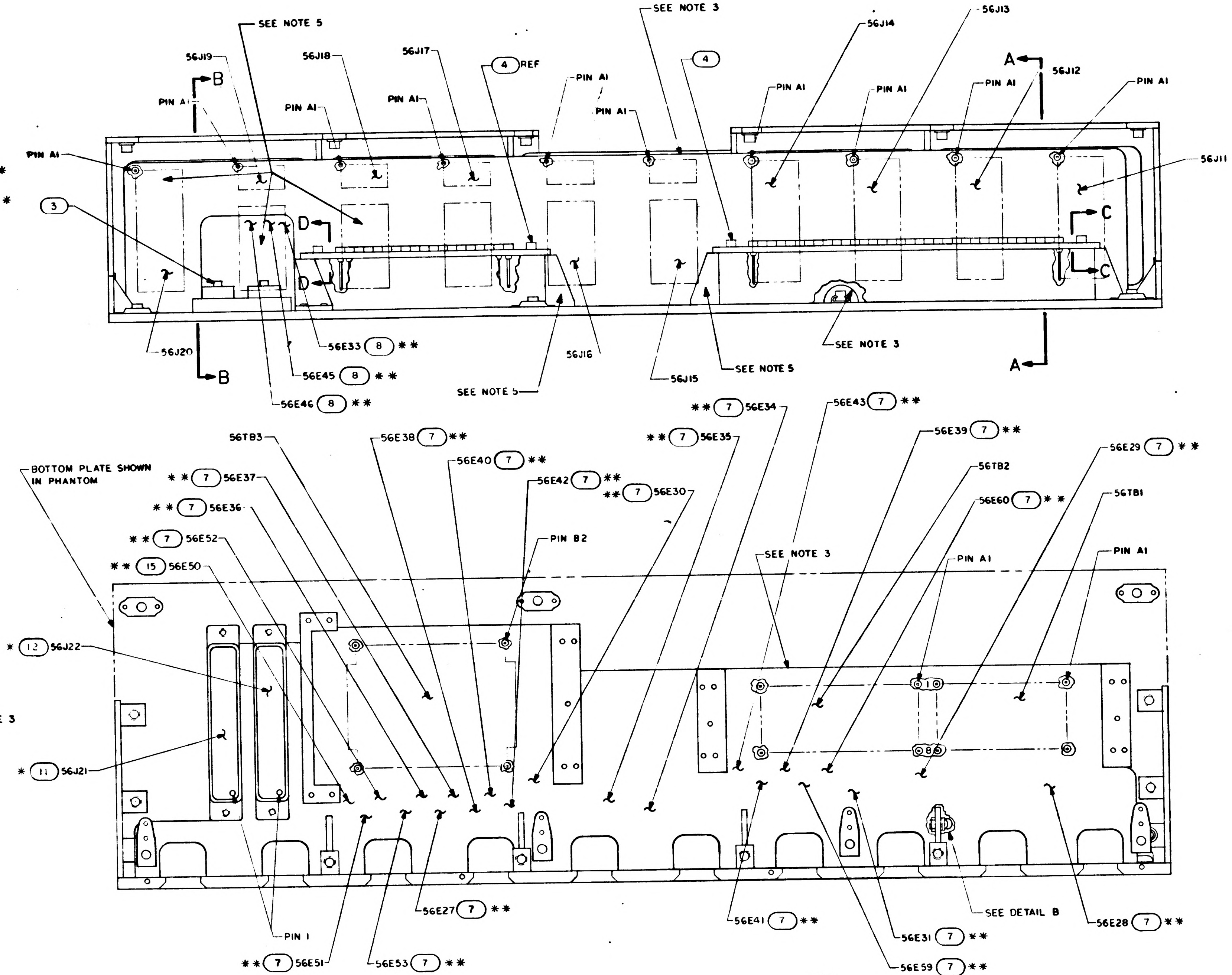
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12-27 63	
F	REVISED PER TDRR 06267	2/11/64	WR
G	REVISED PER TDRR 06777		WR
H	REVISED PER TDRR 10924	8 JUL 64	
J	REVISED PER TDRR 10973	27 JUL 64	NP
K	REPLACED WITH CHANGE BY REV "L" PER TDRR 12799	5 AUG 64	NP

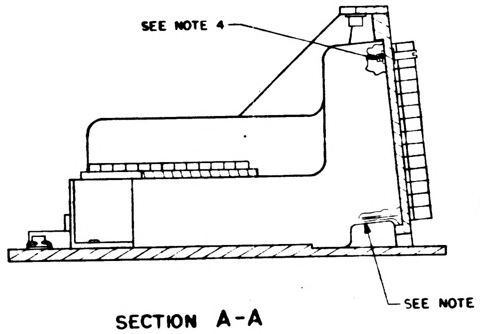


DETAIL A
SCALE 4/1

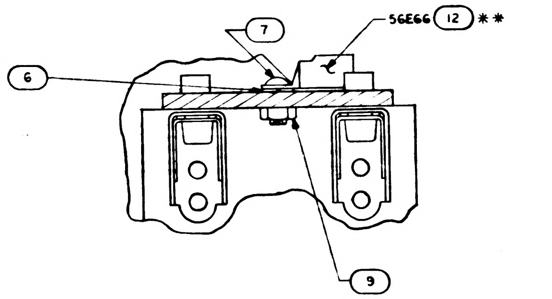

SEE DETAIL A
56E47 (8) **
56E57 (8) **
56E55 (7) **

SECTION B-B

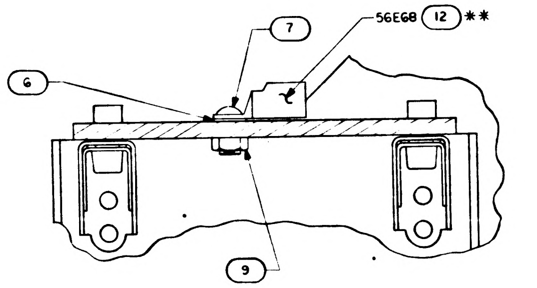

SEE NOTE 5
56J19
56J18
56J17
(4) REF
PIN A1
SEE NOTE 3
(4)
56J14
56J13
A
56J12
B
PIN A1
56J11
(3)
D
C
56J20
56E33 (8) **
56E45 (8) **
56E46 (8) **
SEE NOTE 5
56J16
56J15
SEE NOTE 5
SEE NOTE 3
** (7) 56E34
56E43 (7) **
56TB3
56E38 (7) **
** (7) 56E35
56E39 (7) **
56E40 (7) **
56E42 (7) **
** (7) 56E30
56TB2
56E29 (7) **
BOTTOM PLATE SHOWN IN PHANTOM
** (7) 56E37
** (7) 56E36
56E60 (7) **
56TB1
** (7) 56E52
PIN B2
SEE NOTE 3
PIN A1
** (15) 56E50
* (12) 56J22
* (11) 56J21
PIN 1
** (7) 56E51
56E53 (7) **
56E27 (7) **
56E41 (7) **
SEE DETAIL B
56E31 (7) **
56E59 (7) **
56E28 (7) **


SEE NOTE 4
SEE NOTE 3

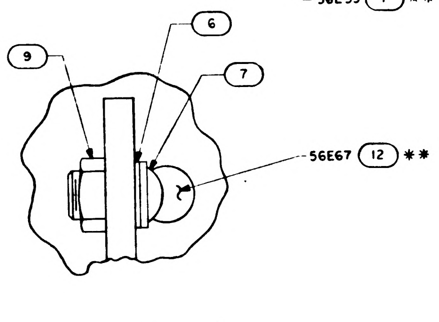
SECTION A-A


(7)
56E66 (12) **
(6)
(9)

PARTIAL SECTION C-C
SCALE 2/1


(7)
56E68 (12) **
(6)
(9)

PARTIAL SECTION D-D
SCALE 2/1


(9)
(6)
(7)
56E67 (12) **

DETAIL B
SCALE 4/1

NOTES
1. ** PARTS ARE LISTED ON DWG 1014608
2. REFER TO DWG 1014608 FOR REFERENCE DESIGNATIONS AND WIRE LIST
3. OUTLINE SHOWS MAXIMUM ENVELOPE FOR WIRE LIST AA, 1014608
4. BEFORE WIRING, COVER THREADS AND OTHER SHARP EDGES WITH SILICON RUBBER PER ND1002009, METHOD B TABS ON THE INSERTS FOR FIND NO 2 SHALL BE CLIPPED OFF
5. * PARTS NOTED ARE LISTED ON DRAWING 1014605
6. PROTECT WIRING FROM SHARP EDGES USING INSULATION MATERIAL MIL-I 631D-TYPE G, SUBFORM T_S CLASS I, 0.005 THICK

REPLACED WITH CHANGE BY REV "L"

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN Falzone DATE DEC 63
CHECKED
APPROVAL 12-26-63
APPROVAL 12-30-63
NASA APPROVAL W. J. R 12-30-63
MIT APPROVAL 30 Dec 63

MANNED SPACECRAFT CENTER
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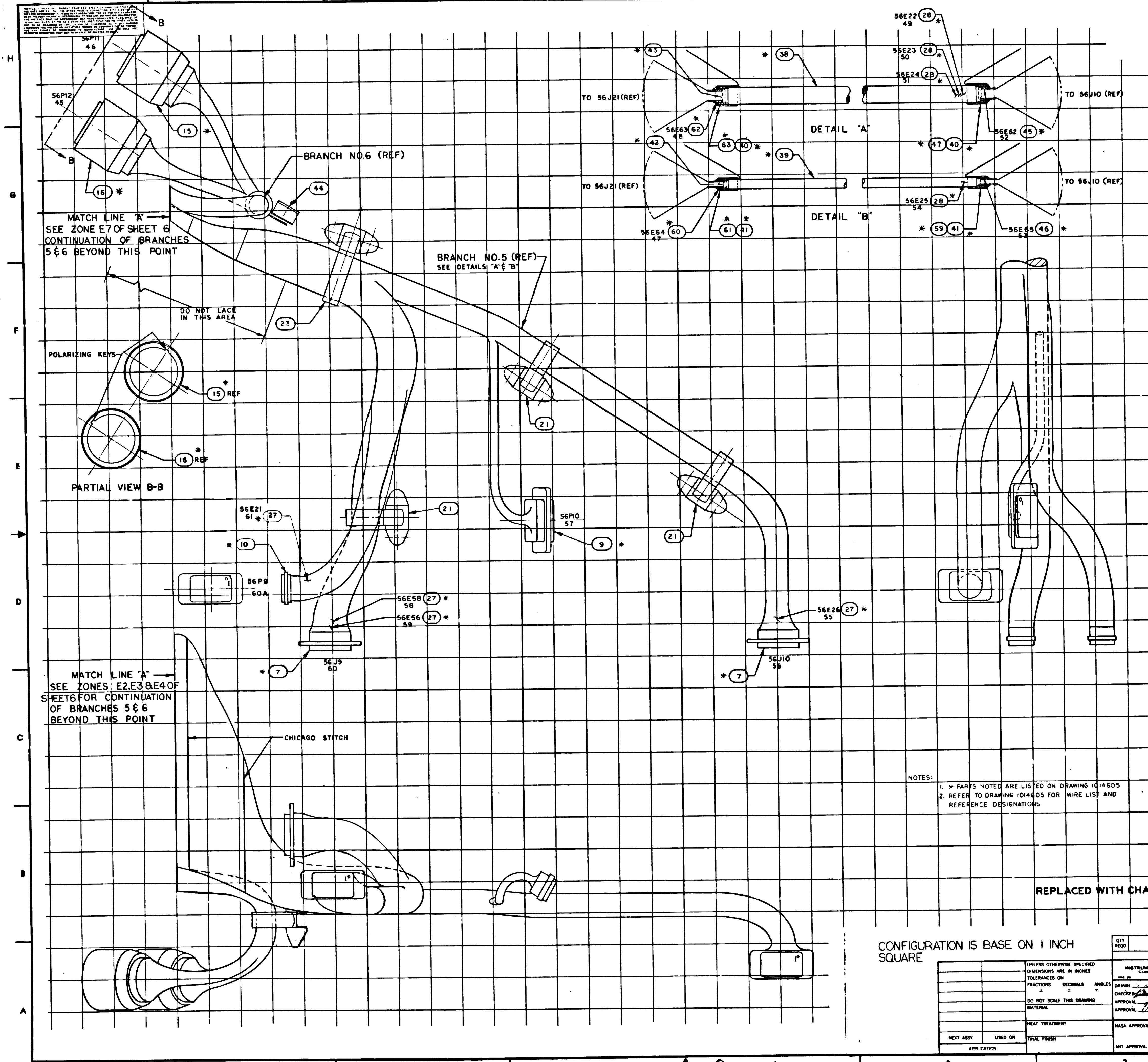
AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014606
SCALE 1/1
WT
SHEET 2 OF 7

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACE REVD WITH CHANGES PER TDRR 05331		
F	REVISED PER TDRR 06267		
G	REVISED PER TDRR 06777		
H	REVISED PER TDRR 10924	64	JWD
J	REVISED PER TDRR 10973	JUL 64	JWD
K	REPLACED WITH CHANGE BY REV "L" PER TDRR 12749	5 AUG 64	JWD



56P11
46
B
56P12
45
B
15
16
BRANCH NO.6 (REF)
44
MATCH LINE "A"
SEE ZONE E7 OF SHEET 6
CONTINUATION OF BRANCHES
5 & 6 BEYOND THIS POINT
DO NOT LACE IN THIS AREA
23
BRANCH NO.5 (REF)
SEE DETAILS "A" & "B"
POLARIZING KEYS
15 REF
16 REF
PARTIAL VIEW B-B
21
56E21
61
27
10
56P9
60A
56E58 27
58
56E56 27
59
56J9
60
7
56P10
57
9
21
56E26 27
55
56J10
56
7
MATCH LINE "A"
SEE ZONES E2, E3 & E4 OF SHEET 6 FOR CONTINUATION
OF BRANCHES 5 & 6
BEYOND THIS POINT
CHICAGO STITCH
43
TO 56J21 (REF)
38
56E22 28
49
56E23 28
50
56E24 28
51
TO 56J10 (REF)
DETAIL "A"
56E63 62
48
63
40
47
40
56E62
52
45
42
39
TO 56J21 (REF)
TO 56J10 (REF)
DETAIL "B"
56E25 28
54
56E64 60
47
61
41
59
41
56E65 46
53

NOTES:

1. * PARTS NOTED ARE LISTED ON DRAWING 1014605
2. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS

REPLACED WITH CHANGE BY REV L

CONFIGURATION IS BASE ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
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APPROVAL
APPROVAL
NASA APPROVAL 3/31/64
MIT APPROVAL

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AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO. SIZE E NASA DRAWING NO 1014606
SCALE WT SHEET OF 7

1014606 K

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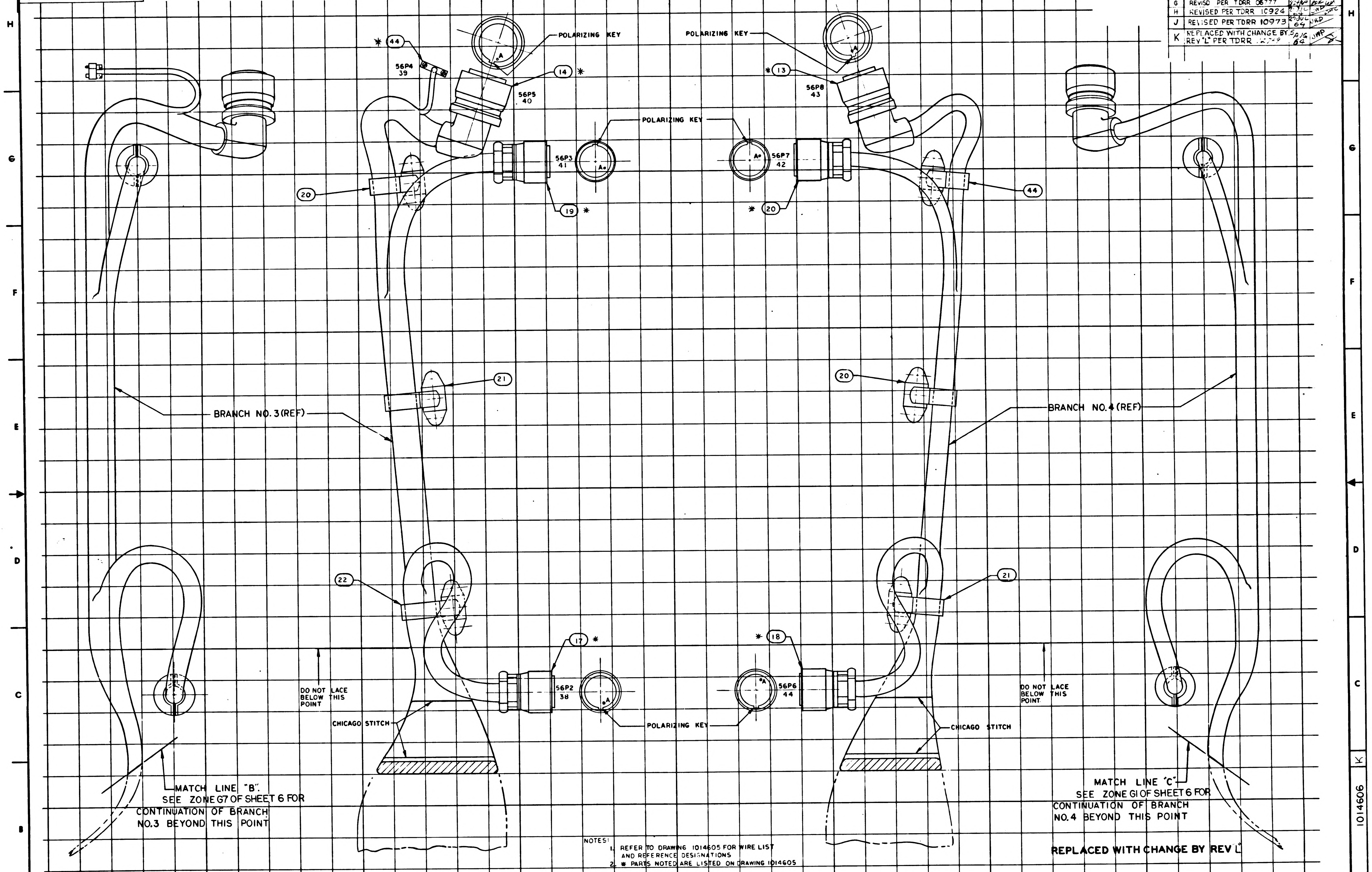
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331		
F	REVISED PER TDRR 06267		
G	REVISD PER TDRR 06777	3/24/64	
H	REVISED PER TDRR 10924	27 JUL 64	JWP
J	REVISED PER TDRR 10973	27 JUL 64	JWP
K	REPLACED WITH CHANGE BY REV "L" PER TDRR 12749	5 AUG 64	JWP


POLARIZING KEY
POLARIZING KEY
POLARIZING KEY
POLARIZING KEY
44 *
56P4 39
14 *
56P5 40
* 13
56P8 43
56P3 41
56P7 42
A
20
19 *
* 20
44
21
20
BRANCH NO. 3 (REF)
BRANCH NO. 4 (REF)
22
21
17 *
* 18
56P2 38
56P6 44
DO NOT LACE BELOW THIS POINT
DO NOT LACE BELOW THIS POINT
CHICAGO STITCH
CHICAGO STITCH
MATCH LINE "B". SEE ZONE G7 OF SHEET 6 FOR CONTINUATION OF BRANCH NO.3 BEYOND THIS POINT
MATCH LINE "C". SEE ZONE G1 OF SHEET 6 FOR CONTINUATION OF BRANCH NO.4 BEYOND THIS POINT

NOTES:
1. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS
2. * PARTS NOTED ARE LISTED ON DRAWING 1014605

REPLACED WITH CHANGE BY REV "L"

CONFIGURATION IS BASED ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

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AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.	SIZE	NASA DRAWING NO
	E	1014606

SCALE
WT
SHEET OF 7

1014606 K

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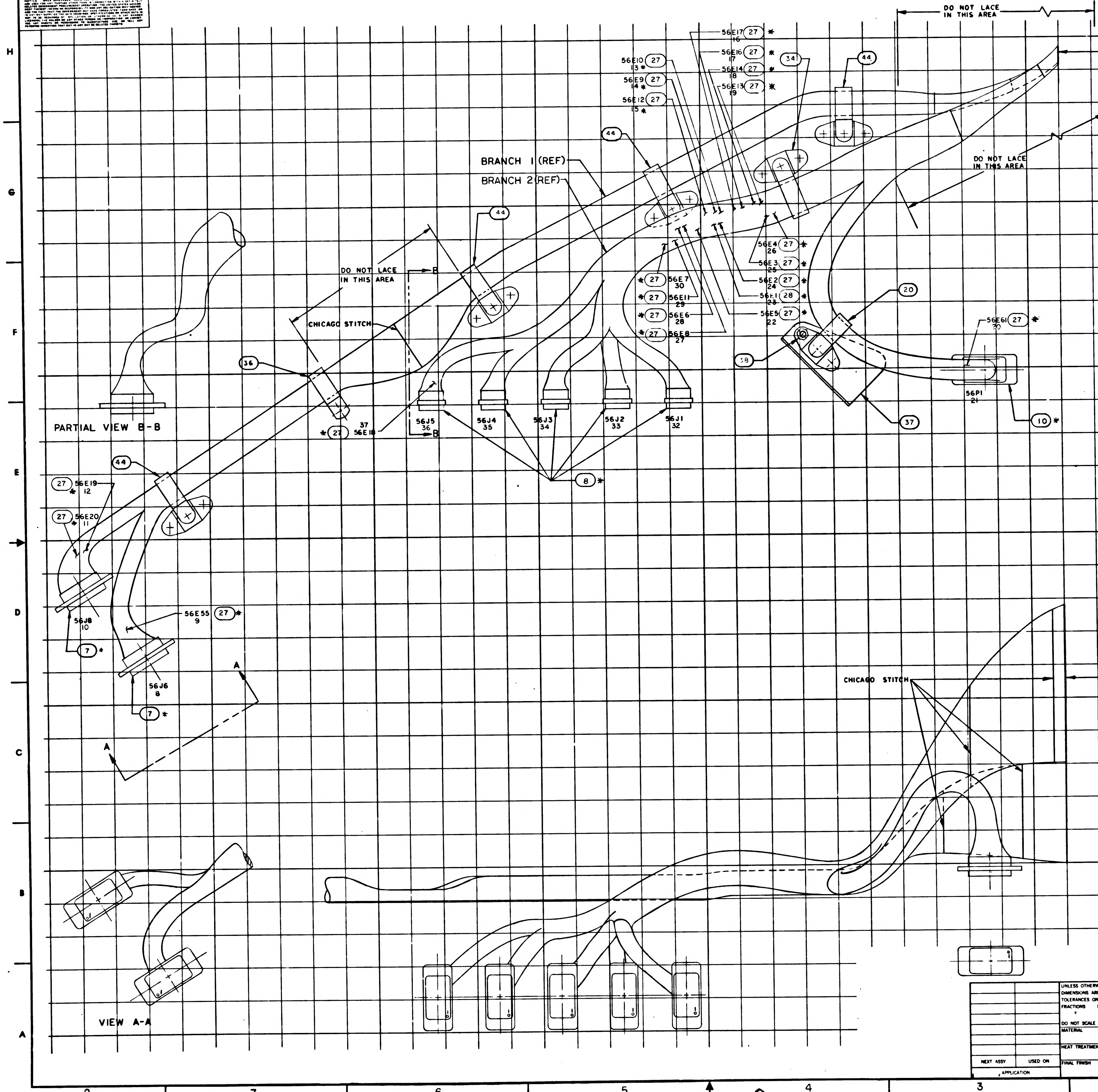
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331		
F	REVISED PER TDRR 06267		
G	REVISED PER TDRR 06777	3 ...	
H	REVISED PER TDRR 10924	21 JUL 64	
J	REVISED PER TDRR 10973	27 JUL 64	JWS
K	REPLACED WITH CHANGE BY REV. "L" PER TDRR 12749	5 AUG 64	



DO NOT LACE IN THIS AREA
56E17 (27) * 16
56E16 (27) * 17
56E14 (27) * 18
56E13 (27) * 19
56E10 (27) 13 *
56E9 (27) 14 *
56E12 (27) 15 *
(34)
(44)
(44)
BRANCH 1 (REF)
BRANCH 2 (REF)
DO NOT LACE IN THIS AREA
(44)
56E4 (27) * 26
56E3 (27) * 25
56E2 (27) * 24
56E1 (28) * 23
56E5 (27) * 22
* (27) 56E7 30
* (27) 56E11 29
* (27) 56E6 28
* (27) 56E8 27
DO NOT LACE IN THIS AREA
B
CHICAGO STITCH
(20)
56E61 (27) * 20
(38)
(36)
56P1 21
(37)
(10) *
37 56E18
* (27)
B
56J5 36
56J4 35
56J3 34
56J2 33
56J1 32
(8) *
PARTIAL VIEW B-B
(44)
(27) 56E19 * 12
(27) 56E20 * 11
56E55 (27) * 9
56J8 10
(7) *
56J6 8
(7) *
A
A
CHICAGO STITCH
VIEW A-A

MATCH LINE "A"
SEE ZONE E2 OF SHEET 6 FOR
CONTINUATION OF BRANCHES
1 & 2 BEYOND THIS POINT.

MATCH LINE "A"
SEE ZONES E5 & E6 OF SHEET 6 FOR
CONTINUATION OF BRANCHES
1 & 2 BEYOND THIS POINT

NOTES:
1. * PARTS NOTED ARE LISTED ON DRAWING NO. 1014605
2. REFER TO DRAWING 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS

REPLACED WITH CHANGE BY REV "L"

CONFIGURATION IS BASED ON 1 INCH SQUARE

K

1014606

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY | USED ON
APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

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CHECKED
APPROVAL
APPROVAL
NASA APPROVAL 3/31/64
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AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO. | SIZE E | NASA DRAWING NO. 1014606
SCALE | WT | SHEET 5 OF 7

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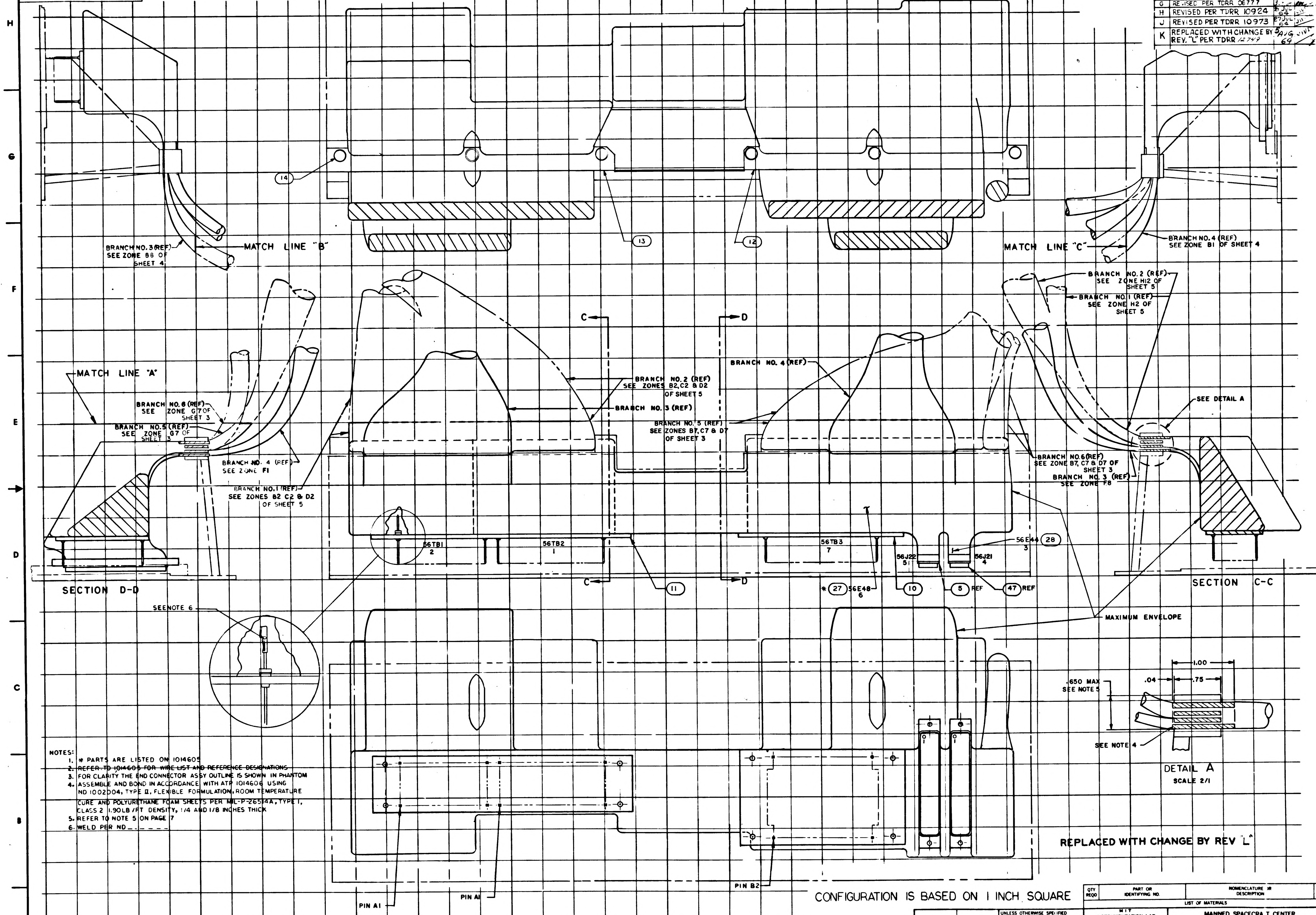
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05334		–
F	REVISED PER TDRR 06267		
G	REVISED PER TDRR 06777	3	
H	REVISED PER TDRR 10924	21 JUL 64	JW
J	REVISED PER TDRR 10973	27 JUL 64	JW
K	REPLACED WITH CHANGE BY REV. "L" PER TDRR 12749	5 AUG 69	JW



8
7
6
5
4
3
2
H
G
F
E
D
C
B
A
14
13
12
BRANCH NO. 3 (REF) SEE ZONE B8 OF SHEET 4
MATCH LINE "B"
MATCH LINE "C"
BRANCH NO. 4 (REF) SEE ZONE B1 OF SHEET 4
BRANCH NO. 2 (REF) SEE ZONE H12 OF SHEET 5
BRANCH NO. 1 (REF) SEE ZONE H2 OF SHEET 5
C
D
MATCH LINE "A"
BRANCH NO. 6 (REF) SEE ZONE G7 OF SHEET 3
BRANCH NO. 5 (REF) SEE ZONE G7 OF SHEET 3
BRANCH NO. 4 (REF) SEE ZONE F1
BRANCH NO. 1 (REF) SEE ZONES B2 C2 & D2 OF SHEET 5
BRANCH NO. 2 (REF) SEE ZONES B2, C2 & D2 OF SHEET 5
BRANCH NO. 3 (REF)
BRANCH NO. 4 (REF)
BRANCH NO. 5 (REF) SEE ZONES B7, C7 & D7 OF SHEET 3
SEE DETAIL A
BRANCH NO. 6 (REF) SEE ZONE B7, C7 & D7 OF SHEET 3
BRANCH NO. 3 (REF) SEE ZONE F8
56TB1 2
56TB2 1
56TB3 7
56J22 5
56J21 4
56E44 28 3
SECTION D-D
SECTION C-C
11
* 27 56E48 6
10
5 REF
47 REF
SEE NOTE 6
MAXIMUM ENVELOPE
1.00
.04
.75
.650 MAX SEE NOTE 5
SEE NOTE 4
DETAIL A SCALE 2/1
PIN A1
PIN A1
PIN B2

NOTES:
1. * PARTS ARE LISTED ON 1014605
2. ~~REFER TO 1014605 FOR WIRE LIST AND REFERENCE DESIGNATIONS~~
3. FOR CLARITY THE END CONNECTOR ASSY OUTLINE IS SHOWN IN PHANTOM
4. ASSEMBLE AND BOND IN ACCORDANCE WITH ATP 1014606 USING ND 1002004, TYPE II, FLEXIBLE FORMULATION, ROOM TEMPERATURE CURE AND POLYURETHANE FOAM SHEETS PER MIL-P-26514A, TYPE I, CLASS 2 1.90LB/FT DENSITY, 1/4 AND 1/8 INCHES THICK
5. REFER TO NOTE 5 ON PAGE 7
6. WELD PER ND _ _ _ _ _ _

REPLACED WITH CHANGE BY REV "L"

K 1014606

CONFIGURATION IS BASED ON 1 INCH SQUARE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
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DWG NO
CONTRACT
DRAWN
DATE
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL 3/31/64
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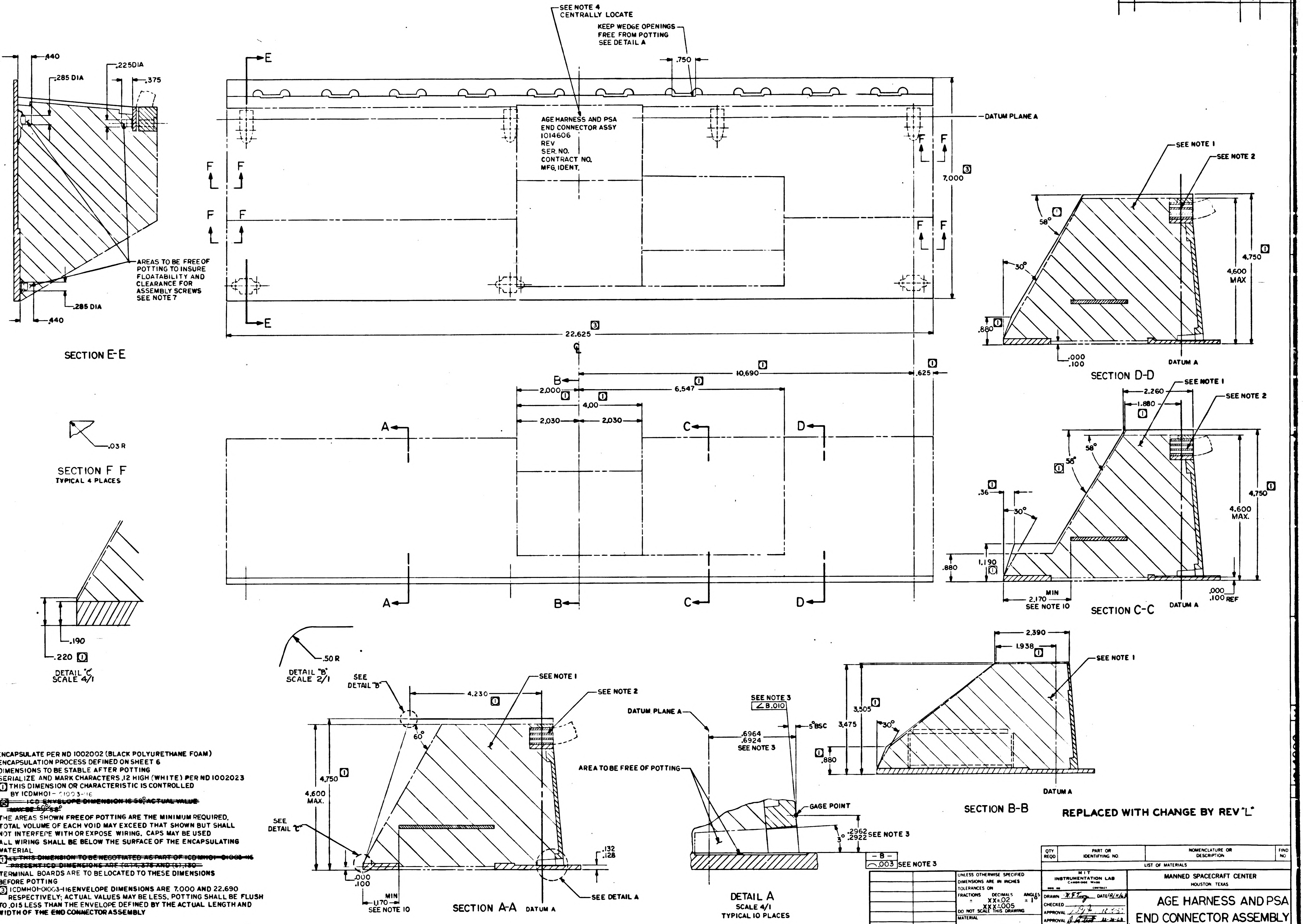
AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO 1014606
SCALE
WT
SHEET OF

MX-

SYM	DESCRIPTION	DATE	APPROVAL
E	REPLACES REV D WITH CHANGES PER TDRR 05331	12-27-63	
F	REVISED PER TDRR 06267	2/11/64	WK
G	REVISED PER TDRR 06777	3/24/64	WK
H	REVISED PER TDRR 10924	21 JUL 64	WP CMK
J	REVISED PER TDRR 10973	27 JUL 64	WP
K	REPLACED WITH CHANGE BY REV "L" PER TDRR 12749	5 AUG 64	WP



SEE NOTE 4
CENTRALLY LOCATE
KEEP WEDGE OPENINGS FREE FROM POTTING SEE DETAIL A
.750
AGE HARNESS AND PSA END CONNECTOR ASSY 1014606 REV SER. NO. CONTRACT NO. MFG. IDENT.
DATUM PLANE A
7.000
22.625
10.690
6.547
2.000
4.00
2.030
2.030
.625
A
B
C
D
E
F
.440
.285 DIA
.225DIA
.375
AREAS TO BE FREE OF POTTING TO INSURE FLOATABILITY AND CLEARANCE FOR ASSEMBLY SCREWS SEE NOTE 7
SECTION E-E
.03 R
SECTION F F
TYPICAL 4 PLACES
.190
.220
DETAIL "C" SCALE 4/1
.50 R
DETAIL "B" SCALE 2/1
SEE DETAIL "B"
SEE DETAIL "C"
4.230
60°
SEE NOTE 1
SEE NOTE 2
4.750
4.600 MAX.
.000
.100
1.170 MIN
SEE NOTE 10
.132
.128
SEE DETAIL A
SECTION A-A
DATUM A
SEE NOTE 3
∠8.010
DATUM PLANE A
5° BSC
.6964
.6924
SEE NOTE 3
AREA TO BE FREE OF POTTING
GAGE POINT
.2962
.2922
3°
-B-
.003
DETAIL A
SCALE 4/1
TYPICAL 10 PLACES
2.390
1.938
3.505
3.475
30°
.880
SECTION B-B
58°
30°
4.750
4.600 MAX
.880
.000
.100
SECTION D-D
2.260
1.880
.36
1.190
2.170 MIN
.100 REF
SECTION C-C

REPLACED WITH CHANGE BY REV "L"

NOTES:
1. ENCAPSULATE PER ND 1002002 (BLACK POLYURETHANE FOAM)
2. ENCAPSULATION PROCESS DEFINED ON SHEET 6
3. DIMENSIONS TO BE STABLE AFTER POTTING
4. SERIALIZE AND MARK CHARACTERS .12 HIGH (WHITE) PER ND 1002023
5. ① THIS DIMENSION OR CHARACTERISTIC IS CONTROLLED BY ICDMH01-01003-116
~~6. ② ICD ENVELOPE DIMENSION IS 58°, ACTUAL VALUE MAY BE 60°/58°~~
7. THE AREAS SHOWN FREE OF POTTING ARE THE MINIMUM REQUIRED. TOTAL VOLUME OF EACH VOID MAY EXCEED THAT SHOWN BUT SHALL NOT INTERFERE WITH OR EXPOSE WIRING. CAPS MAY BE USED
8. ALL WIRING SHALL BE BELOW THE SURFACE OF THE ENCAPSULATING MATERIAL
~~9. ① THIS DIMENSION TO BE NEGOTIATED AS PART OF ICD MH01-01003-116 PRESENT ICD DIMENSIONS ARE (a) 4.375 AND (b) .130~~
10. TERMINAL BOARDS ARE TO BE LOCATED TO THESE DIMENSIONS BEFORE POTTING
11. ③ ICDMH01-01003-116 ENVELOPE DIMENSIONS ARE 7.000 AND 22.690 RESPECTIVELY; ACTUAL VALUES MAY BE LESS. POTTING SHALL BE FLUSH TO .015 LESS THAN THE ENVELOPE DEFINED BY THE ACTUAL LENGTH AND WIDTH OF THE END CONNECTOR ASSEMBLY

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS XX±.02 XXX±.005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

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DRAWN W.F.Troy DATE 12/11/63
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APPROVAL 12-?-63
APPROVAL 12-20-63
NASA APPROVAL W. J. 12-30-63
MIT APPROVAL W. Coffee 30 Dec 63

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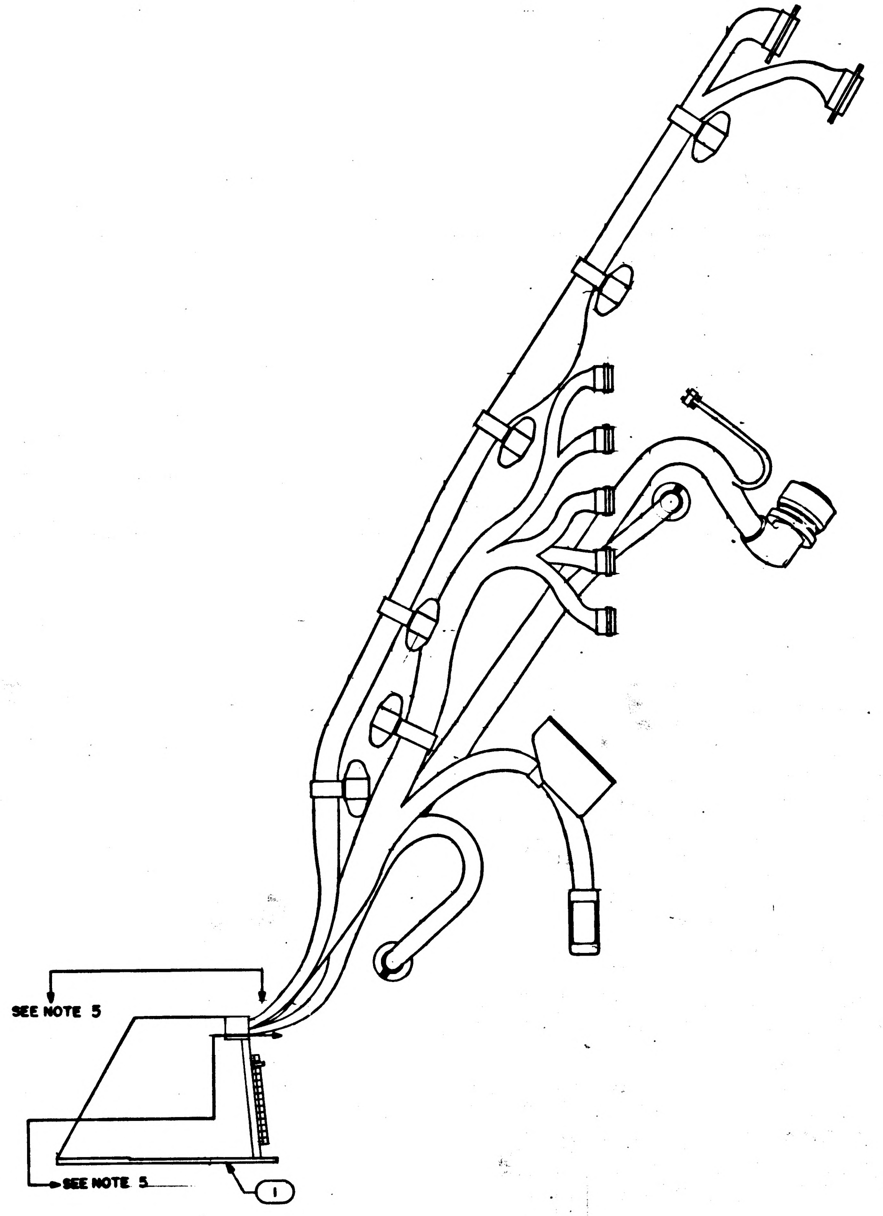
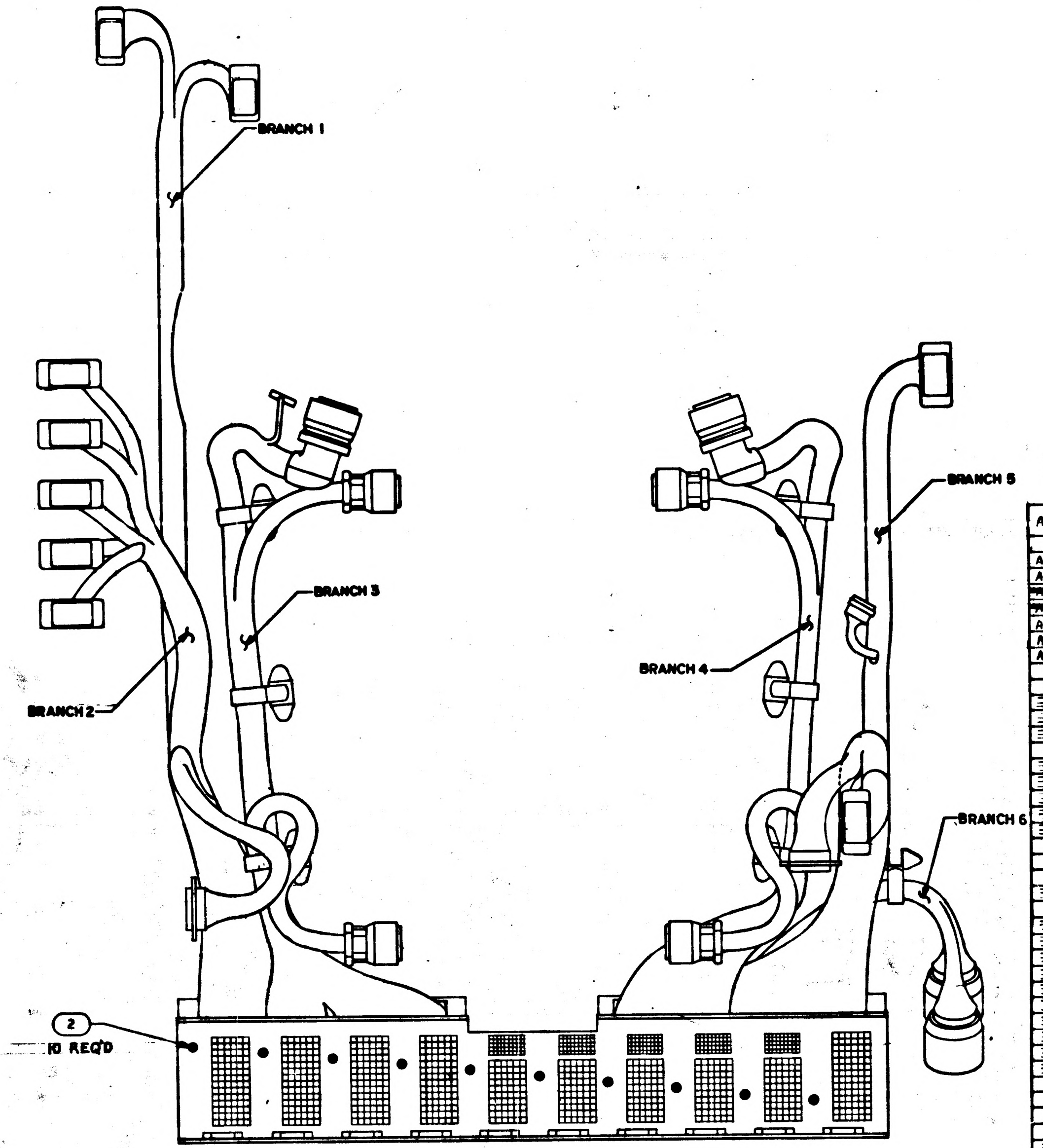
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014606
SCALE
WT
SHEET 7 OF 7

SYM	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV. "K" WITH CHANGE PER TDRR 12749	3 AUG 64	





NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MAXIMUM ENVELOPE AND "E" POINTS FOR ITEM NO. 49 WIRE LIST ARE SHOWN ON SHEET 2 OF THIS DRAWING.
3. BRANCHES 1, 2 AND 3 OF ITEM NO. 48 HARNESS CONFIGURATION ARE SHOWN ON SHEET 3 OF THIS DRAWING.
4. BRANCHES 4, 5 AND 6 OF ITEM NO. 48 HARNESS CONFIGURATION ARE SHOWN ON SHEET 4 OF THIS DRAWING.
5. MARRIAGE CONFIGURATION OF ITEM 48 AND 49 SHOWN ON SHEET 5 OF THIS DRAWING.
6. ENCAPSULATION ENVELOPE IS SHOWN ON SHEET 6 OF THIS DRAWING.
7. MOUNTING TORQUE FOR FIND NO. 2 IS 6.5 IN/LBS.
8. INTERCONNECTION LIST OF AGE HARNESS AND END CONNECTOR ASSEMBLY IS DRAWING NO. 1014607
9. INTERCONNECTION DIAGRAM - APOLLO GUIDANCE EQUIPMENT C/M, LOWER EQUIPMENT BAY IS DRAWING NO. 1014523.
10. ASSEMBLE AND TEST PER ATP 1014606.
11. GRID MODULE ON SHEETS 3, 4 AND 5 IS 1 INCH TRUE POSITION.
12. UNLESS OTHERWISE SPECIFIED: FEATURE CENTERLINES ON SHEETS 3, 4, AND 5 ARE LOCATED WITHIN ±.25 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN ±.12 INCH.

REPLACES REV "K" WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
AR	MIL-I-631	INSULATION MATERIAL, TYPE 6, FORM S, CLASS	58
			57
AR	1006743-2	ACTIVATOR	56
AR	1006743-1	RESIN	55
~~AR~~	[illegible]	~~AGENT, CURING~~	54
~~AR~~	[illegible]	~~COMPOUND, SILICONE RUBBER~~	53
AR	1006722	THINNER, SILICONE	52
AR	1006721	AGENT, CURING	51
AR	1006720	COMPOUND, SILICONE RUBBER	50
1	1014608	WIRE LIST "A A"	49
1	1014605	WIRING HARNESS "A"	48
~~1~~	~~1010642-1~~	~~CONNECTOR PLUG ELEC.~~	47
~~1~~	[illegible]	[illegible]	46
~~1~~	~~1010674-2~~	~~CONNECTOR PLUG ELEC.~~	45
6	1010400-1	CLAMR LOOP, HINGED	44
~~1~~	~~1010676-4~~	~~CONNECTOR PLUG ELEC.~~	43
~~1~~	~~1010346-1~~	~~CONNECTOR PLUG ELEC~~	42
~~1~~	~~1010674-3~~	~~CONNECTOR PLUG ELEC.~~	41
~~1~~	~~1010348-2~~	[illegible]	40
~~1~~	~~1000221~~	[illegible]	39
1	AN345C10	NUT, PLAIN HEX	38
1	1014609	BRACKET, CLAMP	37
1	1010705-8	CLAMP, LOOP	36
~~3~~	~~1010411-2~~	~~CONNECTOR RECP ELEC.~~	35
1	1010400-7	CLAMP, LOOR HINGED	34
~~2~~	~~1000242-21~~	~~FERRULE OUTER ELEC COND.~~	33
~~2~~	~~1000242-30~~	~~FERRULE, OUTER ELEC COND.~~	32
~~2~~	~~1000243-26~~	~~FERRULE INNER ELEC COND.~~	31
~~2~~	~~1000243-34~~	~~FERRULE, INNER ELEC COND.~~	30
~~1~~	~~QQ-I-575~~	~~BRAID, WIRE~~	29
~~1~~	[illegible]	[illegible]	28
~~2~~	~~1010190-222~~	~~INSULATION SLEEVING, HEAT SHRINK~~	27
~~2~~	~~1010190-216~~	~~INSULATION SLEEVING, HEAT SHRINK~~	26
~~1~~	~~1010190~~	~~INSULATION SLEEVING, HEAT SHRINK~~	25
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	24
1	1010400-8	CLAMP, LOOP HINGED	23
1	1010400-4	CLAMR LOOR HINGED	22
5	1010400-3	CLAMP, LOOP, HINGED	21
3	1010400-2	CLAMP, LOOR HINGED	20
~~1~~	~~1010571-2~~	~~CONNECTOR PLUG ELEC~~	19
~~1~~	~~1010571-1~~	[illegible]	18
~~2~~	~~1010507-3~~	~~CONNECTOR RECP ELEC~~	17
~~1~~	~~1010507-1~~	~~CONNECTOR RECP ELEC~~	16
~~3~~	~~1010411-1~~	~~CONNECTOR RECP ELEC.~~	15
6	1006783-47	SCREW BUTTON HEAD	14
1	1008164	CABLE CLAMP LEFT	13
1	1008165	CABLE CLAMP RIGHT	12
1	1008148	CONN PLATE ASSY (264 PINS)	11
1	1008149	CONN PLATE ASSY (293 PINS)	10
3	MS35649-44	NUT	9
1	1010618-13	SCREW BUTTON HEAD	8
3	1010618-14	SCREW BUTTON HEAD	7
4	MS35335-57	WASHER LOCK, FLAT, EXTERNAL TOOTH	6
~~1~~	~~1010642-~~	[illegible]	5
8	MS16995-17	SCREW HEX SOCKET HD	4
4	MS16995-10	SCREW, HEX SOCKET HD	3
10	1008163	PIN, LOCATING	2
1	1007161	END CONNECTOR ASSEMBLY PSA	1

LIST OF MATERIALS

NEXT ASSY	USED ON
1015000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN J. Fabyan DATE 5 Aug 63
CHECKED
APPROVAL 12-10-63
APPROVAL 12-20-63
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

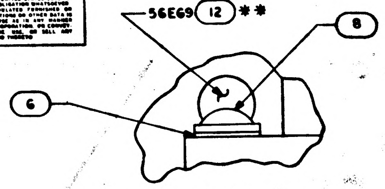
SIZE E
NASA DRAWING NO. 1C14606
SCALE 1/2
SHEET 1 OF 6

MASTER

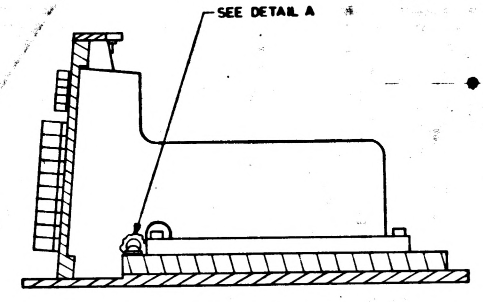
1014606 L

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

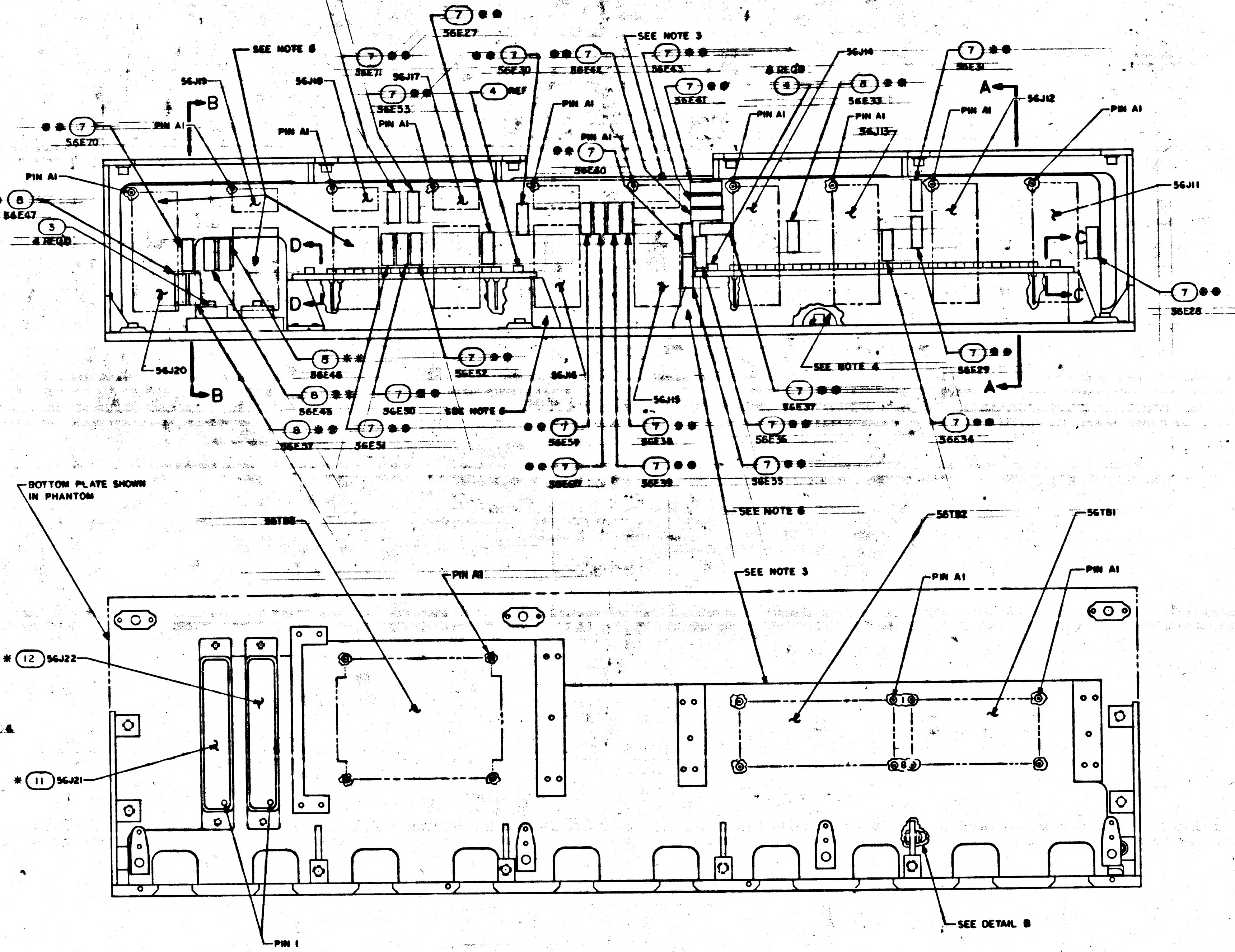
	REVISIONS		
	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV. "K" WITH CHANGE PER TDRR 12249	3 AUG 64	JWP

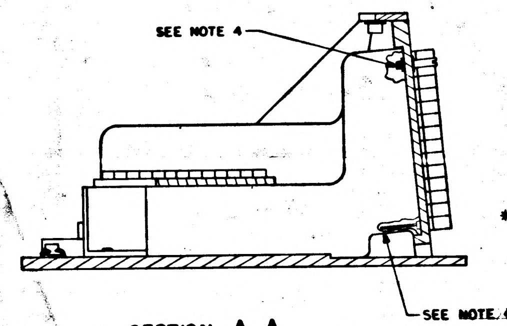


DETAIL A
SCALE 4/1

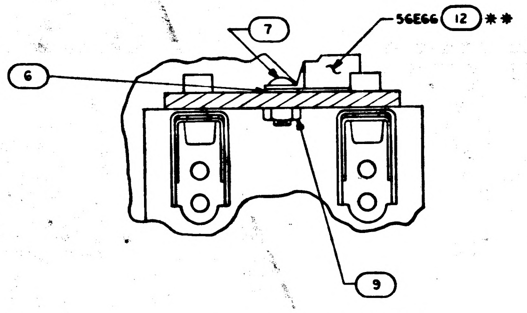

SEE DETAIL A

SECTION B B

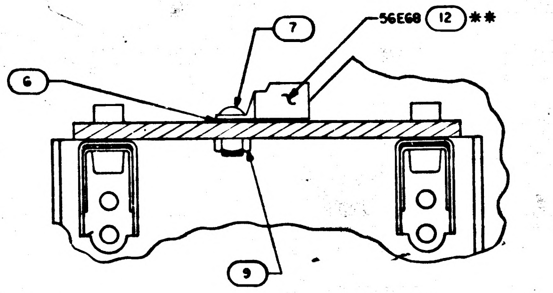

SEE NOTE 6
56J19
56J18
56J17
56E71
56E53
56E27
56E30
56E42
56E43
56E61
SEE NOTE 3
4 REF
8 REQD
56J14
56E33
56J13
56E31
56J12
A
B
PIN A1
56E70
56E60
56E47
3
4 REQD
56J11
D
C
56E28
56J20
56E46
56E45
56E57
56E52
56E50
56E51
SEE NOTE 6
56J16
56J15
56E59
56E58
56E60
56E39
56E38
56E37
56E36
56E35
56E34
56E29
SEE NOTE 4
SEE NOTE 6
7
8
**
BOTTOM PLATE SHOWN IN PHANTOM
56TB3
PIN A1
SEE NOTE 3
56TB2
56TB1
* 12 56J22
* 11 56J21
PIN 1
SEE DETAIL B


SEE NOTE 4
SEE NOTE 6

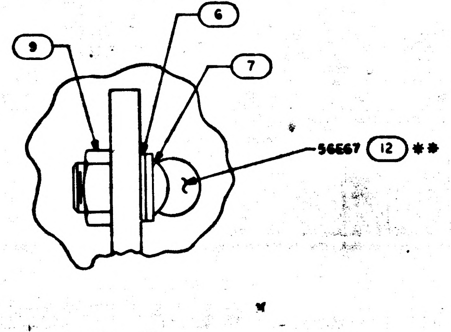
SECTION A A


7
56E66
12
**
6
9

PARTIAL SECTION C C
SCALE 2/1


7
56E68
12
**
6
9

PARTIAL SECTION D D
SCALE 2/1


9
6
7
56E67
12
**

DETAIL B
SCALE 4/1

NOTES
1. ** PARTS ARE LISTED ON DWG 1014608
2. REFER TO DWG 1014608 FOR REFERENCE DESIGNATIONS AND WIRE LIST
3. OUTLINE SHOWS MAXIMUM ENVELOPE FOR WIRE LIST AA, 1014608
4. BEFORE WIRING, COVER THREADS AND OTHER SHARP EDGES WITH SILICON RUBBER PER MD1002009, METHOD B
5. * PARTS NOTED ARE LISTED ON DRAWING 1014605
6. PROTECT WIRING FROM SHARP EDGES USING ITEM 58

REPLACES REV K WITH CHANGE

MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS

DRAWN J. Falzone DATE
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL 12-30-63
MIT APPROVAL

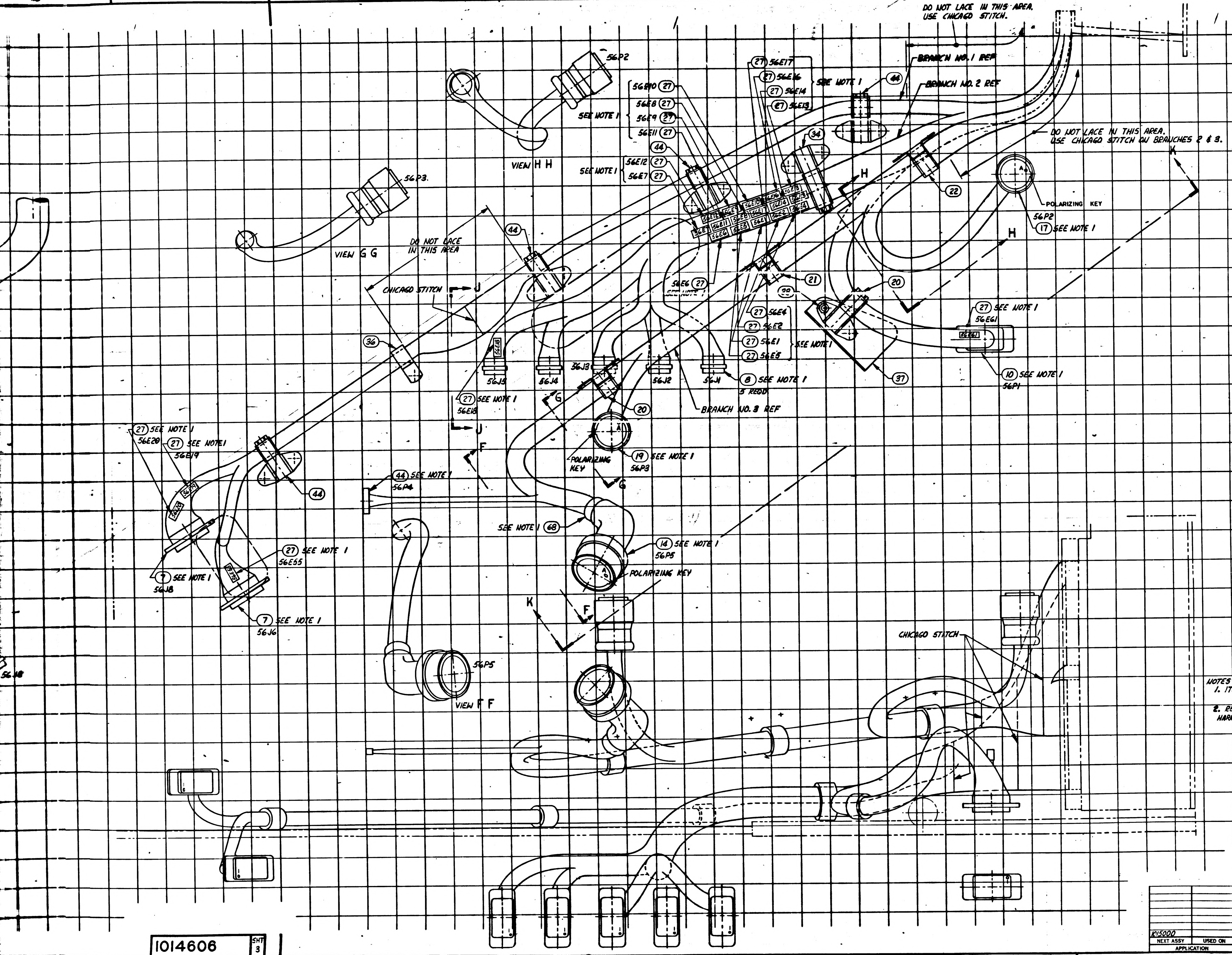
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014608
SCALE 1/1
WT
SHEET 2 OF 5

1014606 L

REVISIONS				
SYM	ZONE	DESCRIPTION	CHG BY	
–		REPLACES REV "K" WITH CHANGE PER [illegible]	—	


DO NOT LACE IN THIS AREA.
USE CHICAGO STITCH.
BRANCH NO. 1 REF
BRANCH NO. 2 REF
DO NOT LACE IN THIS AREA.
USE CHICAGO STITCH ON BRANCHES 2 & 3.
56P2
VIEW H H
SEE NOTE 1
56E10 27
56E8 27
56E9 27
56E11 27
27 56E17
27 56E16
27 56E14
27 56E13
SEE NOTE 1
44
34
SEE NOTE 1
56E12 27
56E7 27
44
H
22
POLARIZING KEY
56P2
17 SEE NOTE 1
H
56P3.
VIEW G G
DO NOT LACE IN THIS AREA
44
CHICAGO STITCH
J
56E6 27
SEE NOTE 1
21
20
22
27 56E4
27 56E2
27 56E1
27 56E5
SEE NOTE 1
27 SEE NOTE 1
56E61
36
56E18
56J5
56J4
56J3
56J2
56J1
8 SEE NOTE 1
5 REQD
37
10 SEE NOTE 1
56P1
27 SEE NOTE 1
56E18
J
G
20
BRANCH NO. 3 REF
27 SEE NOTE 1
56E20
27 SEE NOTE 1
56E19
F
POLARIZING KEY
19 SEE NOTE 1
56P3
G
44 SEE NOTE 1
56P4
44
SEE NOTE 1 68
14 SEE NOTE 1
56P5
POLARIZING KEY
27 SEE NOTE 1
56E55
7 SEE NOTE 1
56J8
7 SEE NOTE 1
56J6
K
F
56P5
VIEW F F
CHICAGO STITCH
56J8

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605.
2. REFER TO DRAWING 1014605 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

REPLACES REV "K" WITH CHANGE

1015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 20 JUN 64 DATE
CHECKED J. GRIEB 23 JUN 64
APPROVAL 23 JUN
APPROVAL 24 JUN
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

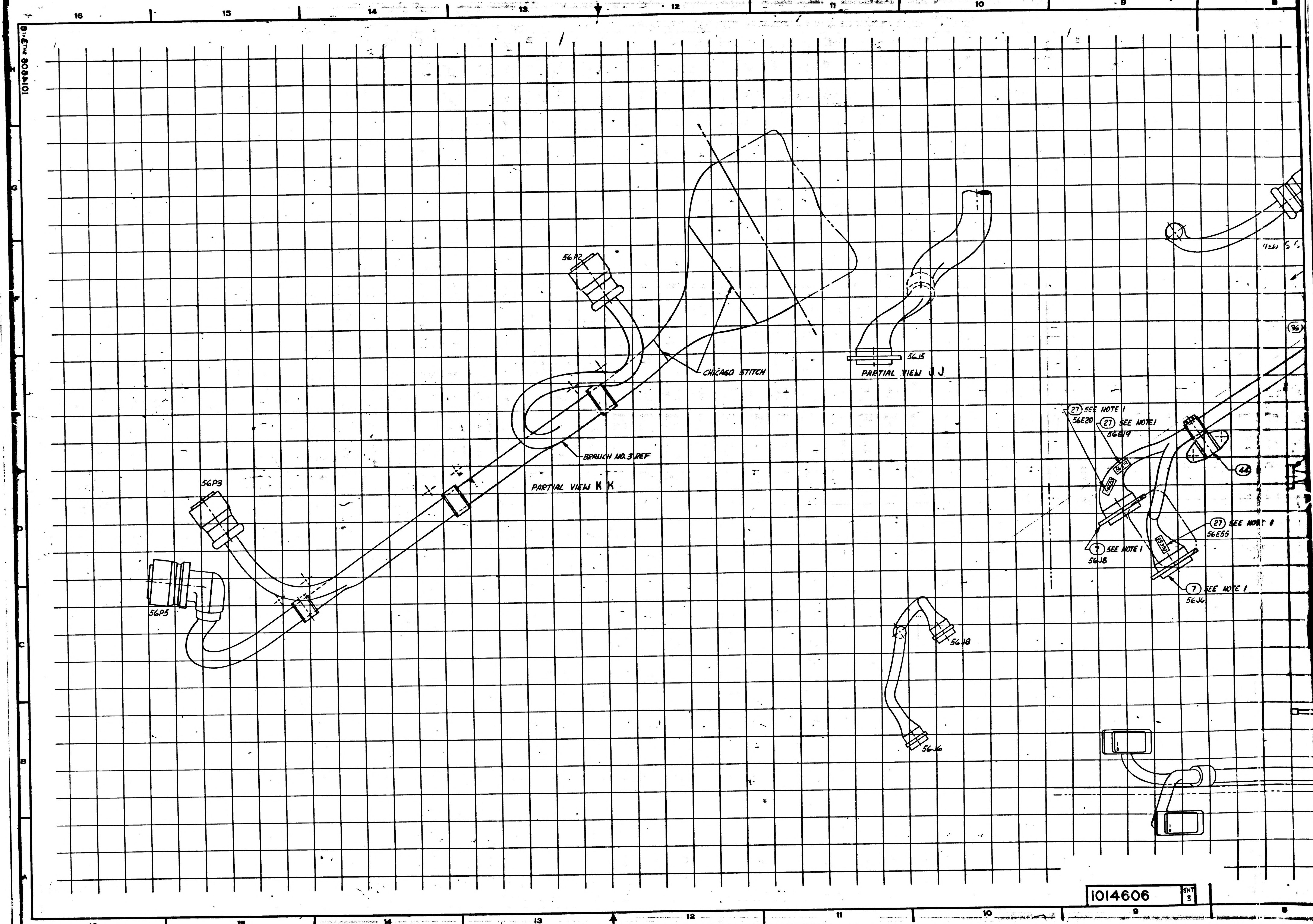
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE J2
1014606
SCALE 1:1

1014606 SHT 3

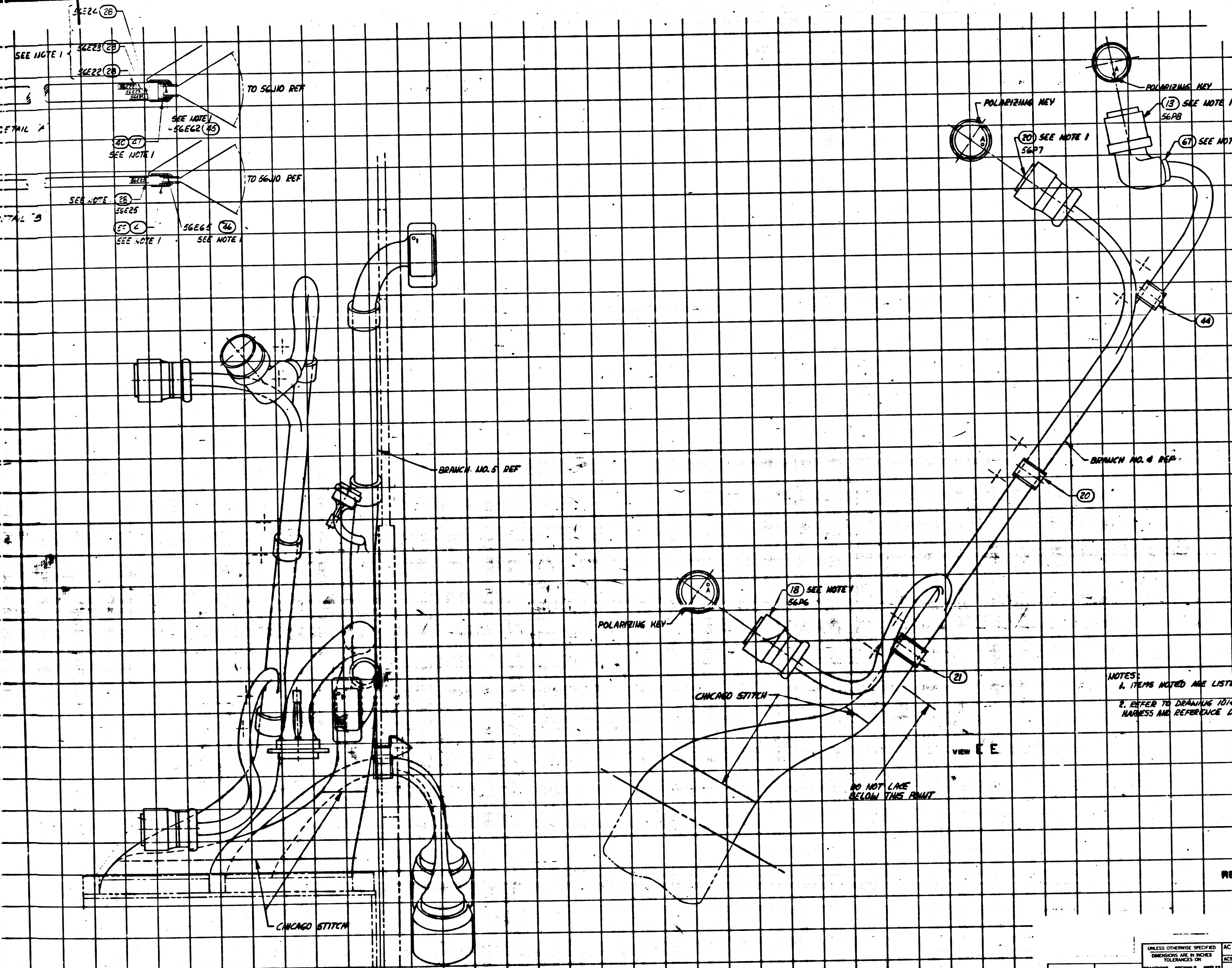
INCHES
PHOTOGRAPHIC SCALE ONLY

F2


56P2
CHICAGO STITCH
56J5
PARTIAL VIEW J J
BRANCH NO.3 REF
PARTIAL VIEW K K
56P3
56P5
56J8
56J6
27 SEE NOTE 1
56E20
27 SEE NOTE 1
56E19
44
27 SEE NOTE 1
56E55
7 SEE NOTE 1
56J8
7 SEE NOTE 1
56J6
16
15
14
13
12
11
10
9
8

1014606 SHT 3

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
L	—	REPLACES REV. K WITH CHANGE PER TORR 13749	—	3 AUG 64	JWP


56E24 (28)
SEE NOTE 1
56E23 (28)
56E22 (28)
56E22
56E23
56E24
TO 56J10 REF
SEE NOTE 1
-56E62 (45)
DETAIL A
40 (47)
SEE NOTE 1
56E25
TO 56J10 REF
SEE NOTE 1 (26)
56E25
DETAIL B
56E65 (46)
SEE NOTE 1
56 (4)
SEE NOTE 1
POLARIZING KEY
(13) SEE NOTE 1
56P8
POLARIZING KEY
(20) SEE NOTE 1
56P7
(67) SEE NOTE 1
(44)
BRANCH NO. 5 REF
BRANCH NO. 4 REF
(20)
(18) SEE NOTE 1
56P6
POLARIZING KEY
(21)
CHICAGO STITCH
VIEW E E
DO NOT LACE BELOW THIS POINT
CHICAGO STITCH

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605.
2. REFER TO DRAWING 1014603 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

REPLACES REV 'K' WITH CHANGE

1015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
±	±	±

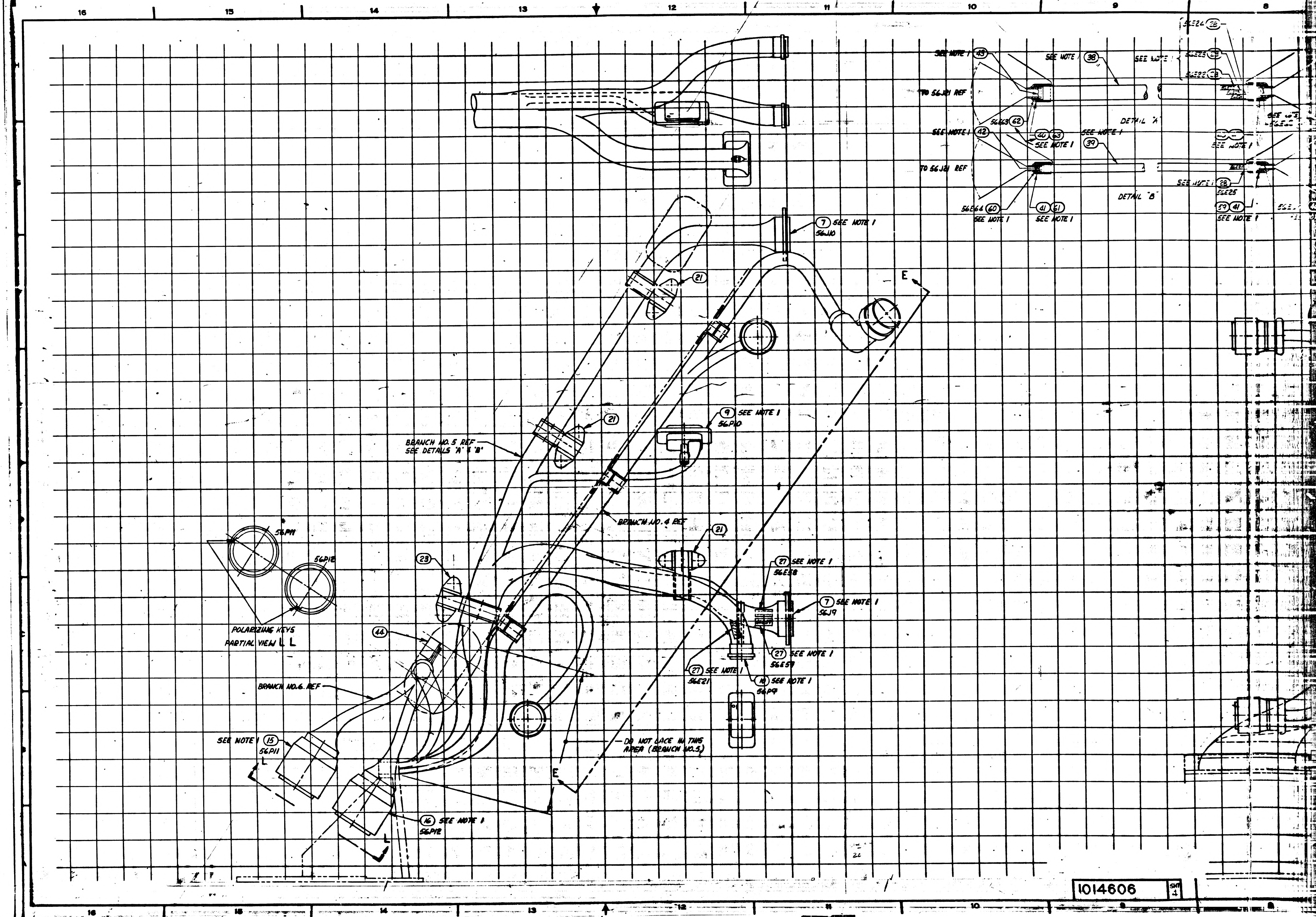
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN [illegible] DATE 22 JUN 64
CHECKED J. GRIEB 23 JUN 64
APPROVAL Robert [illegible] 23 JUN 64
APPROVAL [illegible] 24 JUN 64
NASA APPROVAL W. J. [illegible] 9-15-64
MIT APPROVAL [illegible]

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

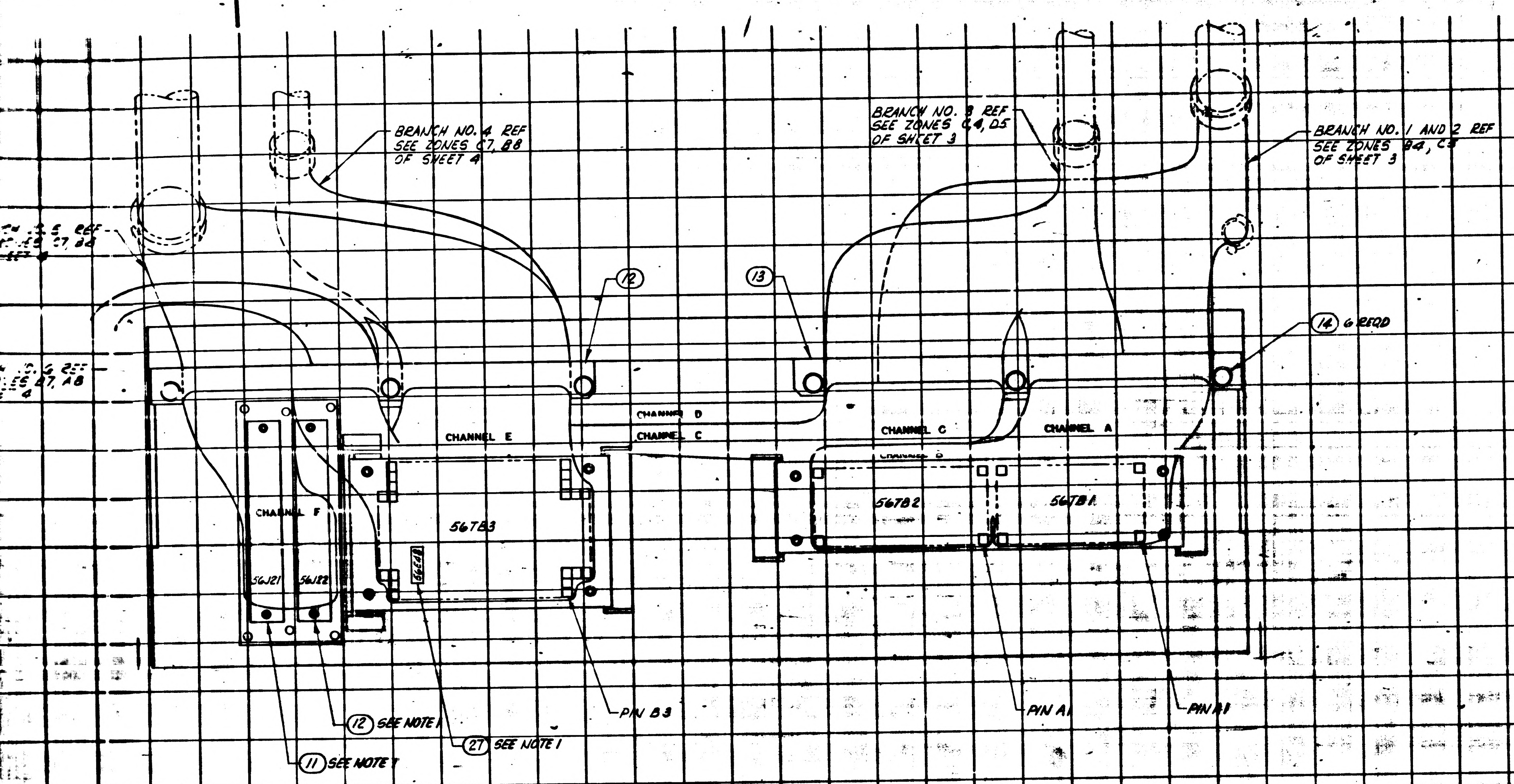
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO. | SIZE | 1014606
SCALE 1:1 | SHEET 4 OF 6

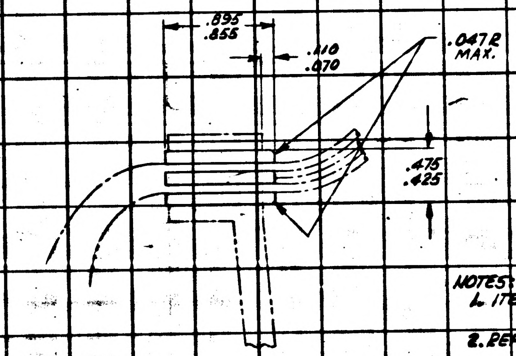

16
15
14
13
12
11
10
9
8
SEE NOTE 1 (43)
TO 56J21 REF
SEE NOTE 1 (38)
SEE NOTE 1
56E24 (28)
56E23 (28)
56E22 (28)
56E63 (62)
DETAIL "A"
SEE NOTE 1 (42)
(40) (63)
SEE NOTE 1
SEE NOTE 1 (39)
SEE NOTE 1
TO 56J21 REF
DETAIL "B"
SEE NOTE 1 (28)
56E25
56E64 (60)
SEE NOTE 1
(41) (61)
SEE NOTE 1
(57) (41)
SEE NOTE 1
(7) SEE NOTE 1
56J10
E
(21)
(21)
(9) SEE NOTE 1
56P10
BRANCH NO. 5 REF
SEE DETAILS "A" & "B"
BRANCH NO. 4 REF
(21)
56P11
56P12
(23)
(27) SEE NOTE 1
56E58
(7) SEE NOTE 1
56J9
POLARIZING KEYS
PARTIAL VIEW L L
(44)
(27) SEE NOTE 1
56E57
(27) SEE NOTE 1
56E21
(10) SEE NOTE 1
56P9
BRANCH NO.6 REF
DO NOT LACE IN THIS
AREA (BRANCH NO.5)
SEE NOTE 1 (15)
56P11
L
E
(16) SEE NOTE 1
56P12
L

1014606 SHT 4

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO.	DATE	APPD.
L		REPLACES REV "K" WITH CHANGE PER TORR 12249	—	3 AUG 64	JWF



BRANCH NO. 4 REF SEE ZONES C7, B8 OF SHEET 4
BRANCH NO. 3 REF SEE ZONES C4, D5 OF SHEET 3
BRANCH NO. 1 AND 2 REF SEE ZONES B4, C5 OF SHEET 3
REF ZONES C7, B8 SHEET 4
REF ZONES B7, A8 SHEET 4
12
13
14 6 REQD
CHANNEL E
CHANNEL D
CHANNEL C
CHANNEL C
CHANNEL A
CHANNEL F
56J21
56J22
56TB3
56E48
56TB2
56TB1
PIN B3
PIN A1
PIN A1
12 SEE NOTE 1
27 SEE NOTE 1
11 SEE NOTE 1



.895
.855
.110
.070
.047R MAX.
.475
.425

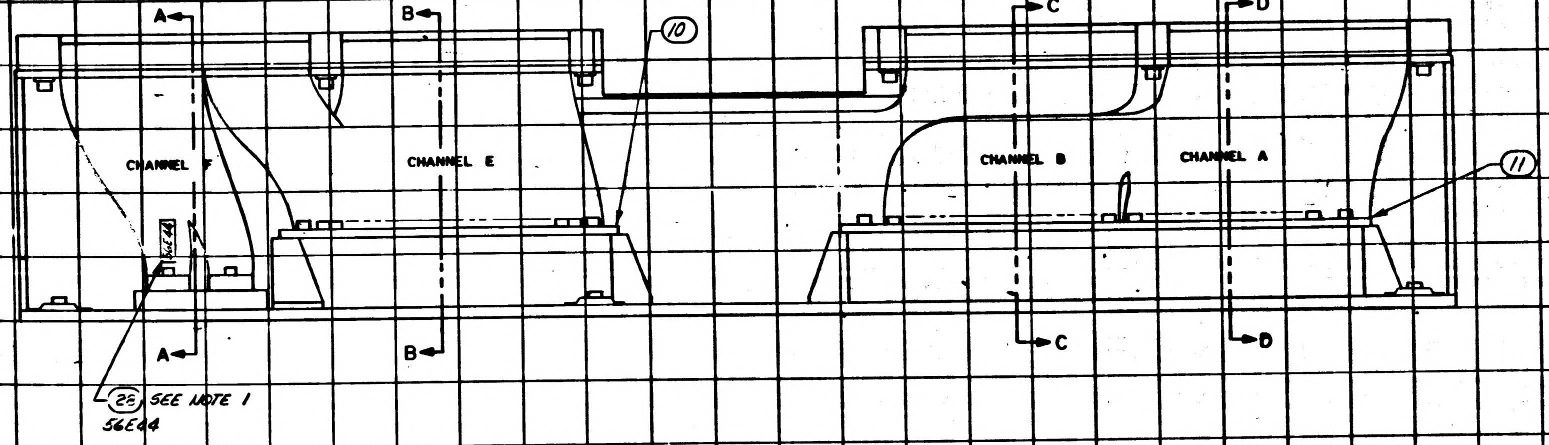
VIEW MM
SCALE: 2:1

SEE NOTE 3

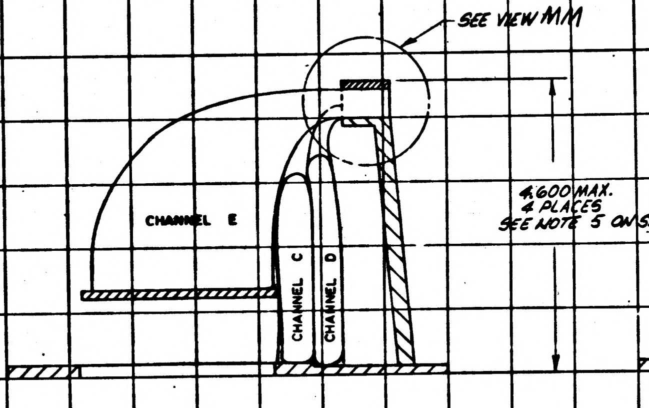
NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605.

2. REFER TO DRAWING 1014605 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

3. ASSEMBLE AND ENCAPSULATE IN ACCORDANCE WITH ATP 1014626 USING ITEM NO'S (50), (51) AND (52) PER ND1002009, METHOD 4.

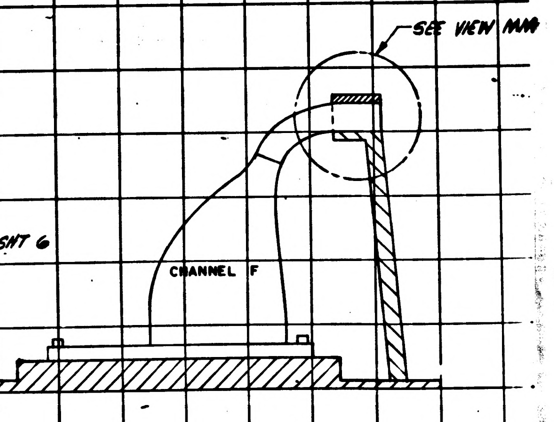


A
A
B
B
C
C
D
D
10
11
CHANNEL F
CHANNEL E
CHANNEL B
CHANNEL A
25 SEE NOTE 1
56E44



SEE VIEW MM
CHANNEL E
CHANNEL C
CHANNEL D
4.600 MAX. 4 PLACES SEE NOTE 5 ON SHT 6

SECTION BB



SEE VIEW MM
CHANNEL F

SECTION AA

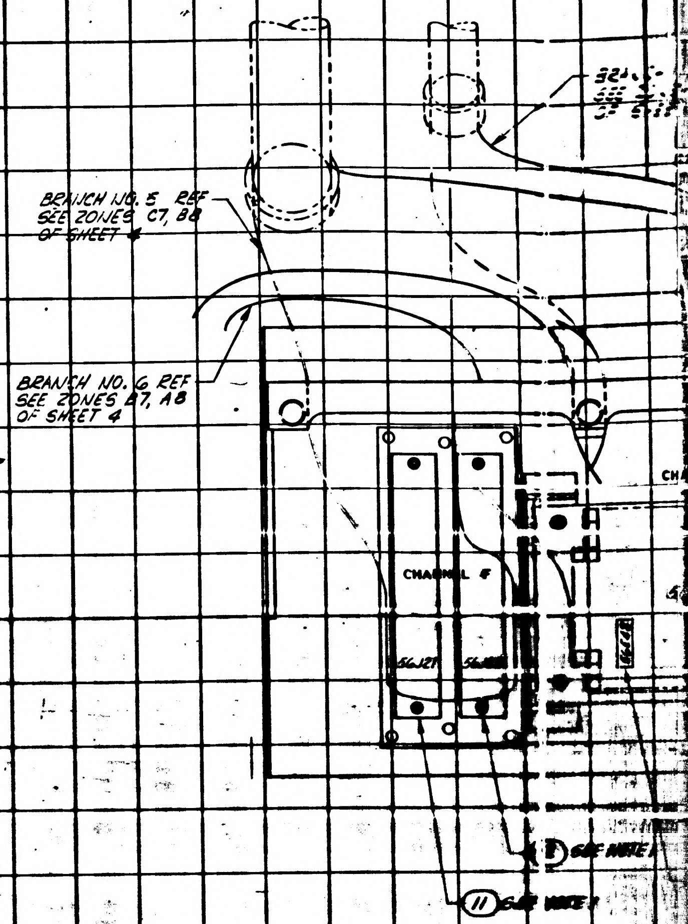
REPLACES REV K WITH CHANGE

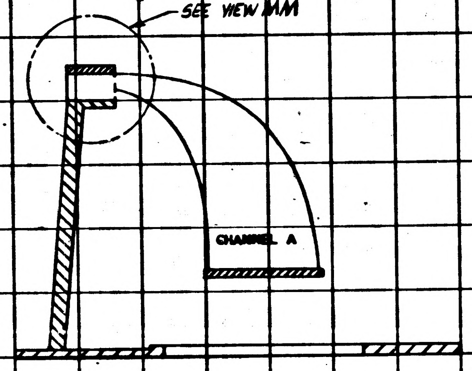
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± — DECIMALS ± — ANGLES ± —	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DO NOT SCALE THIS DRAWING	ACSP PN		AGE HARNESS AND PSA END CONNECTOR ASSEMBLY	
	DRAWN John A. Kaudawski DATE 20 Jun 64			
	CHECKED J. GRIEB 23 JUN 64			
	APPROVAL Robert A. Lohne 23 Jun 64			
	APPROVAL A. Fidel 24 Jun 64			
MATERIAL	NASA APPROVAL W. J. Rothman 9-15-64		CODE IDENT NO.	SIZE J2 · 1014606
CONTRACT NAS 9-497	MIT APPROVAL D. Walsh 9/15/64		SCALE 1:1	SHEET 5 OF 6

NEXT ASSY	USED ON
1015000	
APPLICATION	

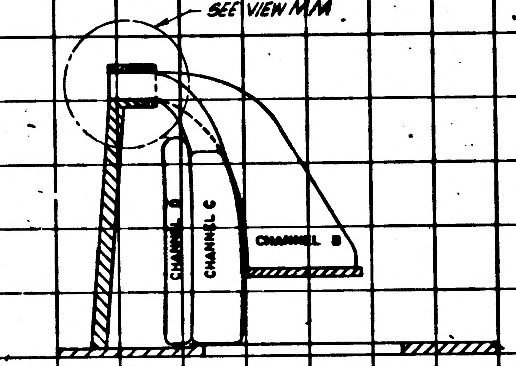
1014606 SHT 5

F3

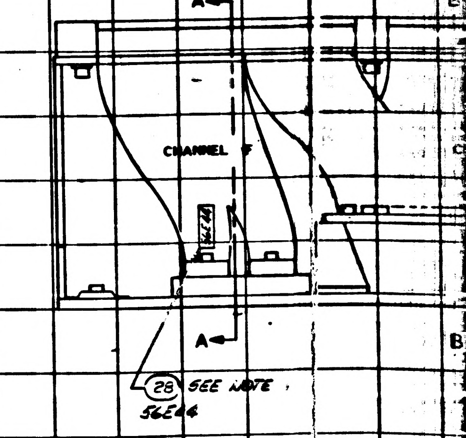

BRANCH NO. 5 REF
SEE ZONES C7, B8
OF SHEET 4
BRANCH NO. 6 REF
SEE ZONES B7, A8
OF SHEET 4
CHANNEL F
56J27
11 SEE NOTE


SEE VIEW MM
CHANNEL A

SECTION D D

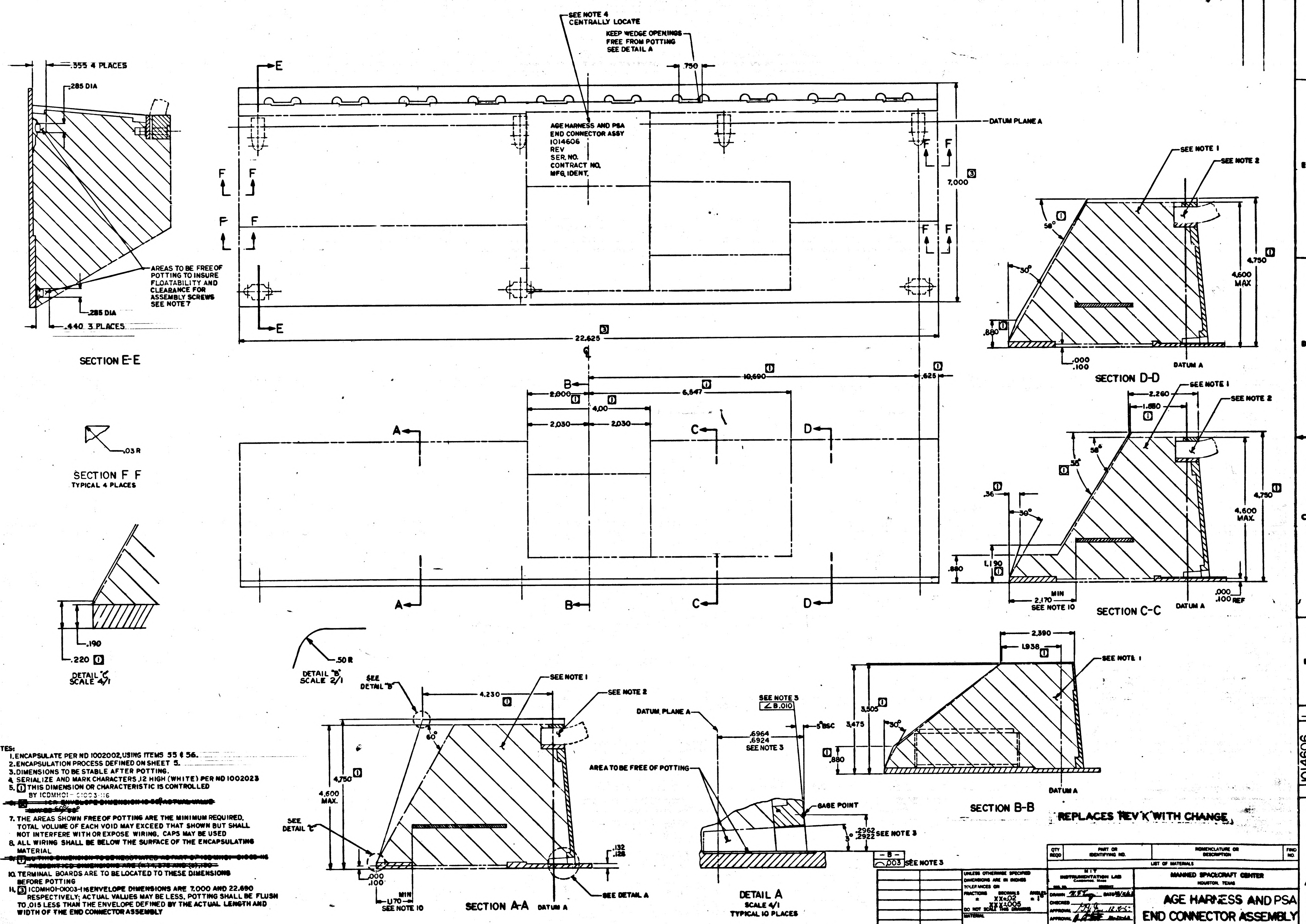

SEE VIEW MM
CHANNEL B
CHANNEL C
CHANNEL B

SECTION C C


A
A
CHANNEL F
56E44
28 SEE NOTE
56E44
B
B

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

SYM	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV. "K" WITH CHANGE PER TDRR 12749	3 AUG 64	JWP



SEE NOTE 4
CENTRALLY LOCATE
KEEP WEDGE OPENINGS FREE FROM POTTING SEE DETAIL A
.750
.355 4 PLACES
.285 DIA
AGE HARNESS AND PSA
END CONNECTOR ASSY
1014606
REV
SER. NO.
CONTRACT NO.
MFG. IDENT.
DATUM PLANE A
7,000 3
AREAS TO BE FREE OF POTTING TO INSURE FLOATABILITY AND CLEARANCE FOR ASSEMBLY SCREWS SEE NOTE 7
.285 DIA
.440 3 PLACES
22.625 3
SECTION E-E
E
F
SEE NOTE 1
SEE NOTE 2
58°
30°
4.750 1
4.600 MAX
.880 1
.000
.100
DATUM A
SECTION D-D
B
10.690 1
.625 1
2.000 1
6.547 1
4.00 1
2.030
2.030
A
C
D
.03R
SECTION F F
TYPICAL 4 PLACES
2.260
1.680 1
SEE NOTE 1
SEE NOTE 2
58°
55° 1
.36
30°
4.750 1
4.600 MAX.
.880
1.190 1
MIN
2.170
SEE NOTE 10
.000
.100 REF
DATUM A
SECTION C-C
.190
.220 1
DETAIL "C"
SCALE 4/1
.50R
DETAIL "B"
SCALE 2/1
SEE DETAIL "B"
4.230 1
SEE NOTE 1
SEE NOTE 2
60°
4.750 1
4.600 MAX.
SEE DETAIL "C"
.000
.100
MIN
1.170
SEE NOTE 10
.132
.125
SEE DETAIL A
SECTION A-A
DATUM A
SEE NOTE 3
∠B .010
DATUM PLANE A
.6964
.6924
SEE NOTE 3
.5 BSC
AREA TO BE FREE OF POTTING
GAGE POINT
3°
.2962
.2922
SEE NOTE 3
-B-
⌒.003 SEE NOTE 3
DETAIL A
SCALE 4/1
TYPICAL 10 PLACES
2.390
1.938 1
SEE NOTE 1
3.505 1
3.475
30°
.880 1
DATUM A
SECTION B-B

NOTES:
1. ENCAPSULATE PER ND 1002002, USING ITEMS 55 & 56.
2. ENCAPSULATION PROCESS DEFINED ON SHEET 5.
3. DIMENSIONS TO BE STABLE AFTER POTTING.
4. SERIALIZE AND MARK CHARACTERS .12 HIGH (WHITE) PER ND 1002023
5. 1 THIS DIMENSION OR CHARACTERISTIC IS CONTROLLED BY ICDMH01-01003-116
~~6. 2 ICD ENVELOPE DIMENSION IS 58°ACTUAL VALUE MAY BE 60%58°~~
7. THE AREAS SHOWN FREE OF POTTING ARE THE MINIMUM REQUIRED. TOTAL VOLUME OF EACH VOID MAY EXCEED THAT SHOWN BUT SHALL NOT INTERFERE WITH OR EXPOSE WIRING. CAPS MAY BE USED
8. ALL WIRING SHALL BE BELOW THE SURFACE OF THE ENCAPSULATING MATERIAL
~~9. 1 THIS DIMENSION TO BE NEGOTIATED AS PART OF ICD MH01-01003-116 PRESENT ICD DIMENSIONS ARE (A) 4,375 AND (B) .190~~
10. TERMINAL BOARDS ARE TO BE LOCATED TO THESE DIMENSIONS BEFORE POTTING
11. 3 ICDMH01-01003-116 ENVELOPE DIMENSIONS ARE 7.000 AND 22.690 RESPECTIVELY; ACTUAL VALUES MAY BE LESS. POTTING SHALL BE FLUSH TO .015 LESS THAN THE ENVELOPE DEFINED BY THE ACTUAL LENGTH AND WIDTH OF THE END CONNECTOR ASSEMBLY

REPLACES REV K WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS XX±.02 XXX±.005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE, MASS
DRAWN H.F. [illegible] DATE 10/4/63
CHECKED
APPROVAL [illegible] 12-10-63
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO. 1014606
SCALE
WT
SHEET 6 OF 6

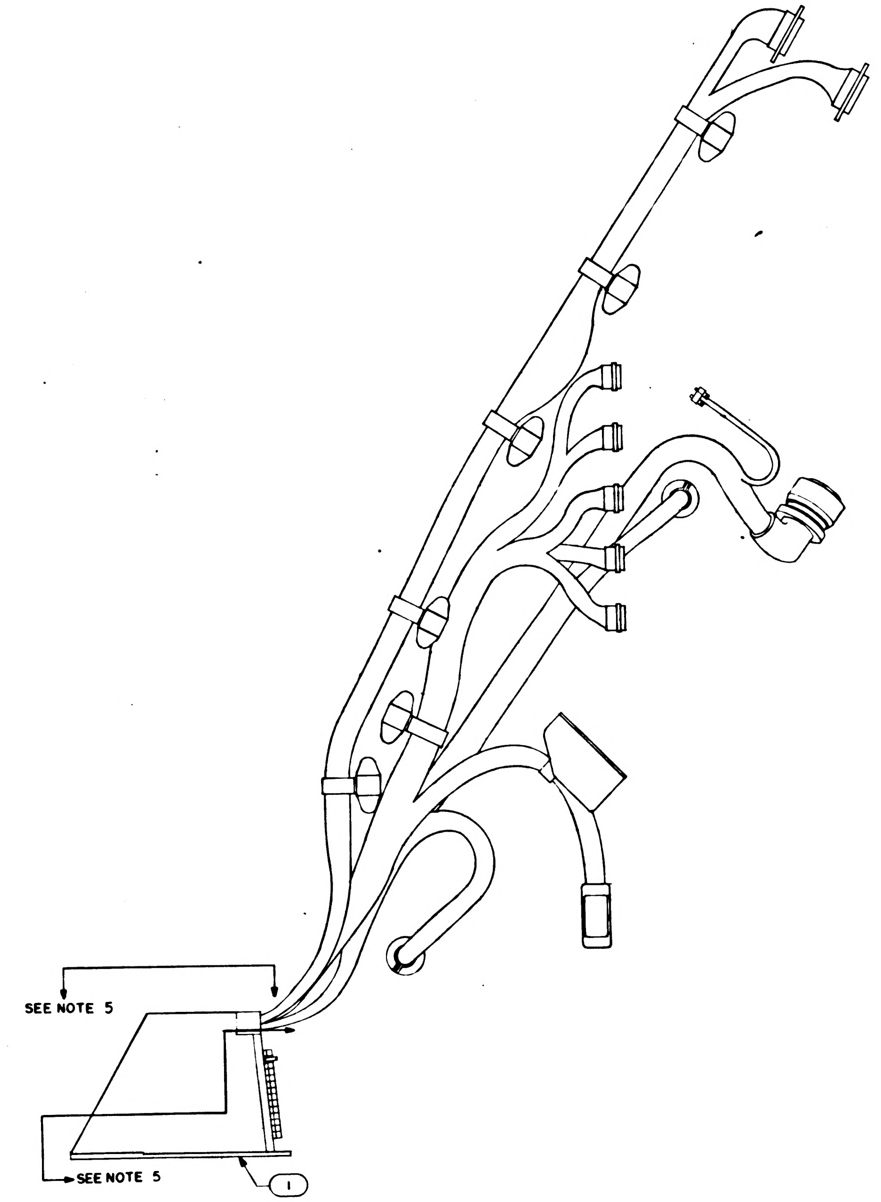
1014606 L

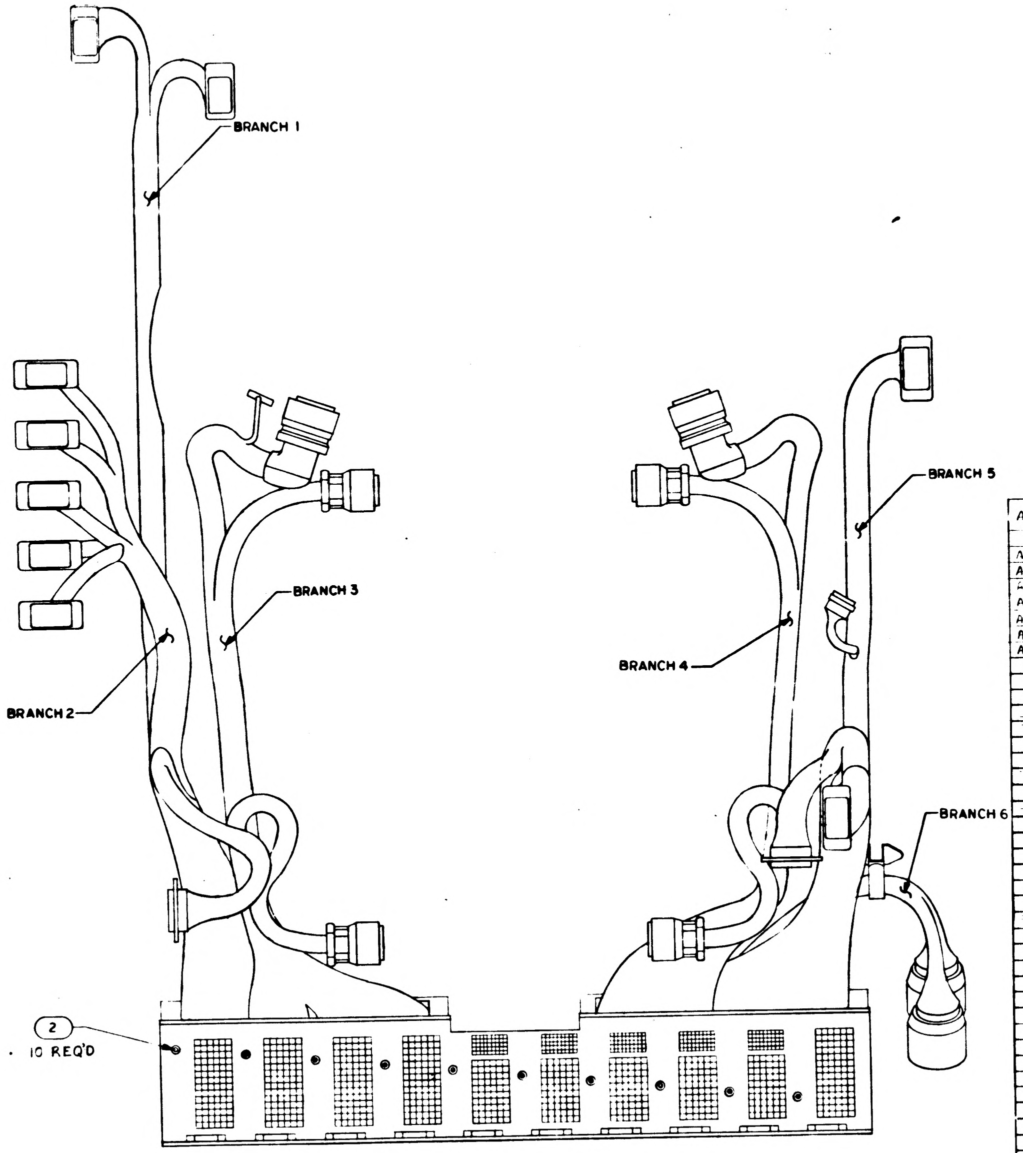
MASTER

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV. K WITH CHANGE PER TDRR 12749	5 AUG 64	JWP
		22 Aug 64	WR
M	REVISED PER TDRR 13300	19 Oct 64	JWP





NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MAXIMUM ENVELOPE AND "E" POINTS FOR ITEM NO. 49 WIRE LIST ARE SHOWN ON SHEET 2 OF THIS DRAWING.
3. BRANCHES 1, 2 AND 3 OF ITEM NO. 48 HARNESS CONFIGURATION ARE SHOWN ON SHEET 3 OF THIS DRAWING.
4. BRANCHES 4, 5 AND 6 OF ITEM NO. 48 HARNESS CONFIGURATION ARE SHOWN ON SHEET 4 OF THIS DRAWING.
5. MARRIAGE CONFIGURATION OF ITEM 48 AND 49 SHOWN ON SHEET 5 OF THIS DRAWING.
6. ENCAPSULATION ENVELOPE IS SHOWN ON SHEET 6 OF THIS DRAWING.
7. MOUNTING TORQUE FOR FIND NO. 2 IS 6.5 IN/LBS.
8. INTERCONNECTION LIST OF AGE HARNESS AND END CONNECTOR ASSEMBLY IS DRAWING NO. 1014607
9. INTERCONNECTION DIAGRAM - APOLLO GUIDANCE EQUIPMENT C/M, LOWER EQUIPMENT BAY IS DRAWING NO. 1014523.
10. ASSEMBLE AND TEST PER ATP 1014606.
11. GRID MODULE ON SHEETS 3, 4 AND 5 IS 1 INCH TRUE POSITION.
12. UNLESS OTHERWISE SPECIFIED:
    FEATURE CENTERLINES ON SHEETS 3, 4, AND 5 ARE LOCATED WITHIN ±.25 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN ±.12 INCH.

REPLACES REV'K' WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	MIL-I-631	INSULATION MATERIAL, TYPE G, FORM S, CLASS I, 0.005 THICK X 6 IN. X 36 IN. (ES-2749)	58
			57
AR	1010679	ADHESIVE ACTIVATOR	56
AR	1010661	EPOXY, RESIN	55
AR	1006835	AGENT, CURING	54
AR	1006834	COMPOUND, SILICONE RUBBER	53
AR	1006722	THINNER, SILICONE	52
AR	1006721	AGENT, CURING	51
AR	1006720	COMPOUND, SILICONE RUBBER	50
1	1014608	WIRE LIST "A A"	49
1	1014605	WIRING HARNESS "A"	48
~~1~~	~~1010642-144~~	~~CONNECTOR PLUG ELEC.~~	47
~~1~~	~~1010674-1~~	~~CONNECTOR PLUG ELEC.~~	46
~~1~~	~~1010674-2~~	~~CONNECTOR PLUG ELEC.~~	45
5	1010400-1	CLAMP, LOOP, HINGED	44
~~1~~	~~1010674-4~~	~~CONNECTOR PLUG ELEC.~~	43
~~1~~	~~1010348-1~~	~~CONNECTOR PLUG ELEC.~~	42
~~1~~	~~1010674-3~~	~~CONNECTOR PLUG ELEC.~~	41
~~1~~	~~1010348-2~~	~~CONNECTOR PLUG ELEC.~~	40
~~1~~	~~1000221~~	~~CONNECTOR RECP. ELEC.~~	39
1	AN345C10	NUT, PLAIN HEX	38
1	1014609	BRACKET, CLAMP	37
1	1010705-8	CLAMP, LOOP	36
~~5~~	~~1010411-2~~	~~CONNECTOR RECP. ELEC.~~	35
1	1010400-7	CLAMP, LOOP, HINGED	34
~~2~~	~~1000242-21~~	~~FERRULE, OUTER ELEC. COND.~~	33
~~2~~	~~1000242-30~~	~~FERRULE, OUTER ELEC. COND.~~	32
~~2~~	~~1000243-26~~	~~FERRULE, INNER ELEC. COND.~~	31
~~2~~	~~1000243-34~~	~~FERRULE, INNER ELEC. COND.~~	30
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	29
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	28
~~2~~	~~1010490-222~~	~~INSULATION SLEEVING, HEAT SHRINK~~	27
~~2~~	~~1010490-216~~	~~INSULATION SLEEVING, HEAT SHRINK~~	26
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	25
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	24
1	1010400-8	CLAMP, LOOP HINGED	23
~~1~~	~~1010400-4~~	~~CLAMP, LOOP, HINGED~~	22
3	1010400-3	CLAMP, LOOP, HINGED	21
1	1010400-2	CLAMP, LOOP, HINGED	20
~~1~~	~~1010671-2~~	~~CONNECTOR PLUG ELEC.~~	19
~~1~~	~~1010671-1~~	~~CONNECTOR PLUG ELEC.~~	18
~~2~~	~~1010607-3~~	~~CONNECTOR RECP. ELEC.~~	17
~~1~~	~~1010607-1~~	~~CONNECTOR RECP. ELEC.~~	16
~~4~~	~~1010411-1~~	~~CONNECTOR RECP. ELEC.~~	15
6	1006783-47	SCREW BUTTON HEAD	14
1	1008164	CABLE CLAMP LEFT	13
1	1008165	CABLE CLAMP RIGHT	12
1	1008148	CONN PLATE ASSY (264 PINS)	11
1	1008149	CONN PLATE ASSY (293 PINS)	10
3	MS35649-44	NUT	9
1	1010618-13	SCREW BUTTON HEAD	8
3	1010618-14	SCREW BUTTON HEAD	7
4	MS35335-57	WASHER, LOCK, FLAT, EXTERNAL TOOTH	6
~~1~~	~~1010642-244~~	~~CONNECTOR PLUG ELEC.~~	5
8	MS16995-17	SCREW HEX SOCKET HD	4
4	MS16995-10	SCREW, HEX SOCKET HD	3
10	1008163	PIN, LOCATING	2
1	1007161	END CONNECTOR ASSEMBLY PSA	1

LIST OF MATERIALS

1014606 M

NEXT ASSY	USED ON
1015000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

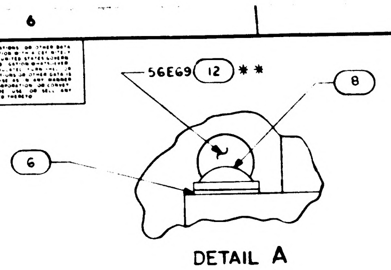
MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO
CONTRACT
DRAWN J. Falzone DATE 5 DEC 63
CHECKED
APPROVAL 12-20-63
APPROVAL 12-20-63
NASA APPROVAL W. J. Rhine 12-30-63
MIT APPROVAL 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

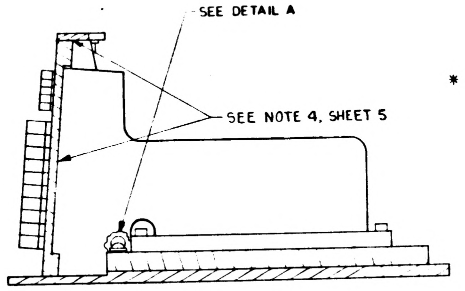
AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014606
SCALE 1/2
WT
SHEET 1 OF 6

	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV."K" WITH CHANGE PER TDRR 12749	3 AUG 64	JWP
		22 Sep 64	WK
M	REVISED PER TDRR 13300	19 OCT 64	JWP

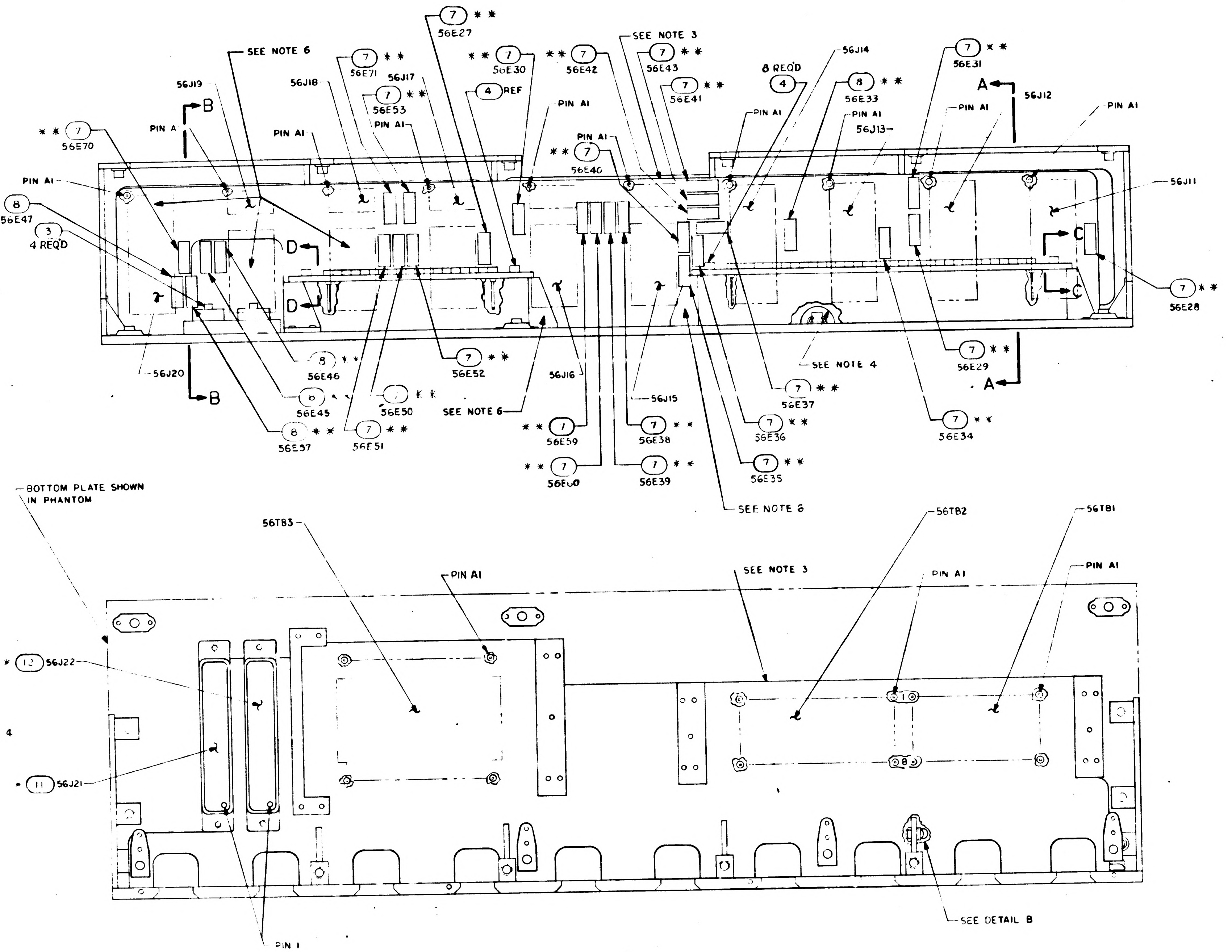


DETAIL A
SCALE 4/1

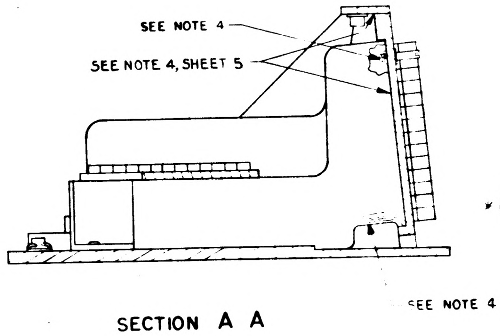


SEE DETAIL A
SEE NOTE 4, SHEET 5

SECTION B B

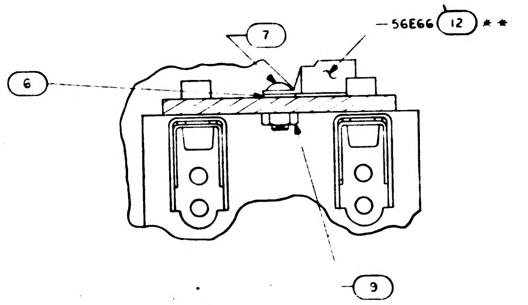


(7) * *
56E27
SEE NOTE 6
(7) * *
56E71
56J17
(7) * *
56E53
PIN A1
* * (7)
56E30
(4) REF
* * (7)
56E42
SEE NOTE 3
(7) * *
56E43
(7) * *
56E41
8 REQ'D
(4)
56J14
(8) * *
56E33
PIN A1
56J13
(7) * *
56E31
A
56J12
PIN A1
56J19
56J18
PIN A
B
PIN A1
PIN A1
* * (7)
56E40
PIN A1
PIN A1
* * (7)
56E70
PIN A1
* * (8)
56E47
(3)
4 REQ'D
D
D
56J11
C
C
(7) * *
56E28
56J20
B
(8) * *
56E46
(8) * *
56E45
(7) * *
56E50
(8) * *
56E57
(7) * *
56E51
(7) * *
56E52
SEE NOTE 6
56J16
56J15
* * (7)
56E59
* * (7)
56E60
(7) * *
56E38
(7) * *
56E39
SEE NOTE 4
(7) * *
56E37
(7) * *
56E36
(7) * *
56E35
SEE NOTE 6
(7) * *
56E29
A
(7) * *
56E34
BOTTOM PLATE SHOWN IN PHANTOM
56TB3
PIN A1
SEE NOTE 3
56TB2
PIN A1
56TB1
PIN A1
* (12) 56J22
* (11) 56J21
PIN 1
SEE DETAIL B



SEE NOTE 4
SEE NOTE 4, SHEET 5
SEE NOTE 4

SECTION A A

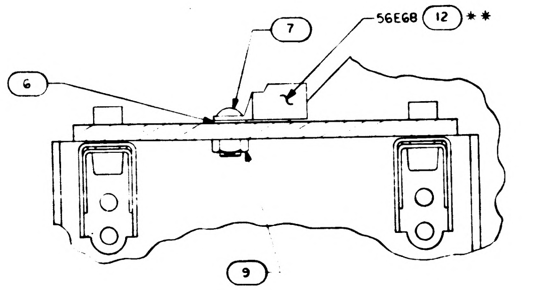


(7)
56E66 (12) * *
(6)
(9)

PARTIAL SECTION C C
SCALE 2/1

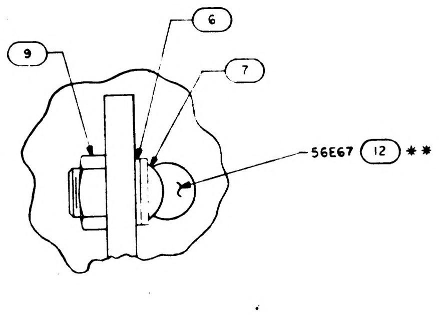
NOTES
1. * * PARTS ARE LISTED ON DWG 1014608
2. REFER TO DWG 1014608 FOR REFERENCE DESIGNATIONS AND WIRE LIST
3. OUTLINE SHOWS MAXIMUM ENVELOPE FOR WIRE LIST AA, 1014608
4. BEFORE WIRING, COVER THREADS AND OTHER SHARP EDGES WITH SILICON RUBBER PER ND1002009, METHOD B

5. * PARTS NOTED ARE LISTED ON DRAWING 1014605
6. PROTECT WIRING FROM SHARP EDGES USING ITEM 58



(7)
56E68 (12) * *
(6)
(9)

PARTIAL SECTION D D
SCALE 2/1



(9)
(6)
(7)
56E67 (12) * *

DETAIL B
SCALE 4/1

REPLACES REV"K" WITH CHANGE

1014606 M

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

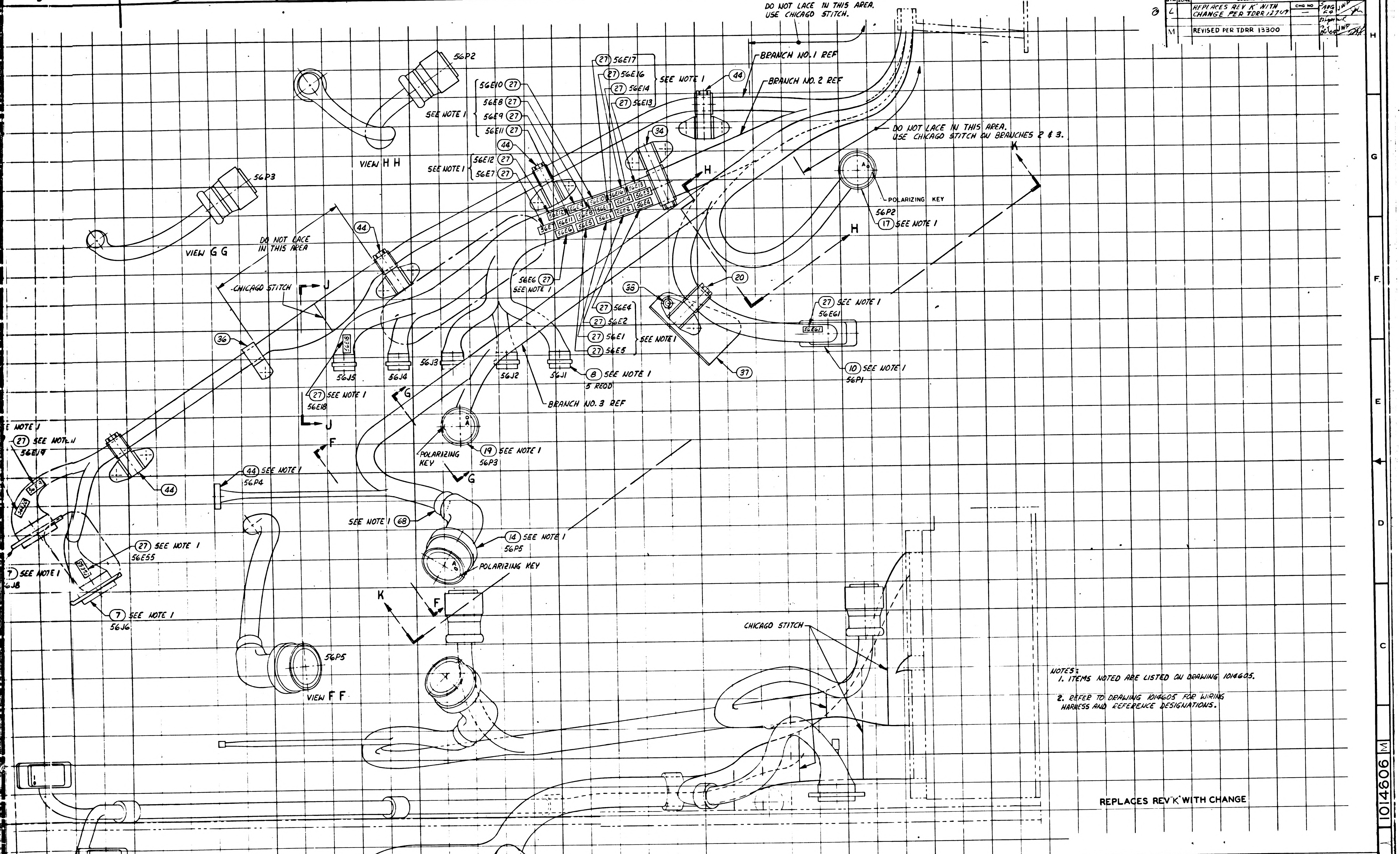
MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DOC NO CONTRACT
DRAWN Falzone DATE Dec 63
CHECKED
APPROVAL 12-26-63
APPROVAL 12-30-63
NASA APPROVAL 12-30-63
MIT APPROVAL 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014606
SCALE 1/1
WT
SHEET 2 OF 6

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV K WITH CHANGE PER TDRR 12749	—	5 AUG 64	JWP
				12 Aug 64	
M		REVISED PER TDRR 13300		19 OCT 64	JWP



DO NOT LACE IN THIS AREA. USE CHICAGO STITCH.
BRANCH NO. 1 REF
BRANCH NO. 2 REF
DO NOT LACE IN THIS AREA. USE CHICAGO STITCH ON BRANCHES 2 & 3.
56P2
VIEW H H
56P3
VIEW G G
DO NOT LACE IN THIS AREA
CHICAGO STITCH
56E10 27
56E8 27
56E9 27
56E11 27
SEE NOTE 1
27 56E17
27 56E16
27 56E14
27 56E13
SEE NOTE 1
44
34
56E12 27
56E7 27
SEE NOTE 1
H
K
POLARIZING KEY
56P2
17 SEE NOTE 1
44
56E6 27
SEE NOTE 1
J
36
38
20
27 SEE NOTE 1
56E61
27 56E4
27 56E2
27 56E1
27 56E5
SEE NOTE 1
37
10 SEE NOTE 1
56P1
56J5
56J4
56J3
56J2
56J1
8 SEE NOTE 1
5 REQD
BRANCH NO. 3 REF
27 SEE NOTE 1
56E18
G
F
SEE NOTE 1
27 SEE NOTE 1
56E19
44
44 SEE NOTE 1
56P4
POLARIZING KEY
19 SEE NOTE 1
56P3
SEE NOTE 1 68
14 SEE NOTE 1
56P5
POLARIZING KEY
27 SEE NOTE 1
56E55
7 SEE NOTE 1
56J8
7 SEE NOTE 1
56J6
56P5
VIEW F F
CHICAGO STITCH

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605.
2. REFER TO DRAWING 1014605 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

REPLACES REV K WITH CHANGE

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

NEXT ASSY	USED ON
1015000	
APPLICATION	

AC SPARK PLUG DIVISION, GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN DATE
CHECKED J. GRIEB 23 JUN 64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

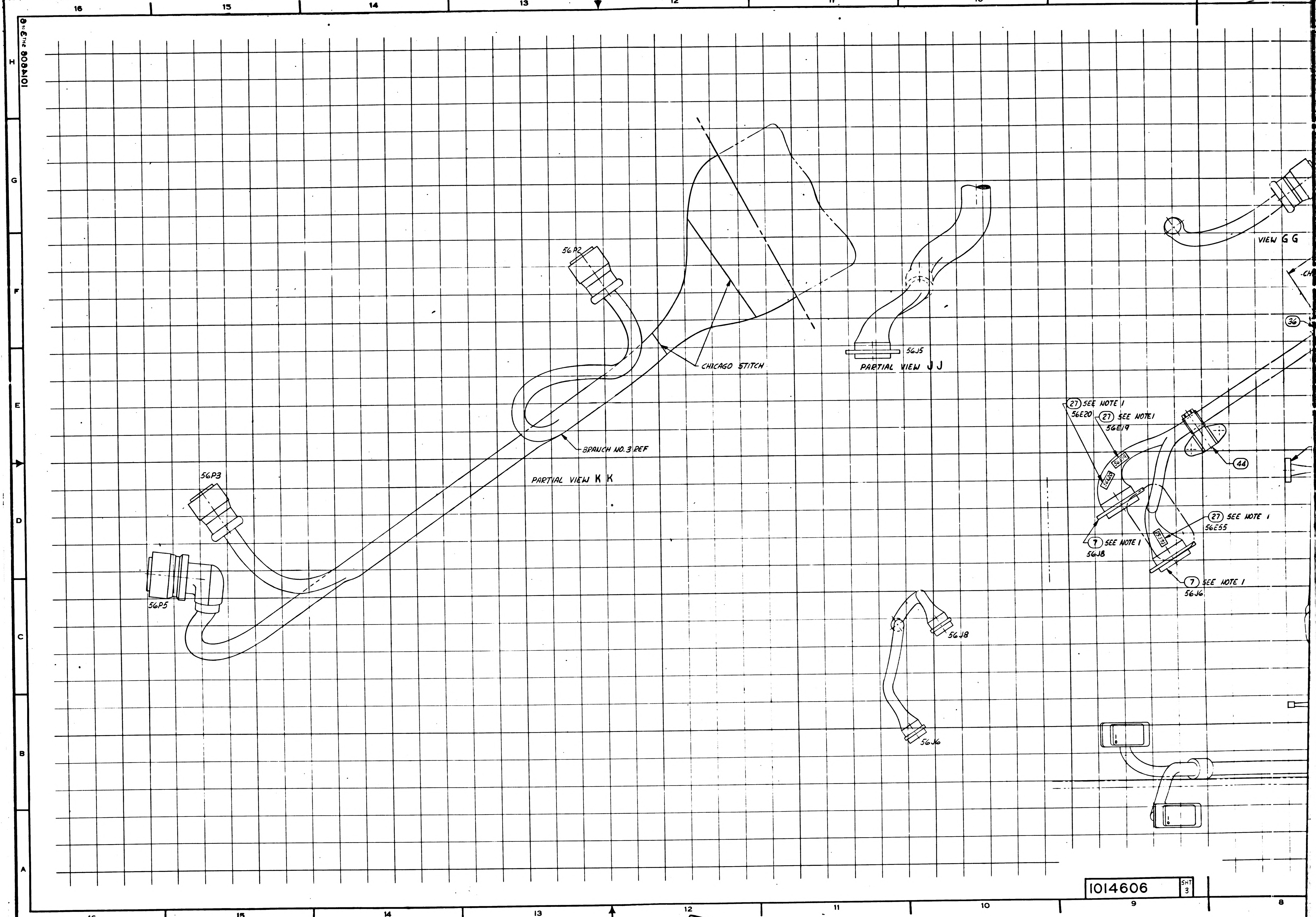
ASE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE J2
1014606
SCALE 1:1
SHEET

1014606 M

1014606 SHT 3

27101460 6

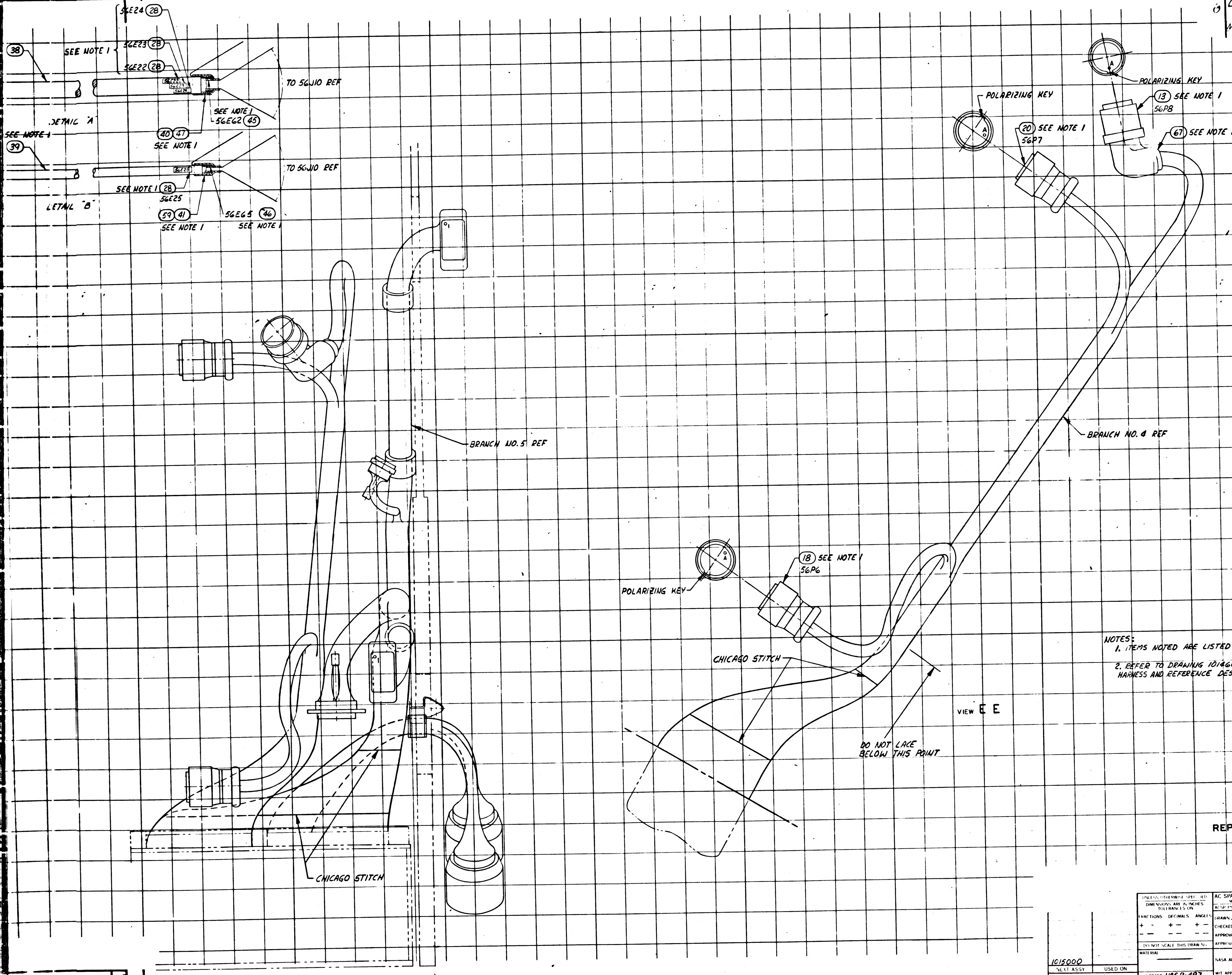


1014606 SHT 3 OF 8
56P2
CHICAGO STITCH
BRANCH NO. 3 REF
PARTIAL VIEW K K
56P3
56P5
56J5
PARTIAL VIEW J J
VIEW G G
36
27 SEE NOTE 1
56E20
27 SEE NOTE 1
56E19
44
27 SEE NOTE 1
56E55
7 SEE NOTE 1
56J8
7 SEE NOTE 1
56J6
56J8
56J6
16
15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A

1014606 SHT 3

1/1014606

			REVISIONS		
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV K WITH CHANGE PER TDRR 12749	—	3 AUG 64	JWP
		REVISED PER TDRR		22 Aug 64	
M		REVISED PER TDRR 13300		19 OCT 64	JWP



SEE NOTE 1
56E24 (28)
56E23 (28)
56E22 (28)
(38)
TO 56J10 REF
SEE NOTE 1
56E62 (45)
DETAIL "A"
(40) (47)
SEE NOTE 1
~~SEE NOTE 1~~
(39)
TO 56J10 REF
SEE NOTE 1 (28)
56E25
DETAIL "B"
(59) (41)
SEE NOTE 1
56E65 (46)
SEE NOTE 1
BRANCH NO. 5 REF
CHICAGO STITCH
POLARIZING KEY
(20) SEE NOTE 1
56P7
POLARIZING KEY
(13) SEE NOTE 1
56P8
(67) SEE NOTE 1
BRANCH NO. 4 REF
POLARIZING KEY
(18) SEE NOTE 1
56P6
CHICAGO STITCH
DO NOT LACE BELOW THIS POINT
VIEW E E

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605.
2. REFER TO DRAWING 1014605 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

REPLACES REV K WITH CHANGE

1015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 22 JUN 64
CHECKED J. GRIEB 23 JUN 64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

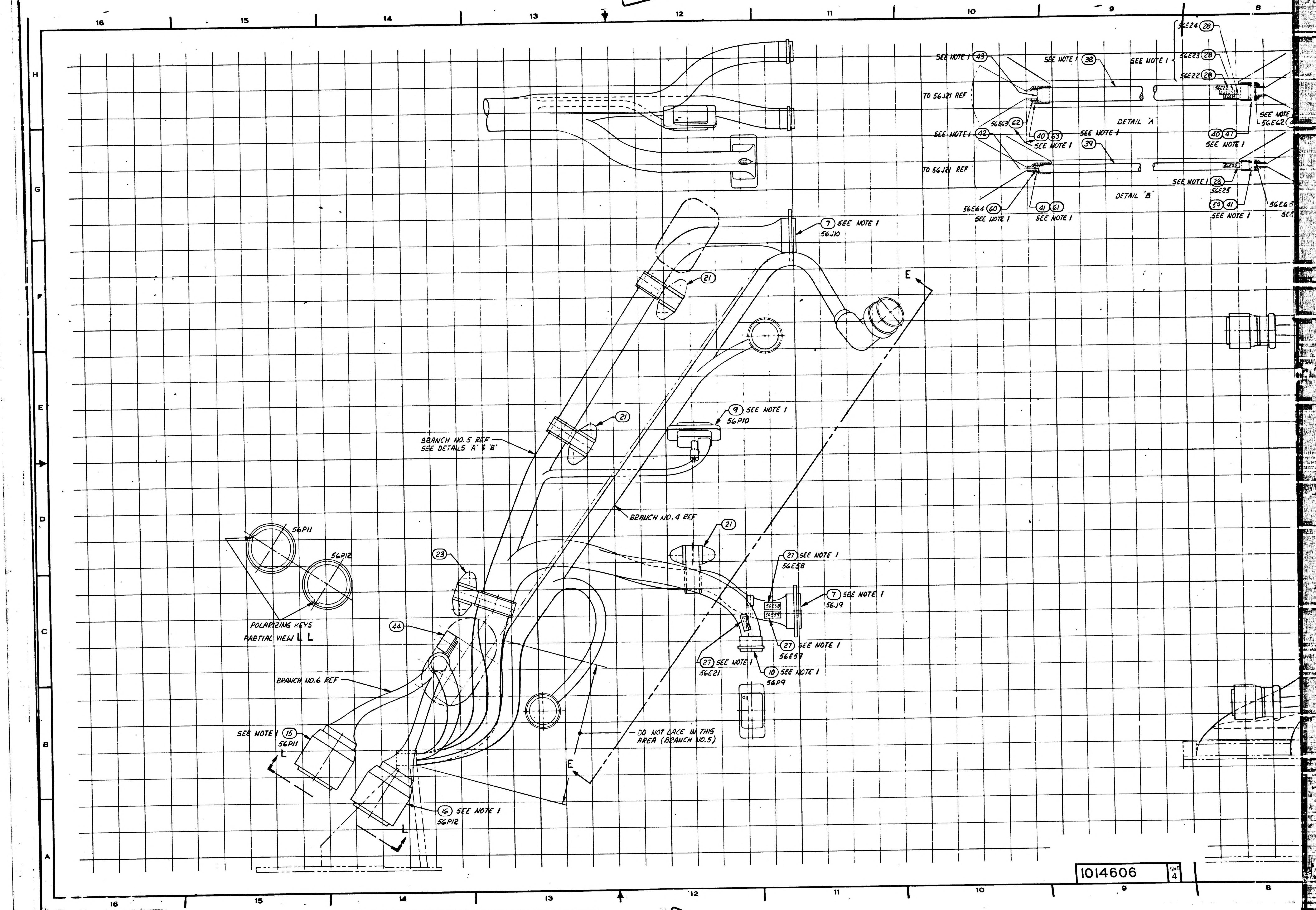
AGE HARNESS AND PSA END
CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE
1014606
SCALE 1:1
SHEET 4 OF 6

1014606 M

014606 SHT 4

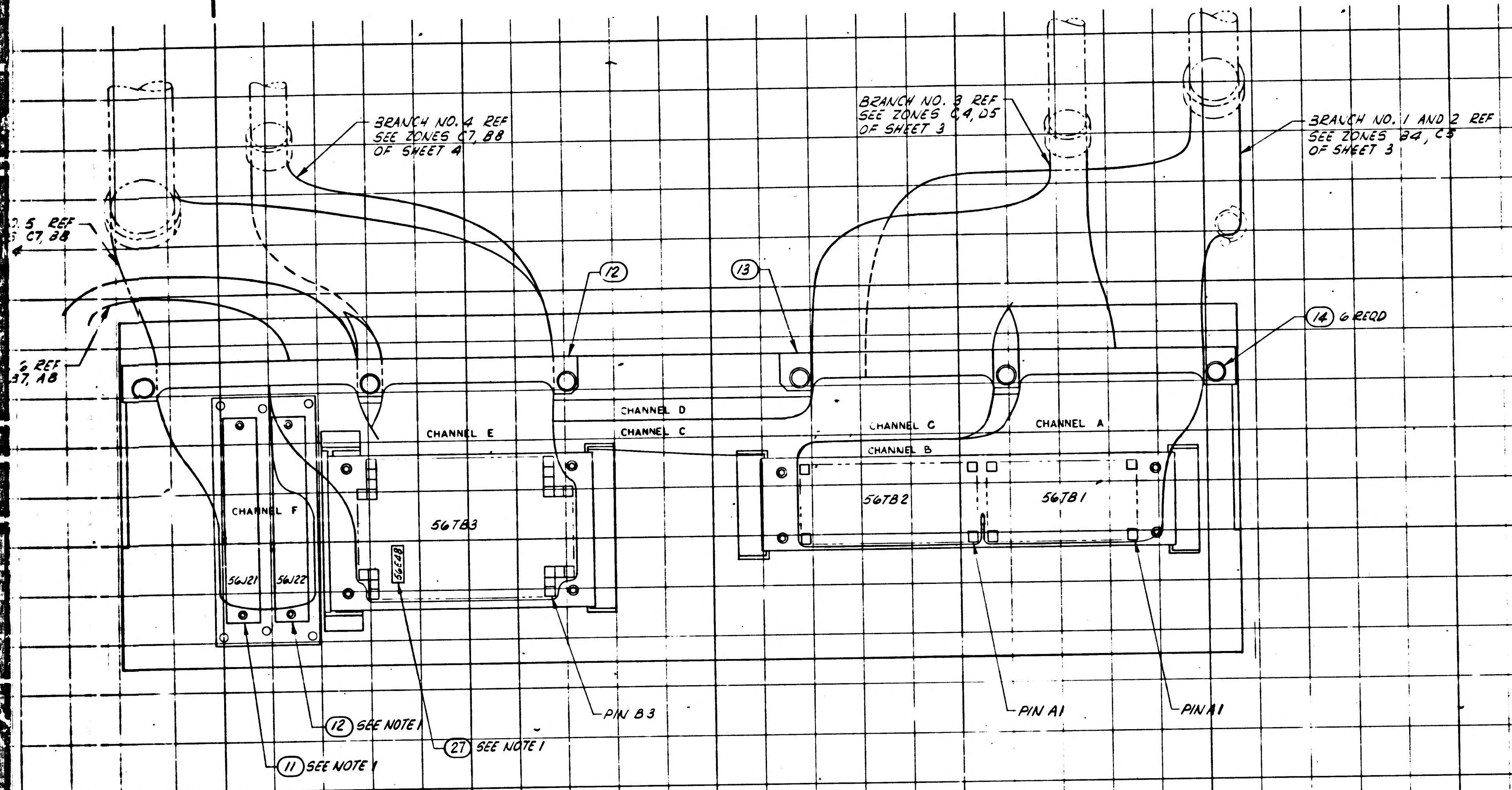
2/1014606


16
15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A
56E24 (28)
56E23 (28)
56E22 (28)
SEE NOTE 1 (43)
SEE NOTE 1 (38)
SEE NOTE 1
TO 56J21 REF
56E22
56E23
56E24
SEE NOTE
56E62
56E63 (62)
(40) (63)
SEE NOTE 1
SEE NOTE 1 (42)
SEE NOTE 1
(39)
DETAIL "A"
(40) (47)
SEE NOTE 1
TO 56J21 REF
56E25
SEE NOTE 1 (28)
56E25
DETAIL "B"
56E64 (60)
SEE NOTE 1
(41) (61)
SEE NOTE 1
(59) (41)
SEE NOTE 1
56E65
SEE
(7) SEE NOTE 1
56J10
(21)
E
(21)
(9) SEE NOTE 1
56P10
BRANCH NO. 5 REF
SEE DETAILS "A" & "B"
BRANCH NO. 4 REF
(21)
56P11
56P12
POLARIZING KEYS
PARTIAL VIEW L L
(23)
(27) SEE NOTE 1
56E58
(7) SEE NOTE 1
56J9
56E58
56E59
(44)
(27) SEE NOTE 1
56E59
(27) SEE NOTE 1
56E21
(10) SEE NOTE 1
56P9
BRANCH NO. 6 REF
DO NOT LACE IN THIS
AREA (BRANCH NO. 5)
SEE NOTE 1 (15)
56P11
L
E
(16) SEE NOTE 1
56P12
L

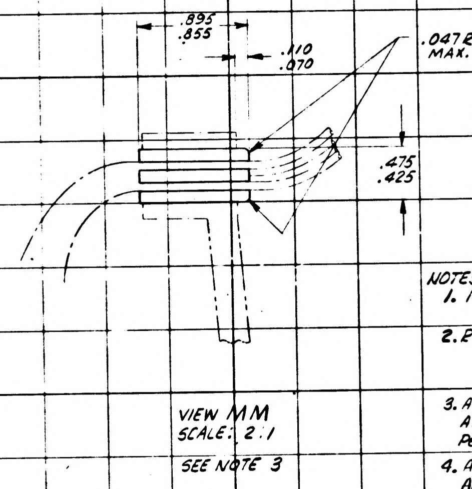
1014606 SHT 4

1/1014606

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV "K" WITH CHANGE PER TDRR 12749	—	AUG 64	JWP
M		REVISED PER TDRR 13300		OCT 69	JWP



.5 REF
C7, B8
6 REF
37, A8
BRANCH NO. 4 REF
SEE ZONES C7, B8
OF SHEET 4
BRANCH NO. 3 REF
SEE ZONES C4, D5
OF SHEET 3
BRANCH NO. 1 AND 2 REF
SEE ZONES B4, C5
OF SHEET 3
12
13
14 6 REQD
CHANNEL D
CHANNEL C
CHANNEL E
CHANNEL C
CHANNEL A
CHANNEL B
CHANNEL F
56TB3
56TB2
56TB1
56E48
56J21
56J22
PIN B3
PIN A1
PIN A1
12 SEE NOTE 1
27 SEE NOTE 1
11 SEE NOTE 1



.895
.855
.110
.070
.047 R
MAX.
.475
.425
VIEW MM
SCALE: 2:1
SEE NOTE 3

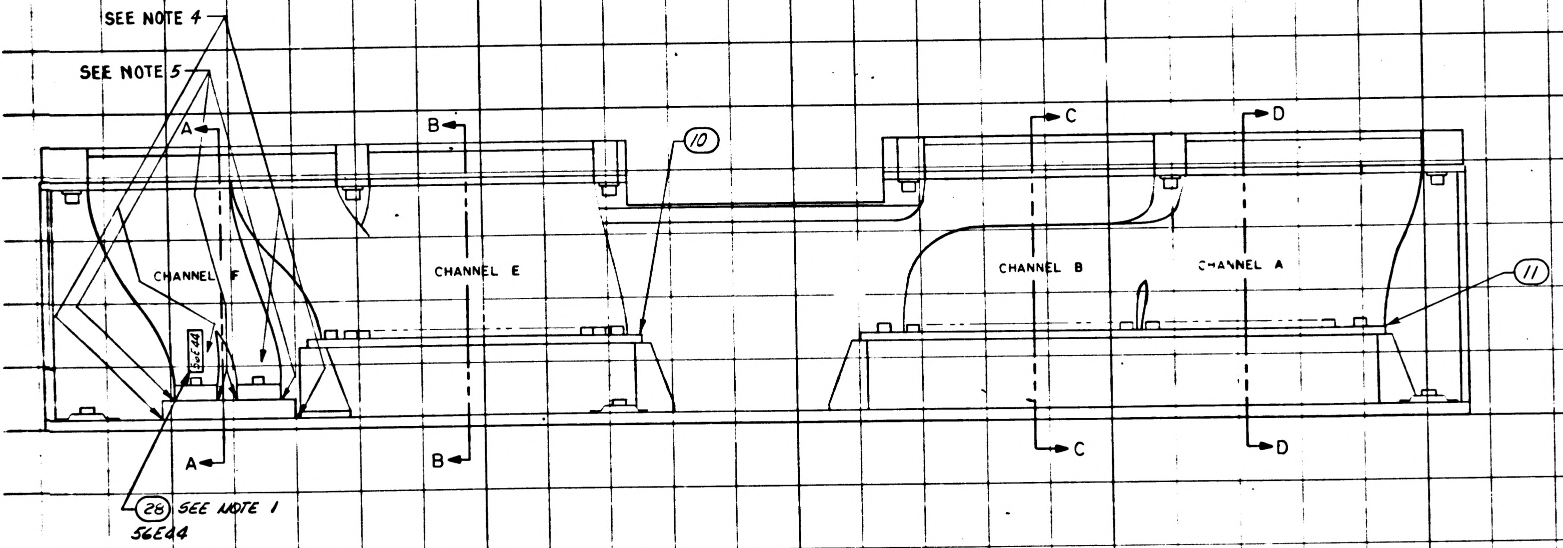
NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605.

2. REFER TO DRAWING 1014605 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

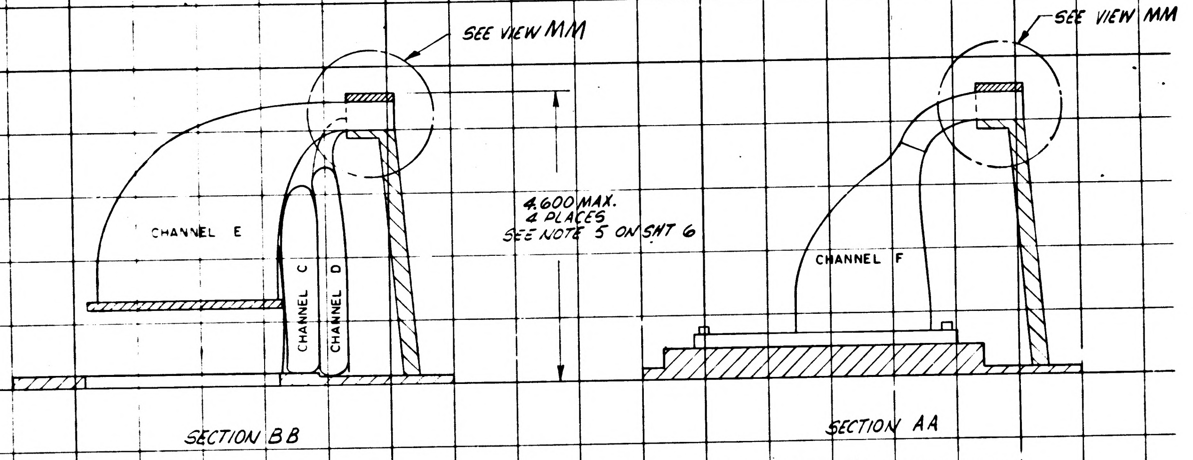
3. ASSEMBLE AND ENCAPSULATE IN ACCORDANCE WITH ATP 1014606 USING ITEM NO'S (50), (51) AND (52) PER ND1002009, METHOD A.

4. APPLY EPOXY PER ND 1002187 USING ITEMS (55) AND (56) AROUND ENTIRE LENGTH OF NOTED SURFACES, AT THE REAR OF CONNECTORS 56J21 AND 56J22 AND BEHIND CONNECTORS 56J11 THRU 56J20 TO HEIGHT SUFFICIENT TO COVER NYLON INSULATORS.

5. APPLY SILICONE RUBBER PER ND1002009, METHOD B, USING ITEMS (53) AND (54) AROUND ENTIRE LENGTH OF CONNECTORS 56J21 AND 56J22.



SEE NOTE 4
SEE NOTE 5
A
B
C
D
10
11
CHANNEL F
CHANNEL E
CHANNEL B
CHANNEL A
56E48
A
B
C
D
28 SEE NOTE 1
56E44



SEE VIEW MM
SEE VIEW MM
CHANNEL E
CHANNEL C
CHANNEL D
4.600 MAX.
4 PLACES
SEE NOTE 5 ON SHT 6
CHANNEL F
SECTION BB
SECTION AA

REPLACES REV K WITH CHANGE

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT

AC SPARK PLUG DIVISION, GMC
MILWAUKEE WISCONSIN
ACSP PN
DRAWN J. GRIEB DATE 23JUN64
CHECKED
APPROVAL
APPROVAL
NASA APPROVAL
M.E. APPROVAL

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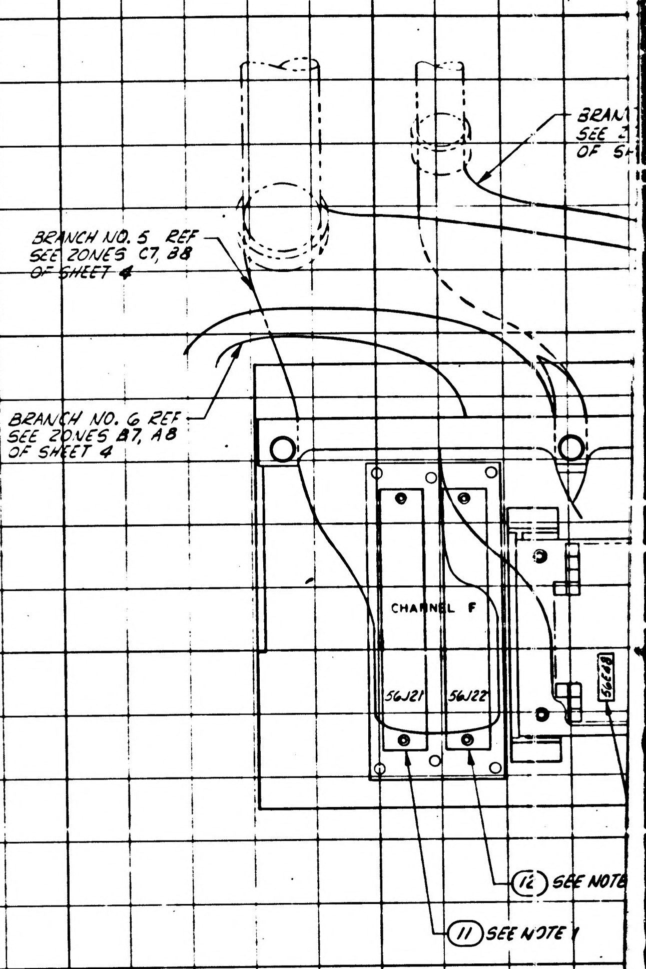
HOUSTON TEXAS

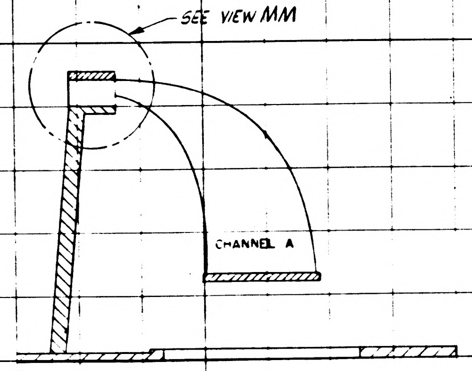
AGE HARNESS [illegible] END
CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE J
1014606

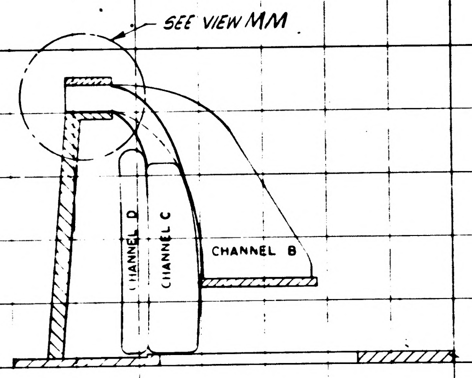
1014606 SHT 5

2 1014606

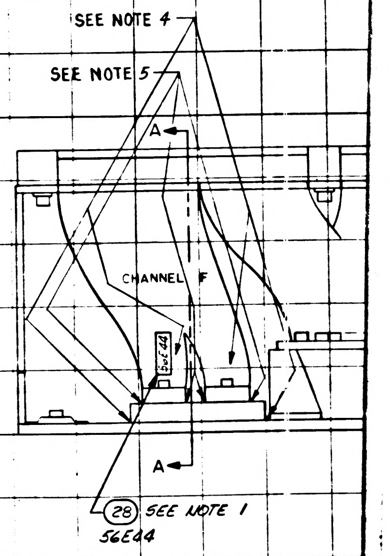

BRANCH NO. 5 REF
SEE ZONES C7, B8
OF SHEET 4
BRANCH NO. 6 REF
SEE ZONES B7, A8
OF SHEET 4
BRAN
SEE
OF S
CHANNEL F
56J21
56J22
56E48
(12) SEE NOTE
(11) SEE NOTE 1


SEE VIEW MM
CHANNEL A

SECTION D D


SEE VIEW MM
CHANNEL D
CHANNEL C
CHANNEL B

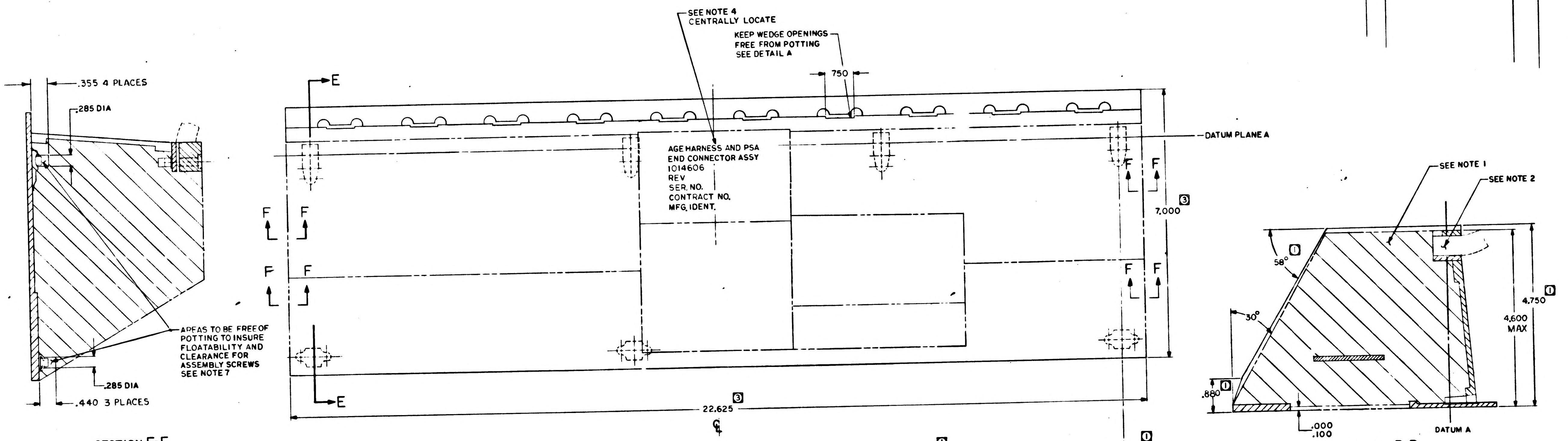
SECTION C C


SEE NOTE 4
SEE NOTE 5
A
CHANNEL F
56E44
A
(28) SEE NOTE 1
56E44

1014606	SHT 5

1/4014606

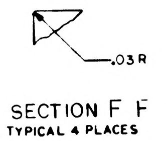
SYM	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV. "K" WITH CHANGE PER TDRR 1-749	3 AUG 64	JWP
		22 Aug 64	wk
M	REVISED PER TDRR 13300	19 Oct 64	JWP



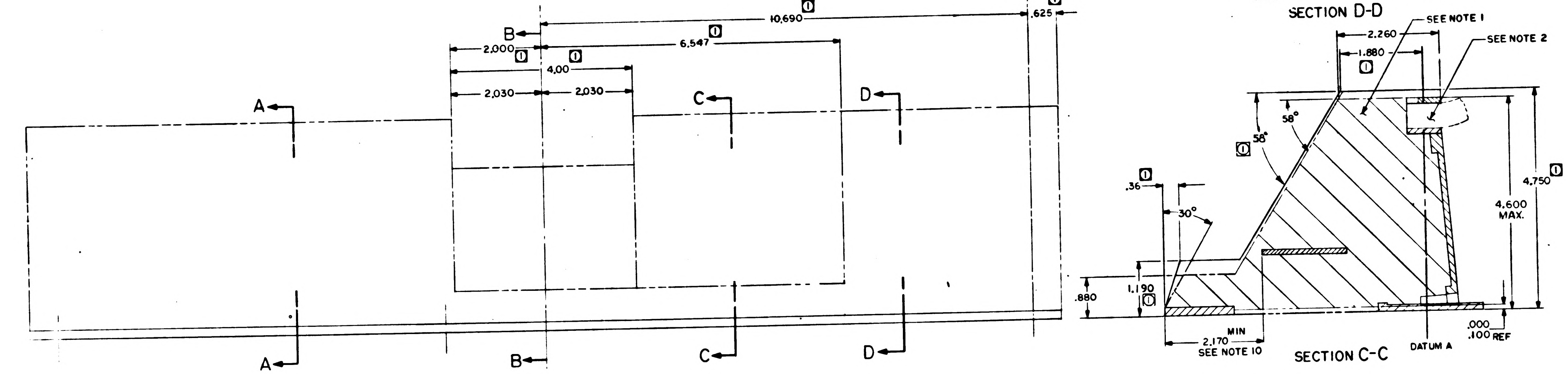
.355 4 PLACES
.285 DIA
AREAS TO BE FREE OF POTTING TO INSURE FLOATABILITY AND CLEARANCE FOR ASSEMBLY SCREWS SEE NOTE 7
.285 DIA
.440 3 PLACES
E
E
SEE NOTE 4
CENTRALLY LOCATE
KEEP WEDGE OPENINGS FREE FROM POTTING SEE DETAIL A
.750
AGE HARNESS AND PSA END CONNECTOR ASSY
1014606
REV
SER. NO.
CONTRACT NO.
MFG. IDENT.
DATUM PLANE A
F
7.000 3
22.625 3
SEE NOTE 1
SEE NOTE 2
58° 1
30°
4.750 1
4.600 MAX
.880 1
.000
.100
DATUM A

SECTION E-E

SECTION D-D

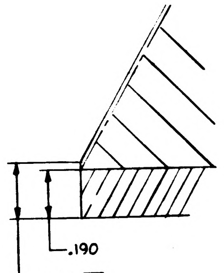


SECTION F F
TYPICAL 4 PLACES

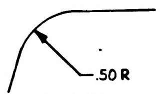


℄
10.690 1
.625 1
6.547 1
2.000 1
4.00 1
2.030
2.030
A
B
C
D
SEE NOTE 1
2.260
1.880 1
SEE NOTE 2
58°
1 58°
.36 1
30°
1.190 1
.880
MIN
2.170
SEE NOTE 10
4.750 1
4.600 MAX.
.000
.100 REF
DATUM A

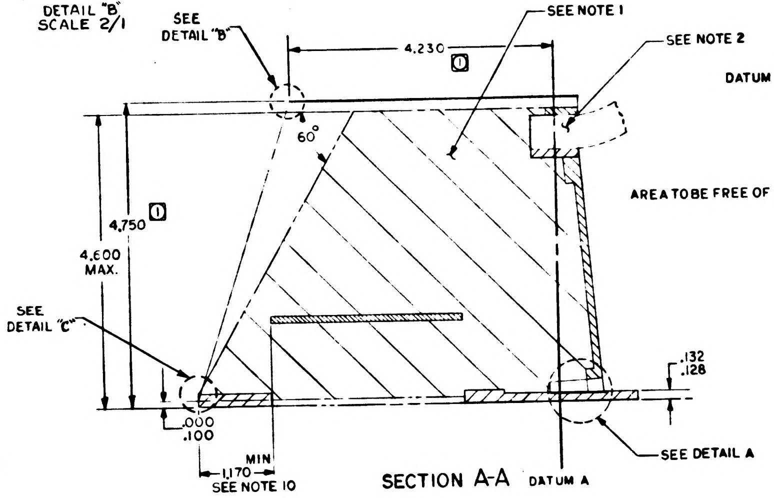
SECTION C-C



DETAIL "C"
SCALE 4/1

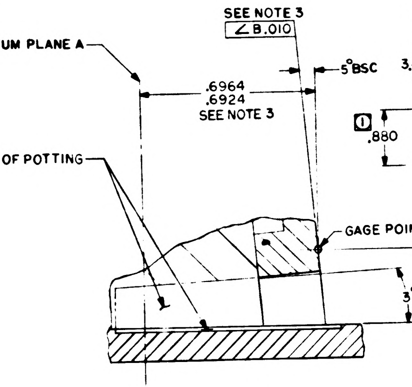


DETAIL "B"
SCALE 2/1



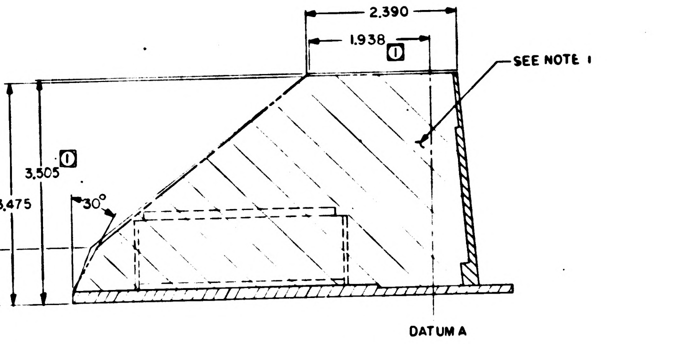
SEE DETAIL "B"
4.230
1
SEE NOTE 1
SEE NOTE 2
60°
4.750 1
4.600 MAX.
SEE DETAIL "C"
.132
.128
.000
.100
MIN
1.170
SEE NOTE 10
SEE DETAIL A
DATUM A

SECTION A-A



SEE NOTE 3
∠ B .010
DATUM PLANE A
5° BSC
.6964
.6924
SEE NOTE 3
AREA TO BE FREE OF POTTING
GAGE POINT
3°
.2962
.2922
SEE NOTE 3
-B-
⌒ .003 SEE NOTE 3

DETAIL A
SCALE 4/1
TYPICAL 10 PLACES



2.390
1.938 1
SEE NOTE 1
3.505 1
3.475
30°
1 .880
DATUM A

SECTION B-B

REPLACES REV K WITH CHANGE

NOTES:
1. ENCAPSULATE PER ND 1002002, USING ITEMS 55 & 56.
2. ENCAPSULATION PROCESS DEFINED ON SHEET 5.
3. DIMENSIONS TO BE STABLE AFTER POTTING.
4. SERIALIZE AND MARK CHARACTERS .12 HIGH (WHITE) PER ND 1002023
5. 1 THIS DIMENSION OR CHARACTERISTIC IS CONTROLLED BY ICDMH01-01003-116
~~6. 2 ICD ENVELOPE DIMENSION IS 58°, ACTUAL VALUE MAY BE 60°/58°~~
7. THE AREAS SHOWN FREE OF POTTING ARE THE MINIMUM REQUIRED. TOTAL VOLUME OF EACH VOID MAY EXCEED THAT SHOWN BUT SHALL NOT INTERFERE WITH OR EXPOSE WIRING. CAPS MAY BE USED
8. ALL WIRING SHALL BE BELOW THE SURFACE OF THE ENCAPSULATING MATERIAL
~~9. 1 a b THIS DIMENSION TO BE NEGOTIATED AS PART OF ICDMH01-01003-116 PRESENT ICD DIMENSIONS ARE (a) 4.375 AND (b) .130~~
10. TERMINAL BOARDS ARE TO BE LOCATED TO THESE DIMENSIONS BEFORE POTTING
11. 3 ICDMH01-01003-116 ENVELOPE DIMENSIONS ARE 7.000 AND 22.690 RESPECTIVELY; ACTUAL VALUES MAY BE LESS. POTTING SHALL BE FLUSH TO .015 LESS THAN THE ENVELOPE DEFINED BY THE ACTUAL LENGTH AND WIDTH OF THE END CONNECTOR ASSEMBLY

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS XX±.02 XXX±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN W.F.Tay DATE 12/4/63
CHECKED
APPROVAL 12-6-63
APPROVAL 12-20-63
NASA APPROVAL W. J. 12-30-63
MIT APPROVAL W. Coffey 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014606
SCALE
WT
SHEET 6 OF 6

1014606 M

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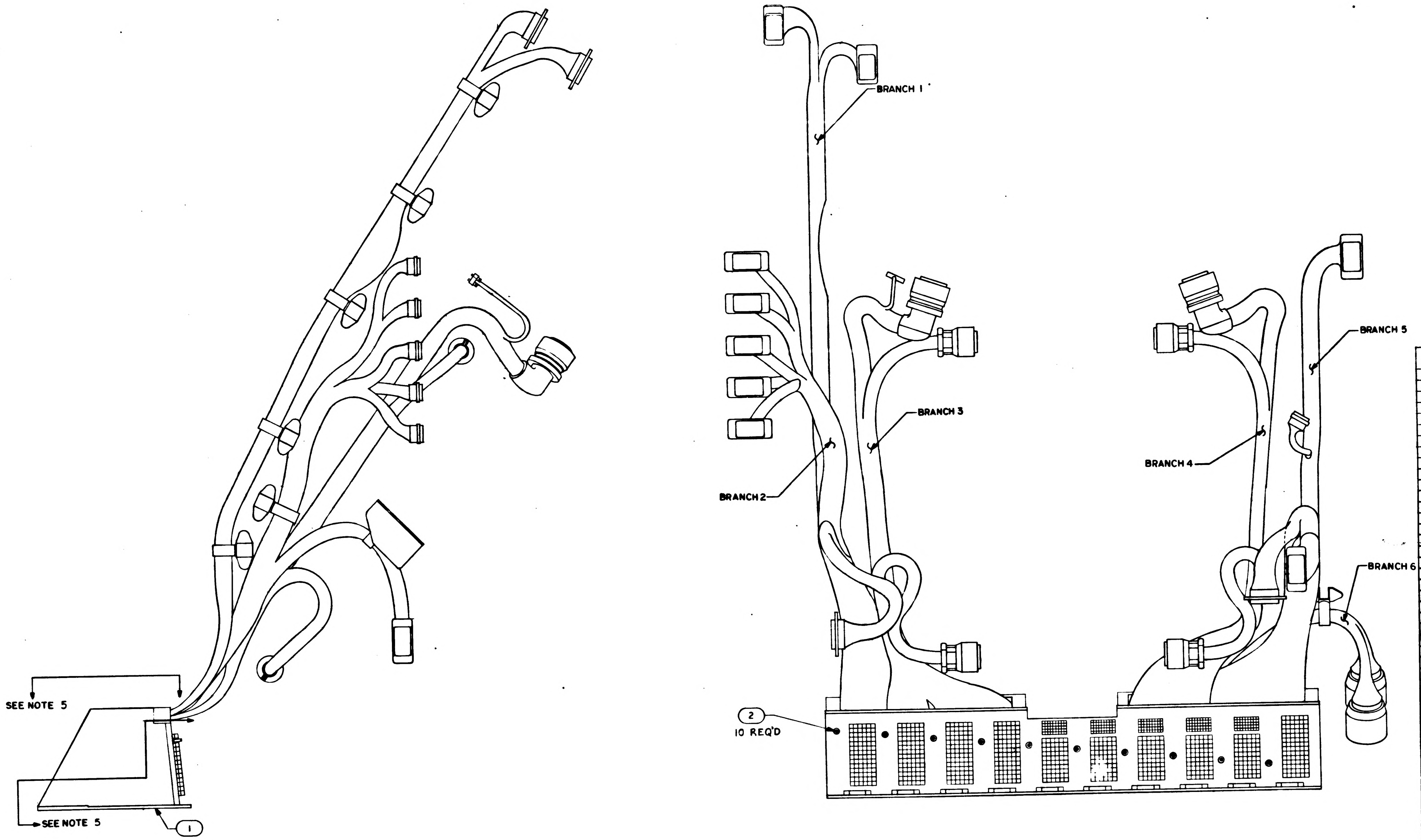
REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV. K WITH CHANGE PER TDRR 12749	5 AUG 64	JWP
		22 Aug 64	
M	REVISED PER TDRR 13300	9 Oct 64	JWP
N	REVISED PER TDRR 13416	Oct 64	JWP



NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MAXIMUM ENVELOPE AND "E" POINTS FOR ITEM NO. 49 WIRE LIST ARE SHOWN ON SHEET 2 OF THIS DRAWING.
3. BRANCHES 1, 2 AND 3 OF ITEM NO. 48 HARNESS CONFIGURATION ARE SHOWN ON SHEET 3 OF THIS DRAWING.
4. BRANCHES 4, 5 AND 6 OF ITEM NO. 48 HARNESS CONFIGURATION ARE SHOWN ON SHEET 4 OF THIS DRAWING.
5. MARRIAGE CONFIGURATION OF ITEM 48 AND 49 SHOWN ON SHEET 5 OF THIS DRAWING.
6. ENCAPSULATION ENVELOPE IS SHOWN ON SHEET 6 OF THIS DRAWING.
7. MOUNTING TORQUE FOR FIND NO. 2 IS 6.5 IN/LBS.
8. INTERCONNECTION LIST OF AGE HARNESS AND END CONNECTOR ASSEMBLY IS DRAWING NO. 1014607
9. INTERCONNECTION DIAGRAM - APOLLO GUIDANCE EQUIPMENT C/M, LOWER EQUIPMENT BAY IS DRAWING NO. 1014523.
10. ASSEMBLE AND TEST PER ATP 1014606.
11. GRID MODULE ON SHEETS 3, 4 AND 5 IS 1 INCH TRUE POSITION.
12. UNLESS OTHERWISE SPECIFIED:
    FEATURE CENTERLINES ON SHEETS 3, 4, AND 5 ARE LOCATED WITHIN ±.25 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN ±.12 INCH.

REPLACES REV "K" WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	MIL-I-631	INSULATION MATERIAL, TYPE G, FORM 5, CLASS 1, 0.005 THICK X 6 IN. X 36 IN. (ES-2749)	58
			57
AR	1010679	ADHESIVE ACTIVATOR	56
AR	1010661	EPOXY, RESIN	55
AR	1006835	AGENT, CURING	54
AR	1006834	COMPOUND, SILICONE RUBBER	53
AR	1006722	THINNER, SILICONE	52
AR	1006721	AGENT, CURING	51
AR	1006720	COMPOUND, SILICONE RUBBER	50
1	1014608	WIRE LIST "A A"	49
1	1014605	WIRING HARNESS "A"	48
~~1~~	~~1010642-144~~	~~CONNECTOR PLUG ELEC.~~	47
~~1~~	~~1010674-1~~	~~CONNECTOR PLUG ELEC.~~	46
~~1~~	~~1010674-2~~	~~CONNECTOR PLUG ELEC.~~	45
5	1010400-1	CLAMP, LOOP, HINGED	44
~~1~~	~~1010674-4~~	~~CONNECTOR PLUG ELEC.~~	43
~~1~~	~~1010348-1~~	~~CONNECTOR PLUG ELEC.~~	42
~~1~~	~~1010674-3~~	~~CONNECTOR PLUG ELEC.~~	41
~~1~~	~~1010348-2~~	~~CONNECTOR PLUG ELEC.~~	40
~~1~~	~~1000221~~	~~CONNECTOR RECP. ELEC.~~	39
1	AN345C10	NUT, PLAIN HEX	38
1	1014609	BRACKET, CLAMP	37
1	1010705-8	CLAMP, LOOP	36
~~5~~	~~1010411-2~~	~~CONNECTOR RECP. ELEC.~~	35
1	1010400-7	CLAMP, LOOP, HINGED	34
~~2~~	~~1000242-21~~	~~FERRULE, OUTER ELEC. COND.~~	33
~~2~~	~~1000242-30~~	~~FERRULE, OUTER ELEC. COND.~~	32
~~2~~	~~1000243-26~~	~~FERRULE, INNER ELEC. COND.~~	31
~~2~~	~~1000243-34~~	~~FERRULE, INNER ELEC. COND.~~	30
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	29
~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	28
~~2~~	~~1010490-222~~	~~INSULATION SLEEVING, HEAT SHRINK~~	27
~~2~~	~~1010490-216~~	~~INSULATION SLEEVING, HEAT SHRINK~~	26
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	25
~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	24
1	1010400-8	CLAMP, LOOP, HINGED	23
~~1~~	~~1010400-4~~	~~CLAMP, LOOP, HINGED~~	22
3	1010400-3	CLAMP, LOOP, HINGED	21
1	1010400-2	CLAMP, LOOP, HINGED	20
~~1~~	~~1010671-2~~	~~CONNECTOR PLUG ELEC.~~	19
~~1~~	~~1010671-1~~	~~CONNECTOR PLUG ELEC.~~	18
~~2~~	~~1010607-3~~	~~CONNECTOR RECP. ELEC.~~	17
~~1~~	~~1010607-1~~	~~CONNECTOR RECP. ELEC.~~	16
~~4~~	~~1010411-1~~	~~CONNECTOR RECP. ELEC.~~	15
6	1006783-47	SCREW BUTTON HEAD	14
1	1008164	CABLE CLAMP LEFT	13
1	1008165	CABLE CLAMP RIGHT	12
1	1008148	CONN PLATE ASSY (264 PINS)	11
1	1008149	CONN PLATE ASSY (293 PINS)	10
3	MS35649-44	NUT	9
1	1010618-13	SCREW BUTTON HEAD	8
3	1010618-14	SCREW BUTTON HEAD	7
4	MS35335-57	WASHER, LOCK, FLAT, EXTERNAL TOOTH	6
~~1~~	~~1010642-244~~	~~CONNECTOR PLUG ELEC.~~	5
8	MS16995-17	SCREW HEX SOCKET HD	4
4	MS16995-10	SCREW. HEX SOCKET HD	3
10	1008163	PIN, LOCATING	2
1	1007161	END CONNECTOR ASSEMBLY PSA	1

LIST OF MATERIALS

1014606 N

1015000		
NEXT ASSY	USED ON	
APPLICATION		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN J. Falzone DATE 5 DEC 63
CHECKED
APPROVAL 12-10-63
APPROVAL 12-20-63
NASA APPROVAL W. J. Rhine 12-30-63
MIT APPROVAL 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014606
SCALE 1/2
WT
SHEET 1 OF 6

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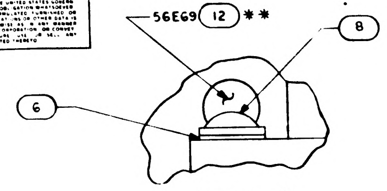
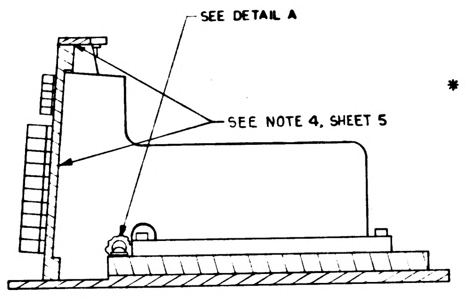
	REVISIONS		
	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV."K" WITH CHANGE PER TDRR 12749	3 AUG 64	JWF
		22 Ap 64	WK
M	REVISED PER TDRR 13300	10 OCT 64	
N	REVISED PER TDRR 13416	21 OCT 64	JWP

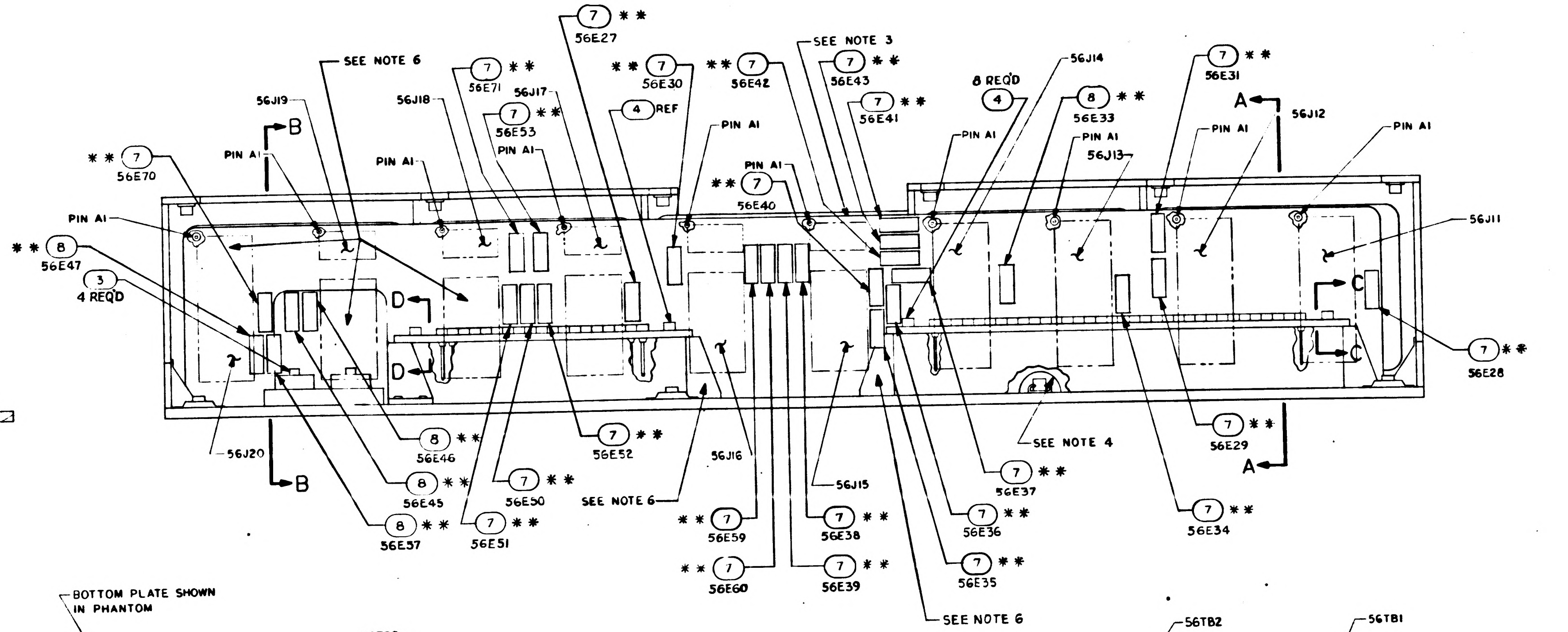


DETAIL A
SCALE 4/1

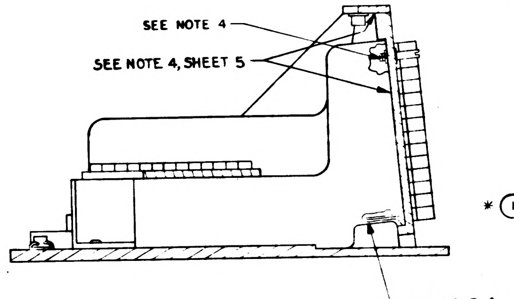


SEE DETAIL A
SEE NOTE 4, SHEET 5

SECTION B B

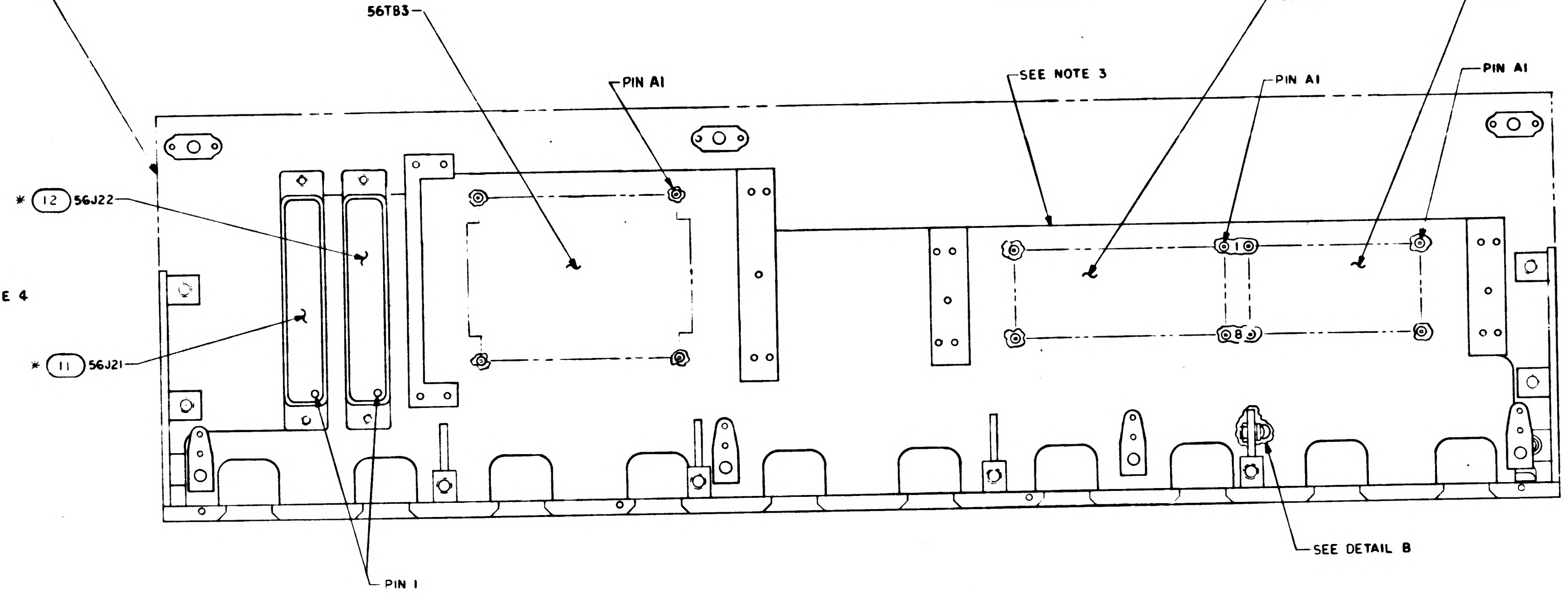


(7) **
56E27
SEE NOTE 6
56J19
56J18
(7) **
56E71
56J17
(7) **
56E53
PIN A1
** (7)
56E30
(4) REF
** (7)
56E42
SEE NOTE 3
(7) **
56E43
(7) **
56E41
56J14
8 REQD
(4)
(8) **
56E33
PIN A1
56J13
(7) **
56E31
A
56J12
PIN A1
PIN A1
B
** (7)
56E70
PIN A1
PIN A1
PIN A1
PIN A1
** (7)
56E40
PIN A1
PIN A1
56J11
** (8)
56E47
(3)
4 REQD
D
D
C
C
(7) **
56E28
(8) **
56E46
(7) **
56E52
SEE NOTE 4
(7) **
56E29
A
56J20
B
(8) **
56E45
(7) **
56E50
SEE NOTE 6
56J16
56J15
(7) **
56E37
(7) **
56E36
(7) **
56E34
(8) **
56E57
(7) **
56E51
** (7)
56E59
(7) **
56E38
** (7)
56E60
(7) **
56E39
(7) **
56E35
SEE NOTE 6

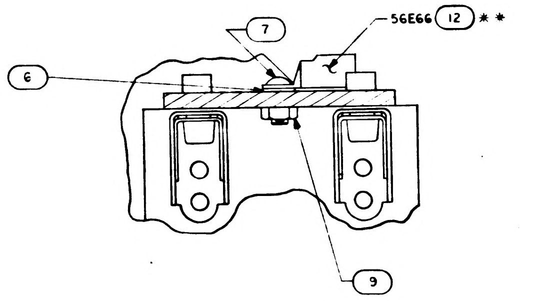


SEE NOTE 4
SEE NOTE 4, SHEET 5
SEE NOTE 4

SECTION A A



BOTTOM PLATE SHOWN IN PHANTOM
56TB3
PIN A1
SEE NOTE 3
56TB2
PIN A1
56TB1
PIN A1
* (12) 56J22
* (11) 56J21
1
8
PIN 1
SEE DETAIL B

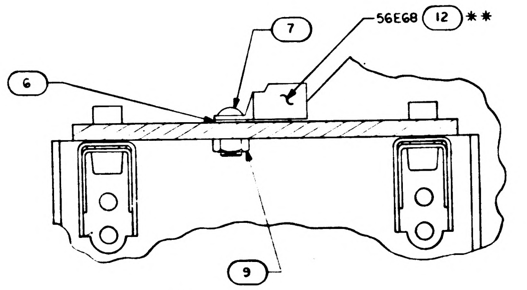


(7)
56E66 (12) **
(6)
(9)

PARTIAL SECTION C C
SCALE 2/1

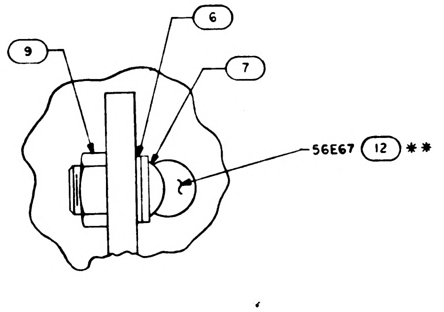
NOTES
1. ** PARTS ARE LISTED ON DWG 1014608
2. REFER TO DWG 1014608 FOR REFERENCE DESIGNATIONS AND WIRE LIST
3. OUTLINE SHOWS MAXIMUM ENVELOPE FOR WIRE LIST AA, 1014608
4. BEFORE WIRING, COVER THREADS AND OTHER SHARP EDGES WITH SILICON RUBBER PER ND1002009, METHOD B

5 * PARTS NOTED ARE LISTED ON DRAWING 1014605
6. PROTECT WIRING FROM SHARP EDGES USING ITEM 58



(7)
56E68 (12) **
(6)
(9)

PARTIAL SECTION D D
SCALE 2/1



(9)
(6)
(7)
56E67 (12) **

DETAIL B
SCALE 4/1

REPLACES REV"K" WITH CHANGE

1014606 N

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

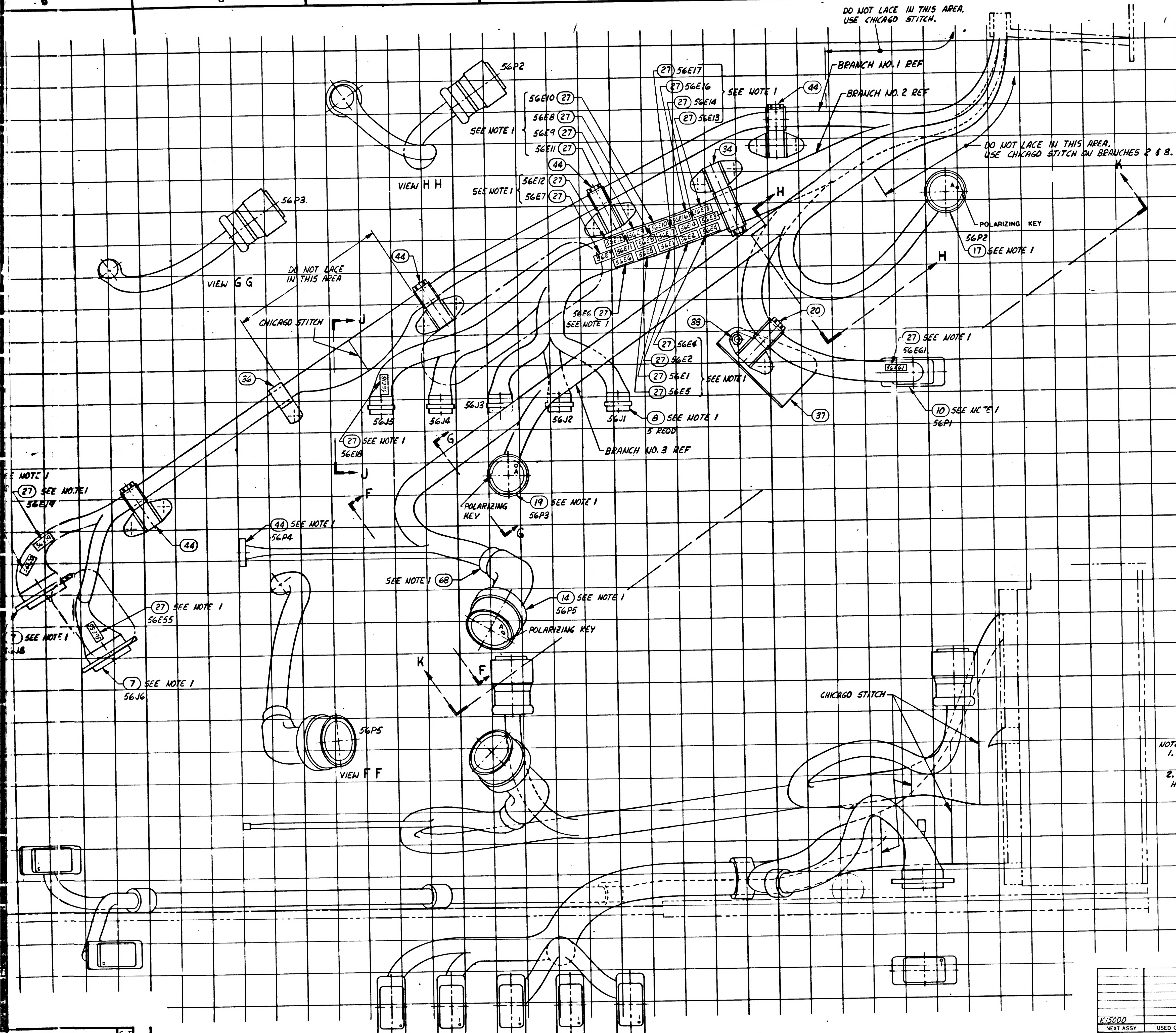
MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN J Falzone DATE DEC 63
CHECKED
APPROVAL 12-20-63
APPROVAL 12-30-63
NASA APPROVAL W J 12-30-63
MIT APPROVAL 30 Dec 62

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014606
SCALE 1/1
WT
SHEET 2 OF 6

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV K WITH CHANGE PER TDRR 12749	—	5 AUG 64	
M		REVISED PER TDRR 13300		9 OCT 64	
N		REVISED PER TDRR 3416		21 OCT 64	


DO NOT LACE IN THIS AREA. USE CHICAGO STITCH.
BRANCH NO. 1 REF
BRANCH NO. 2 REF
DO NOT LACE IN THIS AREA. USE CHICAGO STITCH ON BRANCHES 2 & 3.
56P2
VIEW H H
SEE NOTE 1
56E10 27
56E8 27
56E9 27
56E11 27
44
56E12 27
56E7 27
27 56E17
27 56E16
27 56E14
27 56E13
SEE NOTE 1
44
34
H
K
POLARIZING KEY
56P2
17 SEE NOTE 1
56P3
VIEW G G
DO NOT LACE IN THIS AREA
44
CHICAGO STITCH
J
56E6 27
SEE NOTE 1
38
20
27 SEE NOTE 1
56E61
27 56E4
27 56E2
27 56E1
27 56E5
SEE NOTE 1
36
56J5
56J4
56J3
56J2
56J1
8 SEE NOTE 1
5 REQD
10 SEE NOTE 1
56P1
37
27 SEE NOTE 1
56E18
J
G
BRANCH NO. 3 REF
SEE NOTE 1
27 SEE NOTE 1
56E19
F
POLARIZING KEY
19 SEE NOTE 1
56P3
G
44
44 SEE NOTE 1
56P4
SEE NOTE 1 68
14 SEE NOTE 1
56P5
POLARIZING KEY
27 SEE NOTE 1
56E55
7 SEE NOTE 1
56J8
7 SEE NOTE 1
56J6
K
F
56P5
VIEW F F
CHICAGO STITCH

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605.
2. REFER TO DRAWING 1014605 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

REPLACES REV 'K' WITH CHANGE

1015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 30 JUN 64
CHECKED J. GRIEB 23 JUN 64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

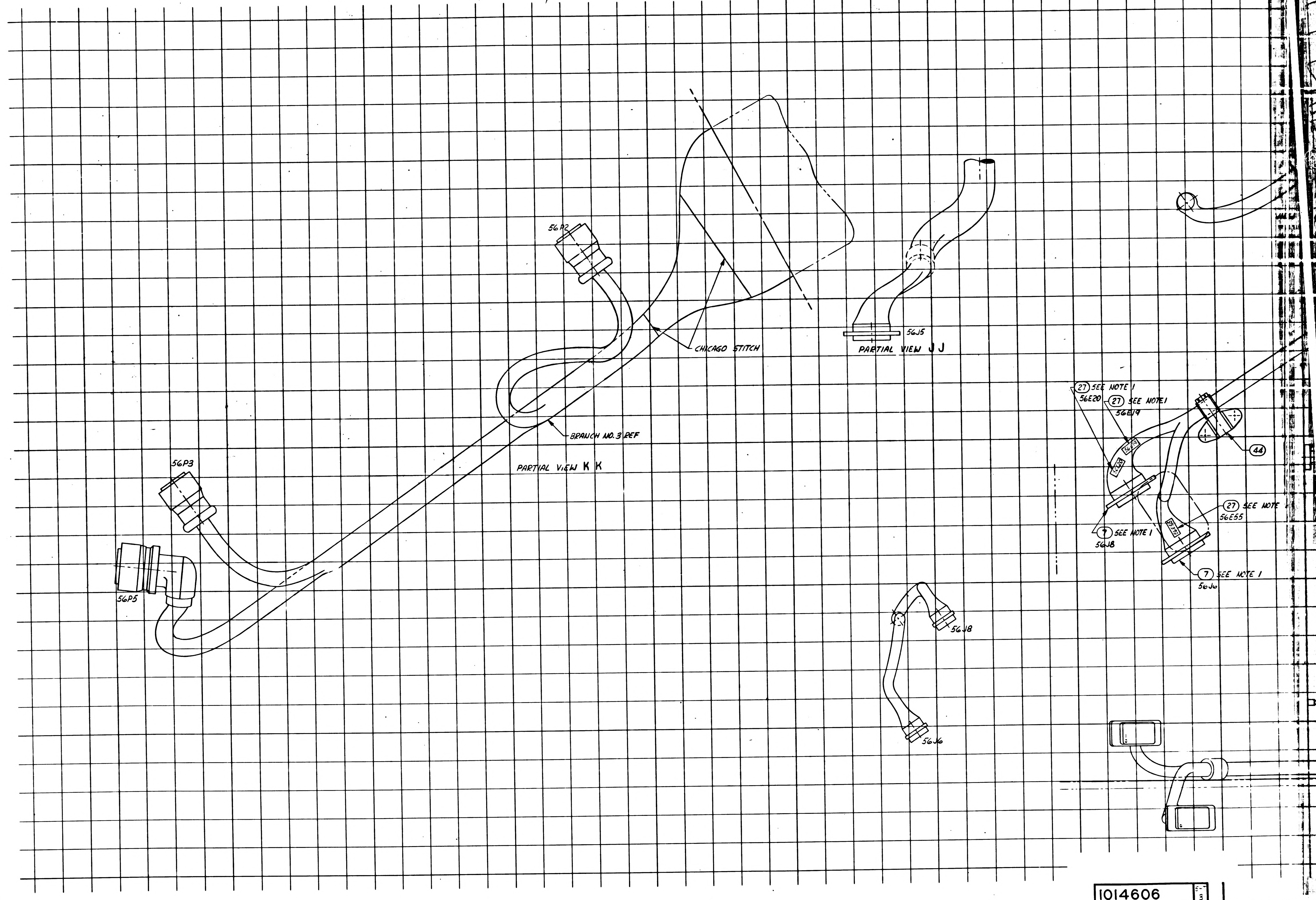
AGE HARNESS AND PSA ENC CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE J2
1014606
SCALE 1:1
SHEET

1014606

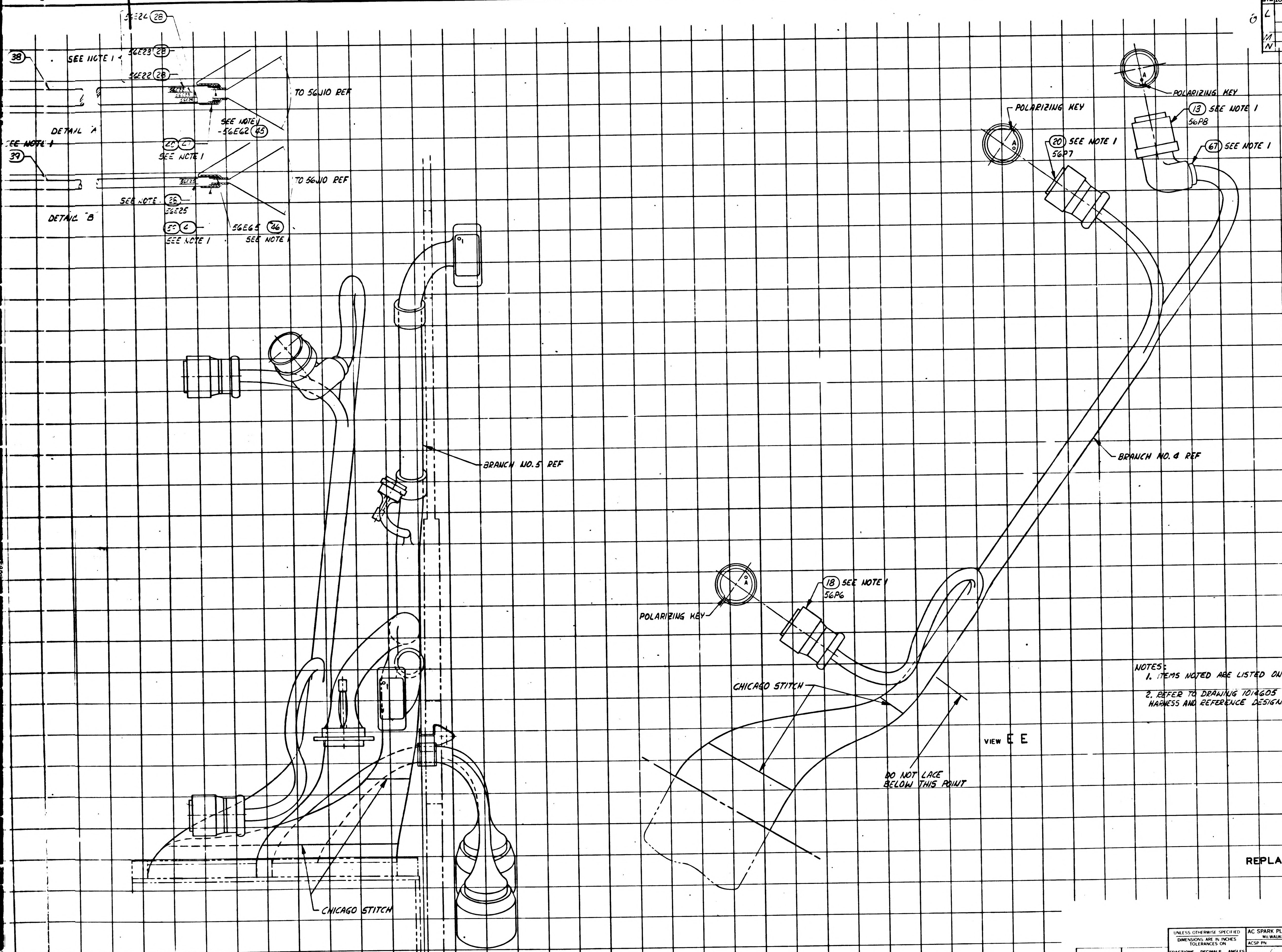
1014606 SHT 3

2/1014606


16
15
14
13
12
11
10
9
H
G
F
E
D
C
56P2
CHICAGO STITCH
PARTIAL VIEW J J
56J5
BRANCH NO.3 REF
PARTIAL VIEW K K
56P3
56P5
27 SEE NOTE 1
56E20
27 SEE NOTE 1
56E19
44
27 SEE NOTE
56E55
7 SEE NOTE 1
56J8
7 SEE NOTE 1
56J6
56J8
56J6

1014606

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV K WITH CHANGE PER TDRR 12749	—		
		REVISED PER TDRR			
M		REVISED PER TDRR 3300			
N		REVISED PER TDRR 3446			



38
SEE NOTE 1
56E24 28
56E23 28
56E22 28
56E22
56E23
56E24
TO 56J10 REF
SEE NOTE 1
56E62 45
DETAIL "A"
SEE NOTE 1
39
26 27
SEE NOTE 1
56E25
TO 56J10 REF
SEE NOTE 26
56E25
DETAIL "B"
5C 4
SEE NOTE 1
56E65 46
SEE NOTE 1
POLARIZING KEY
13 SEE NOTE 1
56P8
POLARIZING KEY
20 SEE NOTE 1
56P7
67 SEE NOTE 1
BRANCH NO. 5 REF
BRANCH NO. 4 REF
18 SEE NOTE 1
56P6
POLARIZING KEY
A
CHICAGO STITCH
DO NOT LACE BELOW THIS POINT
VIEW E E
CHICAGO STITCH

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605.
2. REFER TO DRAWING 1014605 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

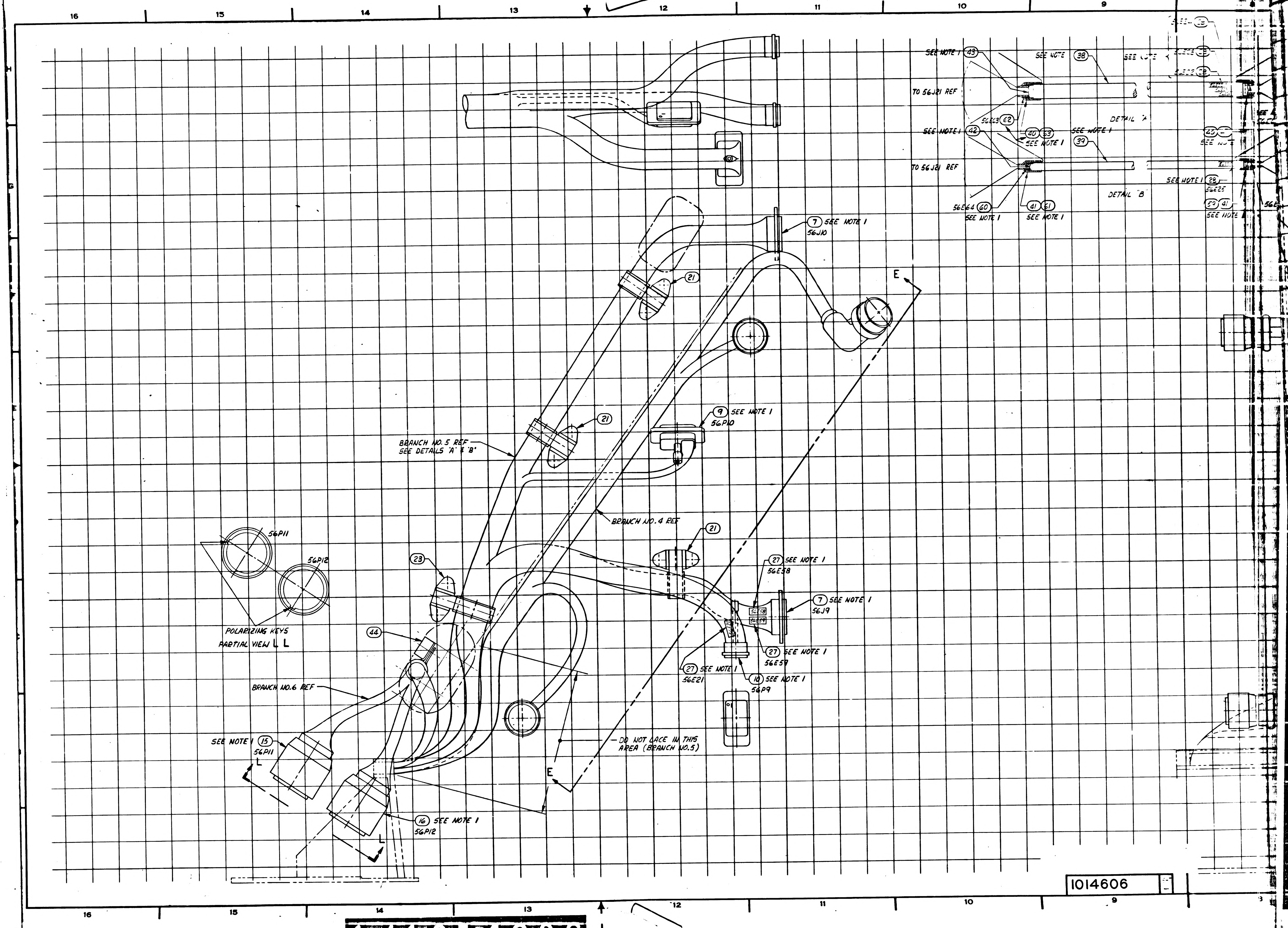
REPLACES REV K WITH CHANGE

1015000		UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS + − DECIMALS + − ANGLES + − DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE, WISCONSIN ACSP PN	MANNED SPACECRAFT CENTER HOUSTON TEXAS
NEXT ASSY	USED ON	MATERIAL	DRAWN DATE 22 JUN 64 CHECKED J. GRIEB 23 JUN 64 APPROVAL APPROVAL	AGE HARNESS AND PSA END CONNECTOR ASSEMBLY
APPLICATION		CONTRACT NAS 9-497	NASA APPROVAL MIT APPROVAL	CODE IDENT NO SIZE 1014606 SCALE 1:1 SHEET 4 OF 6

1014606

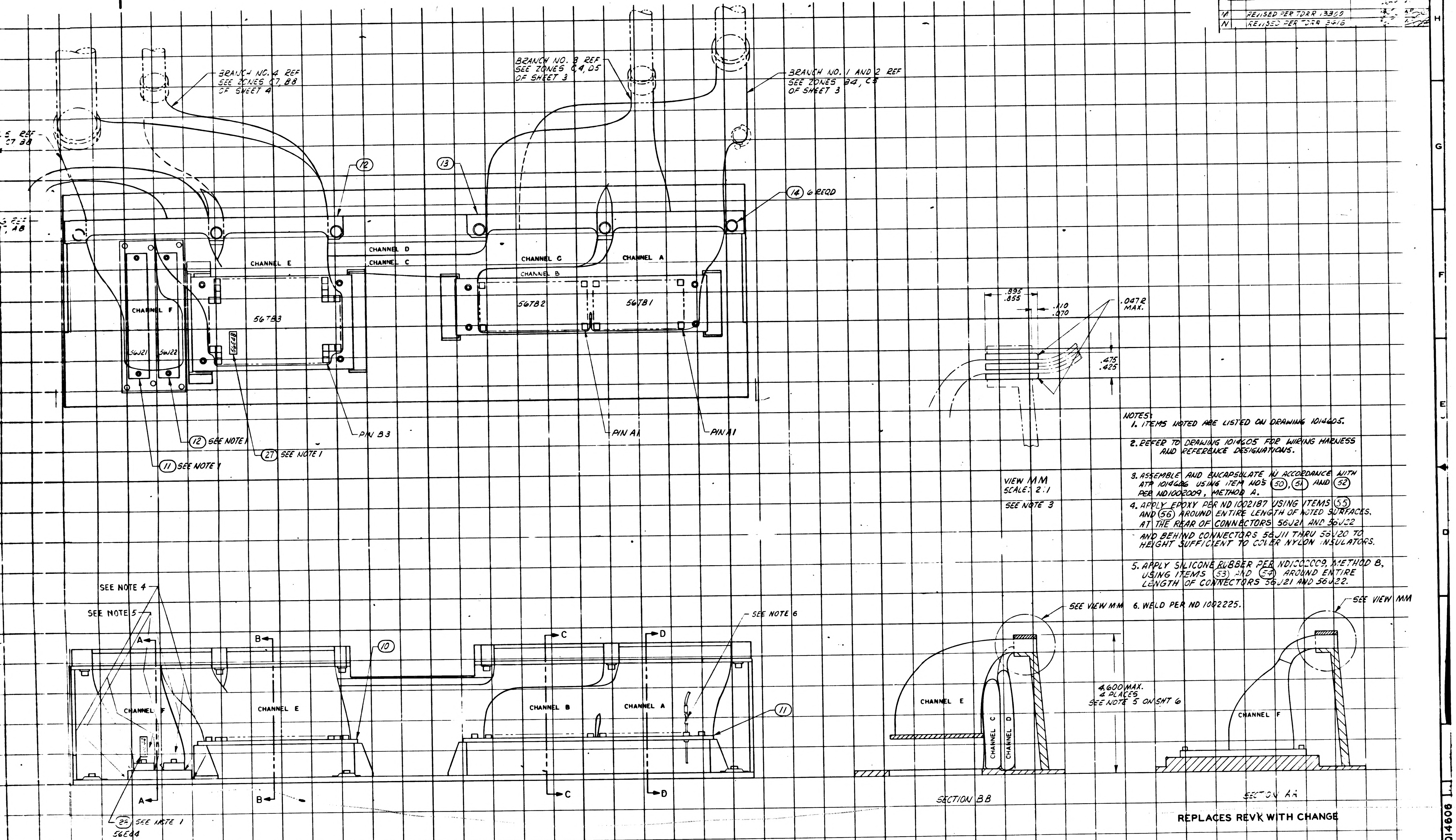
014606 4

2/1014606

16
15
14
13
12
11
10
9
SEE NOTE 1 43
SEE NOTE 38
TO 56J21 REF
56E63 62
SEE NOTE 1 42
40 53
SEE NOTE 1
SEE NOTE 1
39
DETAIL "A"
TO 56J21 REF
DETAIL "B"
56E64 60
SEE NOTE 1
41 61
SEE NOTE 1
SEE NOTE 1 29
56E25
59 41
SEE NOTE
7 SEE NOTE 1
56J10
21
E
21
BRANCH NO. 5 REF
SEE DETAILS "A" & "B"
9 SEE NOTE 1
56P10
BRANCH NO. 4 REF
21
56P11
56P12
23
27 SEE NOTE 1
56E58
7 SEE NOTE 1
56J9
56E58
56E59
POLARIZING KEYS
PARTIAL VIEW L L
44
27 SEE NOTE 1
56E57
27 SEE NOTE 1
56E21
10 SEE NOTE 1
56P9
BRANCH NO. 6 REF
SEE NOTE 1 15
56P11
L
DO NOT LACE IN THIS
AREA (BRANCH NO. 5)
E
16 SEE NOTE 1
56P12
L
1014606
16
15
14
13
12
11
10
9

1/1014606

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV K WITH CHANGE PER TDRR [illegible]	—	[illegible]	[illegible]
M		REVISED PER TDRR 13300		[illegible]	[illegible]
N		REVISED PER TDRR 3416		[illegible]	[illegible]


BRANCH NO. 4 REF SEE ZONES C7, B8 OF SHEET 4
BRANCH NO. 3 REF SEE ZONES C4, D5 OF SHEET 3
BRANCH NO. 1 AND 2 REF SEE ZONES B4, C5 OF SHEET 3
12
13
14 6 REQD
CHANNEL D
CHANNEL C
CHANNEL E
CHANNEL G
CHANNEL A
CHANNEL B
CHANNEL F
56TB3
56TB2
56TB1
56E8
56J21
56J22
PIN B3
PIN A1
PIN A1
12 SEE NOTE 1
27 SEE NOTE 1
11 SEE NOTE 1
.895
.855
.110
.070
.047R MAX.
.475
.425
VIEW MM
SCALE: 2:1
SEE NOTE 3
SEE NOTE 4
SEE NOTE 5
SEE NOTE 6
A
B
C
D
10
11
25 SEE NOTE 1
56E44
SEE VIEW MM
4.600 MAX. 4 PLACES SEE NOTE 5 ON SHT 6
SECTION BB
SECTION AA

NOTES:

1. ITEMS NOTED ARE LISTED ON DRAWING 1014605.
2. REFER TO DRAWING 1014605 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.
3. ASSEMBLE AND ENCAPSULATE IN ACCORDANCE WITH ATP 1014606 USING ITEM NO'S (50), (51) AND (52) PER ND1002009, METHOD A.
4. APPLY EPOXY PER ND 1002187 USING ITEMS (55) AND (56) AROUND ENTIRE LENGTH OF NOTED SURFACES, AT THE REAR OF CONNECTORS 56J21 AND 56J22 AND BEHIND CONNECTORS 56J11 THRU 56J20 TO HEIGHT SUFFICIENT TO COVER NYLON INSULATORS.
5. APPLY SILICONE RUBBER PER ND1002009, METHOD B, USING ITEMS (53) AND (54) AROUND ENTIRE LENGTH OF CONNECTORS 56J21 AND 56J22.
6. WELD PER ND 1002225.

REPLACES REV K WITH CHANGE

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES DO NOT SCALE THIS DRAWING	AC SPARK PLUG DIVISION, GMC MILWAUKEE WISCONSIN ACSP PN
APPLICATION		MATERIAL CONTRACT	DRAWN DATE CHECKED J. GRIEB 23JUN64 APPROVAL APPROVAL NASA APPROVAL MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

AGE HARNESS [illegible]
CONNECTOR ASSEMBLY

CODE IDENT NO SIZE

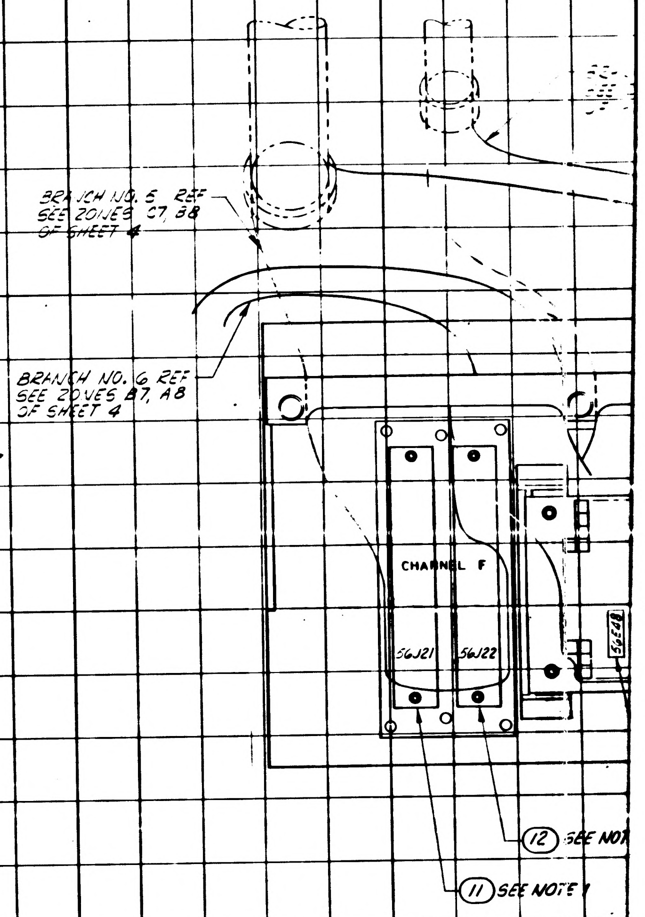
1014606

SCALE SHEET

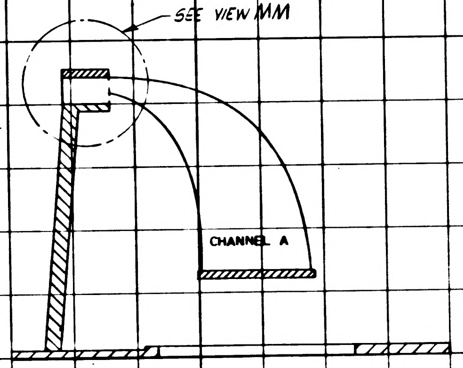
1014606

27 1014606

1014606 SH 2 of 8

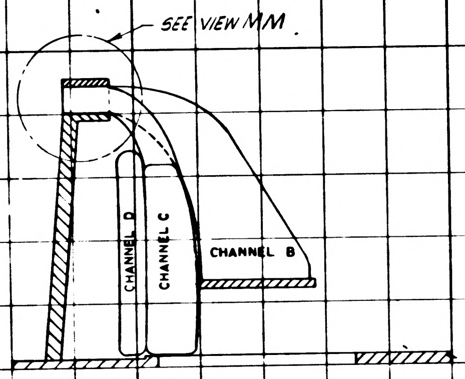


BRANCH NO. 5 REF
SEE ZONES C7, B8
OF SHEET 4
BRANCH NO. 6 REF
SEE ZONES B7, A8
OF SHEET 4
CHANNEL F
56J21
56J22
56E48
(12) SEE NOT
(11) SEE NOTE



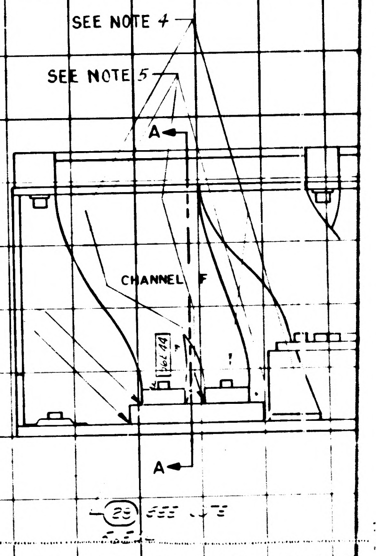
SEE VIEW MM
CHANNEL A

SECTION D D



SEE VIEW MM
CHANNEL D
CHANNEL C
CHANNEL B

SECTION C C

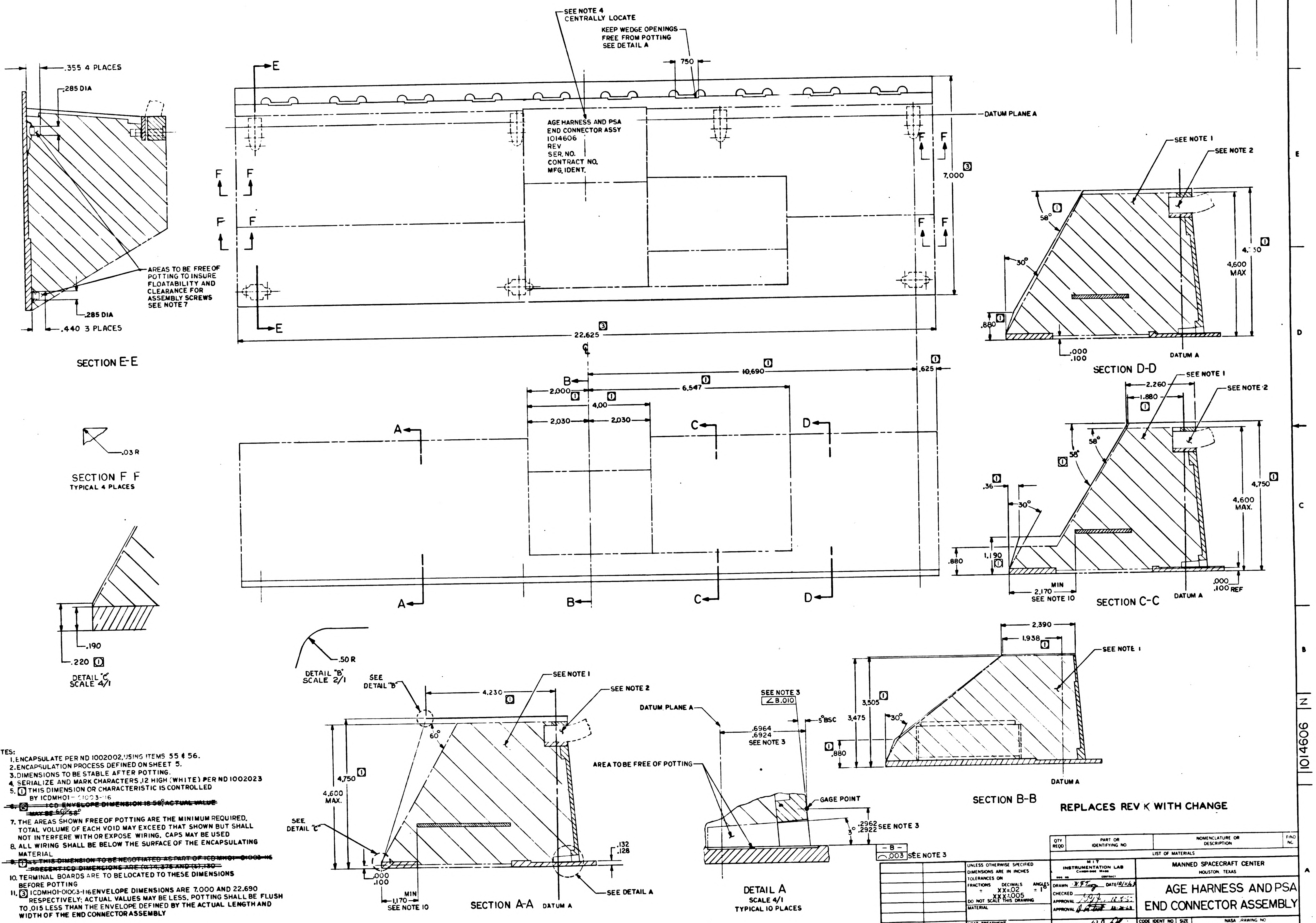


SEE NOTE 4
SEE NOTE 5
A
CHANNEL F
56E44
A
(23) SEE NOTE

1014606

1/1014606

SYM	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV. K WITH CHANGE PER TDRR 12749	3 AUG 64	JWP
		22 Aug 64	WIC
M	REVISED PER TDRR 13300	19 OCT 64	JWP
N	REVISED PER TDRR 13416	2 OCT 64	JWP



SEE NOTE 4
CENTRALLY LOCATE
KEEP WEDGE OPENINGS FREE FROM POTTING SEE DETAIL A
.750
E
AGE HARNESS AND PSA
END CONNECTOR ASSY
1014606
REV
SER. NO.
CONTRACT NO.
MFG. IDENT.
DATUM PLANE A
7.000 ③
22.625 ③
F F
.355 4 PLACES
.285 DIA
AREAS TO BE FREE OF POTTING TO INSURE FLOATABILITY AND CLEARANCE FOR ASSEMBLY SCREWS SEE NOTE 7
.285 DIA
.440 3 PLACES
SECTION E-E
.03 R
SECTION F F
TYPICAL 4 PLACES
10.690 ①
.625 ①
2.000 ①
6.547 ①
4.00 ①
2.030
2.030
A
B
C
D
SEE NOTE 1
SEE NOTE 2
58°
30°
.880 ①
.000
.100
4.750 ①
4.600 MAX
DATUM A
SECTION D-D
2.260
1.880 ①
.36 ①
1.190 ①
.880
2.170 MIN
SEE NOTE 10
.000
.100 REF
SECTION C-C
.190
.220 ①
DETAIL "C"
SCALE 4/1
.50 R
DETAIL "B"
SCALE 2/1
SEE DETAIL "B"
4.230 ①
60°
SEE DETAIL "C"
.132
.128
1.170 MIN
SEE DETAIL A
SECTION A-A
SEE NOTE 3
∠8.010
DATUM PLANE A
.6964
.6924
SEE NOTE 3
5° BSC
AREA TO BE FREE OF POTTING
GAGE POINT
3°
.2962
.2922 SEE NOTE 3
-B-
⌒.003 SEE NOTE 3
DETAIL A
SCALE 4/1
TYPICAL 10 PLACES
2.390
1.938 ①
3.505 ①
3.475
SECTION B-B

REPLACES REV K WITH CHANGE

NOTES:
1. ENCAPSULATE PER ND 1002002, USING ITEMS 55 & 56.
2. ENCAPSULATION PROCESS DEFINED ON SHEET 5.
3. DIMENSIONS TO BE STABLE AFTER POTTING.
4. SERIALIZE AND MARK CHARACTERS .12 HIGH (WHITE) PER ND 1002023
5. ① THIS DIMENSION OR CHARACTERISTIC IS CONTROLLED BY ICDMH01-01003-116
~~6. ② ICD ENVELOPE DIMENSION IS 58°, ACTUAL VALUE MAY BE~~ 60°/58°
7. THE AREAS SHOWN FREE OF POTTING ARE THE MINIMUM REQUIRED. TOTAL VOLUME OF EACH VOID MAY EXCEED THAT SHOWN BUT SHALL NOT INTERFERE WITH OR EXPOSE WIRING. CAPS MAY BE USED
8. ALL WIRING SHALL BE BELOW THE SURFACE OF THE ENCAPSULATING MATERIAL
~~9. ① a,b THIS DIMENSION TO BE NEGOTIATED AS PART OF ICDMH01-01003-116 PRESENT ICD DIMENSIONS ARE (a) 4.375 AND (b) .130~~
10. TERMINAL BOARDS ARE TO BE LOCATED TO THESE DIMENSIONS BEFORE POTTING
11. ③ ICDMH01-01003-116 ENVELOPE DIMENSIONS ARE 7.000 AND 22.690 RESPECTIVELY; ACTUAL VALUES MAY BE LESS. POTTING SHALL BE FLUSH TO .015 LESS THAN THE ENVELOPE DEFINED BY THE ACTUAL LENGTH AND WIDTH OF THE END CONNECTOR ASSEMBLY

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS XX±.02 XXX±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO
CONTRACT
DRAWN W.F. Troy DATE 12/11/63
CHECKED
APPROVAL 12-6-63
APPROVAL 12-20-63
NASA APPROVAL W. J. 12-30-63
MIT APPROVAL W. Coffin 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

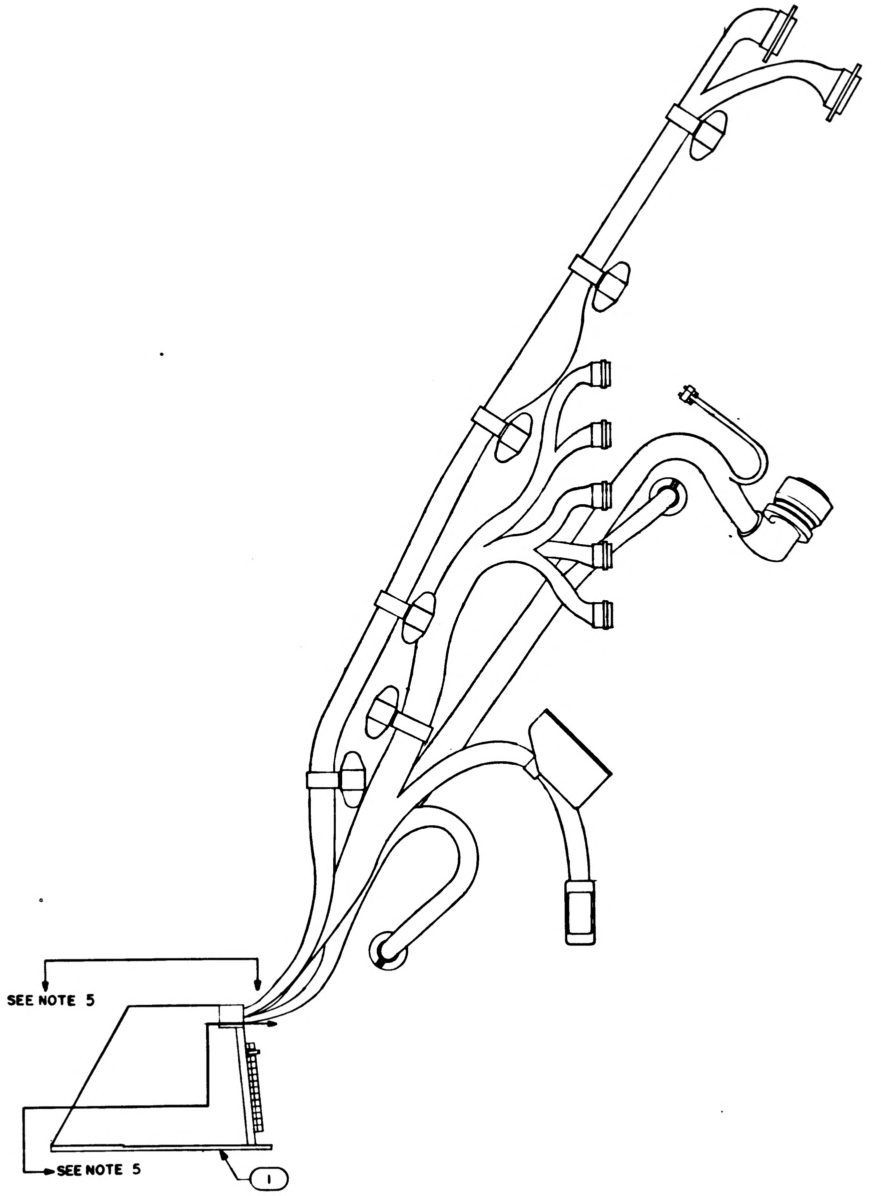
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

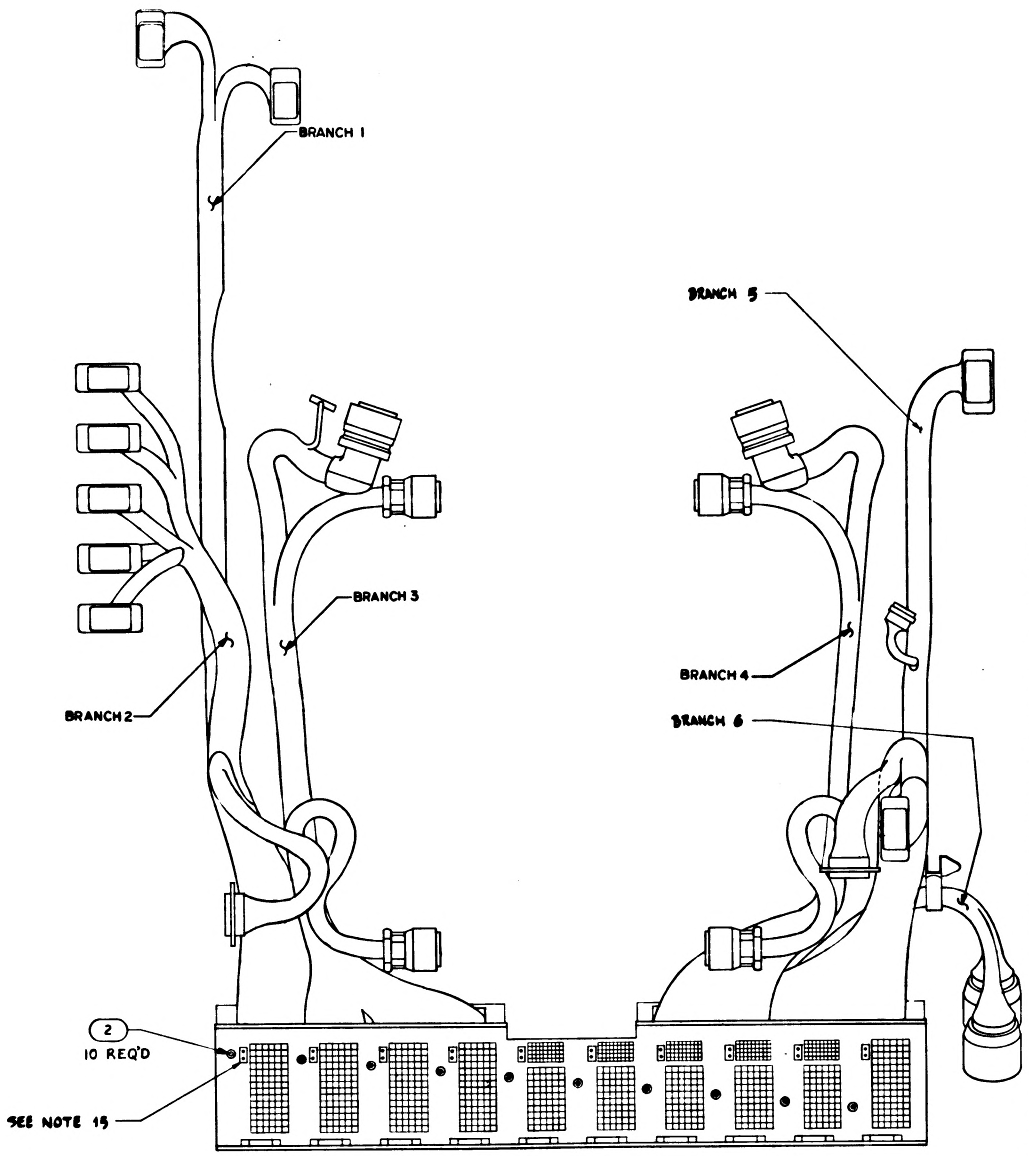
CODE IDENT NO.
SIZE E
NASA DRAWING NO 1014606
SCALE
WT
SHEET 6 OF 6

1014606 N

NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV K WITH CHANGE PER TDRR 12749	5 AUG 64	JWP
		22 May 64	WK
M	REVISED PER TDRR 13300	[illegible]	JWP
N	REVISED PER TDRR 13416	[illegible]	JWP
P	REVISED PER TDRR 16984	9 MAR 65	RJW





NOTES
1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MAXIMUM ENVELOPE AND "E" POINTS FOR ITEM NO. 49 WIRE LIST ARE SHOWN ON SHEET 2 OF THIS DRAWING.
3. BRANCHES 1, 2 AND 3 OF ITEM NO. 48 HARNESS CONFIGURATION ARE SHOWN ON SHEET 3 OF THIS DRAWING.
4. BRANCHES 4, 5 AND 6 OF ITEM NO. 48 HARNESS CONFIGURATION ARE SHOWN ON SHEET 4 OF THIS DRAWING.
5. MARRIAGE CONFIGURATION OF ITEM 48 AND 49 SHOWN ON SHEET 5 OF THIS DRAWING.
6. ENCAPSULATION ENVELOPE IS SHOWN ON SHEET 6 OF THIS DRAWING.
7. MOUNTING TORQUE FOR FIND NO. 2 IS 6.5 IN/LBS.
8. ~~INTERCONNECTION LIST OF AGE HARNESS AND END CONNECTOR ASSEMBLY IS DRAWING NO. 1014607~~
9. INTERCONNECTION DIAGRAM - APOLLO GUIDANCE EQUIPMENT C/M, LOWER EQUIPMENT BAY IS DRAWING NO. 1014523.
10. ASSEMBLE AND TEST PER ATP 1014606.
11. GRID MODULE ON SHEETS 3, 4 AND 5 IS 1 INCH TRUE POSITION.
12. UNLESS OTHERWISE SPECIFIED:
    FEATURE CENTERLINES ON SHEETS 3, 4, AND 5 ARE LOCATED WITHIN ±.25 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN ±.12 INCH.
13. POT BACK OF CONNECTORS PER ND 1002236 USING ITEM 62 FOR 1014606-011 CONFIGURATION.
14. CONNECTOR KEYING CHANGED FROM "N" TO "W" FOR 1021709 CONFIGURATION.
15. TRAY STOPS ARE USED IN 1014606-011 CONFIGURATION.

REPLACES REV "K" WITH CHANGE

QTY REQD -011	QTY REQD -000	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
X	-	1012710	INTERCONNECTION LIST AGC HARNESS	63
AR	-	1012503	COMPOUND, POTTING POLYURETHANE	62
1	-	1021709	WIRING HARNESS A	61
1	-	1007161-011	END CONNECTOR ASSY, PSA	60
-	X	1014607	INTERCONNECTION LIST AGC	59
AR	AR	MIL-I-631	INSULATION MATERIAL, TYPE G, FORM S, CLASS I, 0.005 THICK X 6 IN. X 36 IN. (ES-2749)	58
				57
AR	AR	1010679	ADHESIVE ACTIVATOR	56
AR	AR	1010661	EPOXY, RESIN	55
AR	AR	1006835	AGENT, CURING	54
AR	AR	1006834	COMPOUND, SILICONE RUBBER	53
AR	AR	1006722	THINNER, SILICONE	52
AR	AR	1006721	AGENT, CURING	51
AR	AR	1006720	COMPOUND, SILICONE RUBBER	50
1	1	1014608	WIRE LIST "A A"	49
-	1	1014605	WIRING HARNESS "A"	48
	~~1~~	~~1010642-144~~	~~CONNECTOR PLUG ELEC.~~	47
	~~1~~	~~1010674-1~~	~~CONNECTOR PLUG ELEC.~~	46
	~~1~~	~~1010674-2~~	~~CONNECTOR PLUG ELEC.~~	45
5	5	1010400-1	CLAMP, LOOP, HINGED	44
	~~1~~	~~1010674-4~~	~~CONNECTOR PLUG ELEC.~~	43
	~~1~~	~~1010348-1~~	~~CONNECTOR PLUG ELEC.~~	42
	~~1~~	~~1010674-3~~	~~CONNECTOR PLUG ELEC.~~	41
	~~1~~	~~1010348-2~~	~~CONNECTOR PLUG ELEC.~~	40
	~~1~~	~~1000221~~	~~CONNECTOR RECP. ELEC.~~	39
1	1	AN345C10	NUT, PLAIN HEX	38
1	1	1014609	BRACKET, CLAMP	37
1	1	1010705-8	CLAMP, LOOP	36
	~~5~~	~~1010411-2~~	~~CONNECTOR RECP. ELEC.~~	35
1	1	1010400-7	CLAMP, LOOP, HINGED	34
	~~2~~	~~1000242-21~~	~~FERRULE, OUTER ELEC. COND.~~	33
	~~2~~	~~1000242-30~~	~~FERRULE, OUTER ELEC. COND.~~	32
	~~2~~	~~1000243-26~~	~~FERRULE INNER ELEC. COND.~~	31
	~~2~~	~~1000243-34~~	~~FERRULE, INNER ELEC. COND.~~	30
	~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	29
	~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	28
	~~2~~	~~1010490-222~~	~~INSULATION SLEEVING, HEAT SHRINK~~	27
	~~2~~	~~1010490-216~~	~~INSULATION SLEEVING, HEAT SHRINK~~	26
	~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	25
	~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	24
1	1	1010400-8	CLAMP, LOOP HINGED	23
	~~1~~	~~1010400-4~~	~~CLAMP, LOOP, HINGED~~	22
3	3	1010400-3	CLAMP, LOOP, HINGED	21
1	1	1010400-2	CLAMP, LOOP, HINGED	20
	~~1~~	~~1010671-2~~	~~CONNECTOR PLUG ELEC~~	19
	~~1~~	~~1010671-1~~	~~CONNECTOR PLUG ELEC~~	18
	~~2~~	~~1010607-3~~	~~CONNECTOR RECP ELEC~~	17
	~~1~~	~~1010607-1~~	~~CONNECTOR RECP. ELEC~~	16
	~~4~~	~~1010411-1~~	~~CONNECTOR RECP. ELEC.~~	15
6	6	1006783-47	SCREW BUTTON HEAD	14
1	1	1008164	CABLE CLAMP LEFT	13
1	1	1008165	CABLE CLAMP RIGHT	12
1	1	1008148	CONN PLATE ASSY (264 PINS)	11
1	1	1008149	CONN PLATE ASSY (293 PINS)	10
3	3	MS35649-44	NUT	9
1	1	1010618-13	SCREW BUTTON HEAD	8
3	3	1010618-14	SCREW BUTTON HEAD	7
4	4	MS35335-57	WASHER, LOCK, FLAT, EXTERNAL TOOTH	6
	~~1~~	~~1010642-244~~	~~CONNECTOR PLUG ELEC~~	5
8	8	MS16995-17	SCREW HEX SOCKET HD	4
4	4	MS16995-10	SCREW, HEX SOCKET HD	3
10	10	1008163	PIN, LOCATING	2
-	1	1007161-000	END CONNECTOR ASSEMBLY PSA	1

LIST OF MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO
CONTRACT
DRAWN J. Falzone DATE 5 DEC 63
CHECKED
APPROVAL 12-20-63
APPROVAL 12-20-63
NASA APPROVAL 1/2-30-63
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

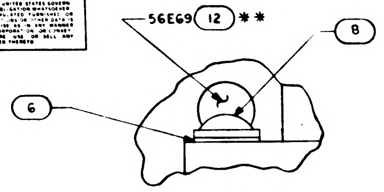
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE E
NASA DRAWING NO 1014606
SCALE 1/2
WT
SHEET 1 OF 6

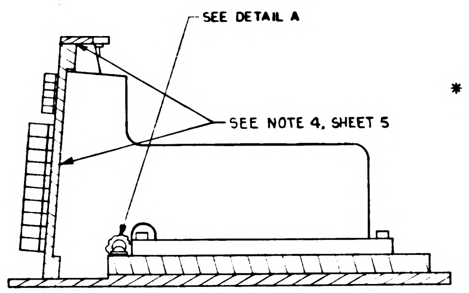
1014606 P

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

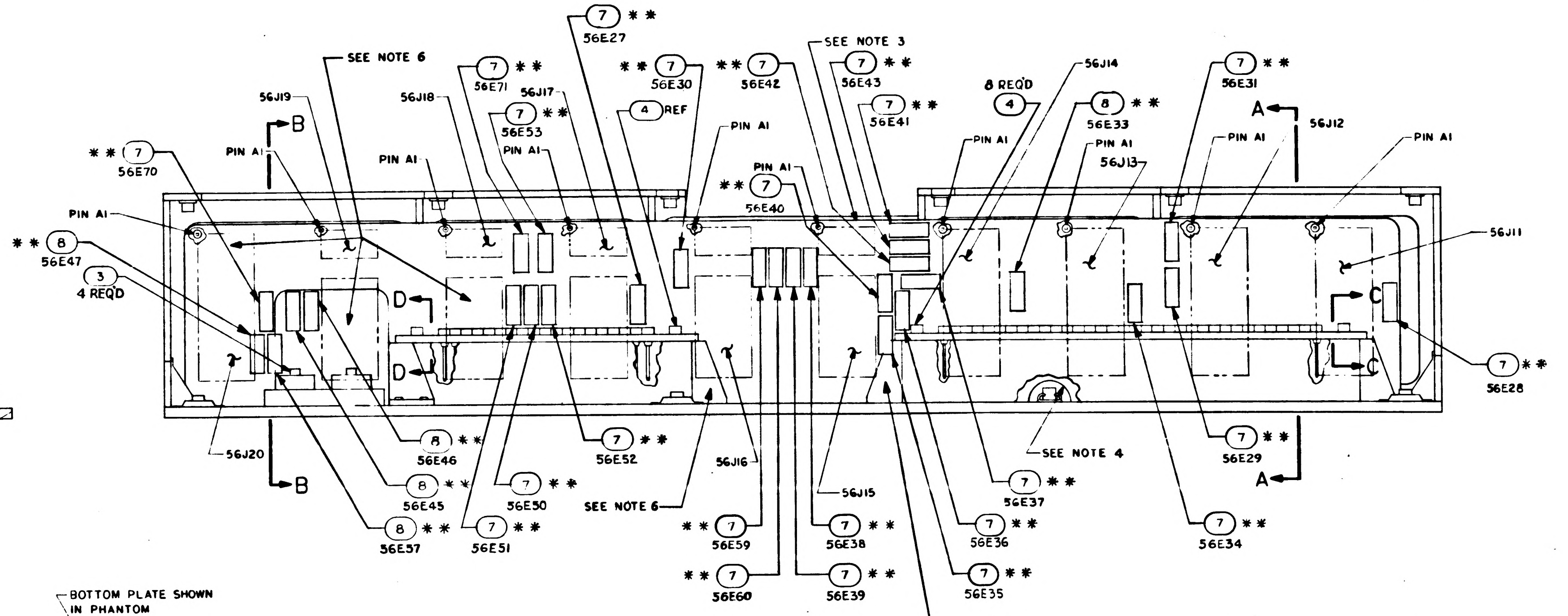
	REVISIONS		
	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV "K" WITH CHANGE PER TDRR 12749	3 AUG 64	JWF
		22/Ap 64	
M	REVISED PER TDRR 133CC	1 OCT 64	
N	REVISED PER TDRR 13416	2 OCT 64	
P	REVISED PER TDRR 16984	9 MAR 65	RW

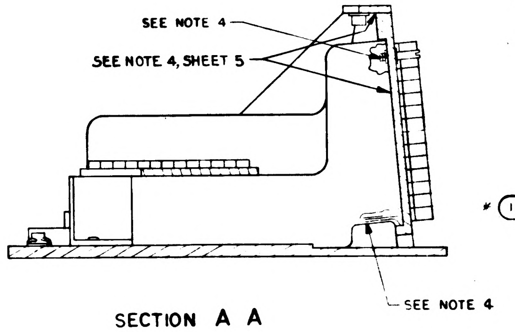


DETAIL A
SCALE 4/1

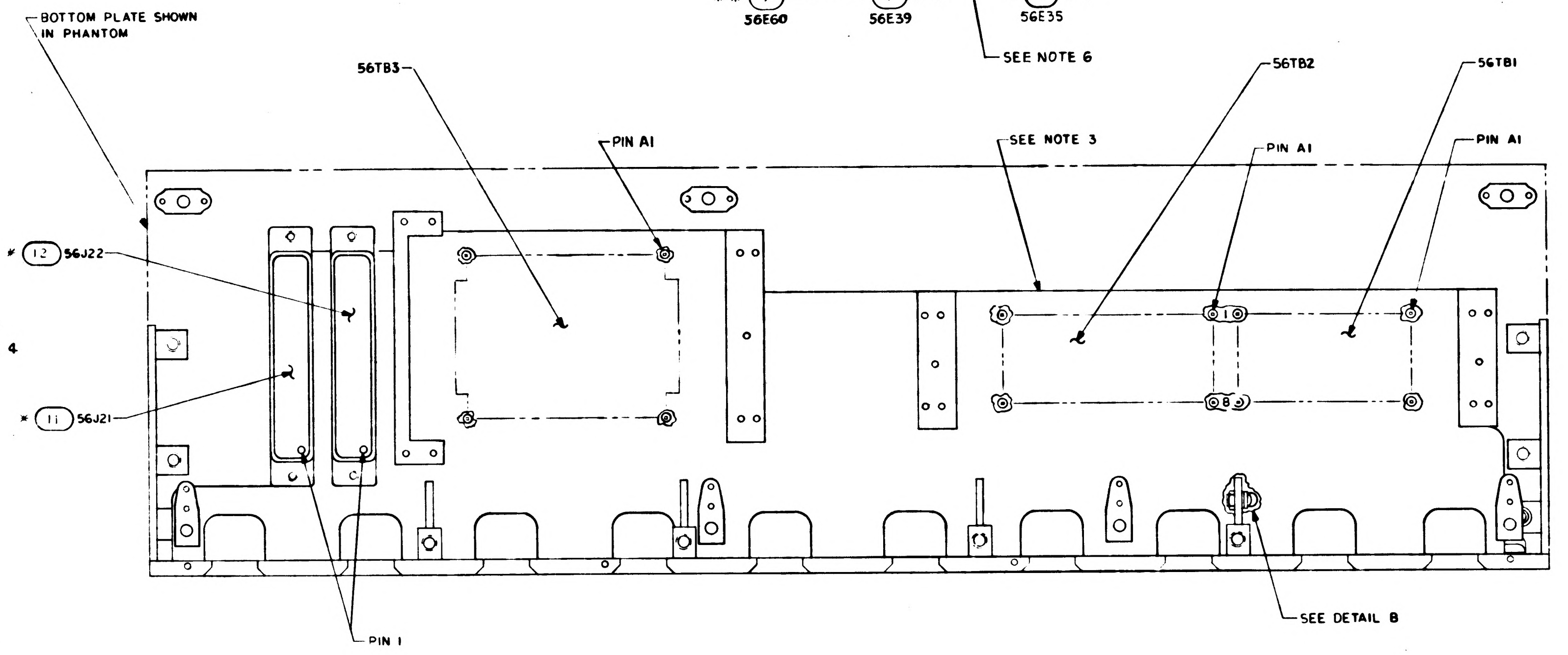

SEE DETAIL A
SEE NOTE 4, SHEET 5

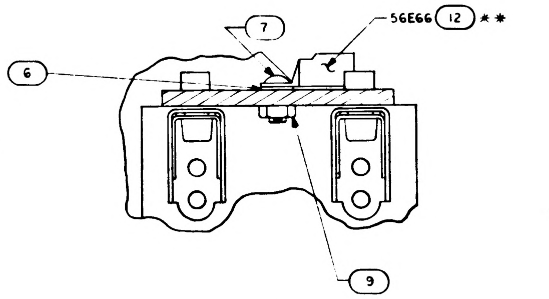
SECTION B B


SEE NOTE 6
56J19
B
56J18
(7) * * 56E71
56J17
(7) * * 56E53
PIN A1
(7) * * 56E27
* * (7) 56E30
(4) REF
* * (7) 56E42
SEE NOTE 3
(7) * * 56E43
(7) * * 56E41
PIN A1
* * (7) 56E40
56J14
8 REQ'D (4)
(8) * * 56E33
PIN A1
56J13
(7) * * 56E31
A
56J12
PIN A1
* * (7) 56E70
PIN A1
* * (8) 56E47
(3) 4 REQD
D
D
56J11
C
C
(7) * * 56E28
56J20
(8) * * 56E46
(8) * * 56E45
(8) * * 56E57
(7) * * 56E50
(7) * * 56E51
(7) * * 56E52
SEE NOTE 6
56J16
56J15
* * (7) 56E59
* * (7) 56E60
(7) * * 56E38
(7) * * 56E39
(7) * * 56E37
(7) * * 56E36
(7) * * 56E35
SEE NOTE 4
(7) * * 56E29
(7) * * 56E34
SEE NOTE 6


SEE NOTE 4
SEE NOTE 4, SHEET 5
SEE NOTE 4

SECTION A A


BOTTOM PLATE SHOWN IN PHANTOM
56TB3
PIN A1
SEE NOTE 3
56TB2
PIN A1
56TB1
PIN A1
* (12) 56J22
* (11) 56J21
PIN 1
SEE DETAIL B

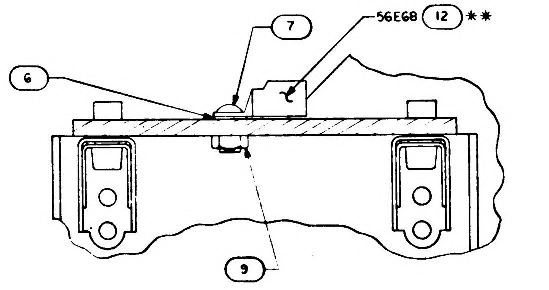

(7)
56E66 (12) * *
(6)
(9)

PARTIAL SECTION C C
SCALE 2/1

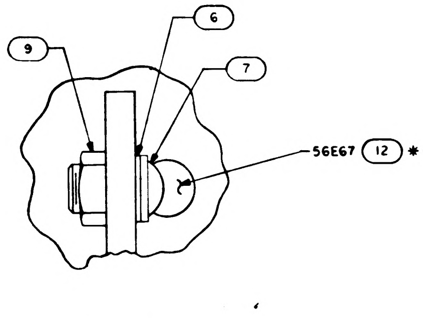
NOTES

1. * * PARTS ARE LISTED ON DWG 1014608
2. REFER TO DWG 1014608 FOR REFERENCE DESIGNATIONS AND WIRE LIST
3. OUTLINE SHOWS MAXIMUM ENVELOPE FOR WIRE LIST AA, 1014608
4. BEFORE WIRING, COVER THREADS AND OTHER SHARP EDGES WITH SILICON RUBBER PER ND1002009, METHOD B

5 * PARTS NOTED ARE LISTED ON DRAWING 1014605 OR 1021709.
6. PROTECT WIRING FROM SHARP EDGES USING ITEM 58


(7)
56E68 (12) * *
(6)
(9)

PARTIAL SECTION D D
SCALE 2/1


(6)
(9)
(7)
56E67 (12) * *

DETAIL B
SCALE 4/1

REPLACES REV "K" WITH CHANGE

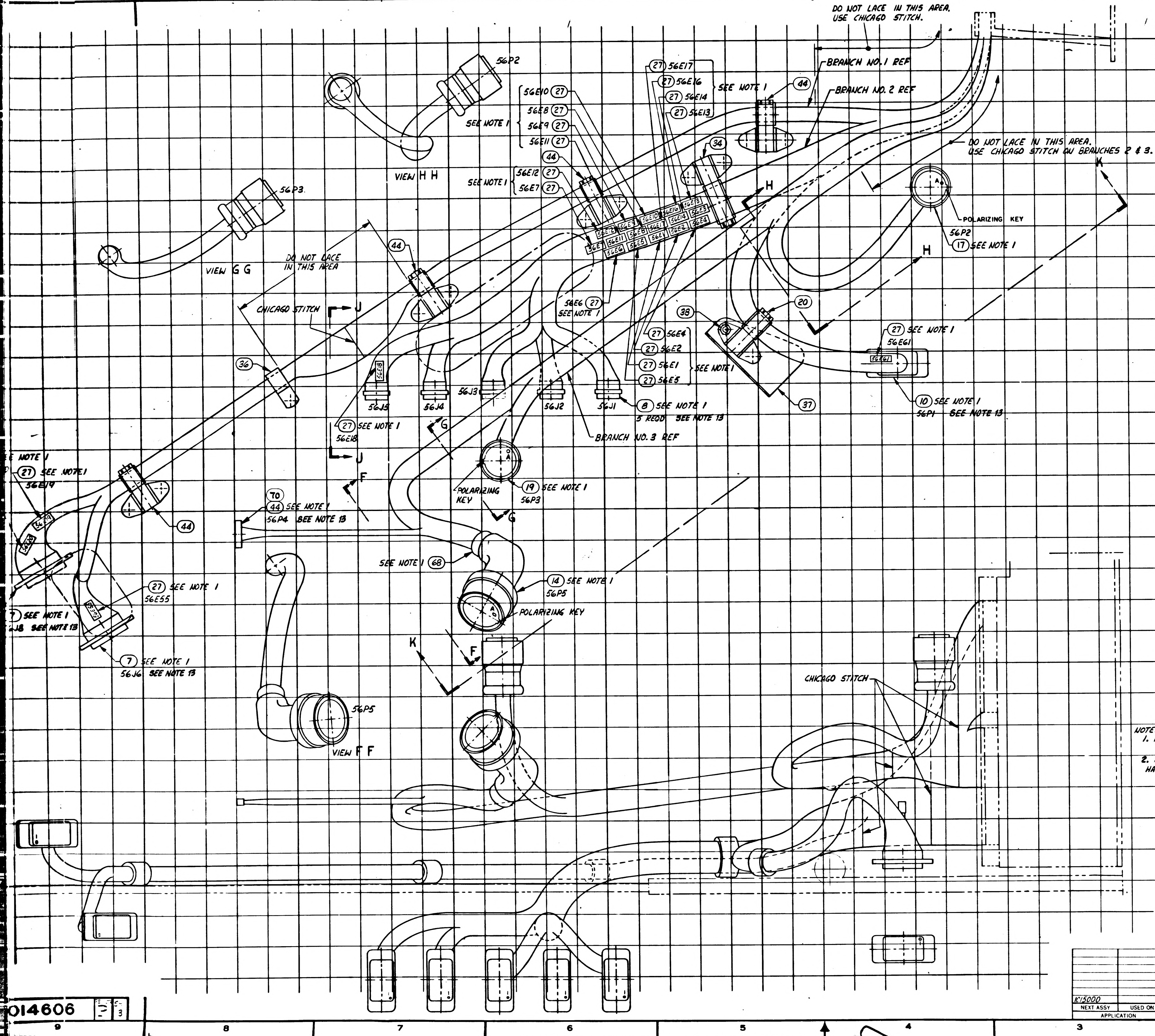
QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ± DO NOT SCALE THIS DRAWING	MIT INSTRUMENTATION LAB CAMBRIDGE MASS DWG NO CONTRACT	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
APPLICATION		MATERIAL	DRAWN Falzone DATE Dec 63 CHECKED APPROVAL 12-31-63 APPROVAL 12-30-63	AGE HARNESS AND PSA END CONNECTOR ASSEMBLY
		HEAT TREATMENT FINAL FINISH	NASA APPROVAL 12-30-63 MIT APPROVAL 30 Dec 63	CODE IDENT NO · SIZE E · NASA DRAWING NO 1014606
				SCALE 1/1 · WT · SHEET 2 OF 6

1014606 P

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV K WITH CHANGE PER TDRR 12749	—	[illegible]	[illegible]
				[illegible]	
M		REVISED PER TDRR 13300		[illegible]	[illegible]
N		REVISED PER TDRR 3416		[illegible]	[illegible]
P		REVISED PER TDRR 16984		9 MAR 65	[illegible]


DO NOT LACE IN THIS AREA. USE CHICAGO STITCH.
BRANCH NO. 1 REF
BRANCH NO. 2 REF
DO NOT LACE IN THIS AREA. USE CHICAGO STITCH ON BRANCHES 2 & 3.
56P2
VIEW H H
56P3.
VIEW G G
DO NOT LACE IN THIS AREA
CHICAGO STITCH
56E10 27
56E8 27
56E9 27
56E11 27
SEE NOTE 1
44
56E12 27
56E7 27
27 56E17
27 56E16
27 56E14
27 56E13
SEE NOTE 1
44
34
H
K
POLARIZING KEY
56P2
17 SEE NOTE 1
H
44
J
36
56E6 27
SEE NOTE 1
38
20
27 56E4
27 56E2
27 56E1
27 56E5
SEE NOTE 1
27 SEE NOTE 1
56E61
37
10 SEE NOTE 1
56P1 SEE NOTE 13
56J5
56J4
56J3
56J2
56J1
8 SEE NOTE 1
5 REQD SEE NOTE 13
BRANCH NO. 3 REF
27 SEE NOTE 1
56E18
J
G
F
POLARIZING KEY
19 SEE NOTE 1
56P3
G
SEE NOTE 1
27 SEE NOTE 1
56E19
44
70
44 SEE NOTE 1
56P4 SEE NOTE 13
SEE NOTE 1 68
14 SEE NOTE 1
56P5
POLARIZING KEY
27 SEE NOTE 1
56E55
7 SEE NOTE 1
J8 SEE NOTE 13
7 SEE NOTE 1
56J6 SEE NOTE 13
K
F
56P5
VIEW F F
CHICAGO STITCH

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605 OR 1021709.

2. REFER TO DRAWING 1014605 OR 1021709 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

REPLACES REV"K" WITH CHANGE

1C15000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL ——
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN [illegible] DATE 20 JUN 64
CHECKED J. GRIEB 23 JUN 64
APPROVAL [illegible] 23 [illegible]
APPROVAL [illegible] 23 [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

AGE HARNESS AND PSA END
CONNECTOR ASSEMBLY

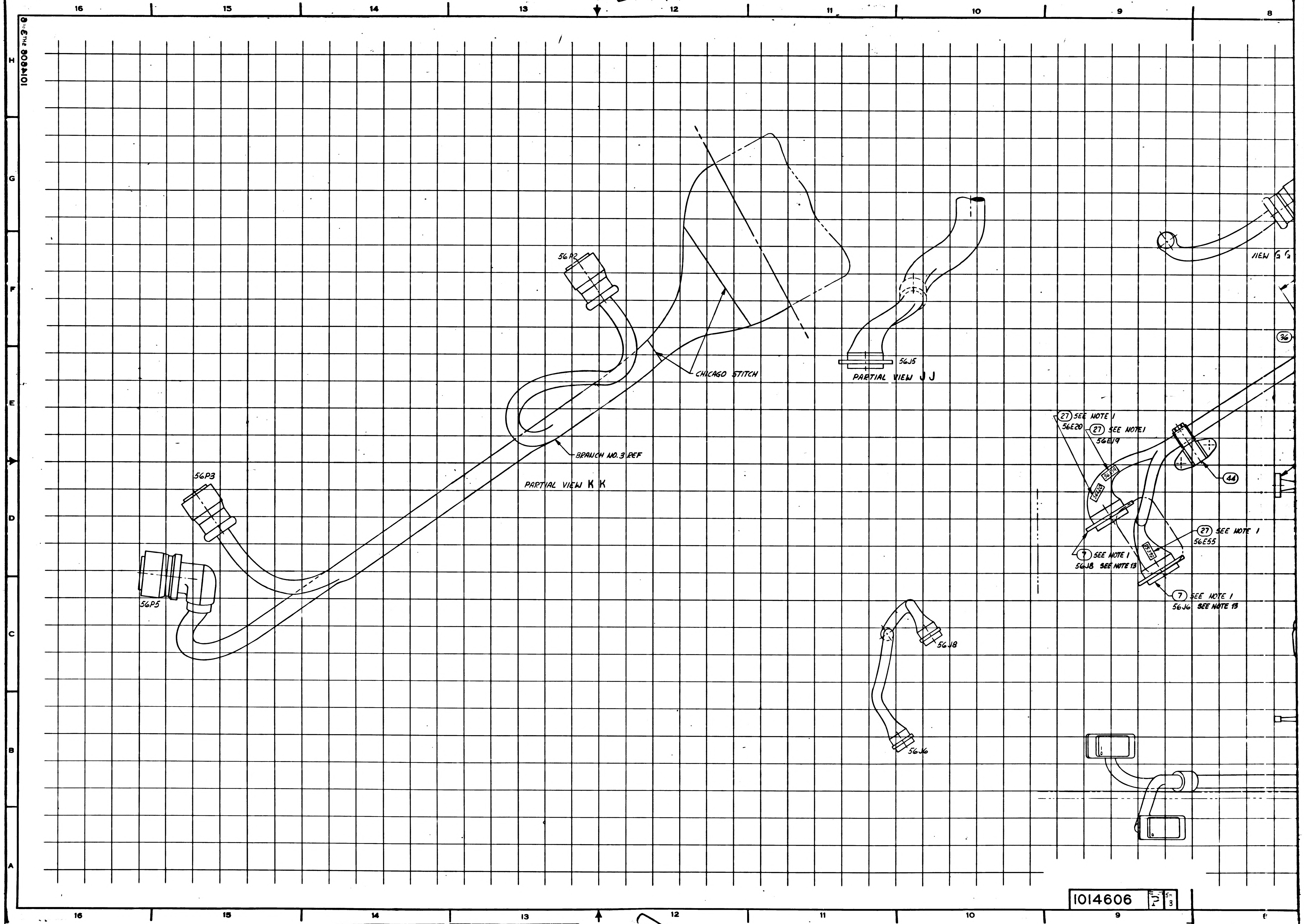
CODE IDENT NO. SIZE J2 1014606
SCALE 1:1 SHEET 3 OF 6

1014606 L

014606 3

2/1014606

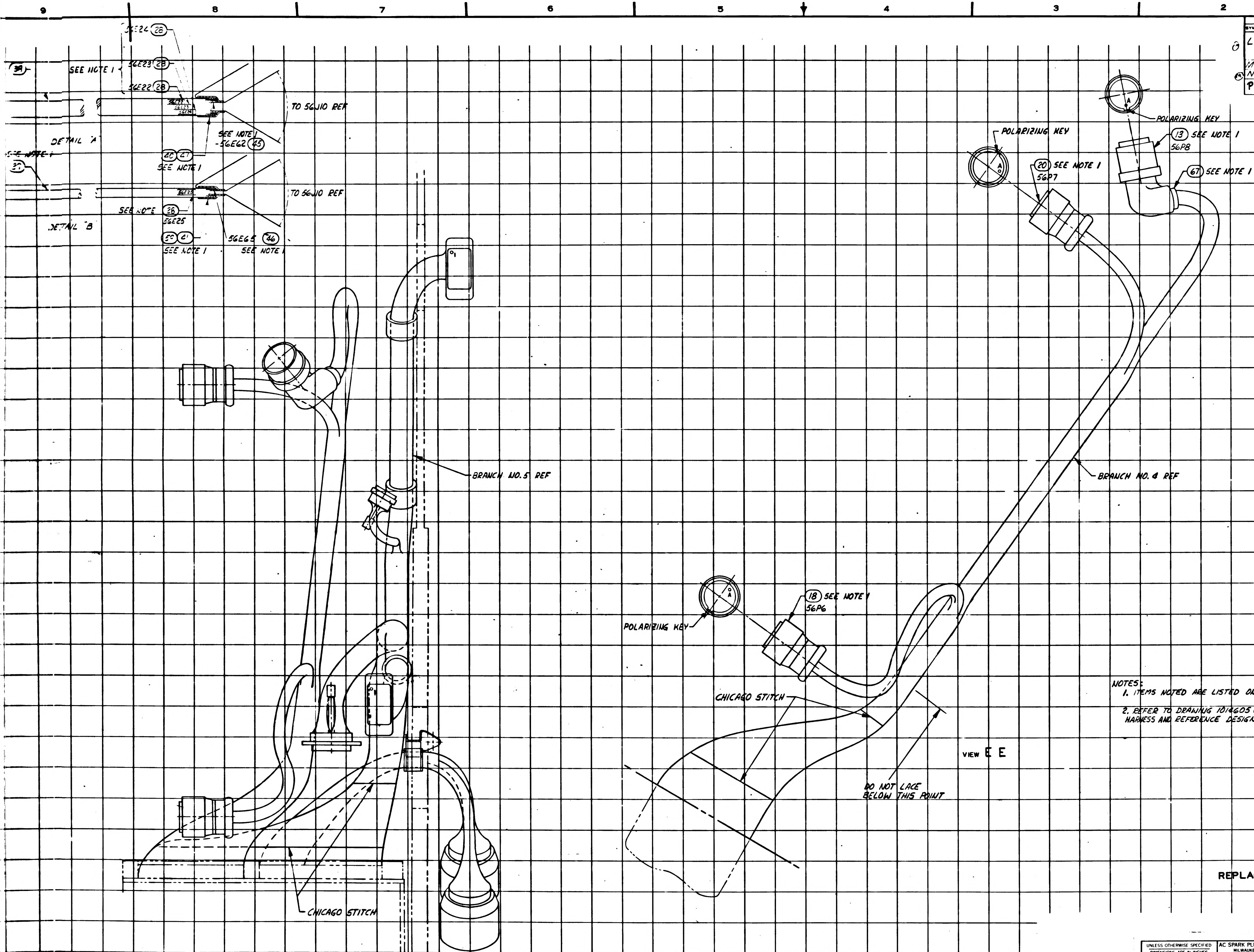
1014606 SHT 3 OF 8


16
15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A
56P2
CHICAGO STITCH
BRANCH NO. 3 REF
PARTIAL VIEW K K
56P3
56P5
56J5
PARTIAL VIEW J J
VIEW G G
36
27 SEE NOTE 1
56E20
27 SEE NOTE 1
56E19
56E19
56E20
44
27 SEE NOTE 1
56E55
56E55
7 SEE NOTE 1
56J8 SEE NOTE 13
7 SEE NOTE 1
56J6 SEE NOTE 13
56J8
56J6

1014606 | SH 3

17/1014606

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV K WITH CHANGE PER TDRR 12749	—		
		REVISED PER TDRR			
M		REVISED PER TDRR 13300		19	
N		REVISED PER TDRR 13416		21	
P		REVISED PER TDRR 16984		9 MAR 69	RJJ



56E24 (28)
56E23 (28)
56E22 (28)
SEE NOTE 1
(39)
TO 56J10 REF
SEE NOTE 1
56E62 (45)
DETAIL "A"
SEE NOTE 1
(37)
(40) (47)
SEE NOTE 1
TO 56J10 REF
SEE NOTE (28)
56E25
DETAIL "B"
(50) (41)
SEE NOTE 1
56E65 (46)
SEE NOTE 1
BRANCH NO. 5 REF
CHICAGO STITCH
POLARIZING KEY
(13) SEE NOTE 1
56P8
POLARIZING KEY
(20) SEE NOTE 1
56P7
(67) SEE NOTE 1
BRANCH NO. 4 REF
(18) SEE NOTE 1
56P6
POLARIZING KEY
CHICAGO STITCH
DO NOT LACE BELOW THIS POINT
VIEW E E
A

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605 OR 1021709.
2. REFER TO DRAWING 1014605 OR 1021709 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

REPLACES REV K WITH CHANGE

1015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 22 JUN 64
CHECKED J. GRIEB 23 JUN 64
APPROVAL 23
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

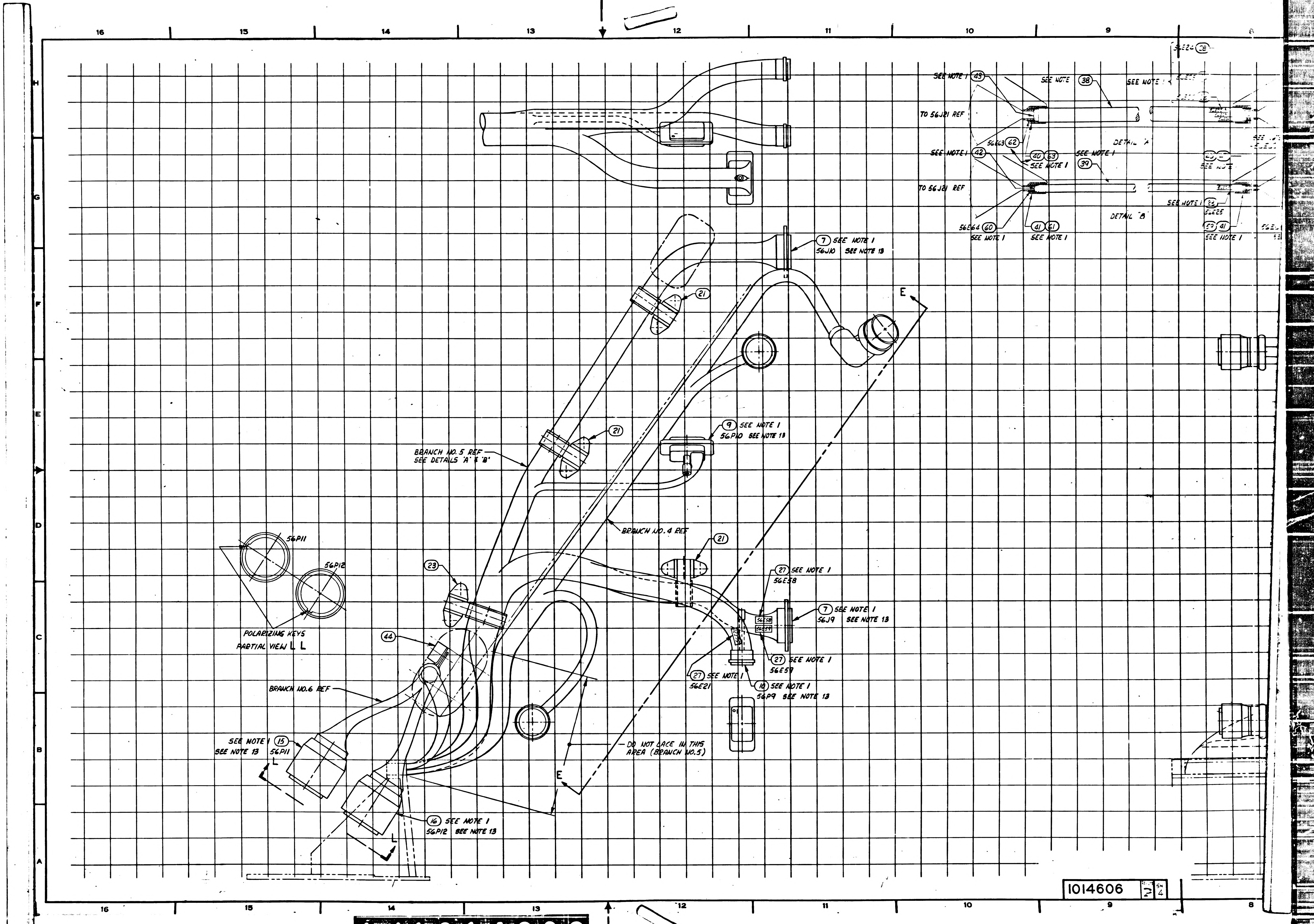
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO
SIZE
1014606
SCALE 1:1
SHEET 4 OF 6

1014606 P

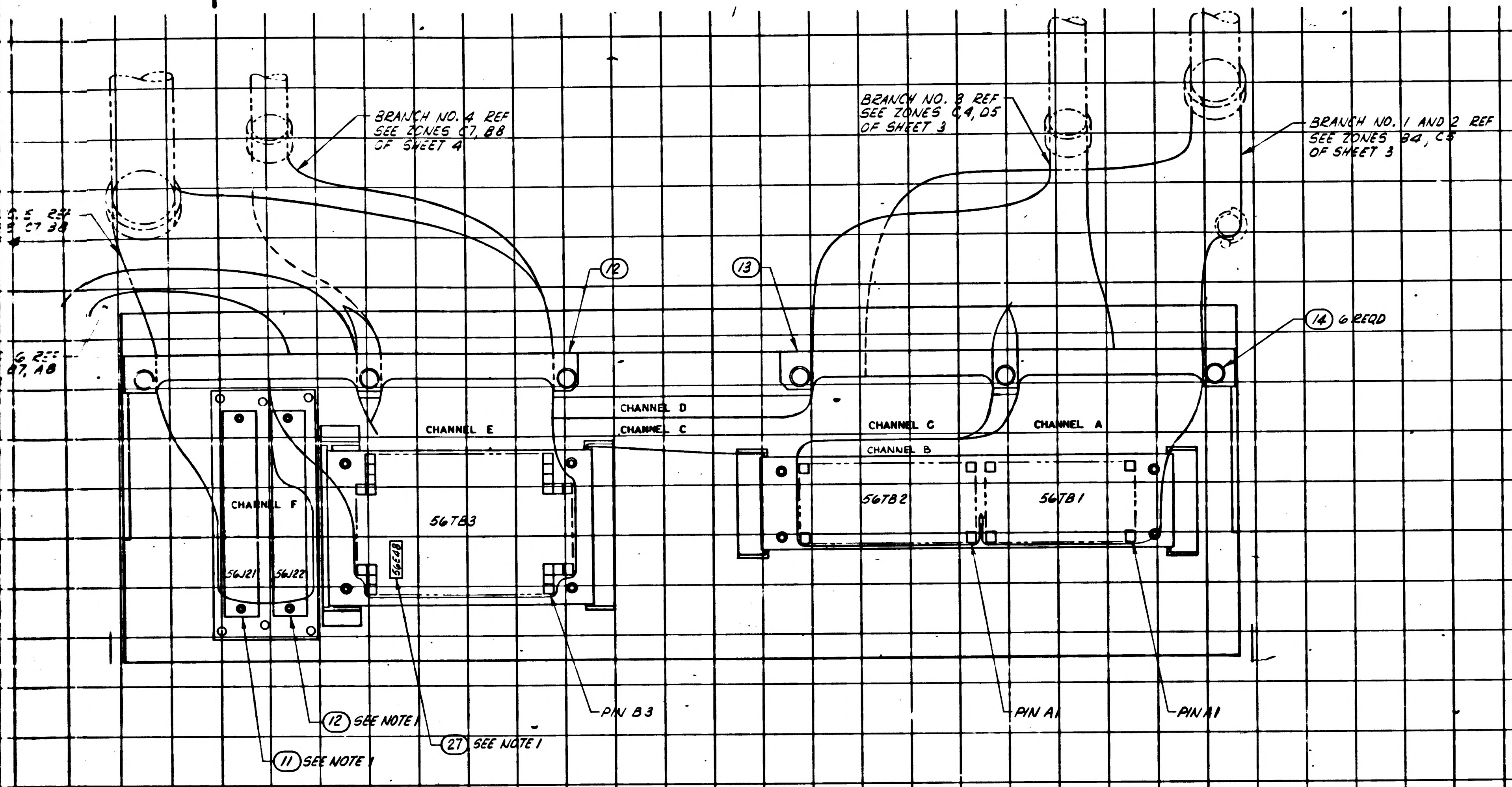
014606 5/4

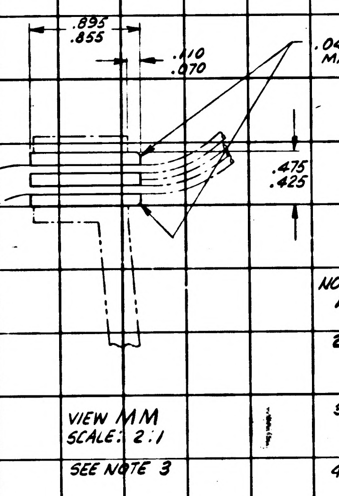
2/1014606


16
15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A
SEE NOTE 1 (43)
TO 56J21 REF
SEE NOTE (38)
SEE NOTE 1
56E24 (28)
56E63 (62)
SEE NOTE 1 (42)
(40) (63) SEE NOTE 1
SEE NOTE 1 (39)
DETAIL "A"
TO 56J21 REF
DETAIL "B"
SEE NOTE 1 (28)
56E25
56E64 (60) SEE NOTE 1
(41) (61) SEE NOTE 1
(59) (41) SEE NOTE 1
(7) SEE NOTE 1
56J10 SEE NOTE 13
(21)
E
(21)
(9) SEE NOTE 1
56P10 SEE NOTE 13
BRANCH NO. 5 REF
SEE DETAILS 'A' & 'B'
BRANCH NO. 4 REF
(21)
56P11
56P12
(23)
(27) SEE NOTE 1
56E58
(7) SEE NOTE 1
56J9 SEE NOTE 13
56E58
56E59
(27) SEE NOTE 1
56E59
(27) SEE NOTE 1
56E21
(10) SEE NOTE 1
56P9 SEE NOTE 13
(44)
POLARIZING KEYS
PARTIAL VIEW L L
BRANCH NO. 6 REF
SEE NOTE 1 (15)
SEE NOTE 13 56P11
L
DO NOT LACE IN THIS
AREA (BRANCH NO. 5)
E
(16) SEE NOTE 1
56P12 SEE NOTE 13
L
1014606
SH 4

1-/1014606

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV "K" WITH CHANGE PER TDRR 12749	—		WP
M		REVISED PER TDRR 13300			WP
N		REVISED PER TDRR 13416			
P		REVISED PER TDRR 16984		9 MAR 65	RW


BRANCH NO. 4 REF
SEE ZONES C7, B8
OF SHEET 4
BRANCH NO. 3 REF
SEE ZONES C4, D5
OF SHEET 3
BRANCH NO. 1 AND 2 REF
SEE ZONES B4, C5
OF SHEET 3
E 2
C7 3
G 2
B7, A8
(12)
(13)
(14) 6 REQD
CHANNEL D
CHANNEL C
CHANNEL E
CHANNEL C
CHANNEL A
CHANNEL B
CHANNEL F
56TB3
56TB2
56TB1
56J21
56J22
56E4B
PIN B3
PIN A1
PIN A1
(12) SEE NOTE 1
(27) SEE NOTE 1
(11) SEE NOTE 1


.895
.855
.110
.070
.047R
MAX.
.475
.425

VIEW MM
SCALE: 2:1

SEE NOTE 3

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605 OR 1021709.

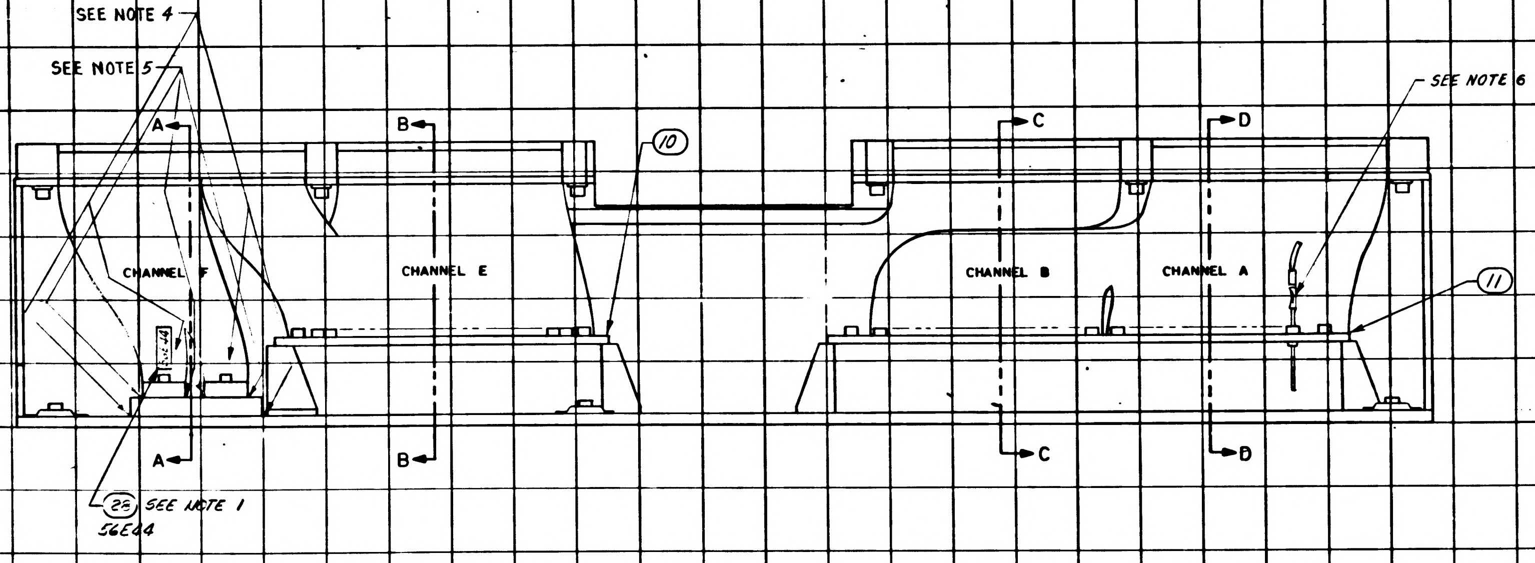
2. REFER TO DRAWING 1014605 OR 1021709 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

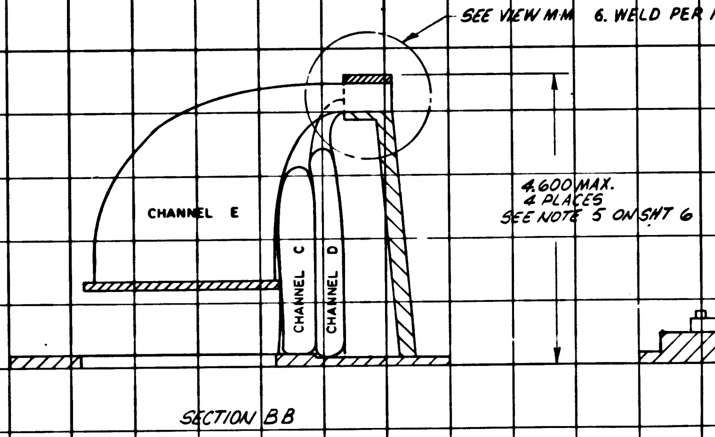
3. ASSEMBLE AND ENCAPSULATE IN ACCORDANCE WITH ATP 1014606 USING ITEM NO'S (50), (51) AND (52) PER ND1002009, METHOD A.

4. APPLY EPOXY PER ND 1002187 USING ITEMS (55) AND (56) AROUND ENTIRE LENGTH OF NOTED SURFACES, AT THE REAR OF CONNECTORS 56J21 AND 56J22 AND BEHIND CONNECTORS 56J11 THRU 56J20 TO HEIGHT SUFFICIENT TO COVER NYLON INSULATORS.

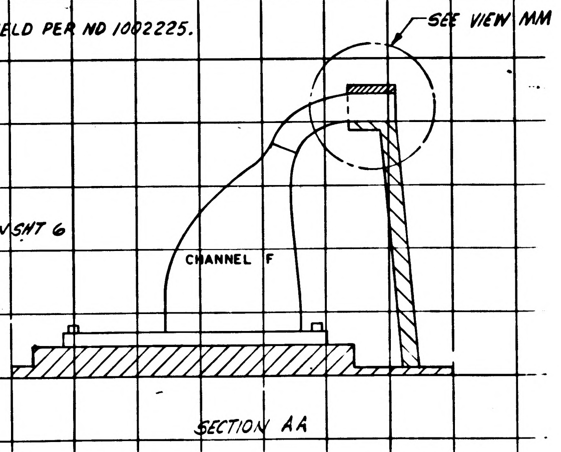
5. APPLY SILICONE RUBBER PER ND1002009, METHOD B, USING ITEMS (53) AND (54) AROUND ENTIRE LENGTH OF CONNECTORS 56J21 AND 56J22.

6. WELD PER ND 1002225.


SEE NOTE 4
SEE NOTE 5
SEE NOTE 6
A
B
C
D
(10)
(11)
CHANNEL F
CHANNEL E
CHANNEL B
CHANNEL A
A
B
C
D
(25) SEE NOTE 1
56E44


SEE VIEW MM
CHANNEL E
CHANNEL C
CHANNEL D
4.600 MAX.
4 PLACES
SEE NOTE 5 ON SHT 6

SECTION BB


SEE VIEW MM
CHANNEL F

SECTION AA

REPLACES REV K WITH CHANGE

015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

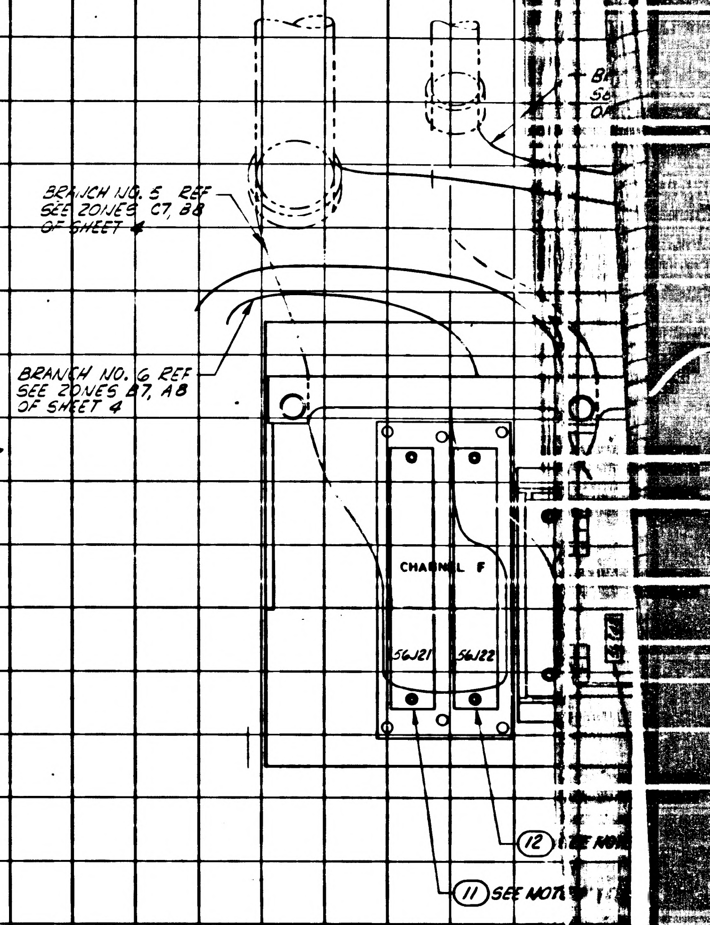
AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE
CHECKED J. GRIEB 23JUN64
APPROVAL 23 JUN 64
APPROVAL 24 JUN 64
NASA APPROVAL
MIT APPROVAL

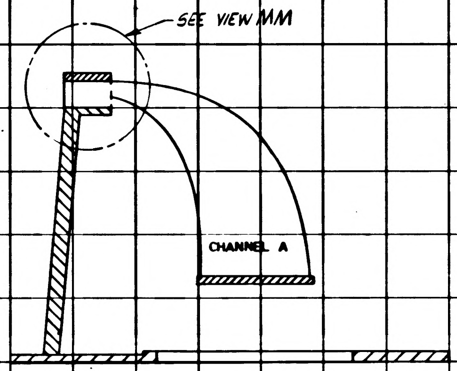
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA END
CONNECTOR ASSEMBLY

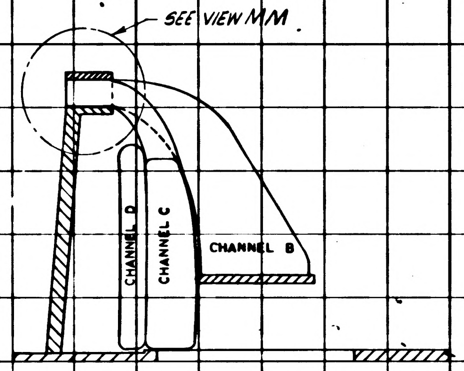
CODE IDENT NO
SIZE J2
1014606
SCALE 1/1
SHEET 5 OF 6

2/1014606

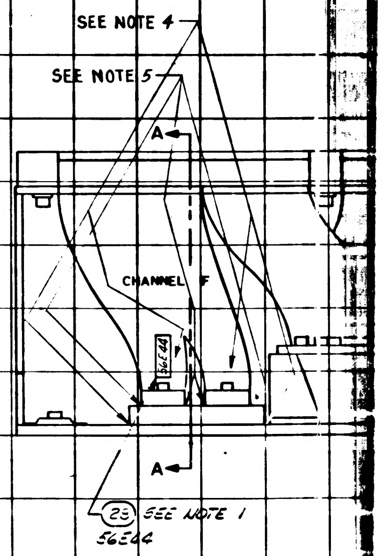

BRANCH NO. 5 REF
SEE ZONES C7, B8
OF SHEET 4
BRANCH NO. 6 REF
SEE ZONES B7, A8
OF SHEET 4
CHANNEL F
56J21
56J22
(12)
(11) SEE NOT


SEE VIEW MM
CHANNEL A

SECTION D D


SEE VIEW MM
CHANNEL D
CHANNEL C
CHANNEL B

SECTION C C


SEE NOTE 4
SEE NOTE 5
A
CHANNEL F
56E44
A
(23) SEE NOTE 1
56E44

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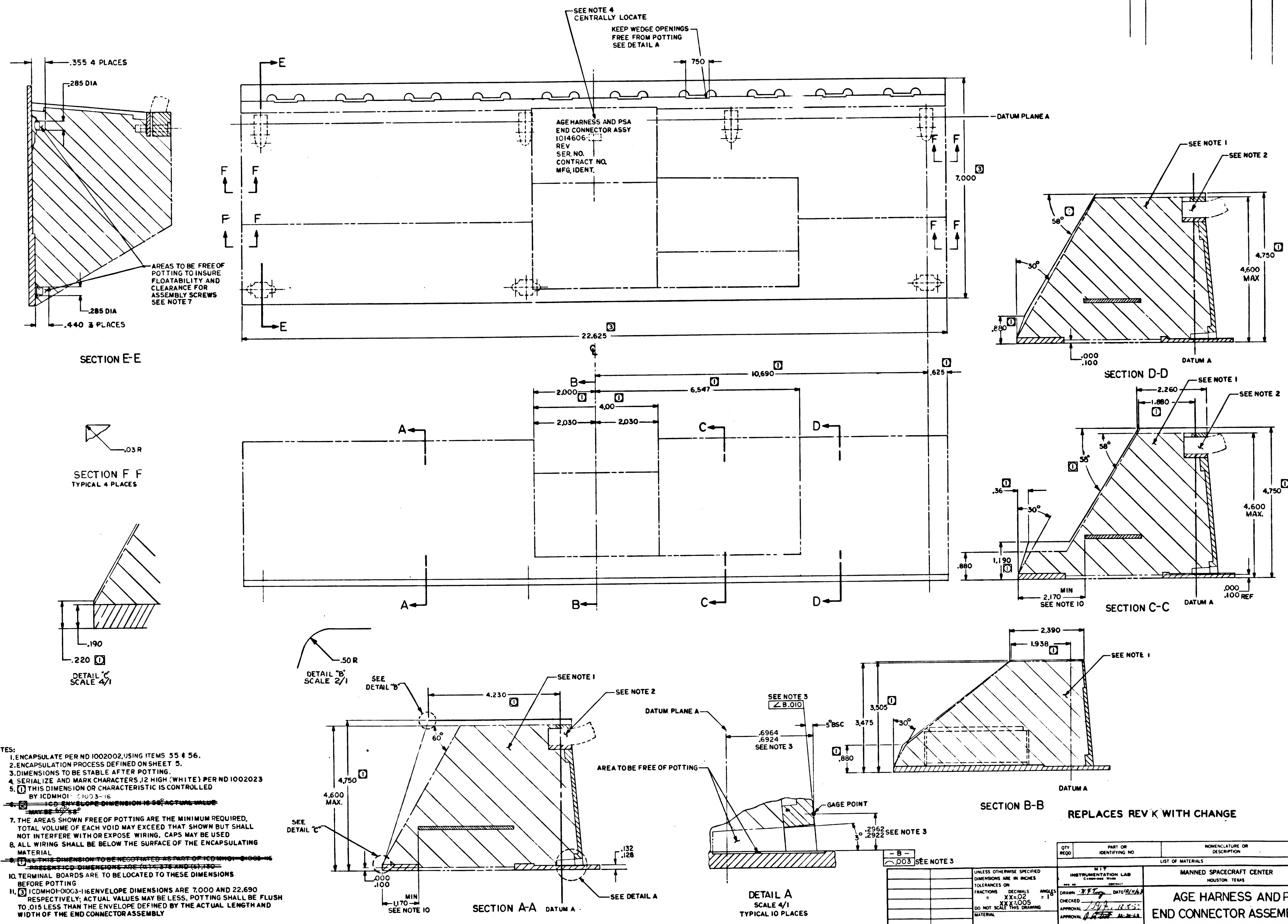
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV "K" WITH CHANGE PER TDRR 12749	3 AUG 64	JWP
		22 Aug 64	WR
M	REVISED PER TDRR 13300	19 OCT 64	JWP
N	REVISED PER TDRR 13416	2 OCT 64	
P	REVISED PER TDRR 16984	9 MAR 65	RJW AU



SEE NOTE 4
CENTRALLY LOCATE
KEEP WEDGE OPENINGS FREE FROM POTTING SEE DETAIL A
.750
DATUM PLANE A
AGE HARNESS AND PSA END CONNECTOR ASSY 1014606-
REV
SER. NO.
CONTRACT NO.
MFG. IDENT.
7.000 3
22.625 3
E
F
.355 4 PLACES
.285 DIA
AREAS TO BE FREE OF POTTING TO INSURE FLOATABILITY AND CLEARANCE FOR ASSEMBLY SCREWS SEE NOTE 7
.285 DIA
.440 3 PLACES
SECTION E-E
.03 R
SECTION F F
TYPICAL 4 PLACES
.190
.220 1
DETAIL "C"
SCALE 4/1
.50 R
DETAIL "B"
SCALE 2/1
10.690 1
.625 1
2.000 1
6.547 1
4.00 1
2.030
2.030
A
B
C
D
SEE NOTE 1
SEE NOTE 2
58° 1
30°
.880 1
4.600 MAX
4.750 1
.000
.100
DATUM A
SECTION D-D
2.260
1.880 1
58°
.36 1
1.190 1
.880
2.170 MIN SEE NOTE 10
.000 .100 REF
SECTION C-C
2.390
1.938 1
3.505 1
3.475
30°
.880 1
SECTION B-B
SEE DETAIL "B"
4.230 1
60°
4.750 1
4.600 MAX.
SEE DETAIL "C"
.000
.100
1.170 MIN SEE NOTE 10
.132
.128
SEE DETAIL A
SECTION A-A
DATUM A
SEE NOTE 3
∠ B .010
DATUM PLANE A
5° BSC
.6964
.6924
SEE NOTE 3
AREA TO BE FREE OF POTTING
GAGE POINT
3°
.2962
.2922 SEE NOTE 3
– B –
⌒ .003 SEE NOTE 3
DETAIL A
SCALE 4/1
TYPICAL 10 PLACES

NOTES:

1. ENCAPSULATE PER ND 1002002, USING ITEMS 55 & 56.
2. ENCAPSULATION PROCESS DEFINED ON SHEET 5.
3. DIMENSIONS TO BE STABLE AFTER POTTING.
4. SERIALIZE AND MARK CHARACTERS .12 HIGH (WHITE) PER ND 1002023
5. 1 THIS DIMENSION OR CHARACTERISTIC IS CONTROLLED BY ICDMH01-01003-116
6. ~~2 ICD ENVELOPE DIMENSION IS 58°, ACTUAL VALUE MAY BE 60°/58°~~
7. THE AREAS SHOWN FREE OF POTTING ARE THE MINIMUM REQUIRED. TOTAL VOLUME OF EACH VOID MAY EXCEED THAT SHOWN BUT SHALL NOT INTERFERE WITH OR EXPOSE WIRING. CAPS MAY BE USED
8. ALL WIRING SHALL BE BELOW THE SURFACE OF THE ENCAPSULATING MATERIAL
9. ~~1 & THIS DIMENSION TO BE NEGOTIATED AS PART OF ICDMH01-01003-116 PRESENT ICD DIMENSIONS ARE (a) 4.375 AND (b) .130~~
10. TERMINAL BOARDS ARE TO BE LOCATED TO THESE DIMENSIONS BEFORE POTTING
11. 3 ICDMH01-01003-116 ENVELOPE DIMENSIONS ARE 7.000 AND 22.690 RESPECTIVELY; ACTUAL VALUES MAY BE LESS. POTTING SHALL BE FLUSH TO .015 LESS THAN THE ENVELOPE DEFINED BY THE ACTUAL LENGTH AND WIDTH OF THE END CONNECTOR ASSEMBLY

REPLACES REV K WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS XX±.02 XXX±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS
DWG NO CONTRACT
DRAWN W.F. Tracy DATE 12/11/63
CHECKED
APPROVAL 12-6-63
APPROVAL 12-20-63
NASA APPROVAL W. J. 12-30-63
MIT APPROVAL W. Coffee 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO.
SIZE E
NASA DRAWING NO 1014606
SCALE
WT
SHEET 6 OF 6

1014606 P

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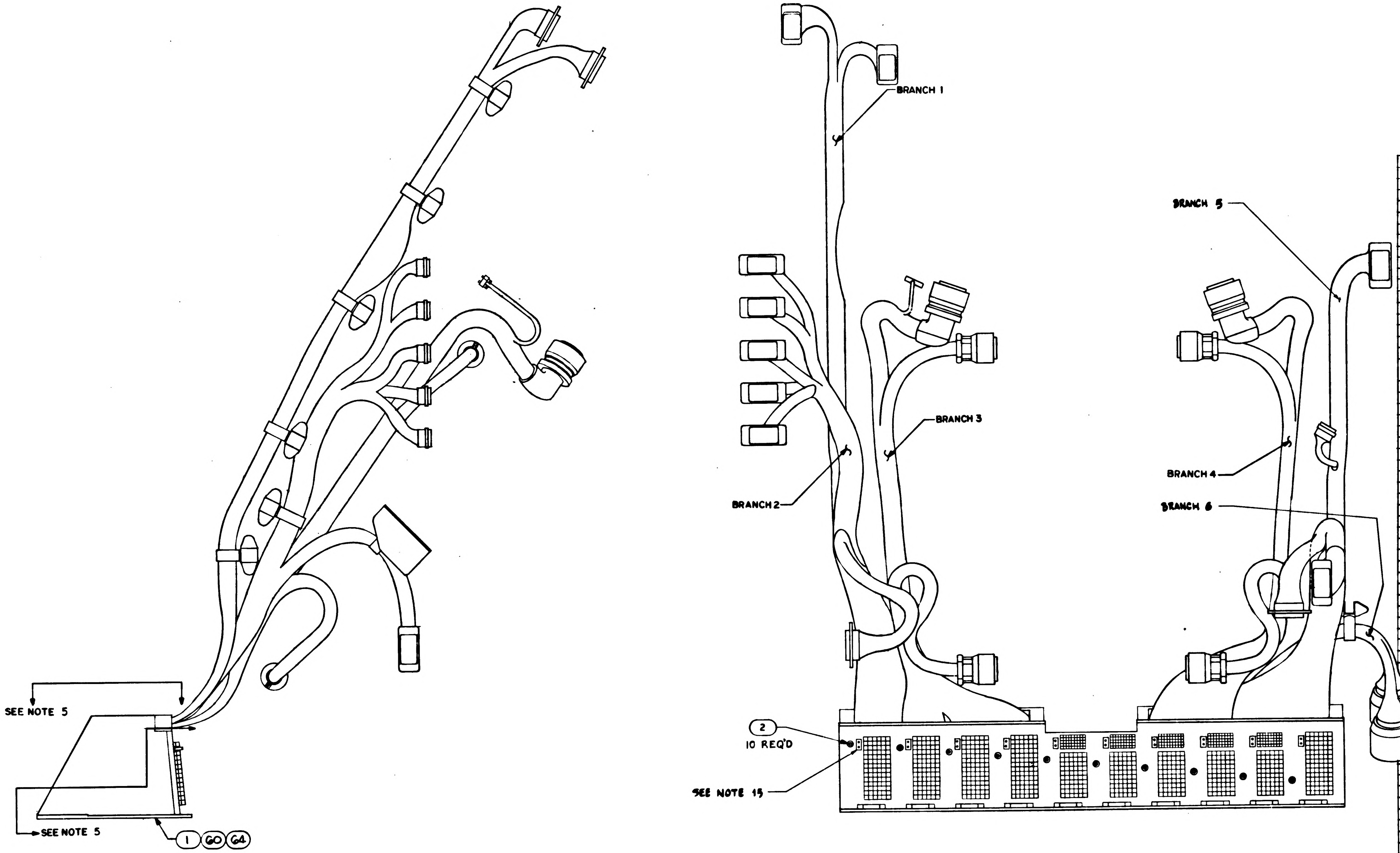
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
Ⓜ L	REPLACES REV. K WITH CHANGE PER TDRR 12749	5 AUG 64	JWP
		22 Aug 64	WK
M	REVISED PER TDRR 13300	19 OCT 64	JWP
Ⓜ N	REVISED PER TDRR 13416	21 OCT 64	JWP
Ⓜ P	REVISED PER TDRR 16984	9 MAR 65	RW AU
R	REVISED PER TDRR 19880	9 JUN 65	GM EF



QTY REQD -021	QTY REQD -011	QTY REQD -000	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	AR	AR	1010798-2	ACTIVATOR	75
AR	AR	AR	1010798-1	RESIN	74
1	1	1	1021253-8	SPACER	73
1	1	1	1021253-7	SPACER	72
2	2	2	1021253-6	SPACER	71
2	2	2	1021253-5	SPACER	70
1	1	1	1021253-4	SPACER	69
1	1	1	1021253-3	SPACER	68
2	2	2	1021253-2	SPACER	67
2	2	2	1021253-1	SPACER	66
1	-	-	1021716	WIRING HARNESS A	65
1	-	-	1007161-021	END CONNECTOR ASSY PSA	64
X	X	-	1021710	INTERCONNECTION LIST AGE HARNESS	63
AR	AR	-	1012503	COMPOUND, POTTING POLYURETHANE	62
-	1	-	1021709	WIRING HARNESS A	61
-	1	-	1007161-011	END CONNECTOR ASSY, PSA	60
-	-	X	1014607	INTERCONNECTION LIST AGE	59
AR	AR	AR	MIL-I-631	INSULATION MATERIAL TYPE G FORM S, CLASS I, 0.005 THICK X 6 IN. X 36 IN. (ES-2749)	58
					57
AR	AR	AR	1010679	ADHESIVE ACTIVATOR	56
AR	AR	AR	1010661	EPOXY, RESIN	55
AR	AR	AR	1006835	AGENT, CURING	54
AR	AR	AR	1006834	COMPOUND, SILICONE RUBBER	53
AR	AR	AR	1006722	THINNER, SILICONE	52
AR	AR	AR	1006721	AGENT, CURING	51
AR	AR	AR	1006720	COMPOUND, SILICONE RUBBER	50
1	1	1	1014608	WIRE LIST "A A"	49
-	-	1	1014605	WIRING HARNESS "A"	48
		~~1~~	~~1010642-144~~	~~CONNECTOR PLUG ELEC~~	47
		~~1~~	~~1010674-1~~	~~CONNECTOR PLUG ELEC.~~	46
		~~1~~	~~1010674-2~~	~~CONNECTOR PLUG ELEC.~~	45
5	5	5	1010400-1	CLAMP, LOOP, HINGED	44
		~~1~~	~~1010674-4~~	~~CONNECTOR PLUG ELEC.~~	43
		~~1~~	~~1010348-1~~	~~CONNECTOR PLUG ELEC.~~	42
		~~1~~	~~1010674-3~~	~~CONNECTOR PLUG ELEC.~~	41
		~~1~~	~~1010348-2~~	~~CONNECTOR PLUG ELEC.~~	40
		~~1~~	~~1000221~~	~~CONNECTOR RECP. ELEC.~~	39
1	1	1	AN345C10	NUT, PLAIN HEX	38
1	1	1	1014609	BRACKET, CLAMP	37
1	1	1	1010705-8	CLAMP, LOOP	36
		~~5~~	~~1010411-2~~	~~CONNECTOR RECP. ELEC.~~	35
1	1	1	1010400-7	CLAMP, LOOP, HINGED	34
		~~2~~	~~1000242-21~~	~~FERRULE, OUTER ELEC COND.~~	33
		~~2~~	~~1000242-30~~	~~FERRULE, OUTER ELEC COND.~~	32
		~~2~~	~~1000243-26~~	~~FERRULE INNER ELEC COND.~~	31
		~~2~~	~~1000243-34~~	~~FERRULE, INNER ELEC COND.~~	30
		~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	29
		~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	28
		~~2~~	~~1010490-222~~	~~INSULATION SLEEVING, HEAT SHRINK~~	27
		~~2~~	~~1010490-216~~	~~INSULATION SLEEVING, HEAT SHRINK~~	26
		~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	25
		~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	24
1	1	1	1010400-8	CLAMP, LOOP HINGED	23
		~~1~~	~~1010400-4~~	~~CLAMP, LOOP, HINGED~~	22
3	3	3	1010400-3	CLAMP, LOOP, HINGED	21
1	1	1	1010400-2	CLAMP, LOOP, HINGED	20
		~~1~~	~~1010671-2~~	~~CONNECTOR PLUG ELEC~~	19
		~~1~~	~~1010671-1~~	~~CONNECTOR PLUG ELEC~~	18
		~~2~~	~~1010607-3~~	~~CONNECTOR RECP ELEC~~	17
		~~1~~	~~1010607-1~~	~~CONNECTOR RECP. ELEC.~~	16
		~~4~~	~~1010411-1~~	~~CONNECTOR RECP. ELEC.~~	15
6	6	6	1006783-47	SCREW BUTTON HEAD	14
1	1	1	1008164	CABLE CLAMP LEFT	13
1	1	1	1008165	CABLE CLAMP RIGHT	12
1	1	1	1008148	CONN PLATE ASSY (264 PINS)	11
1	1	1	1008149	CONN PLATE ASSY (293 PINS)	10
3	3	3	MS35649-44	NUT	9
1	1	1	1010618-13	SCREW BUTTON HEAD	8
3	3	3	1010618-14	SCREW BUTTON HEAD	7
4	4	4	MS35335-57	WASHER, LOCK, FLAT, EXTERNAL TOOTH	6
		~~1~~	~~1010642-244~~	~~CONNECTOR PLUG ELEC~~	5
8	8	8	MS16995-17	SCREW HEX SOCKET HD	4
4	4	4	MS16995-10	SCREW, HEX SOCKET HD	3
10	10	10	1008163	PIN, LOCATING	2
	-	1	1007161-000	END CONNECTOR ASSEMBLY PSA	1

LIST OF MATERIALS

1014606 R

NOTES

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MAXIMUM ENVELOPE AND "E" POINTS FOR ITEM NO. 49 WIRE LIST ARE SHOWN ON SHEET 2 OF THIS DRAWING.
3. BRANCHES 1, 2 AND 3 OF ITEMS 48, 61, & 65 HARNESS CONFIGURATION ARE SHOWN ON SHEET 3 OF THIS DRAWING.
4. BRANCHES 4, 5 AND 6 OF ITEMS 48, 61, & 65 HARNESS CONFIGURATION ARE SHOWN ON SHEET 4 OF THIS DRAWING.
5. MARRIAGE CONFIGURATION OF ITEMS 48, 61, 65, & 49 SHOWN ON SHEET 5 OF THIS DRAWING.
6. ENCAPSULATION ENVELOPE IS SHOWN ON SHEET 6 OF THIS DRAWING.
7. MOUNTING TORQUE FOR FIND NO. 2 IS 6.5 IN/LBS.
8. ~~INTERCONNECTION LIST OF AGE HARNESS AND END CONNECTOR ASSEMBLY IS DRAWING NO. 1014607~~
9. INTERCONNECTION DIAGRAM - APOLLO GUIDANCE EQUIPMENT C/M, LOWER EQUIPMENT BAY IS DRAWING NO. 1014523.
10. ASSEMBLE AND TEST PER ATP 1014606.
11. GRID MODULE ON SHEETS 3, 4 AND 5 IS 1 INCH TRUE POSITION.
12. UNLESS OTHERWISE SPECIFIED:
    FEATURE CENTERLINES ON SHEETS 3, 4, AND 5 ARE LOCATED WITHIN ±.25 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN ±.12 INCH.
13. POT BACK OF CONNECTORS PER ND 1002236 USING ITEM 62 FOR 1014606-011 AND -021 CONFIGURATION.
14. CONNECTOR KEYING CHANGED FROM "N" TO "W" FOR 1021709 AND 1021716 CONFIGURATION.
15. TRAY STOPS ARE USED IN 1014606-011 AND -021 CONFIGURATION.
16. SELECT NOTED ITEMS AT ENCAPSULATION PHASE OF END CONNECTOR BUILD UP.
17. ASSEMBLE AND ENCAPSULATE IN ACCORDANCE WITH ATP 1014606 USING ITEM NO. 62 PER ND 1002286.

REPLACES REV "K" WITH CHANGE

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

M I T
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN J. Falzone DATE 5 DEC 63
CHECKED
APPROVAL 12-6-63
APPROVAL 12-20-63
NASA APPROVAL 12-30-63
MIT APPROVAL 30 Jan 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO. 80230
SIZE E
NASA DRAWING NO 1014606
SCALE 1/2
WT
SHEET 1 OF 6

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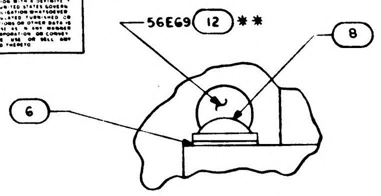
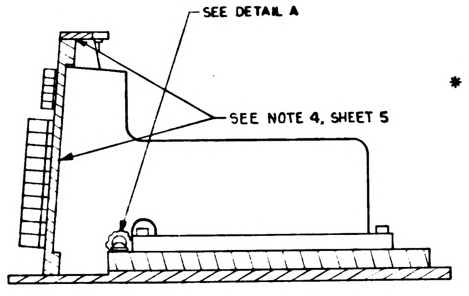
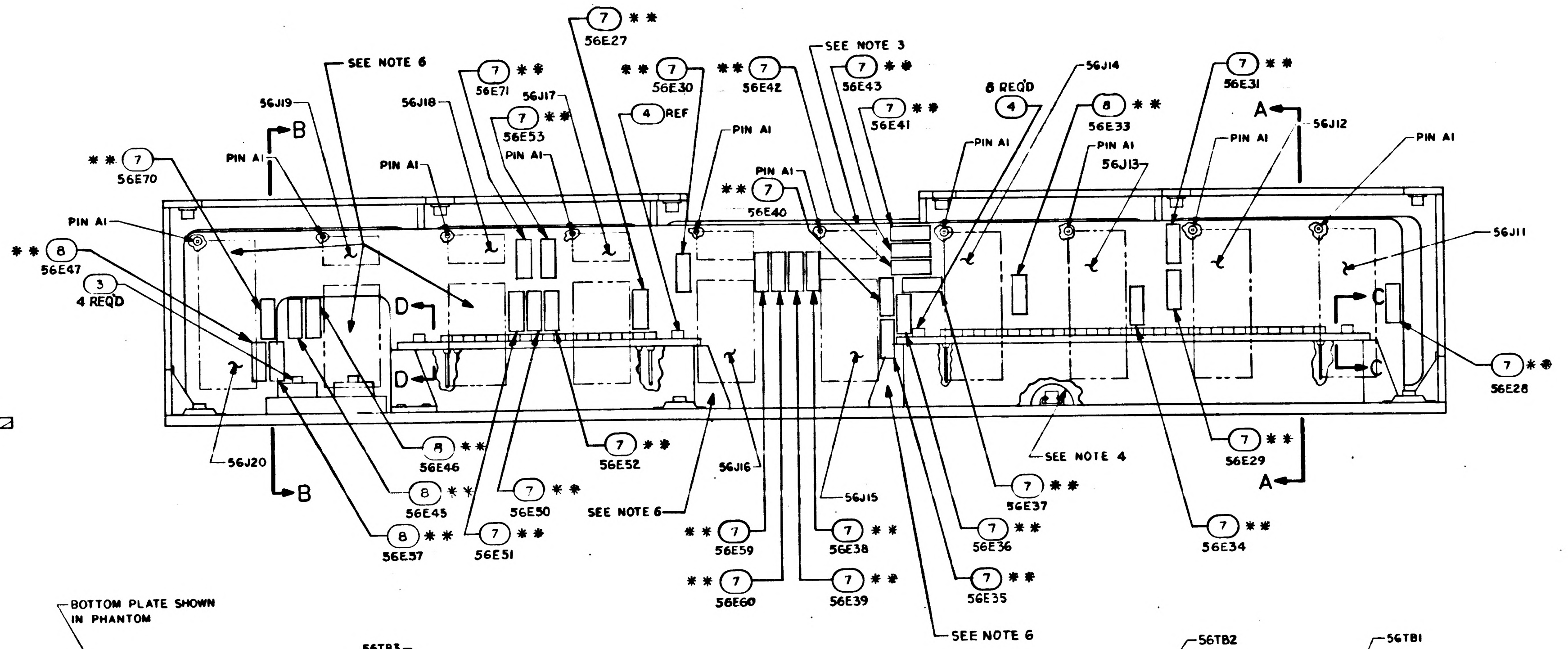
REVISIONS			
	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV. "K" WITH CHANGE PER TDRR 12749	3 AUG 64	JWP
		22 Apr 64	WK
M	REVISED PER TDRR 13300	19 OCT 64	WP
N	REVISED PER TDRR 13416	21 OCT 64	JWP
P	REVISED PER TDRR 16984	9 MAR 65	RW AL
R	REVISED PER TDRR 18680	9 JUN 65	GM CF

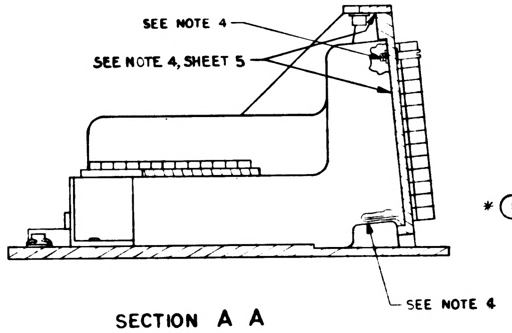


DETAIL A
SCALE 4/1

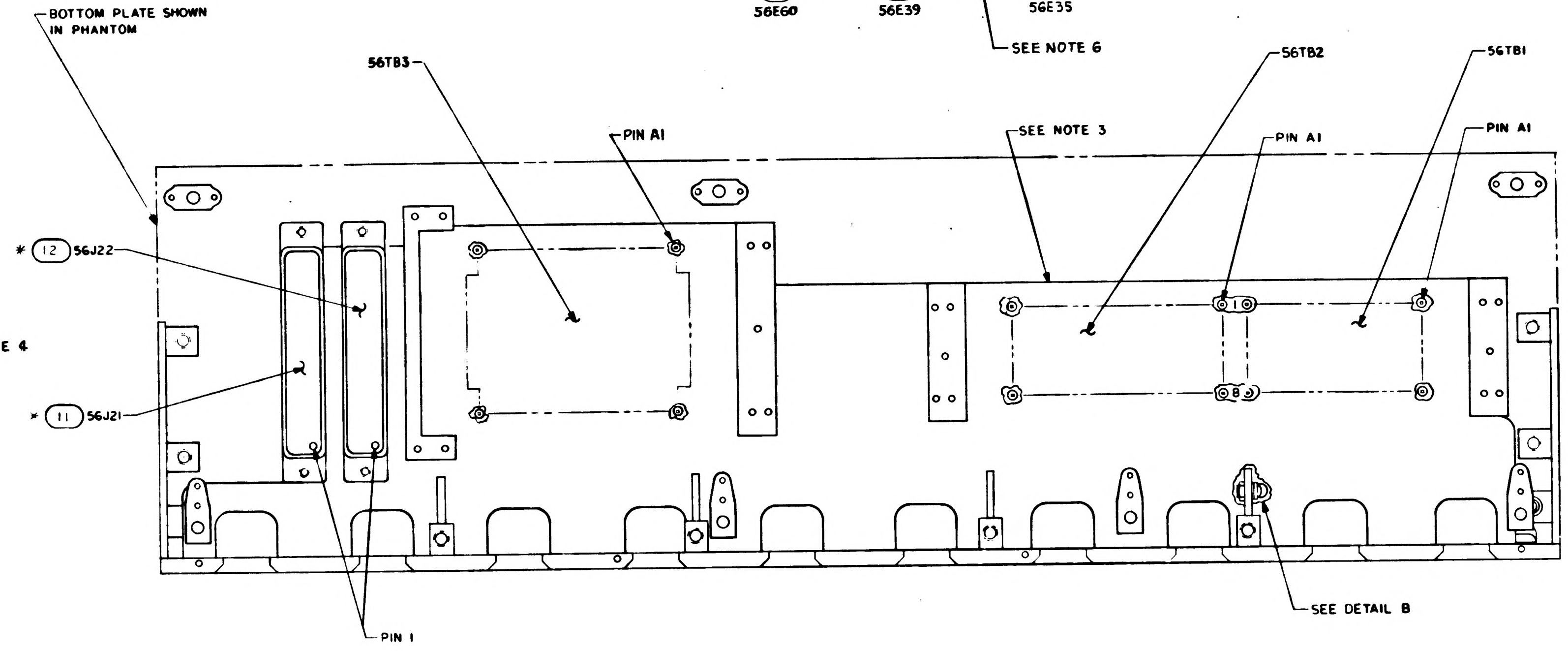

SEE DETAIL A
SEE NOTE 4, SHEET 5

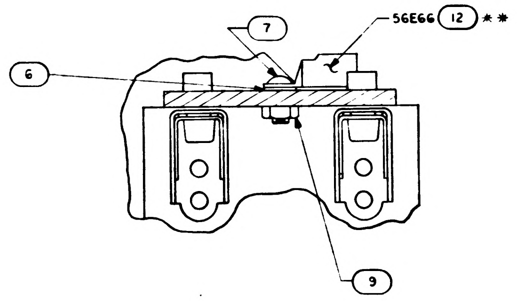
SECTION B B


7 ** 56E27
SEE NOTE 6
56J19
PIN A1
B
56J18
7 ** 56E71
56J17
7 ** 56E53
PIN A1
** 7 56E30
4 REF
** 7 56E42
SEE NOTE 3
7 ** 56E43
7 ** 56E41
PIN A1
8 REQD 4
8 ** 56E33
56J14
PIN A1
56J13
7 ** 56E31
A
56J12
PIN A1
** 7 56E70
PIN A1
PIN A1
** 7 56E40
56J11
** 8 56E47
3 4 REQD
D
D
C
C
7 ** 56E28
56J20
B
8 ** 56E46
8 ** 56E45
8 ** 56E57
7 ** 56E50
7 ** 56E51
7 ** 56E52
SEE NOTE 6
56J16
** 7 56E59
** 7 56E60
7 ** 56E38
7 ** 56E39
56J15
7 ** 56E37
7 ** 56E36
7 ** 56E35
SEE NOTE 4
7 ** 56E29
A
7 ** 56E34
SEE NOTE 6


SEE NOTE 4
SEE NOTE 4, SHEET 5
SEE NOTE 4

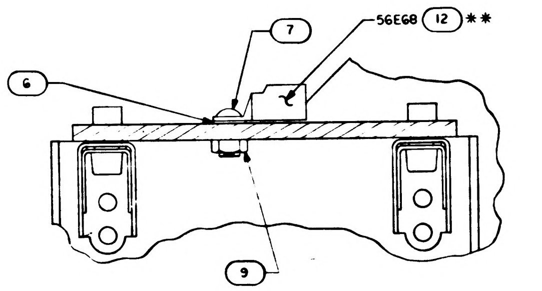
SECTION A A


BOTTOM PLATE SHOWN IN PHANTOM
56TB3
PIN A1
SEE NOTE 3
56TB2
PIN A1
56TB1
PIN A1
* 12 56J22
* 11 56J21
PIN 1
SEE DETAIL B

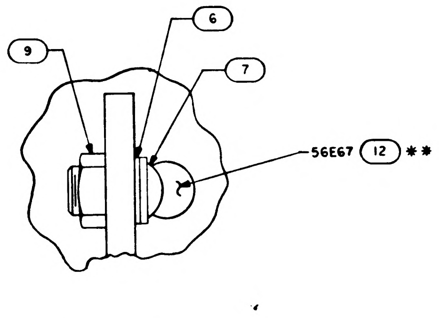

7
56E66 12 **
6
9

PARTIAL SECTION C C
SCALE 2/1

NOTES
1. ** PARTS ARE LISTED ON DWG 1014608
2. REFER TO DWG 1014608 FOR REFERENCE DESIGNATIONS AND WIRE LIST
3. OUTLINE SHOWS MAXIMUM ENVELOPE FOR WIRE LIST AA, 1014608
4. BEFORE WIRING, COVER THREADS AND OTHER SHARP EDGES WITH SILICON RUBBER PER ND1002009, METHOD B
5. * PARTS NOTED ARE LISTED ON DRAWING 1014605, 1021709 OR 1021716.
6. PROTECT WIRING FROM SHARP EDGES USING ITEM 56


7
56E68 12 **
6
9

PARTIAL SECTION D D
SCALE 2/1


9
6
7
56E67 12 **

DETAIL B
SCALE 4/1

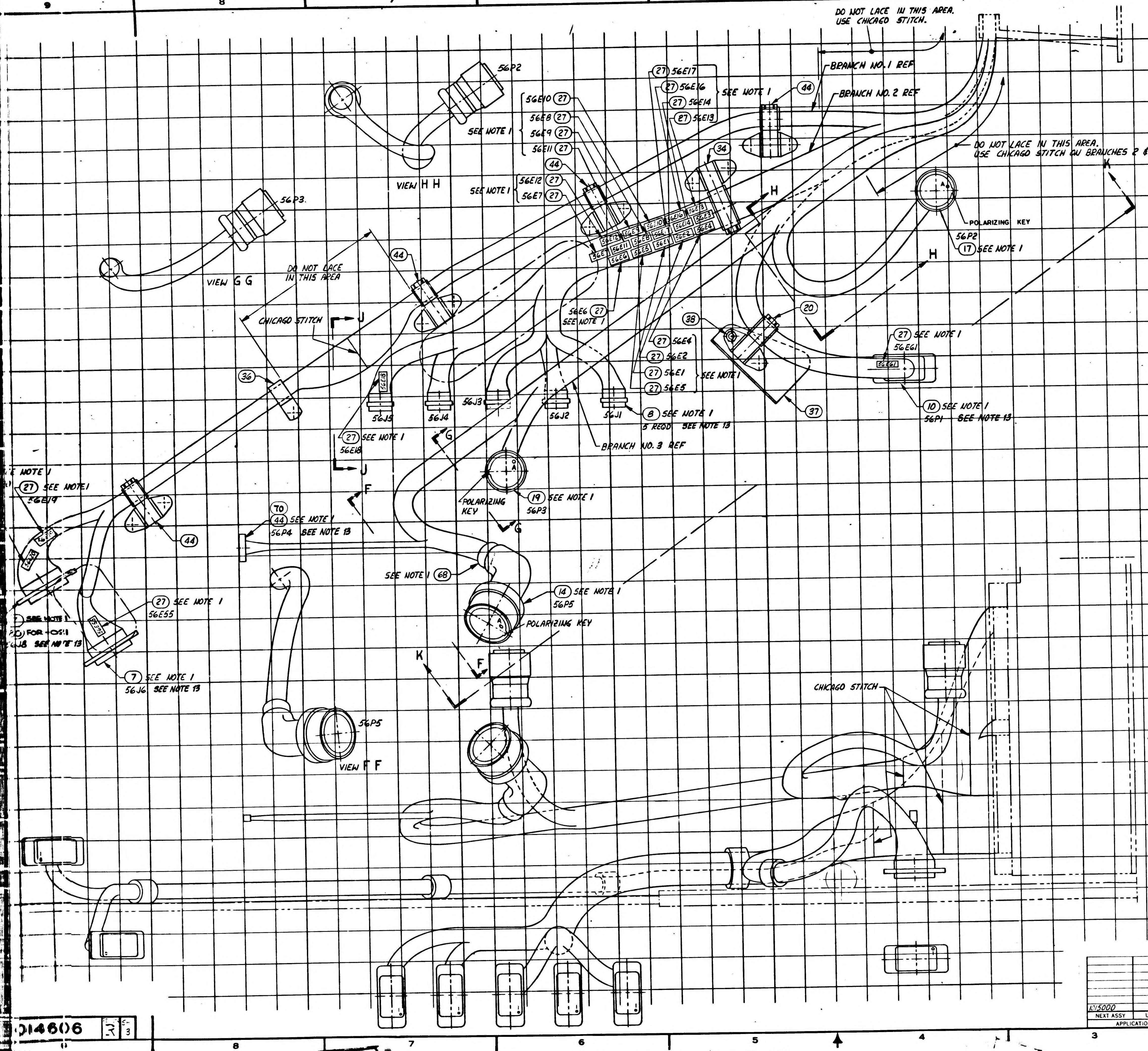
1014606 R

REPLACES REV"K" WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS ± DECIMALS ± ANGLES ±	MIT INSTRUMENTATION LAB CAMBRIDGE MASS	MANNED SPACECRAFT CENTER HOUSTON, TEXAS
APPLICATION		DO NOT SCALE THIS DRAWING	DRAWN Falzone DATE Dec 63	AGE HARNESS AND PSA END CONNECTOR ASSEMBLY
		MATERIAL	CHECKED	
			APPROVAL 12-26-63	
			APPROVAL 12-30-63	
		HEAT TREATMENT	NASA APPROVAL 12-30-63	CODE IDENT NO 80230
		FINAL FINISH	MIT APPROVAL 30 Dec 63	SIZE E
				NASA DRAWING NO 1014606
				SCALE 1/1
				WT
				SHEET 2 OF 6

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV 'K' WITH CHANGE PER TDRR 12749	—		
M		REVISED PER TDRR 13300			
N		REVISED PER TDRR 3416			
P		Revised Per TDRR 16984		19 MAR 65	
R		REVISED PER TDRR 19830			


DO NOT LACE IN THIS AREA. USE CHICAGO STITCH.
BRANCH NO. 1 REF
BRANCH NO. 2 REF
DO NOT LACE IN THIS AREA. USE CHICAGO STITCH ON BRANCHES 2 & 3.
56P2
VIEW H H
56P3
VIEW G G
SEE NOTE 1
56E10
56E8
56E9
56E11
56E12
56E7
56E17
56E16
56E14
56E13
56E6
56E4
56E2
56E1
56E5
56E61
56E18
56E19
56E55
POLARIZING KEY
DO NOT LACE IN THIS AREA
CHICAGO STITCH
56J5
56J4
56J3
56J2
56J1
5 REQD SEE NOTE 13
56P1 SEE NOTE 13
BRANCH NO. 3 REF
56P4 SEE NOTE 13
56P5
56J6 SEE NOTE 13
56J8 SEE NOTE 13
FOR -011
VIEW F F
CHICAGO STITCH
H
J
K
F
G
44
36
34
38
20
37
10
8
19
14
17
68
70
7

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605, 1021709 OR 1021716
2. REFER TO DRAWING 1014605, 1021709 OR 1021716 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

REPLACES REV 'K' WITH CHANGE

NEXT ASSY	USED ON
1015000	

APPLICATION

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

M I T
INSTRUMENTATION LAB
Cambridge Mass
DRAWN DATE 30 JUL 63
CHECKED J. GRIEB 23 JUN 64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

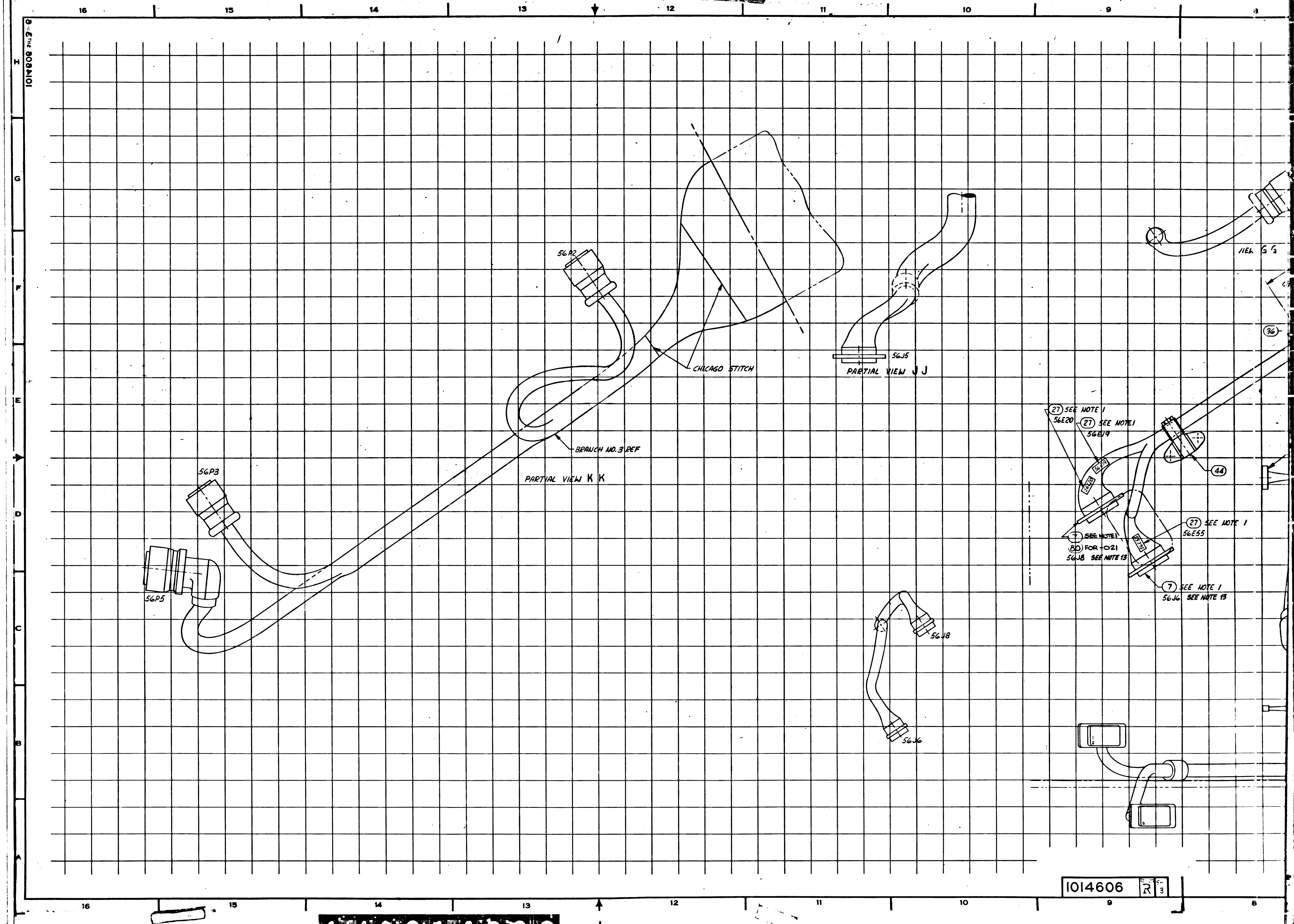
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO 80230
SIZE J2
1014606
SCALE 1:1
SHEET 5 OF 6

1014606 R

2/1014606

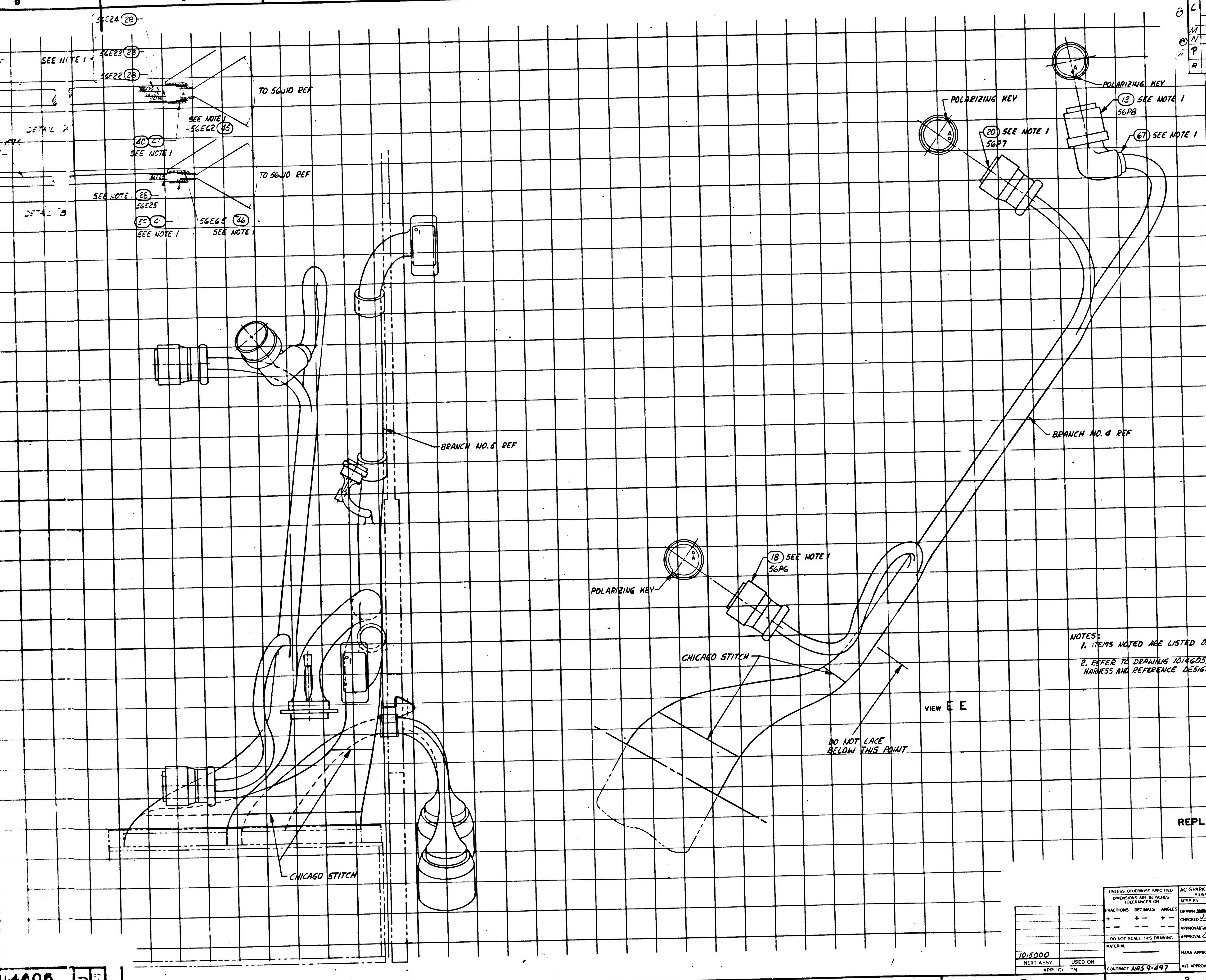


16
15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A
1014606 SH 3 OF 8
56P2
CHICAGO STITCH
BRANCH NO. 3 REF
PARTIAL VIEW K K
56P3
56P5
56J5
PARTIAL VIEW J J
VIEW G G
36
27 SEE NOTE 1
56E20
27 SEE NOTE 1
56E19
44
27 SEE NOTE 1
56E55
7 SEE NOTE 1
80 FOR -021
56J8 SEE NOTE 13
7 SEE NOTE 1
56J6 SEE NOTE 13
56J8
56J6

1014606 R 3

1/1014606

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV K WITH CHANGE PER TDRR 12749	—	[illegible] 6-	[illegible]
		REVISED PER TDRR		[illegible]	[illegible]
M		REVISED PER TDRR 13300		[illegible]	[illegible]
N		REVISED PER TDRR 13416		[illegible]	[illegible]
P		REVISED PER TDRR 16984		9 MAR 65	[illegible]
R		REVISED PER TDRR 19830		7 JUN 65	[illegible]


56E24 (28)
56E23 (28)
56E22 (28)
SEE NOTE 1
56E22
56E23
56E24
TO 56J10 REF
SEE NOTE 1
-56E62 (45)
DETAIL A
(40) (47)
SEE NOTE 1
56E25
TO 56J10 REF
SEE NOTE (26)
56E25
DETAIL B
(50) (41)
SEE NOTE 1
56E65 (46)
SEE NOTE 1
POLARIZING KEY
(13) SEE NOTE 1
56P8
POLARIZING KEY
(20) SEE NOTE 1
56P7
(67) SEE NOTE 1
BRANCH NO. 5 REF
BRANCH NO. 4 REF
(18) SEE NOTE 1
56P6
POLARIZING KEY
CHICAGO STITCH
DO NOT LACE BELOW THIS POINT
VIEW E E
CHICAGO STITCH

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605, 1021709 OR 1021716.
2. REFER TO DRAWING 1014605, 1021709 OR 1021716 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

REPLACES REV K WITH CHANGE

NEXT ASSY	USED ON
1015000	
APPLICATION	

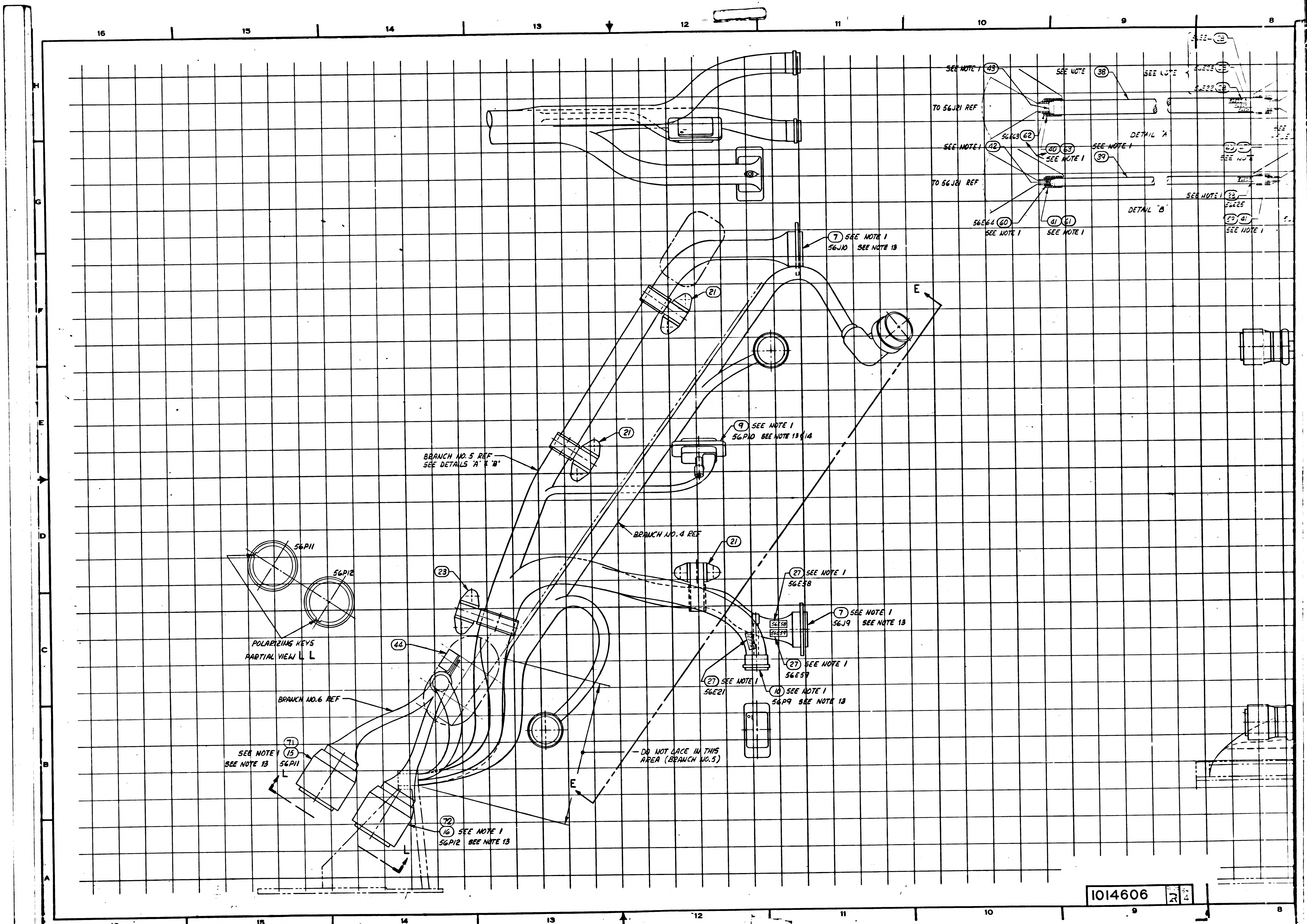
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS + − DECIMALS + − ANGLES + −
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN [illegible] DATE 22 JUN 64
CHECKED J. GRIEB 23 JUN 64
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

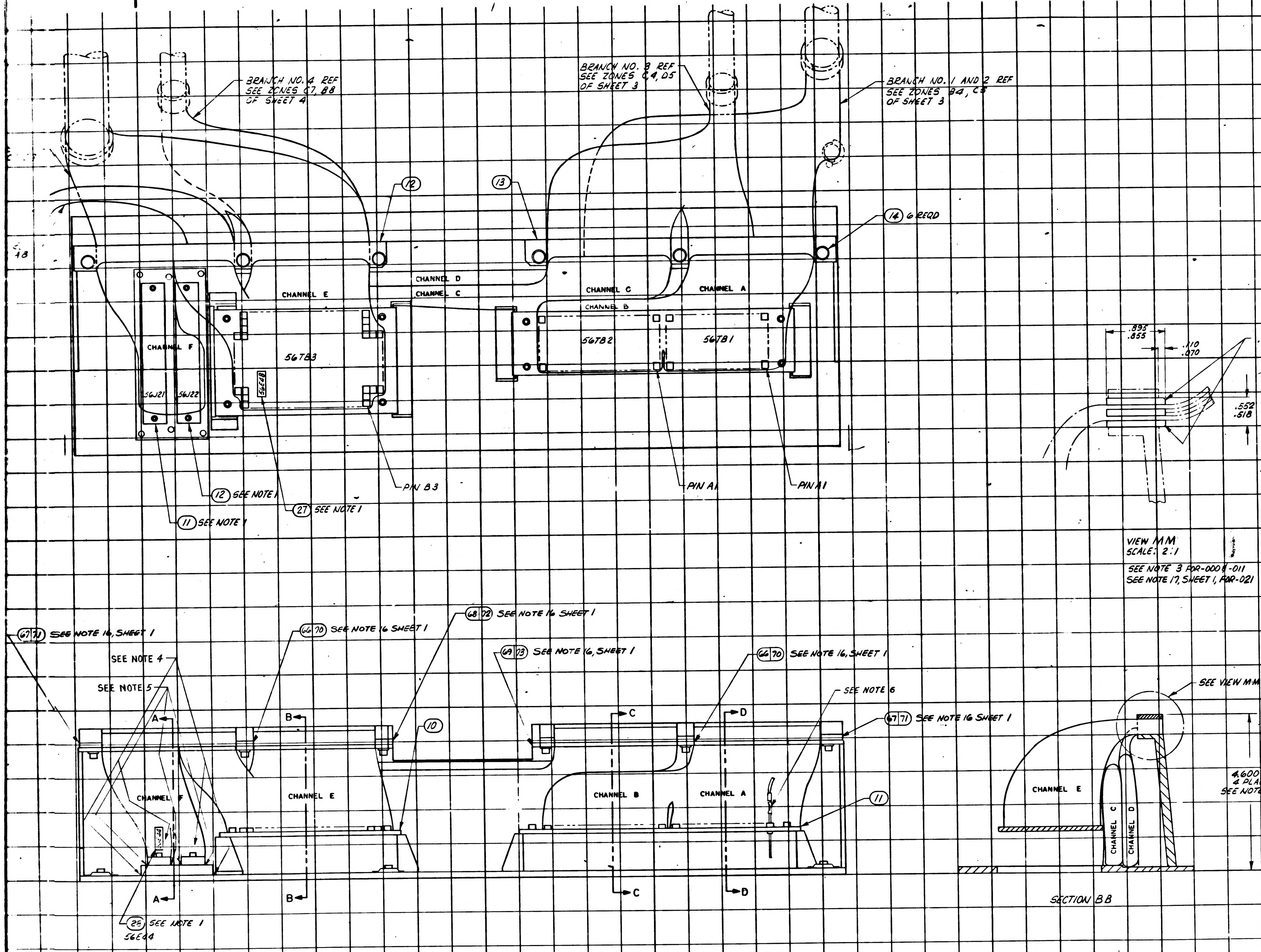
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO 80230
SIZE
1014606
SCALE 1:1
SHEET 4 OF 6


16
15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A
SEE NOTE 1 43
SEE NOTE 38
SEE NOTE
56E22 23
56E23 23
56E22 23
TO 56J21 REF
DETAIL "A"
SEE NOTE 1 42
56E63 62
40 63 SEE NOTE 1
SEE NOTE 1 39
TO 56J21 REF
SEE NOTE 1 23
56E25
DETAIL "B"
56E64 60 SEE NOTE 1
41 61 SEE NOTE 1
52 41 SEE NOTE 1
7 SEE NOTE 1
56J10 SEE NOTE 13
E
21
21
9 SEE NOTE 1
56P10 SEE NOTE 13 & 14
BRANCH NO. 5 REF
SEE DETAILS "A" & "B"
BRANCH NO. 4 REF
21
56P11
56P12
23
27 SEE NOTE 1
56E58
7 SEE NOTE 1
56J9 SEE NOTE 13
56E58
56E59
56E21
POLARIZING KEYS
PARTIAL VIEW L L
44
27 SEE NOTE 1
56E59
27 SEE NOTE 1
56E21
10 SEE NOTE 1
56P9 SEE NOTE 13
BRANCH NO. 6 REF
71
SEE NOTE 1 15
SEE NOTE 13 56P11
L
DO NOT LACE IN THIS
AREA (BRANCH NO. 5)
E
72
16 SEE NOTE 1
56P12 SEE NOTE 13
L
1014606
R
4

1/1014606

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV "K" WITH CHANGE PER TDRR 12749	—		WF
M		REVISED PER TDRR 13300			WP
N		REVISED PER TDRR 13416			
P		REVISED PER TDRR 16984		9 MAR 65	RW
R		REVISED PER TDRR 19850			GM



BRANCH NO. 4 REF SEE ZONES C7, B8 OF SHEET 4
BRANCH NO. 3 REF SEE ZONES C4, D5 OF SHEET 3
BRANCH NO. 1 AND 2 REF SEE ZONES B4, C3 OF SHEET 3
12
13
14 6 REQD
CHANNEL D
CHANNEL C
CHANNEL E
CHANNEL C
CHANNEL A
CHANNEL B
CHANNEL F
56TB3
56TB2
56TB1
56E4B
56J21
56J22
PIN B3
PIN A1
PIN A1
12 SEE NOTE 1
27 SEE NOTE 1
11 SEE NOTE 1
.895 .855
.110 .070
.047 R MAX. OR CHAMFER
.552 .518
VIEW MM SCALE: 2:1
SEE NOTE 3 FOR-0008-011
SEE NOTE 17, SHEET 1, FOR-021
67 71 SEE NOTE 16, SHEET 1
SEE NOTE 4
SEE NOTE 5
66 70 SEE NOTE 16 SHEET 1
68 72 SEE NOTE 16 SHEET 1
69 73 SEE NOTE 16, SHEET 1
66 70 SEE NOTE 16, SHEET 1
SEE NOTE 6
67 71 SEE NOTE 16 SHEET 1
10
11
A
B
C
D
CHANNEL F
CHANNEL E
CHANNEL B
CHANNEL A
25 SEE NOTE 1
56E44
SEE VIEW MM
CHANNEL E
CHANNEL C
CHANNEL D
4.600 MAX. 4 PLACES SEE NOTE 5 ON SHT 6
SECTION BB

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605, 1021709 OR 1021716.

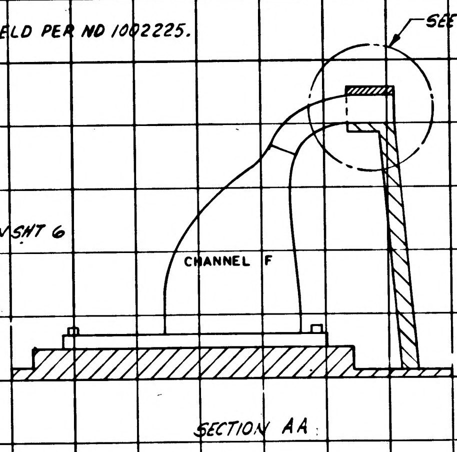
2. REFER TO DRAWING 1014605, 1021709 OR 1021716 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

3. ASSEMBLE AND ENCAPSULATE IN ACCORDANCE WITH ATP 1014606 USING ITEM NO'S (50), (51) AND (52) PER ND1002009, METHOD A.

4. APPLY EPOXY PER ND 1002187 USING ITEMS (55) AND (56) AROUND ENTIRE LENGTH OF NOTED SURFACES, AT THE REAR OF CONNECTORS 56J21 AND 56J22 AND BEHIND CONNECTORS 56J11 THRU 56J20 TO HEIGHT SUFFICIENT TO COVER NYLON INSULATORS.

5. APPLY SILICONE RUBBER PER ND1002009, METHOD B, USING ITEMS (53) AND (54) AROUND ENTIRE LENGTH OF CONNECTORS 56J21 AND 56J22.

6. WELD PER ND 1002225.



SEE VIEW MM
CHANNEL F
SECTION AA

REPLACES REV K WITH CHANGE

1015000	
NEXT ASSY	USED ON
APPLICATION	

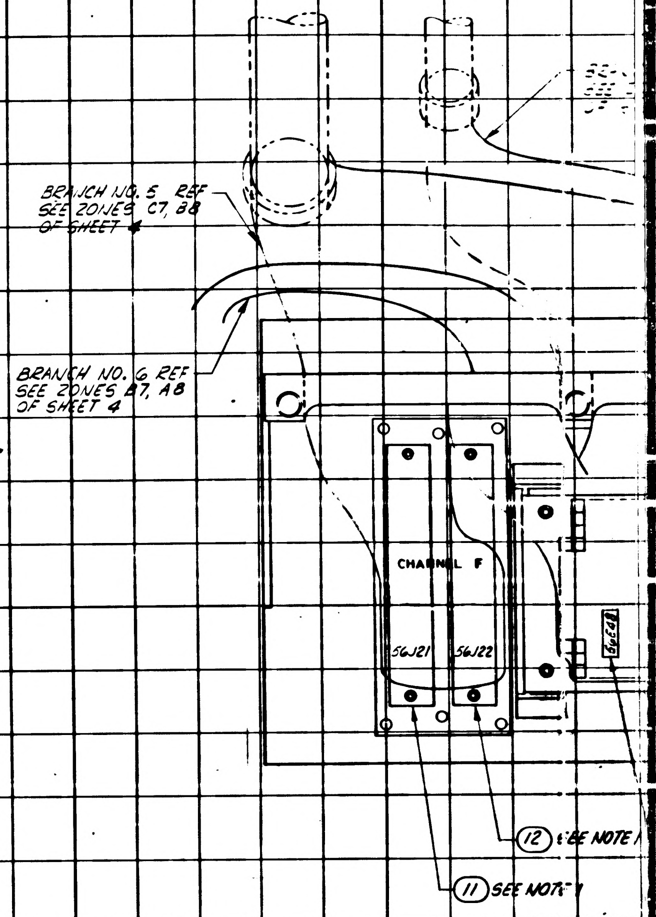
UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

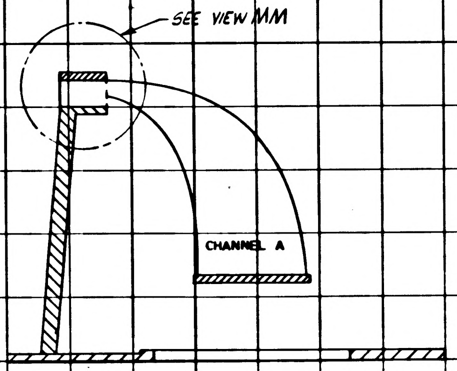
MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN
DATE
CHECKED J. GRIEB 23JUN64
APPROVAL
APPROVAL 24JUN64
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

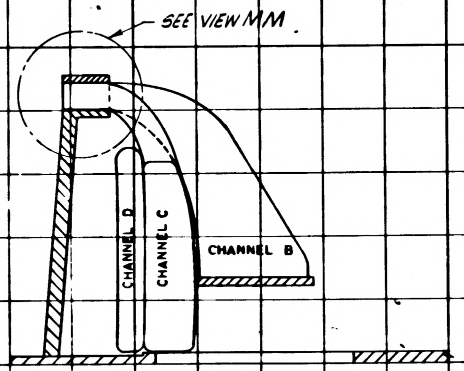
AGE HARNESS AND PSA EN
CONNECTOR ASSEMBLY

CODE IDENT NO 80230
SIZE J2
1014606
SCALE 1:1
SHEET 5 OF 6

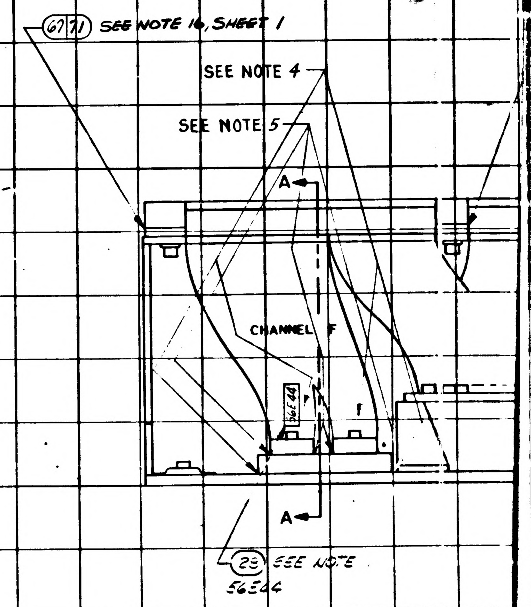

BRANCH NO. 5 REF
SEE ZONES C7, B8
OF SHEET 4
BRANCH NO. 6 REF
SEE ZONES B7, A8
OF SHEET 4
CHANNEL F
56J21
56J22
56E48
(12) SEE NOTE
(11) SEE NOTE


SEE VIEW MM
CHANNEL A

SECTION D D


SEE VIEW MM
CHANNEL D
CHANNEL C
CHANNEL B

SECTION C C

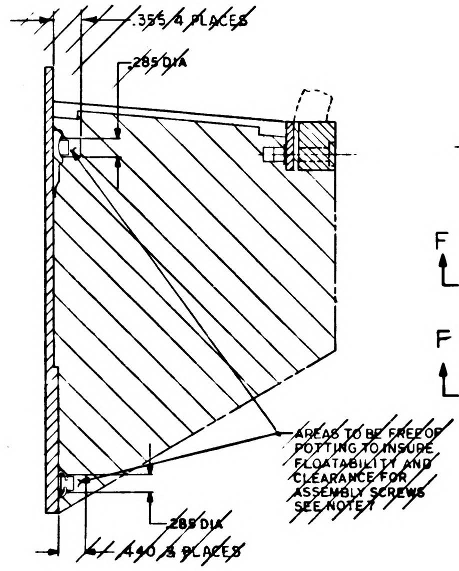

(67)(71) SEE NOTE 16, SHEET 1
SEE NOTE 4
SEE NOTE 5
A
CHANNEL F
56E44
A
(23) SEE NOTE
56E44

1014606 | 3 | 5

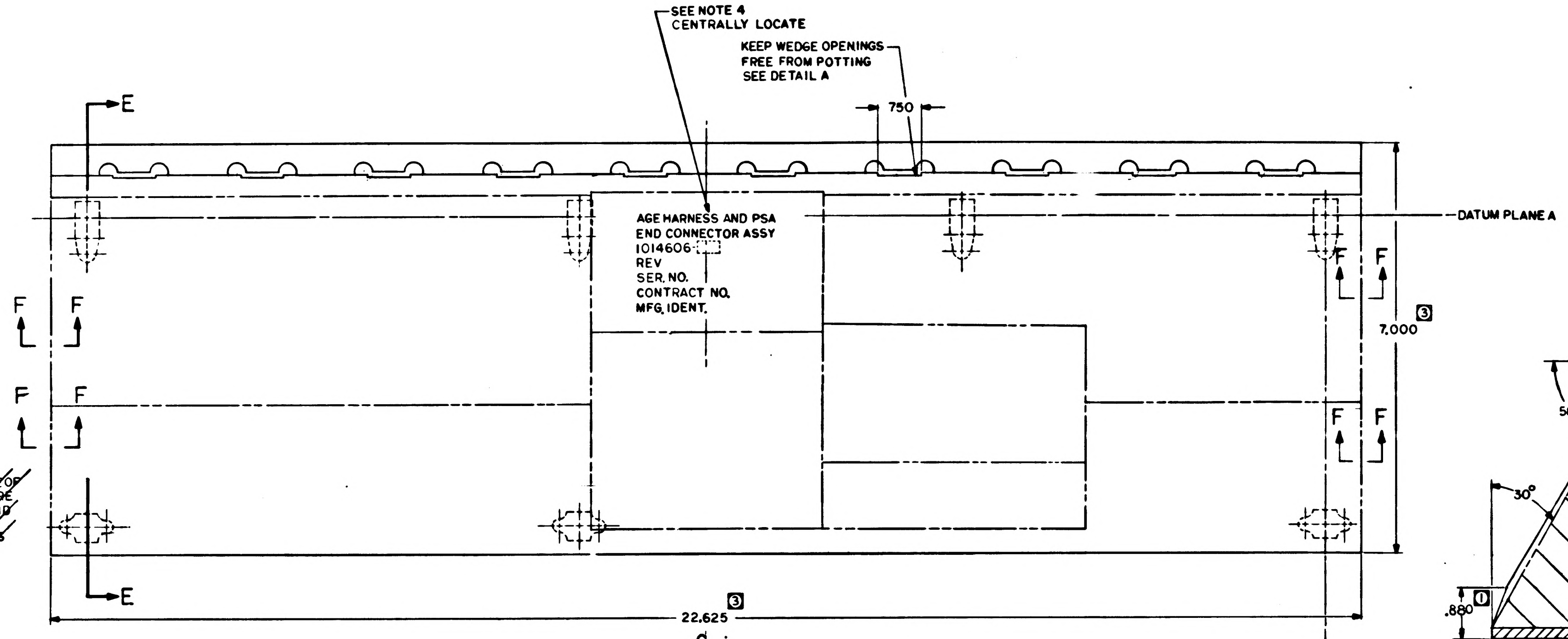
1/1014606

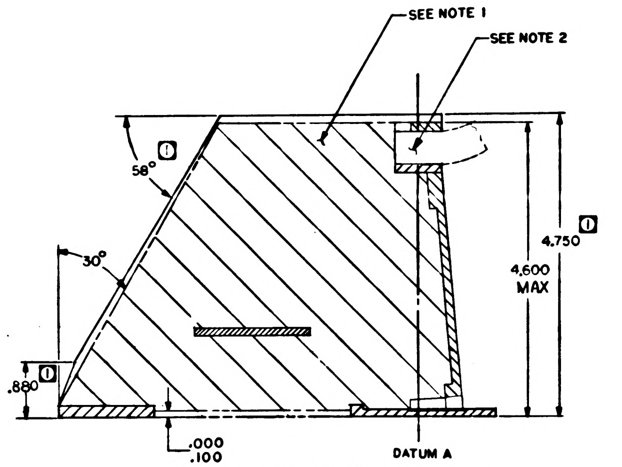
NOTICE — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS, OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV. K WITH CHANGE PER TDRR 12749	3 AUG 64	JWP
			WR
M	REVISED PER TDRR 13300	19 OCT 64	JWP
N	REVISED PER TDRR 13416	2 OCT 64	JWP
P	REVISED PER TDRR 16984	9 MAR 65	RW
R	REVISED PER TDRR 19830	9 JUN 65	GM

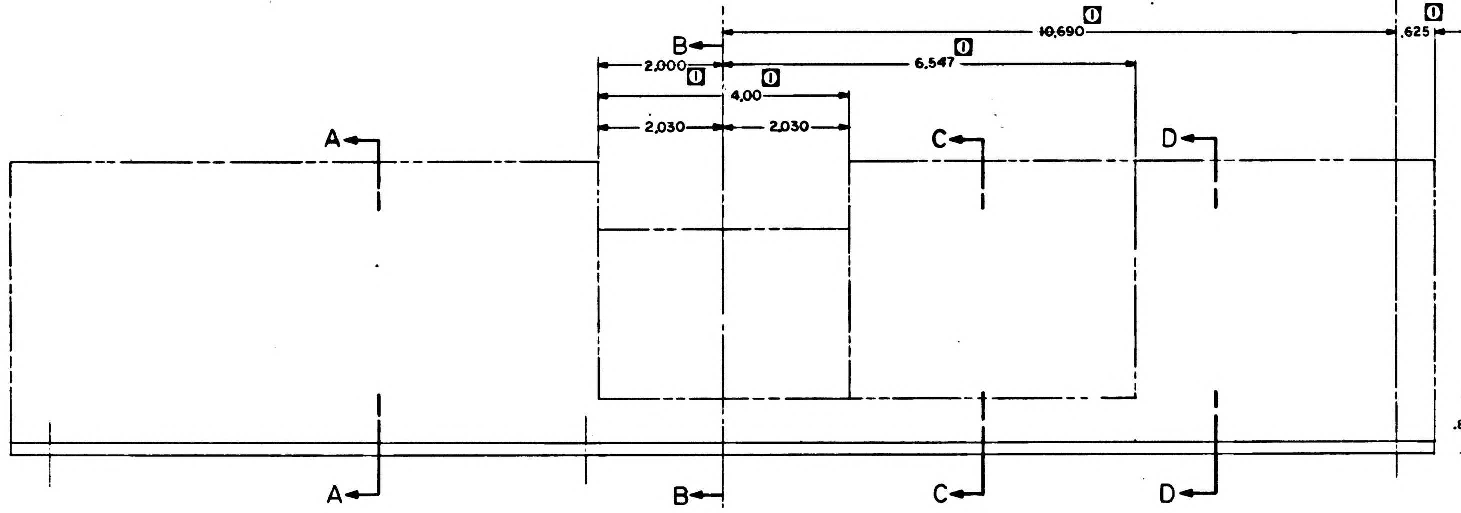

.355 4 PLACES
.285 DIA
AREAS TO BE FREE OF POTTING TO INSURE FLOATABILITY AND CLEARANCE FOR ASSEMBLY SCREWS SEE NOTE 7
.285 DIA
.440 5 PLACES

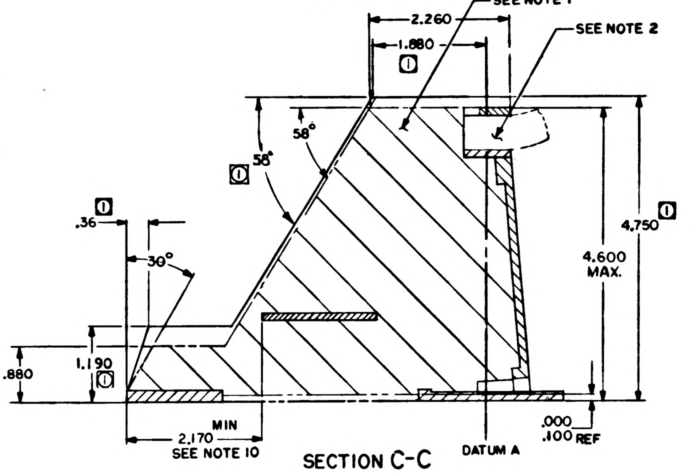
SECTION E-E


SEE NOTE 4
CENTRALLY LOCATE
KEEP WEDGE OPENINGS FREE FROM POTTING SEE DETAIL A
.750
E
E
AGE HARNESS AND PSA
END CONNECTOR ASSY
1014606-
REV
SER. NO.
CONTRACT NO.
MFG. IDENT.
DATUM PLANE A
F
F
F
F
F
F
F
F
7.000 3
22.625 3

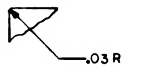

SEE NOTE 1
SEE NOTE 2
58° 1
30°
4.750 1
4.600 MAX
.880 1
.000
.100
DATUM A

SECTION D-D

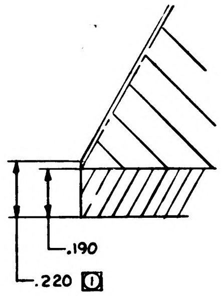

10.690 1
.625 1
B
2.000 1
4.00 1
6.547 1
2.030
2.030
A
A
B
C
C
D
D


2.260
1.880 1
SEE NOTE 1
SEE NOTE 2
58°
58° 1
.36 1
30°
4.750 1
4.600 MAX.
1.190 1
.880
2.170 MIN
SEE NOTE 10
.000
.100 REF
DATUM A

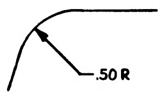
SECTION C-C



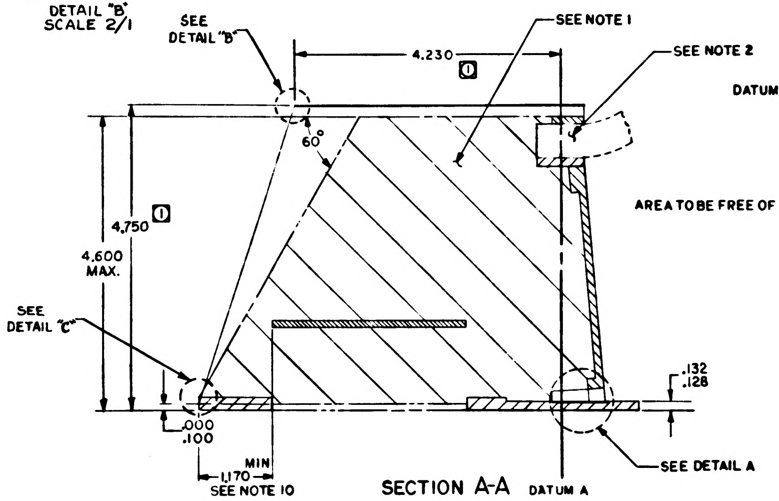
SECTION F F
TYPICAL 4 PLACES



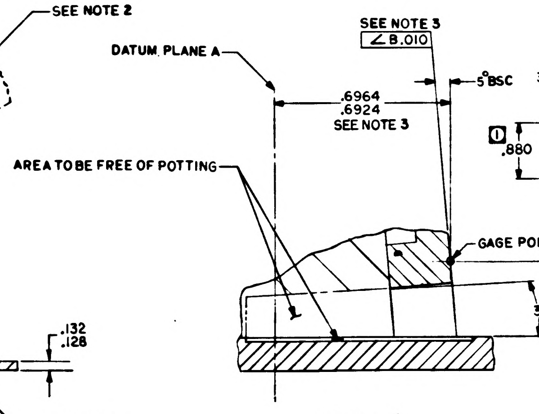
DETAIL "C"
SCALE 4/1



DETAIL "B"
SCALE 2/1

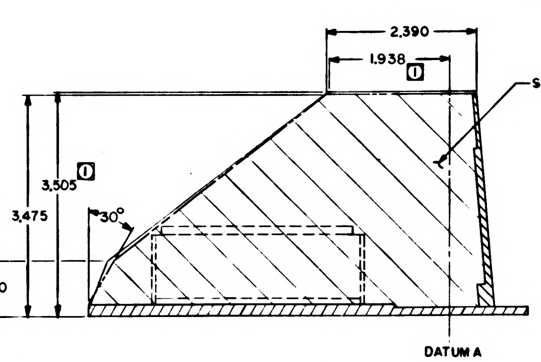

SEE DETAIL "B"
4.230
1
SEE NOTE 1
SEE NOTE 2
60°
4.750 1
4.600 MAX.
SEE DETAIL "C"
.132
.128
.000
.100
1.170 MIN
SEE NOTE 10
SEE DETAIL A
DATUM A

SECTION A-A


SEE NOTE 3
∠ 8.010
DATUM PLANE A
5° BSC
.6964
.6924
SEE NOTE 3
AREA TO BE FREE OF POTTING
GAGE POINT
3°
.2962
.2922
SEE NOTE 3

DETAIL A
SCALE 4/1
TYPICAL 10 PLACES

- B -	
⌒ .003	SEE NOTE 3


2.390
1.938 1
SEE NOTE 1
3.505 1
3.475
30°
.880 1
DATUM A

SECTION B-B

REPLACES REV K WITH CHANGE

NOTES:

1. ENCAPSULATE PER ND 1002002, USING ITEMS 74 & 75.
2. ENCAPSULATION PROCESS DEFINED ON SHEET 5.
3. DIMENSIONS TO BE STABLE AFTER POTTING.
4. SERIALIZE AND MARK CHARACTERS .12 HIGH (WHITE) PER ND 1002023
5. 1 THIS DIMENSION OR CHARACTERISTIC IS CONTROLLED BY ICDMH01-01003-116
6. ~~2 ICD ENVELOPE DIMENSION IS 58°, ACTUAL VALUE MAY BE 60°/58°~~
7. ~~THE AREAS SHOWN FREE OF POTTING ARE THE MINIMUM REQUIRED. TOTAL VOLUME OF EACH VOID MAY EXCEED THAT SHOWN BUT SHALL NOT INTERFERE WITH OR EXPOSE WIRING. CAPS MAY BE USED~~
8. ALL WIRING SHALL BE BELOW THE SURFACE OF THE ENCAPSULATING MATERIAL
9. ~~1 THIS DIMENSION TO BE NEGOTIATED AS PART OF ICD MH01-01003-116 PRESENT ICD DIMENSIONS ARE (a) 4.375 AND (b) .130~~
10. TERMINAL BOARDS ARE TO BE LOCATED TO THESE DIMENSIONS BEFORE POTTING
11. 3 ICDMH01-01003-116 ENVELOPE DIMENSIONS ARE 7.000 AND 22.690 RESPECTIVELY; ACTUAL VALUES MAY BE LESS. POTTING SHALL BE FLUSH TO .015 LESS THAN THE ENVELOPE DEFINED BY THE ACTUAL LENGTH AND WIDTH OF THE END CONNECTOR ASSEMBLY

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS XX±.02 XXX±.005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO
CONTRACT
DRAWN W.F.Troy DATE 12/11/63
CHECKED
APPROVAL 12-16-63
APPROVAL 12-20-63
NASA APPROVAL W.J. 12-30-63
MIT APPROVAL W Coffee 30 Dec 63

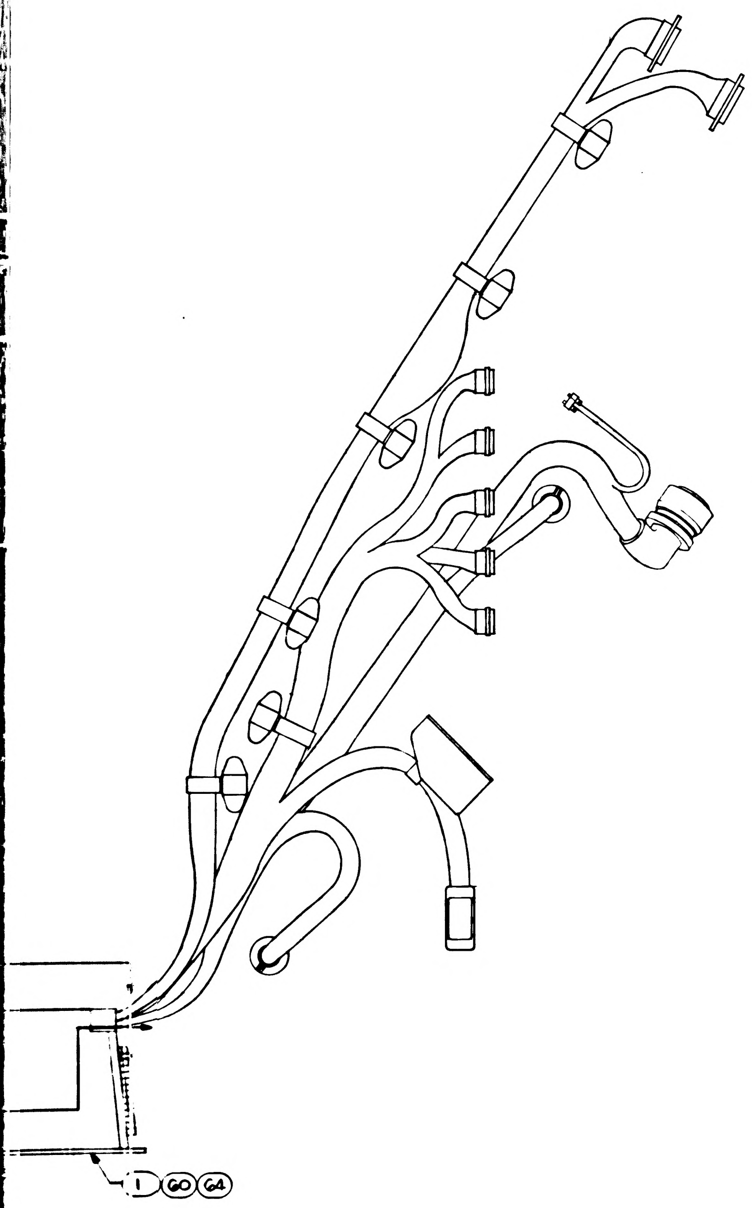
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

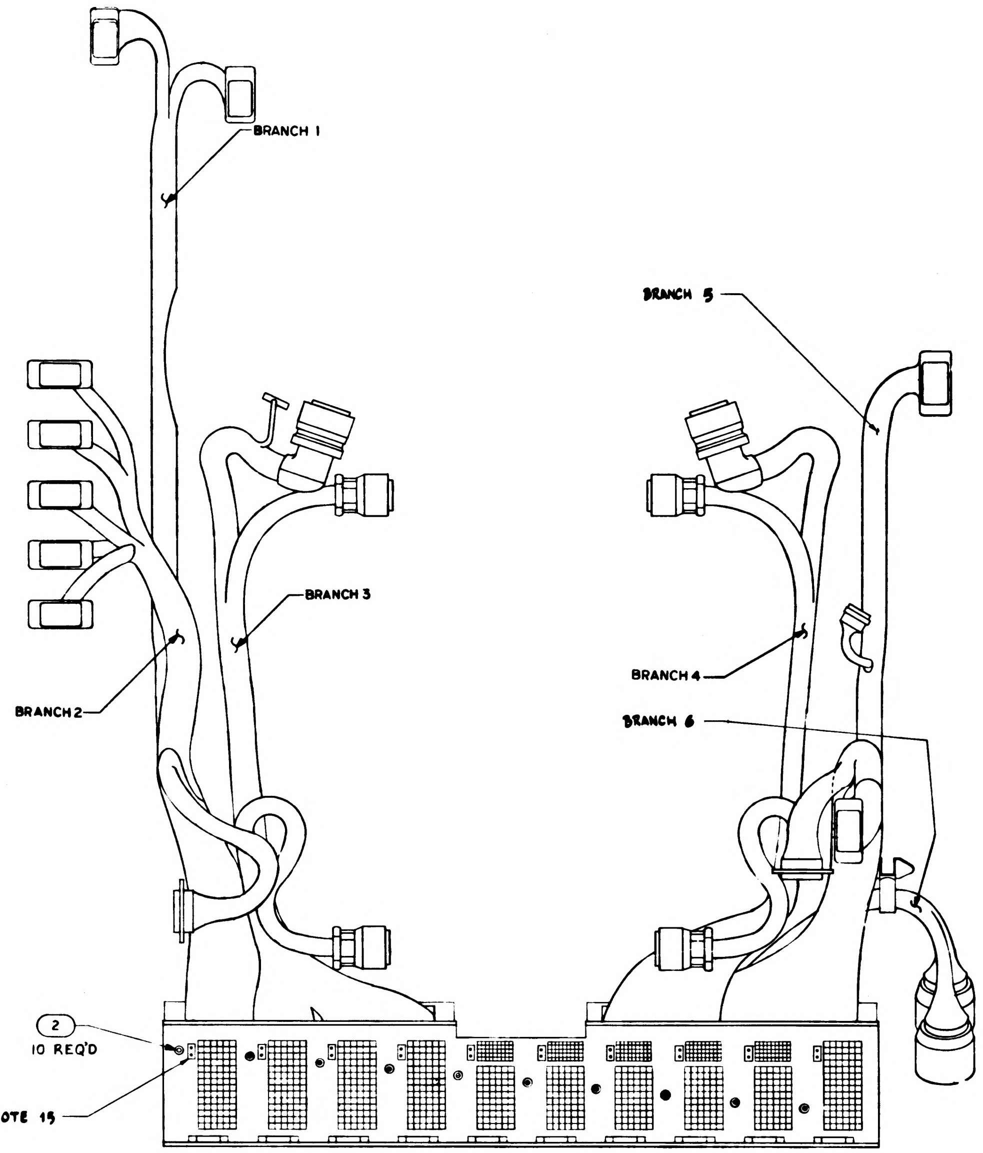
AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO 80230
SIZE E
NASA DRAWING NO 1014606
SCALE
WT
SHEET 6 OF 6

1014606 R

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
S	REPLACES REV R WITH CHANGE PER TDRR 24459	15 NOV 65	





-031	-021	-011	-000	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
AR	AR	AR	AR	1010798-2	ACTIVATOR	75
AR	AR	AR	AR	1010798-1	RESIN	74
1	1	1	1	1021253-8	SPACER	73
1	1	1	1	1021253-7	SPACER	72
2	2	2	2	1021253-6	SPACER	71
2	2	2	2	1021253-5	SPACER	70
1	1	1	1	1021253-4	SPACER	69
2	1	1	1	1021253-3	SPACER	68
2	2	2	2	1021253-2	SPACER	67
2	2	2	2	1021253-1	SPACER	66
-	1	-	-	1021716	WIRING HARNESS A	65
-	1	-	-	1007161-021	END CONNECTOR ASSY PSA	64
-	X	X	-	1021710	INTERCONNECTION LIST AGE HARNESS	63
AR	AR	AR	-	1012503	COMPOUND, POTTING POLYURETHANE	62
-	-	1	-	1021709	WIRING HARNESS A	61
1	-	1	-	1007161-011	END CONNECTOR ASSY, PSA	60
X	-	-	X	1014607	INTERCONNECTION LIST AGE	59
AR	AR	AR	AR	MIL-I-631	INSULATION MATERIAL, TYPE G, FORM S, CLASS I, 0.005 THICK X 6 IN. X 36 IN. (ES2749)	58
						57
AR	AR	AR	AR	1010679	ADHESIVE ACTIVATOR	56
AR	AR	AR	AR	1010661	EPOXY, RESIN	55
AR	AR	AR	AR	1006835	AGENT, CURING	54
AR	AR	AR	AR	1006834	COMPOUND, SILICONE RUBBER	53
AR	AR	AR	AR	1006722	THINNER, SILICONE	52
AR	AR	AR	AR	1006721	AGENT, CURING	51
AR	AR	AR	AR	1006720	COMPOUND, SILICONE RUBBER	50
1	1	1	1	1014608	WIRE LIST "AA"	49
1	-	-	1	1014605	WIRING HARNESS "A"	48
			~~1~~	~~1010642-144~~	~~CONNECTOR PLUG ELEC.~~	47
			~~1~~	~~1010674-1~~	~~CONNECTOR PLUG ELEC.~~	46
			~~1~~	~~1010674-2~~	~~CONNECTOR PLUG ELEC.~~	45
5	5	5	5	1010400-1	CLAMP, LOOP, HINGED	44
			~~1~~	~~1010674-4~~	~~CONNECTOR PLUG ELEC.~~	43
			~~1~~	~~1010348-1~~	~~CONNECTOR PLUG ELEC.~~	42
			~~1~~	~~1010674-3~~	~~CONNECTOR PLUG ELEC.~~	41
			~~1~~	~~1010348-2~~	~~CONNECTOR PLUG ELEC.~~	40
			~~1~~	~~1000221~~	~~CONNECTOR RECP. ELEC.~~	39
1	1	1	1	AN345C10	NUT, PLAIN HEX	38
1	1	1	1	1014609	BRACKET, CLAMP	37
1	1	1	1	1010705-8	CLAMP, LOOP	36
			~~5~~	~~1010411-2~~	~~CONNECTOR RECP. ELEC.~~	35
1	1	1	1	1010400-7	CLAMP, LOOP, HINGED	34
			~~2~~	~~1000242-21~~	~~FERRULE, OUTER ELEC. COND.~~	33
			~~2~~	~~1000242-30~~	~~FERRULE, OUTER ELEC. COND.~~	32
			~~2~~	~~1000243-26~~	~~FERRULE, INNER ELEC. COND.~~	31
			~~2~~	~~1000243-34~~	~~FERRULE, INNER ELEC. COND.~~	30
			~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	29
			~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	28
			~~2~~	~~1010490-222~~	~~INSULATION SLEEVING, HEAT SHRINK~~	27
			~~2~~	~~1010490-216~~	~~INSULATION SLEEVING, HEAT SHRINK~~	26
			~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	25
			~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	24
1	1	1	1	1010400-8	CLAMP, LOOP, HINGED	23
			~~1~~	~~1010400-4~~	~~CLAMP, LOOP, HINGED~~	22
3	3	3	3	1010400-3	CLAMP, LOOP, HINGED	21
1	1	1	1	1010400-2	CLAMP, LOOP, HINGED	20
			~~1~~	~~1010671-2~~	~~CONNECTOR PLUG ELEC.~~	19
			~~1~~	~~1010671-1~~	~~CONNECTOR PLUG ELEC.~~	18
			~~2~~	~~1010607-3~~	~~CONNECTOR RECP. ELEC.~~	17
			~~1~~	~~1010607-1~~	~~CONNECTOR RECP. ELEC.~~	16
			~~4~~	~~1010411-1~~	~~CONNECTOR RECP. ELEC.~~	15
6	6	6	6	1006783-47	SCREW BUTTON HEAD	14
1	1	1	1	1008164	CABLE CLAMP LEFT	13
1	1	1	1	1008165	CABLE CLAMP RIGHT	12
1	1	1	1	1008148	CONN PLATE ASSY (264 PINS)	11
1	1	1	1	1008149	CONN PLATE ASSY (293 PINS)	10
3	3	3	3	MS35649-44	NUT	9
1	1	1	1	1010618-13	SCREW BUTTON HEAD	8
3	3	3	3	1010618-14	SCREW BUTTON HEAD	7
4	4	4	4	MS35335-57	WASHER, LOCK, FLAT, EXTERNAL TOOTH	6
			~~1~~	~~1010642-244~~	~~CONNECTOR PLUG ELEC.~~	5
8	8	8	8	MS16995-17	SCREW, HEX SOCKET HD	4
4	4	4	4	MS16995-10	SCREW, HEX SOCKET HD	3
10	10	10	10	1008163	PIN, LOCATING	2
–	–	-	1	1007161-000	END CONNECTOR ASSEMBLY PSA	1
QUANTITY REQUIRED				LIST OF MATERIALS		

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN J.FALZANO DATE 5 DEC 63
CHECKED
APPROVAL G.V.IVES 20 DEC 63
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

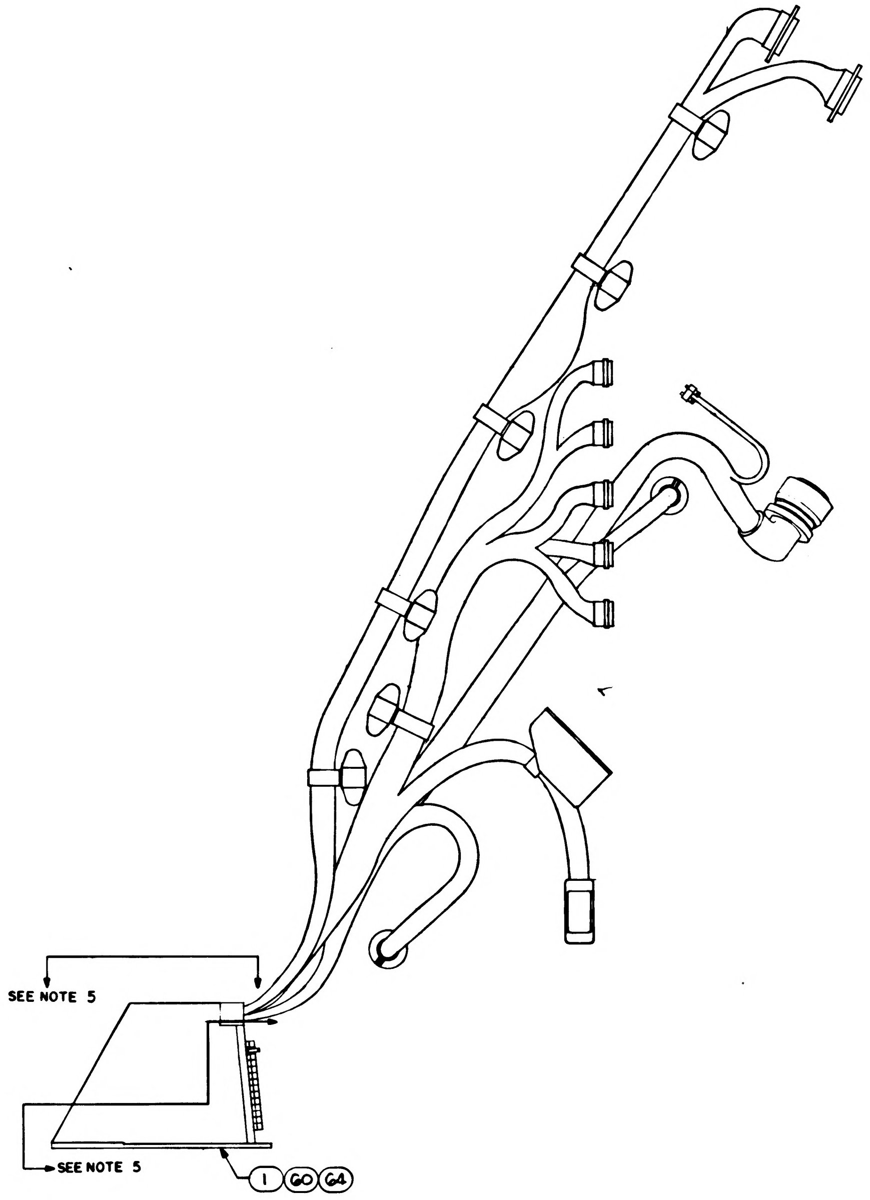
CODE IDENT NO	SIZE	NASA DRAWING NO
80230	E	1014606
SCALE 1/2	WT	SHEET 1 OF 6

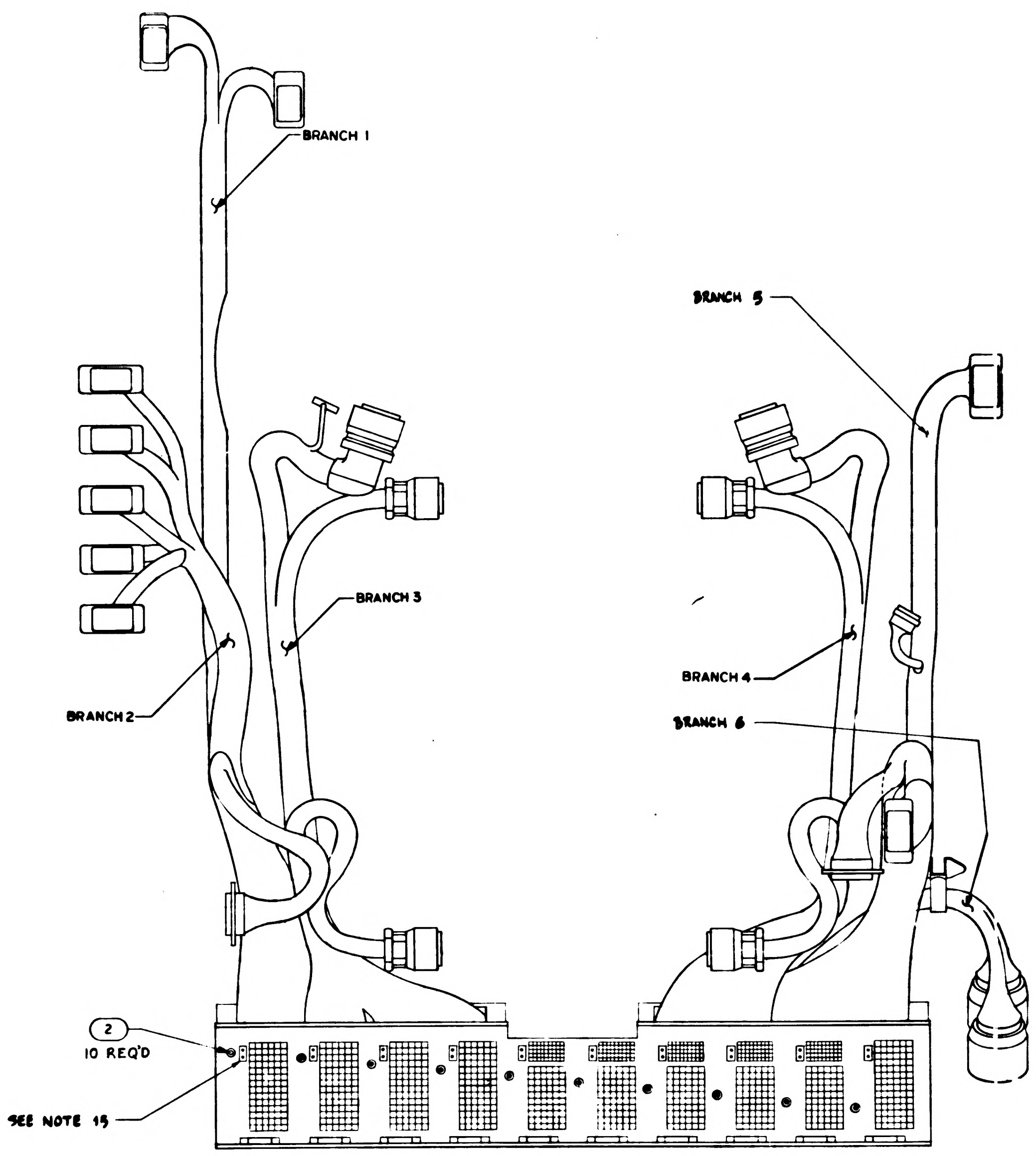
1014606 REV S SH

27 1014606

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MAXIMUM ENVELOPE AND "E" POINTS FOR ITEM NO. 49 WIRE LIST ARE SHOWN ON SHEET 2 OF THIS DRAWING.
3. BRANCHES 1, 2, AND 3 OF ITEMS 48, 61, AND 65 HARNESS CONFIGURATION ARE SHOWN ON SHEET 3 OF THIS DRAWING.
4. BRANCHES 4, 5, AND 6 OF ITEMS 48, 61, AND 65 HARNESS CONFIGURATION ARE SHOWN ON SHEET 4 OF THIS DRAWING.
5. MARRIAGE CONFIGURATION OF ITEMS 48, 61, 65, AND 49 SHOWN ON SHEET 5 OF THIS DRAWING.
6. ENCAPSULATION ENVELOPE IS SHOWN ON SHEET 6 OF THIS DRAWING.
7. MOUNTING TORQUE FOR FIND NO. 2 IS 6.5 IN/LBS.
8. ~~INTERCONNECTION LIST OF AGE HARNESS AND END CONNECTOR ASSEMBLY IS DRAWING NO. 1014607.~~
9. INTERCONNECTION DIAGRAM - APOLLO GUIDANCE EQUIPMENT C/M, LOWER EQUIPMENT BAY IS DRAWING NO. 1014523.
10. ASSEMBLE AND TEST PER ATP 1014606.
11. GRID MODULE ON SHEETS 3, 4, AND 5 IS 1 INCH TRUE POSITION.
12. UNLESS OTHERWISE SPECIFIED:
    FEATURE CENTERLINES ON SHEETS 3, 4, AND 5 ARE LOCATED WITHIN ± .25 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN ± .12 INCH.
13. POT BACK OF CONNECTORS PER ND 1002236 USING ITEM 62 FOR 1014606-011, -021, AND -031.
14. CONNECTOR KEYING CHANGED FROM "N" TO "W" FOR ~~1021709 AND~~ 1021716 CONFIGURATION.
15. TRAY STOPS ARE USED IN 1014606-011, -021 AND -031 CONFIGURATION.
16. SELECT NOTED ITEMS AT ENCAPSULATION PHASE OF END CONNECTOR BUILD UP.
17. ASSEMBLE AND ENCAPSULATE IN ACCORDANCE WITH ATP 1014606 USING ITEM NO. 62 PER ND 1002236.





1014606	REV S	SH 1 of 6

1/1014606

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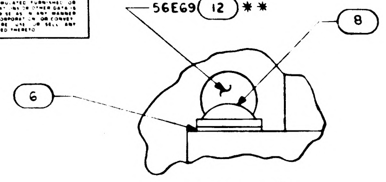
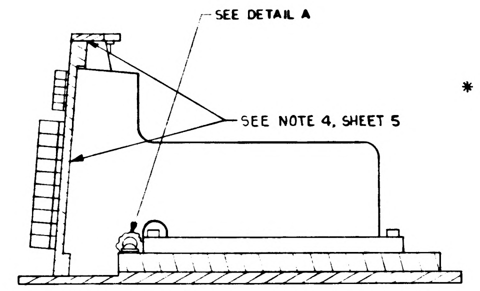
	REVISIONS		
	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV."K" WITH CHANGE PER TDRR 12749	3 AUG 64	JWF
		22 Aug 64	
M	REVISED PER TDRR 13300	1 OCT 64	
N	REVISED PER TDRR 13416	21 OCT 64	JWP
P	REVISED PER TDRR 16984	9 MAR 65	
R	REVISED PER TDRR 18880	7 JUN 65	GM
S	REVISION STATUS CHANGED	3 DEC 65	

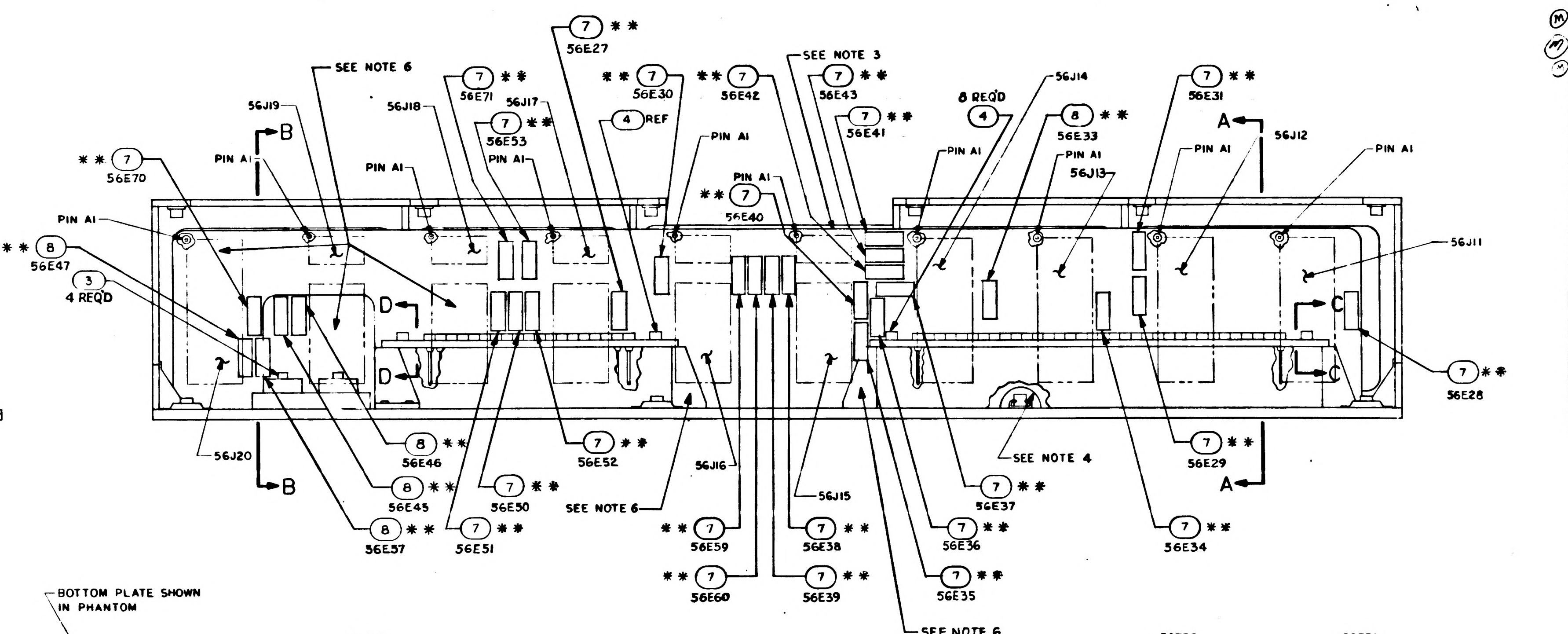


DETAIL A
SCALE 4/1

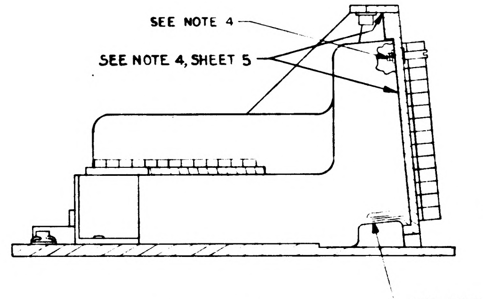


SEE DETAIL A
SEE NOTE 4, SHEET 5

SECTION B B

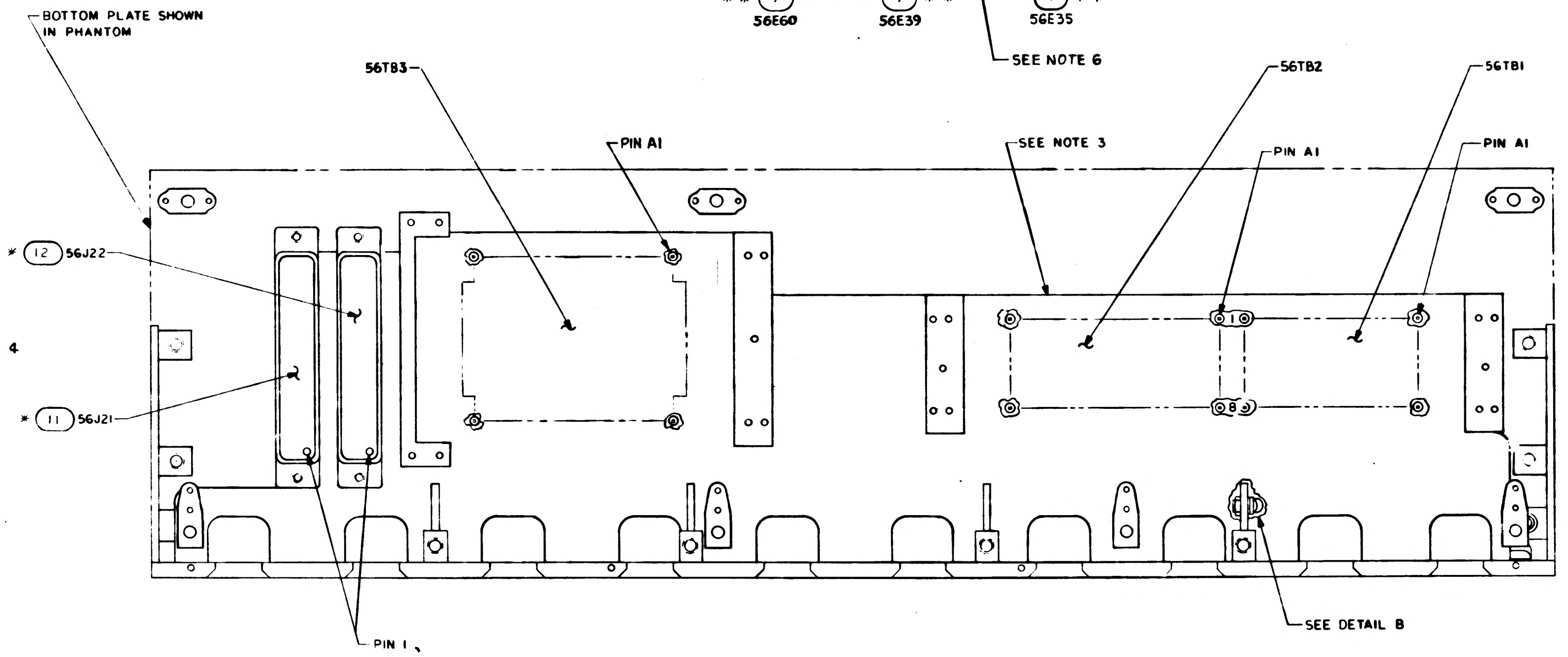


(7) ** 56E27
SEE NOTE 6
56J19
B
PIN A1
** (7) 56E70
56J18
(7) ** 56E71
(7) ** 56E53
56J17
PIN A1
PIN A1
** (7) 56E30
(4) REF
** (7) 56E42
SEE NOTE 3
(7) ** 56E43
(7) ** 56E41
PIN A1
** (7) 56E40
PIN A1
8 REQD
(4)
56J14
PIN A1
(8) ** 56E33
PIN A1
56J13
(7) ** 56E31
A
PIN A1
56J12
PIN A1
56J11
PIN A1
** (8) 56E47
(3) 4 REQD
D
D
C
C
(7) ** 56E28
56J20
B
(8) ** 56E46
(8) ** 56E45
(8) ** 56E57
(7) ** 56E52
(7) ** 56E50
(7) ** 56E51
SEE NOTE 6
56J16
56J15
** (7) 56E59
** (7) 56E60
(7) ** 56E38
(7) ** 56E39
SEE NOTE 4
(7) ** 56E29
A
(7) ** 56E37
(7) ** 56E36
(7) ** 56E35
(7) ** 56E34
SEE NOTE 6

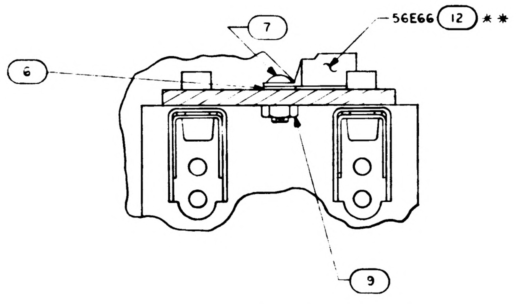


SEE NOTE 4
SEE NOTE 4, SHEET 5
SEE NOTE 4

SECTION A A



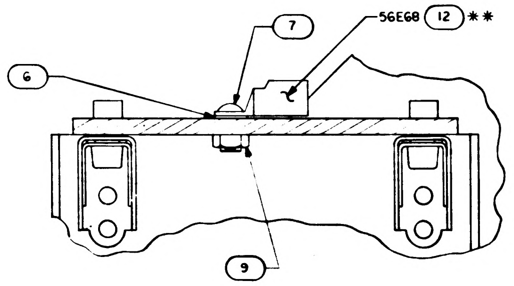
BOTTOM PLATE SHOWN IN PHANTOM
56TB3
PIN A1
SEE NOTE 3
56TB2
PIN A1
56TB1
PIN A1
* (12) 56J22
* (11) 56J21
PIN 1
SEE DETAIL B



(7)
56E66 (12) **
(6)
(9)

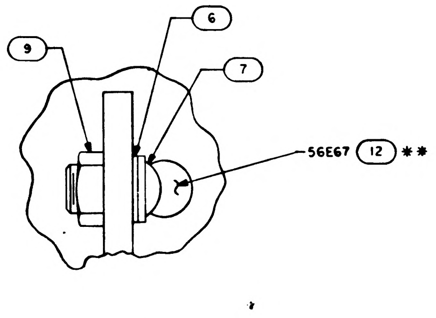
PARTIAL SECTION C C
SCALE 2/1

NOTES
1. ✱✱ PARTS ARE LISTED ON DWG 1014608
2. REFER TO DWG 1014608 FOR REFERENCE DESIGNATIONS AND WIRE LIST
3. OUTLINE SHOWS MAXIMUM ENVELOPE FOR WIRE LIST AA, 1014608
4. BEFORE WIRING, COVER THREADS AND OTHER SHARP EDGES WITH SILICON RUBBER PER ND1002009, METHOD B
5. ✱ PARTS NOTED ARE LISTED ON DRAWING 1014605, 1021709 OR 1021716.
6. PROTECT WIRING FROM SHARP EDGES USING ITEM 56



(7)
56E68 (12) **
(6)
(9)

PARTIAL SECTION D D
SCALE 2/1



(9)
(6)
(7)
56E67 (12) **

DETAIL B
SCALE 4/1

REPLACES REV"K" WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN Falzone DATE Dec 63
CHECKED
APPROVAL 12-30-63
APPROVAL 12-30-63
NASA APPROVAL W J 12-30-63
MIT APPROVAL 30 Dec 63

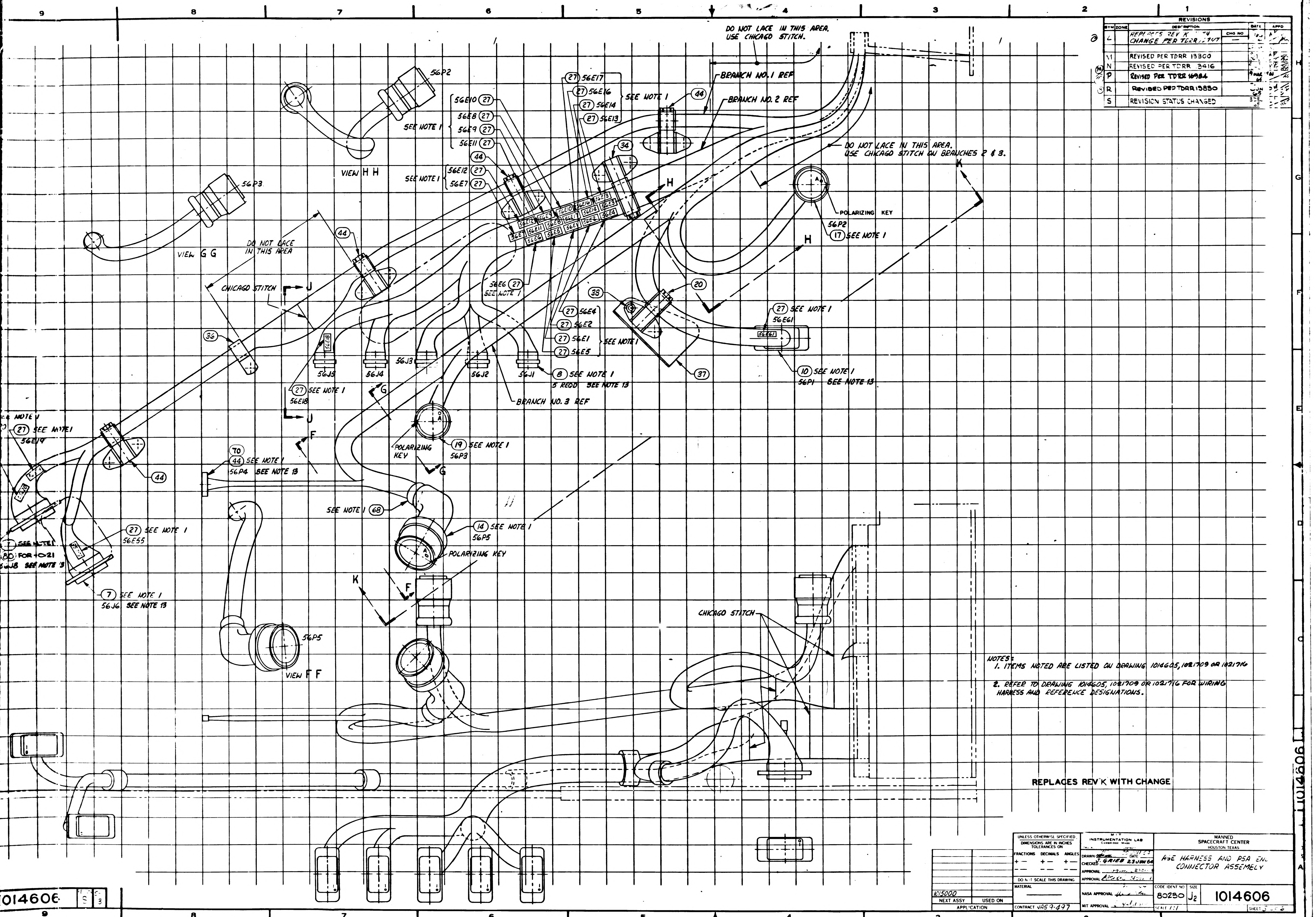
MANNED SPACECRAFT CENTER
HOUSTON TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO 80230
SIZE E
NASA DRAWING NO 1014606
SCALE 1/1
WT
SHEET 2 OF 6

1014606 S

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV K WITH CHANGE PER TDRR 12749	—		
M		REVISED PER TDRR 13300			
N		REVISED PER TDRR 13416			
P		REVISED PER TDRR 16984		9 MAR 65	
R		REVISED PER TDRR 19850		JUN 65	
S		REVISION STATUS CHANGED		3 DEC 65	



DO NOT LACE IN THIS AREA. USE CHICAGO STITCH.
BRANCH NO. 1 REF
BRANCH NO. 2 REF
DO NOT LACE IN THIS AREA. USE CHICAGO STITCH ON BRANCHES 2 & 3.
56P2
56E10 (27)
56E8 (27)
56E9 (27)
56E11 (27)
SEE NOTE 1
VIEW H H
(27) 56E17
(27) 56E16
(27) 56E14
(27) 56E13
SEE NOTE 1
(44)
(34)
(44)
SEE NOTE 1
56E12 (27)
56E7 (27)
H
POLARIZING KEY
56P2
(17) SEE NOTE 1
K
H
56P3
VIEW G G
DO NOT LACE IN THIS AREA
(44)
CHICAGO STITCH
J
56E6 (27)
SEE NOTE 1
(20)
(38)
(27) SEE NOTE 1
56E61
(27) 56E4
(27) 56E2
(27) 56E1
(27) 56E5
SEE NOTE 1
(36)
56E18
56J5
56J4
56J3
56J2
56J1
(8) SEE NOTE 1
5 REQD SEE NOTE 13
(37)
(10) SEE NOTE 1
56P1 SEE NOTE 13
(27) SEE NOTE 1
56E18
J
G
BRANCH NO. 3 REF
(27) SEE NOTE 1
56E19
(44)
(70)
(44) SEE NOTE 1
56P4 SEE NOTE 13
F
POLARIZING KEY
(19) SEE NOTE 1
56P3
G
SEE NOTE 1 (68)
(14) SEE NOTE 1
56P5
POLARIZING KEY
(27) SEE NOTE 1
56E55
SEE NOTE 1
(80) FOR -0-21
56J8 SEE NOTE 13
(7) SEE NOTE 1
56J6 SEE NOTE 13
K
F
56P5
VIEW F F
CHICAGO STITCH

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605, 1021709 OR 1021716
2. REFER TO DRAWING 1014605, 1021709 OR 1021716 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

REPLACES REV K WITH CHANGE

1015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± ± ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

MIT INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN DATE
CHECKED J. GRIEB 23 JUN 64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

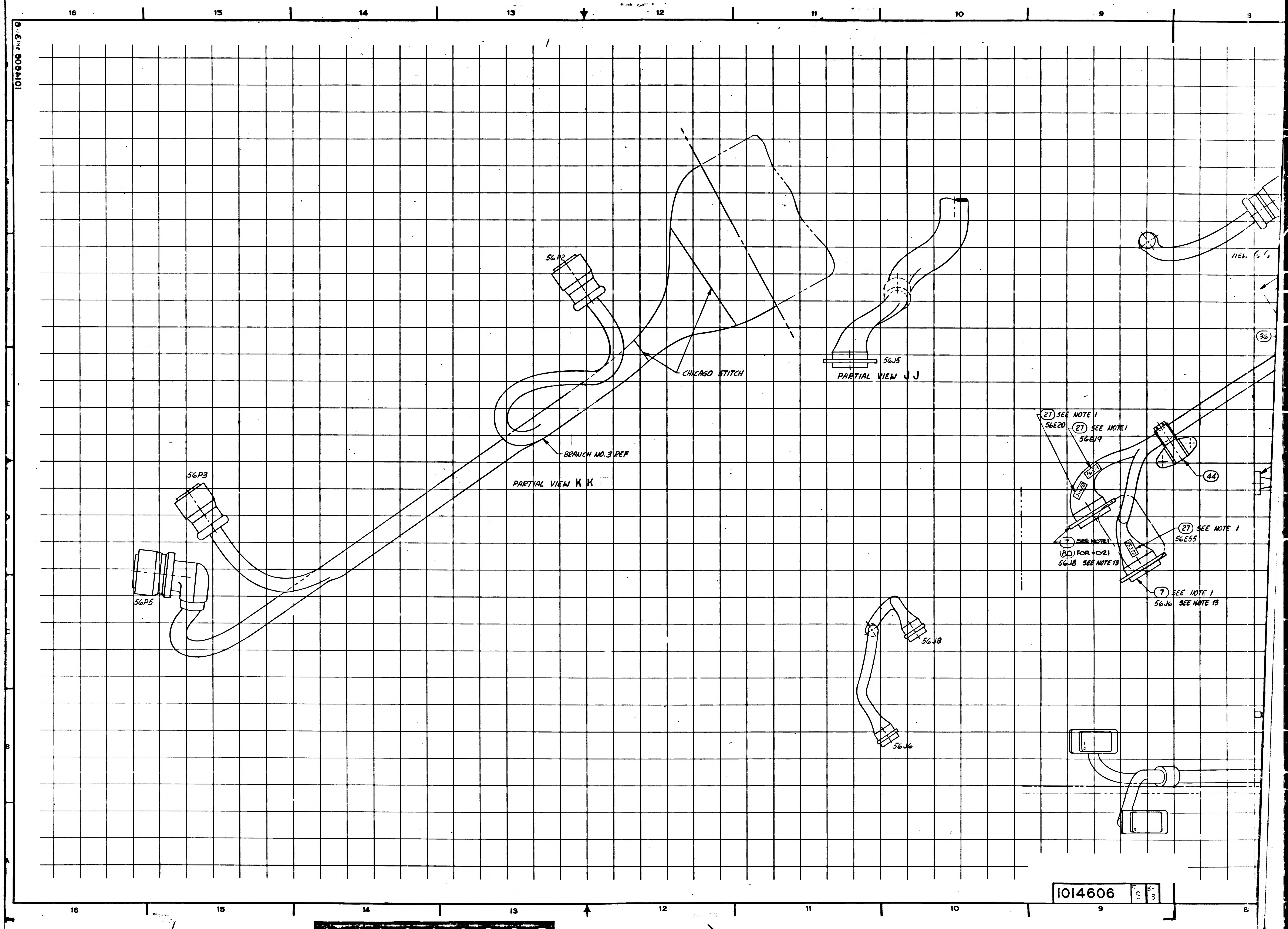
MANNED SPACECRAFT CENTER
HOUSTON TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO 80230
SIZE J2
1014606
SCALE 1:1
SHEET 3 OF 6

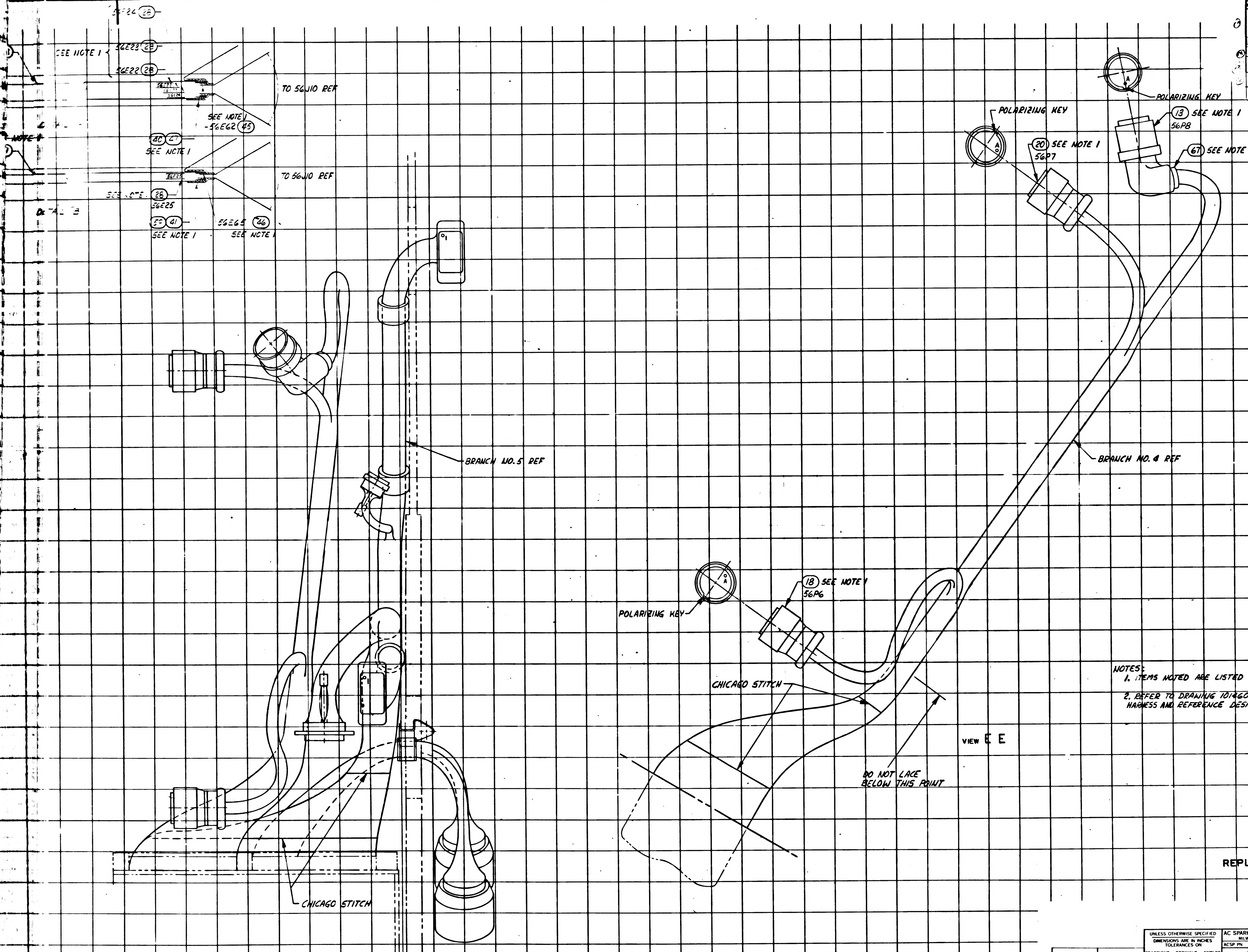
1014606 S 3

27 1014606


16
15
14
13
12
11
10
9
8
56P2
CHICAGO STITCH
BRANCH NO. 3 REF
PARTIAL VIEW K K
56P3
56P5
56J5
PARTIAL VIEW J J
27 SEE NOTE 1
56E20
27 SEE NOTE 1
56E19
44
7 SEE NOTE 1
80 FOR -021
56J8 SEE NOTE 13
27 SEE NOTE 1
56E55
7 SEE NOTE 1
56J6 SEE NOTE 13
56J8
56J6
1014606
S
SH
3

1/1014606

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
		REVISIONS			
L		REPLACES REV K WITH CHANGE PER TDRR 12749	—	AUG 64	[illegible]
		REVISED PER TDRR		[illegible]	[illegible]
M		REVISED PER TDRR 13300		[illegible]	[illegible]
N		REVISED PER TDRR 13416		[illegible]	[illegible]
P		REVISED PER TDRR 16984		9 MAR 6[illegible]	[illegible]
R		REVISED PER TDRR 19830		[illegible]	[illegible]
S		REVISION STATUS CHANGED		[illegible]	[illegible]


8
7
6
5
4
3
2
1
56E24 (28)
SEE NOTE 1
56E23 (28)
56E22 (28)
TO 56J10 REF
SEE NOTE 1
-56E62 (45)
(40) (47)
SEE NOTE 1
TO 56J10 REF
SEE NOTE 1 (28)
56E25
(59) (41)
SEE NOTE 1
56E65 (46)
SEE NOTE 1
DETAIL B
POLARIZING KEY
(13) SEE NOTE 1
56P8
POLARIZING KEY
(20) SEE NOTE 1
56P7
(67) SEE NOTE 1
BRANCH NO. 5 REF
BRANCH NO. 4 REF
(18) SEE NOTE 1
56P6
POLARIZING KEY
CHICAGO STITCH
DO NOT LACE BELOW THIS POINT
VIEW E E
CHICAGO STITCH

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605, 1021709 OR 1021716.
2. REFER TO DRAWING 1014605, 1021709 OR 1021716 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

REPLACES REV K WITH CHANGE

NEXT ASSY	USED ON
1015000	
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON

FRACTIONS	DECIMALS	ANGLES
+ —	+ —	+ —
— —	— —	— —

DO NOT SCALE THIS DRAWING
MATERIAL ——
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN [illegible] DATE 22 JUN 64
CHECKED J. GRIEB 23 JUN 64
APPROVAL [illegible] 23 JUN 64
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

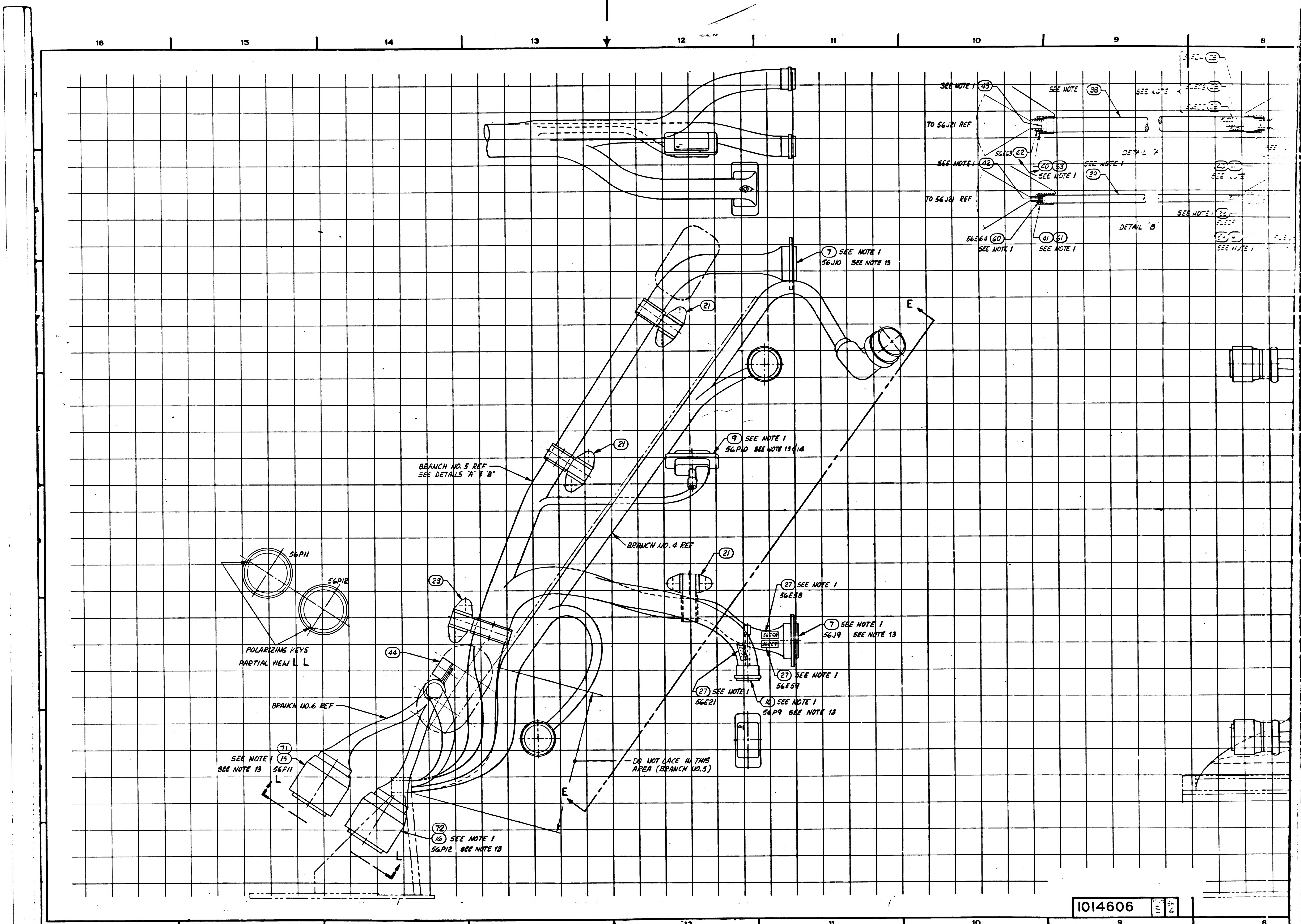
MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA END
CONNECTOR ASSEMBLY

CODE IDENT NO 80230
SIZE
1014606
SCALE 1:1
SHEET 4 OF 6

1014606 | 5 | 2

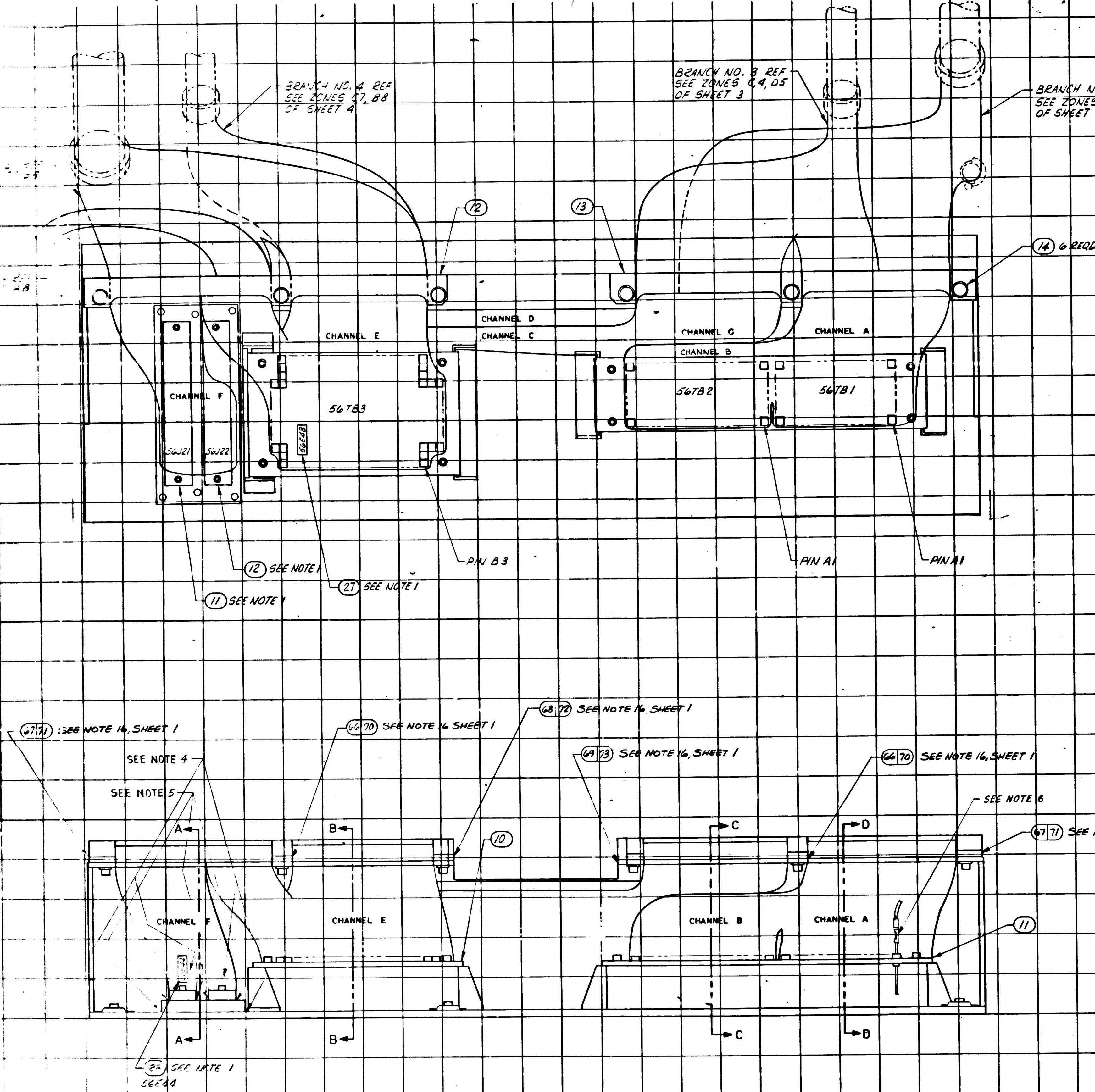
2710146O6

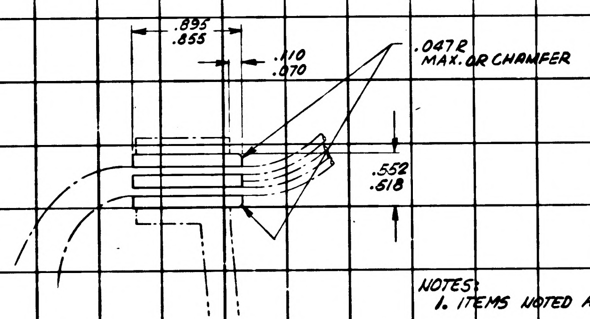

16
15
14
13
12
11
10
9
8
SEE NOTE 1 (43)
SEE NOTE (38)
SEE NOTE
TO 56J21 REF
56E63 (62)
(40) (63) SEE NOTE 1
SEE NOTE 1 (42)
SEE NOTE 1 (39)
DETAIL "A"
TO 56J21 REF
DETAIL "B"
56E64 (60) SEE NOTE 1
(41) (61) SEE NOTE 1
SEE NOTE 1
SEE NOTE 1
(7) SEE NOTE 1
56J10 SEE NOTE 13
(21)
E
(21)
(9) SEE NOTE 1
56P10 SEE NOTE 13 & 14
BRANCH NO. 5 REF
SEE DETAILS "A" & "B"
BRANCH NO. 4 REF
56P11
56P12
POLARIZING KEYS
PARTIAL VIEW L L
(23)
(21)
(27) SEE NOTE 1
56E58
(7) SEE NOTE 1
56J9 SEE NOTE 13
56E58
56E59
(27) SEE NOTE 1
56E59
(27) SEE NOTE 1
56E21
(10) SEE NOTE 1
56P9 SEE NOTE 13
(44)
BRANCH NO.6 REF
(71)
SEE NOTE 1 (15)
SEE NOTE 13 56P11
L
DO NOT LACE IN THIS
AREA (BRANCH NO.5)
E
(72)
(16) SEE NOTE 1
56P12 SEE NOTE 13
L

1014606

1710014606

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV K WITH CHANGE PER TDRR 12749	—		WT
M		REVISED PER TDRR 13300			WF
N		REVISED PER TDRR 13416			
P		REVISED PER TDRR 16964		9 MAR 65	RW
R		REVISED PER TDRR 19830			GM
S		REVISED PER TDRR 24459			


BRANCH NO. 4 REF SEE ZONES C7, B8 OF SHEET 4
BRANCH NO. 3 REF SEE ZONES C4, D5 OF SHEET 3
BRANCH NO. 1 AND 2 REF SEE ZONES B4, C5 OF SHEET 3
12
13
14 6 REQD
CHANNEL D
CHANNEL C
CHANNEL E
CHANNEL C
CHANNEL A
CHANNEL B
CHANNEL F
56TB3
56TB2
56TB1
56J21
56J22
56E4B
PIN B3
PIN A1
PIN A1
12 SEE NOTE 1
27 SEE NOTE 1
11 SEE NOTE 1
67 71 SEE NOTE 16, SHEET 1
66 70 SEE NOTE 16 SHEET 1
68 72 SEE NOTE 16 SHEET 1
69 73 SEE NOTE 16, SHEET 1
66 70 SEE NOTE 16, SHEET 1
SEE NOTE 4
SEE NOTE 5
SEE NOTE 6
67 71 SEE NOTE 16 SHEET 1
10
11
A
B
C
D
CHANNEL F
CHANNEL E
CHANNEL B
CHANNEL A
27 SEE NOTE 1
56FA4

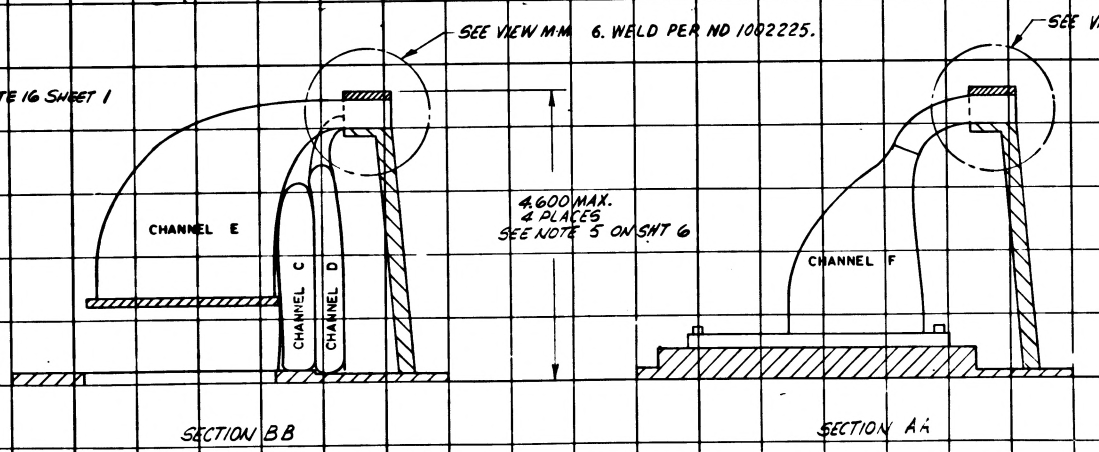

.895
.855
.110
.070
.047 R
MAX. OR CHAMFER
.552
.618

VIEW MM
SCALE: 2:1

SEE NOTE 3 FOR-000, 011 & 031
SEE NOTE 17, SHEET 1, FOR-021

NOTES:

1. ITEMS NOTED ARE LISTED ON DRAWING 1014605, 1021709 OR 1021716.
2. REFER TO DRAWING 1014605, 1021709 OR 1021716 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.
3. ASSEMBLE AND ENCAPSULATE IN ACCORDANCE WITH ATP 1014606 USING ITEM NO'S (50), (51) AND (52) PER ND1002009, METHOD A.
4. APPLY EPOXY PER ND 1002187 USING ITEMS (55) AND (56) AROUND ENTIRE LENGTH OF NOTED SURFACES, AT THE REAR OF CONNECTORS 56J21 AND 56J22 AND BEHIND CONNECTORS 56J11 THRU 56J20 TO HEIGHT SUFFICIENT TO COVER NYLON INSULATORS.
5. APPLY SILICONE RUBBER PER ND1002009, METHOD B, USING ITEMS (53) AND (54) AROUND ENTIRE LENGTH OF CONNECTORS 56J21 AND 56J22.
6. WELD PER ND 1002225.


SEE VIEW MM
SEE VIEW MM
CHANNEL E
CHANNEL C
CHANNEL D
CHANNEL F
4.600 MAX.
4 PLACES
SEE NOTE 5 ON SHT 6

SECTION BB

SECTION AA

REPLACES REV K WITH CHANGE

1015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN DATE
CHECKED J. GRIEB 23JUN64
APPROVAL
APPROVAL
NASA APPROVAL
MIT APPROVAL

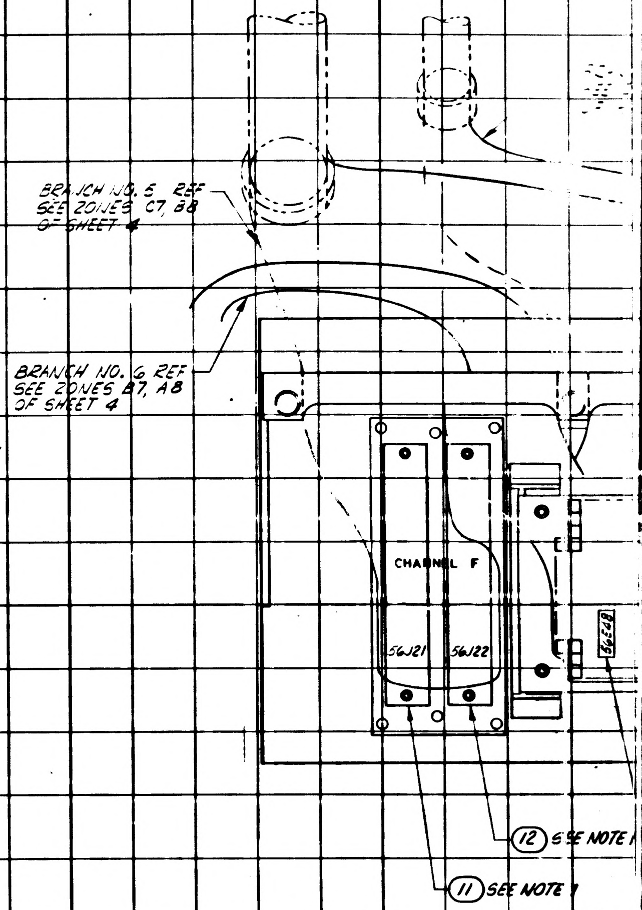
MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

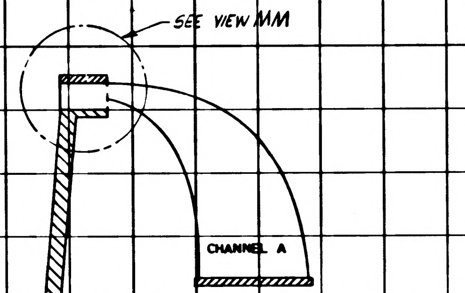
AGE HARNESS AND [illegible] CONNECTOR ASSEMBLY

CODE IDENT NO 80230
SIZE J2
1014606
SCALE
SHEET 2

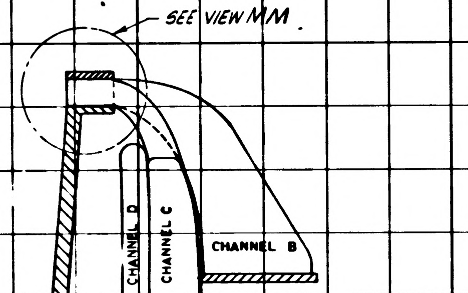
1014606

2710014606

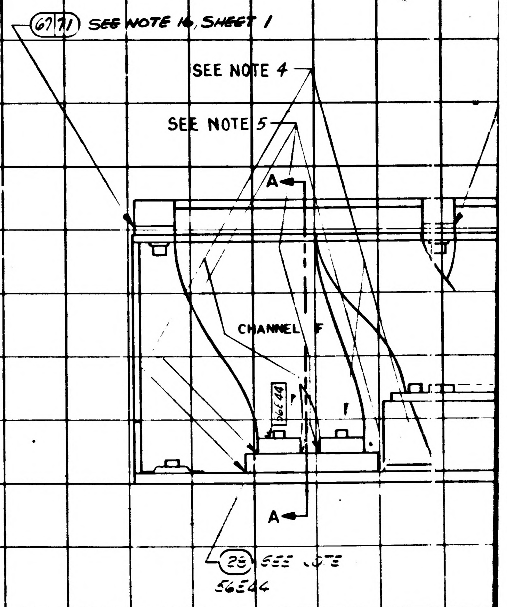

BRANCH NO. 5 REF
SEE ZONES C7, B8
OF SHEET 4
BRANCH NO. 6 REF
SEE ZONES B7, A8
OF SHEET 4
CHANNEL F
56J21
56J22
56E48
(12) SEE NOTE
(11) SEE NOTE


SEE VIEW MM
CHANNEL A

SECTION D D


SEE VIEW MM
CHANNEL D
CHANNEL C
CHANNEL B

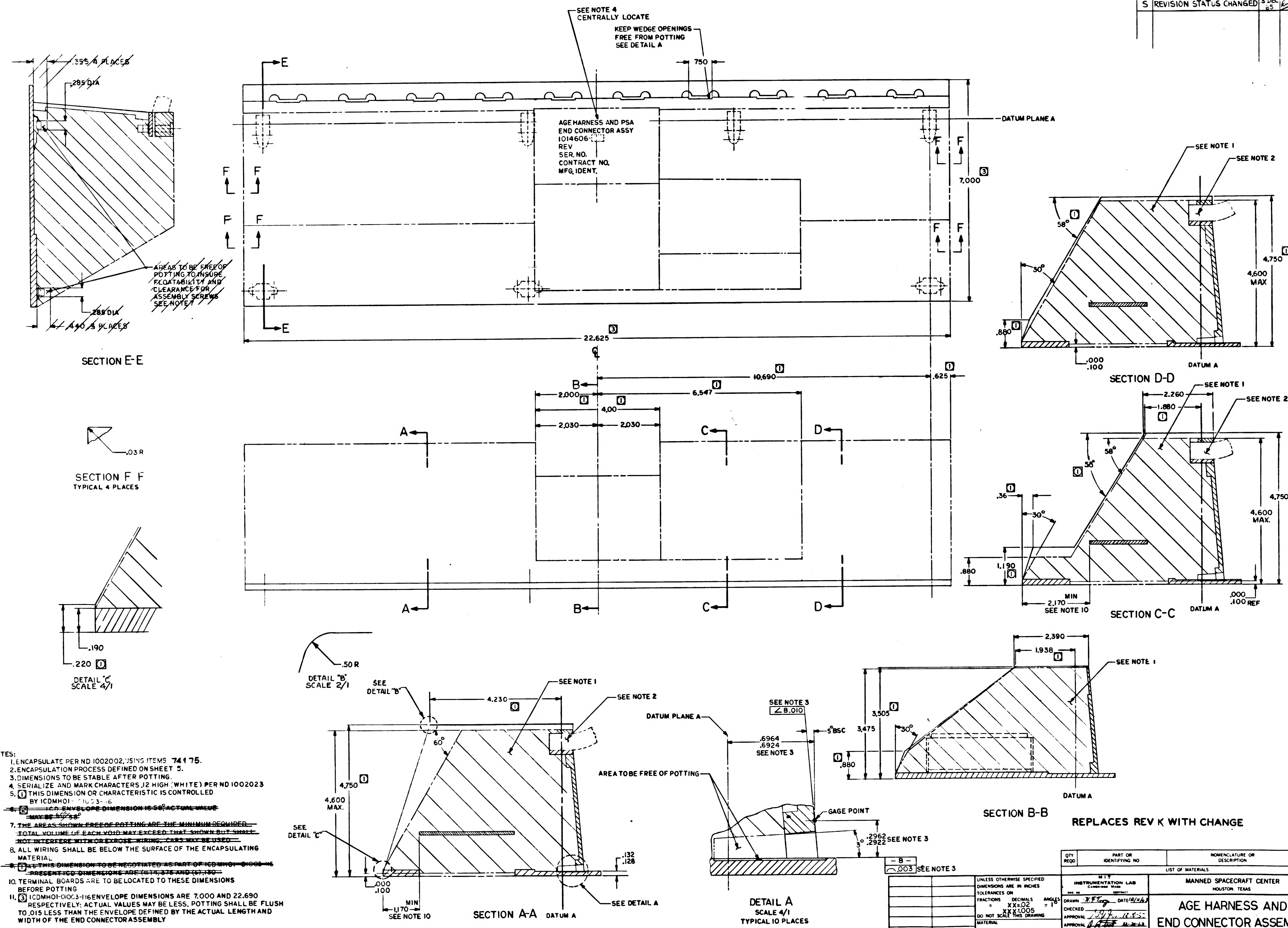
SECTION C C


(67)(71) SEE NOTE 16, SHEET 1
SEE NOTE 4
SEE NOTE 5
A
CHANNEL F
56E44
A
(29) SEE NOTE
56E44

1014606 | S | 5

1/1014606

SYM	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV. K WITH CHANGE PER TDRR 12749	3 AUG 64	JWP
		22 Aug 64	WR
M	REVISED PER TDRR 13300	19 OCT 64	JWP
N	REVISED PER TDRR 13416	21 OCT 64	
P	REVISED PER TDRR 16984	9 MAR 65	RW
R	REVISED PER TDRR 19830	9 JUN 65	GM
S	REVISION STATUS CHANGED	3 DEC 65	



SEE NOTE 4
CENTRALLY LOCATE
KEEP WEDGE OPENINGS FREE FROM POTTING SEE DETAIL A
.750
E
AGE HARNESS AND PSA
END CONNECTOR ASSY
1014606-
REV
SER. NO.
CONTRACT NO.
MFG. IDENT.
DATUM PLANE A
F
7.000 3
22.625 3
.355 4 PLACES
.285 DIA
AREAS TO BE FREE OF POTTING TO INSURE FLOATABILITY AND CLEARANCE FOR ASSEMBLY SCREWS SEE NOTE 7
.285 DIA
.440 3 PLACES
SECTION E-E
.03 R
SECTION F-F
TYPICAL 4 PLACES
.190
.220 1
DETAIL "C"
SCALE 4/1
.50 R
DETAIL "B"
SCALE 2/1
10.690 1
.625 1
2.000 1
6.547 1
4.00 1
2.030
2.030
A
B
C
D
SEE NOTE 1
SEE NOTE 2
58°
30°
4.750 1
4.600 MAX
.880 1
.000 .100
DATUM A
SECTION D-D
2.260
1.880 1
.36 1
1.190 1
.880
2.170 MIN SEE NOTE 10
.000 .100 REF
SECTION C-C
2.390
1.938 1
3.505 1
3.475
SECTION B-B
SEE DETAIL "B"
4.230 1
60°
SEE DETAIL "C"
.132 .128
.000 .100
1.170 MIN SEE NOTE 10
SEE DETAIL A
SECTION A-A
DATUM PLANE A
SEE NOTE 3
∠ B .010
.6964 .6924
SEE NOTE 3
5° BSC
AREA TO BE FREE OF POTTING
GAGE POINT
3°
.2962 .2922 SEE NOTE 3
-B-
⌒ .003 SEE NOTE 3
DETAIL A
SCALE 4/1
TYPICAL 10 PLACES

NOTES:
1. ENCAPSULATE PER ND 1002002, USING ITEMS 74 & 75.
2. ENCAPSULATION PROCESS DEFINED ON SHEET 5.
3. DIMENSIONS TO BE STABLE AFTER POTTING.
4. SERIALIZE AND MARK CHARACTERS .12 HIGH (WHITE) PER ND 1002023
5. 1 THIS DIMENSION OR CHARACTERISTIC IS CONTROLLED BY ICDMH01-01003-16
~~6. 2 ICD ENVELOPE DIMENSION IS 58°, ACTUAL VALUE MAY BE 60°/58°~~
~~7. THE AREAS SHOWN FREE OF POTTING ARE THE MINIMUM REQUIRED. TOTAL VOLUME OF EACH VOID MAY EXCEED THAT SHOWN BUT SHALL NOT INTERFERE WITH OR EXPOSE WIRING. CAPS MAY BE USED.~~
8. ALL WIRING SHALL BE BELOW THE SURFACE OF THE ENCAPSULATING MATERIAL
~~9. 1 & 6 THIS DIMENSION TO BE NEGOTIATED AS PART OF ICD MH01-01003-116 PRESENT ICD DIMENSIONS ARE (4) 4.375 AND (6) .180~~
10. TERMINAL BOARDS ARE TO BE LOCATED TO THESE DIMENSIONS BEFORE POTTING
11. 3 ICDMH01-01003-116 ENVELOPE DIMENSIONS ARE 7.000 AND 22.690 RESPECTIVELY; ACTUAL VALUES MAY BE LESS. POTTING SHALL BE FLUSH TO .015 LESS THAN THE ENVELOPE DEFINED BY THE ACTUAL LENGTH AND WIDTH OF THE END CONNECTOR ASSEMBLY

REPLACES REV K WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS XX ±.02 XXX ±.005 ANGLES ± 1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

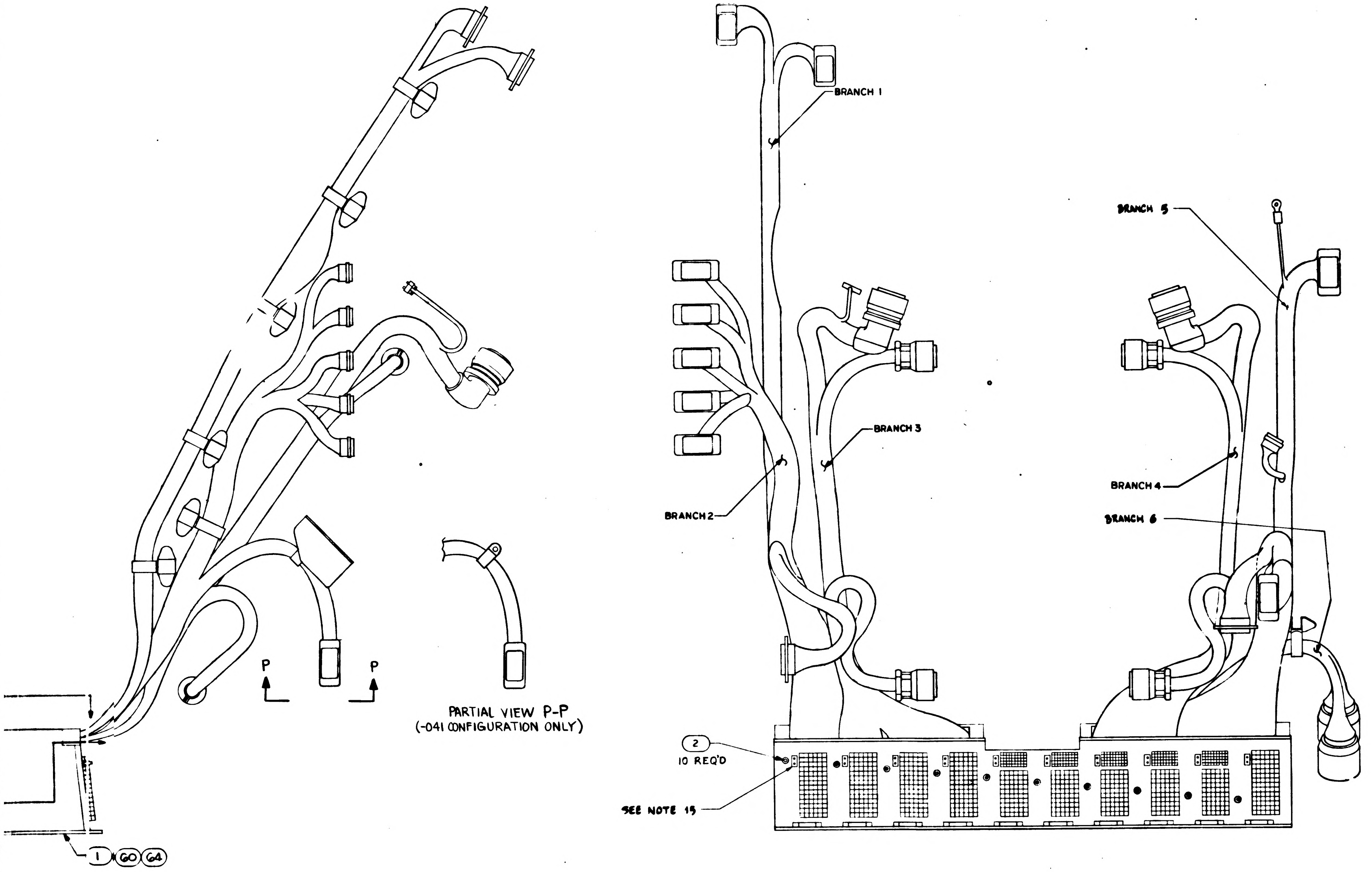
MIT INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN W. F. Tracy DATE 12/11/63
CHECKED
APPROVAL 12-6-63
APPROVAL 12-20-63
NASA APPROVAL W. J. 12-30-63
MIT APPROVAL W. Coffee 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

CODE IDENT NO 80230
SIZE E
NASA DRAWING NO 1014606
SCALE
WT
SHEET 6 OF 6

SYM	DESCRIPTION	DATE	APPROVAL
S	REPLACES REV R WITH CHANGE PER TDRR 24459	15 NOV 65	
T	REVISED PER TDRR 26128	18 FEB 66	JAC



SEE NOTE 18

-041	-031	-021	-011	-000	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
							79
X					1023054	INTERCONNECTION LIST	78
1					1023055	WIRING HARNESS A	77
10					1010400-1 THRU-18	CLAMP, LOOP, HINGED	76
AR	AR	AR	AR	AR	1010798-2	ACTIVATOR	75
AR	AR	AR	AR	AR	1010798-1	RESIN	74
1	1	1	1	1	1021253-8	SPACER	73
1	1	1	1	1	1021253-7	SPACER	72
2	2	2	2	2	1021253-6	SPACER	71
2	2	2	2	2	1021253-5	SPACER	70
1	1	1	1	1	1021253-4	SPACER	69
1	2	1	1	1	1021253-3	SPACER	68
2	2	2	2	2	1021253-2	SPACER	67
2	2	2	2	2	1021253-1	SPACER	66
—	-	1	-	-	1021716	WIRING HARNESS A	65
1	-	1	-	-	1007161-021	END CONNECTOR ASSY PSA	64
—	-	X	X	-	1021710	INTERCONNECTION LIST AGE HARNESS	63
AR	AR	AR	AR	-	1012503	COMPOUND, POTTING POLYURETHANE	62
—	-	-	1	-	1021709	WIRING HARNESS A	61
—	1	-	1	-	1007161-011	END CONNECTOR ASSY, PSA	60
—	X	-	-	X	1014607	INTERCONNECTION LIST AGE	59
AR	AR	AR	AR	AR	MIL-I-631	INSULATION MATERIAL, TYPE G, FORM S, CLASS I, 0.005 THICK X 6 IN. X 36 IN. (ES2749)	58
							57
AR	AR	AR	AR	AR	1010679	ADHESIVE ACTIVATOR	56
AR	AR	AR	AR	AR	1010661	EPOXY, RESIN	55
AR	AR	AR	AR	AR	1006835	AGENT, CURING	54
AR	AR	AR	AR	AR	1006834	COMPOUND, SILICONE RUBBER	53
AR	AR	AR	AR	AR	1006722	THINNER, SILICONE	52
AR	AR	AR	AR	AR	1006721	AGENT, CURING	51
AR	AR	AR	AR	AR	1006720	COMPOUND, SILICONE RUBBER	50
1	1	1	1	1	1014608	WIRE LIST "AA"	49
—	1	-	-	1	1014605	WIRING HARNESS "A"	48
				~~1~~	~~1010642-144~~	~~CONNECTOR PLUG ELEC.~~	47
				~~1~~	~~1010674-1~~	~~CONNECTOR PLUG ELEC.~~	46
				~~1~~	~~1010674-2~~	~~CONNECTOR PLUG ELEC.~~	45
—	5	5	5	5	1010400-1	CLAMP, LOOP, HINGED	44
				~~1~~	~~1010674-4~~	~~CONNECTOR PLUG ELEC.~~	43
				~~1~~	~~1010343-1~~	~~CONNECTOR PLUG ELEC.~~	42
				~~1~~	~~1010674-3~~	~~CONNECTOR PLUG ELEC.~~	41
				~~1~~	~~1010348-2~~	~~CONNECTOR PLUG ELEC.~~	40
				~~1~~	~~1000221~~	~~CONNECTOR RECP. ELEC.~~	39
1	1	1	1	1	AN345C10	NUT, PLAIN HEX	38
—	1	1	1	1	1014609	BRACKET, CLAMP	37
2	1	1	1	1	1010705-8	CLAMP, LOOP	36
				~~3~~	~~1010411-2~~	~~CONNECTOR RECP. ELEC.~~	35
—	1	1	1	1	1010400-7	CLAMP, LOOP, HINGED	34
				~~2~~	~~1000242-21~~	~~FERRULE, OUTER ELEC. COND.~~	33
				~~2~~	~~1000242-30~~	~~FERRULE, OUTER ELEC. COND.~~	32
				~~2~~	~~1000243-28~~	~~FERRULE, INNER ELEC. COND.~~	31
				~~2~~	~~1000243-34~~	~~FERRULE, INNER ELEC. COND.~~	30
				~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	29
				~~1~~	~~QQ-B-575~~	~~BRAID, WIRE~~	28
				~~2~~	~~1010490-222~~	~~INSULATION SLEEVING, HEAT SHRINK~~	27
				~~2~~	~~1010490-216~~	~~INSULATION SLEEVING, HEAT SHRINK~~	26
				~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	25
				~~1~~	~~1010490~~	~~INSULATION SLEEVING, HEAT SHRINK~~	24
—	1	1	1	1	1010400-8	CLAMP, LOOP, HINGED	23
				~~1~~	~~1010400-4~~	~~CLAMP, LOOP, HINGED~~	22
—	3	3	3	3	1010400-3	CLAMP, LOOP, HINGED	21
—	1	1	1	1	1010400-2	CLAMP, LOOP, HINGED	20
				~~1~~	~~1010671-2~~	~~CONNECTOR PLUG ELEC.~~	19
				~~1~~	~~1010671-1~~	~~CONNECTOR PLUG ELEC.~~	18
				~~2~~	~~1010607-3~~	~~CONNECTOR RECP. ELEC.~~	17
				~~1~~	~~1010607-1~~	~~CONNECTOR RECP. ELEC.~~	16
				~~4~~	~~1010411-1~~	~~CONNECTOR RECP. ELEC.~~	15
6	6	6	6	6	1006783-47	SCREW BUTTON HEAD	14
1	1	1	1	1	1008164	CABLE CLAMP LEFT	13
1	1	1	1	1	1008165	CABLE CLAMP RIGHT	12
1	1	1	1	1	1008148	CONN PLATE ASSY (264 PINS)	11
1	1	1	1	1	1008149	CONN PLATE ASSY (293 PINS)	10
3	3	3	3	3	MS35649-44	NUT	9
1	1	1	1	1	1010618-13	SCREW BUTTON HEAD	8
3	3	3	3	3	1010618-14	SCREW BUTTON HEAD	7
4	4	4	4	4	MS35335-57	WASHER, LOCK, FLAT, EXTERNAL TOOTH	6
				~~1~~	~~1010642-244~~	~~CONNECTOR PLUG ELEC.~~	5
8	8	8	8	8	MS16995-17	SCREW, HEX SOCKET HD	4
4	4	4	4	4	MS16995-10	SCREW, HEX SOCKET HD	3
10	10	10	10	10	1008163	PIN, LOCATING	2
—	-	-	-	1	1007161-000	END CONNECTOR ASSEMBLY PSA	1

QUANTITY REQUIRED

LIST OF MATERIALS

NEXT ASSY	USED ON	APPLICABLE DASH NO.
APPLICATION		

THE ASSEMBLY PART NUMBER IS THE DRAWING NUMBER AND THE DASH NUMBER THAT APPLIES

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN J.FALZANO DATE 5 DEC 63
CHECKED
APPROVAL G.V.IVES 20 DEC 63
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA END CONNECTOR ASSEMBLY

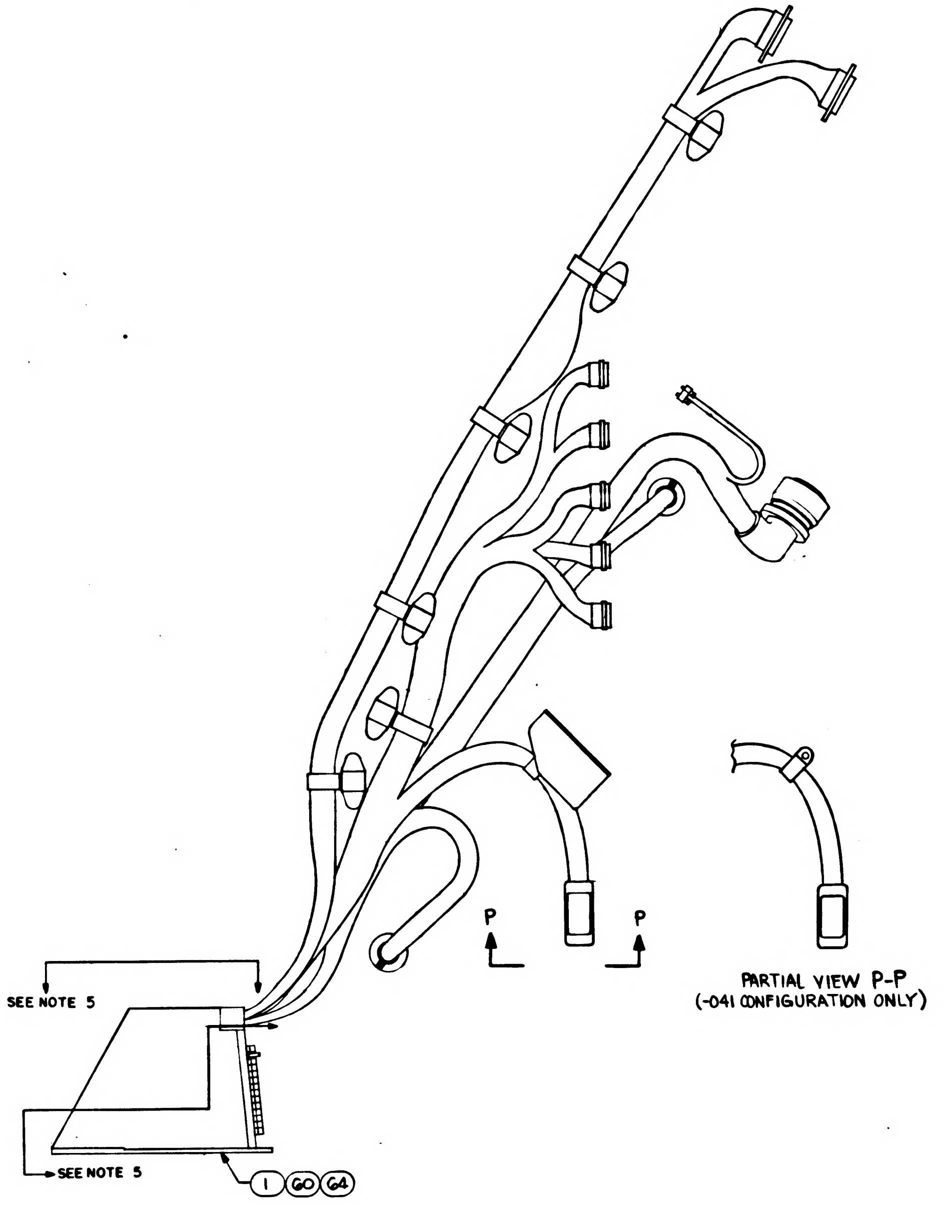
CODE IDENT NO 80230 SIZE E NASA DRAWING NO 1014606
SCALE 1/2 WT SHEET 1 OF 6

1014606 REV T SH 1

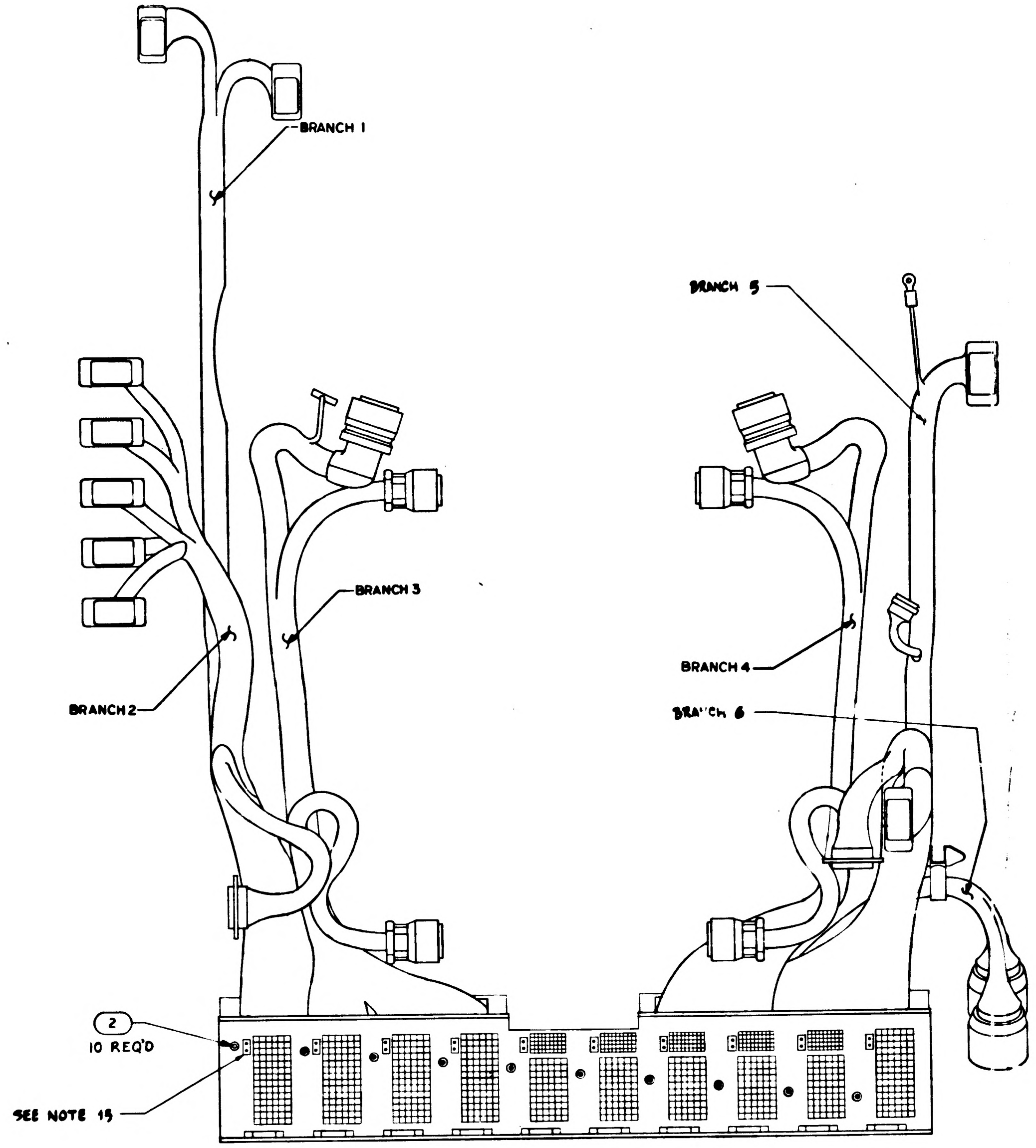
2710146 06

NOTES:

1. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
2. MAXIMUM ENVELOPE AND "E" POINTS FOR ITEM NO. 49 WIRE LIST ARE SHOWN ON SHEET 2 OF THIS DRAWING.
3. BRANCHES 1, 2, AND 3 OF ITEMS 48, 61, AND 65 HARNESS CONFIGURATION ARE SHOWN ON SHEET 3 OF THIS DRAWING.
4. BRANCHES 4, 5, AND 6 OF ITEMS 48, 61, AND 65 HARNESS CONFIGURATION ARE SHOWN ON SHEET 4 OF THIS DRAWING.
5. MARRIAGE CONFIGURATION OF ITEMS 48, 61, 65, AND 49 SHOWN ON SHEET 5 OF THIS DRAWING.
6. ENCAPSULATION ENVELOPE IS SHOWN ON SHEET 6 OF THIS DRAWING.
7. MOUNTING TORQUE FOR FIND NO. 2 IS 6.5 IN/LBS.
8. ~~INTERCONNECTION LIST OF AGE HARNESS AND END CONNECTOR ASSEMBLY IS DRAWING NO. 1014607.~~
9. INTERCONNECTION DIAGRAM - APOLLO GUIDANCE EQUIPMENT C/M, LOWER EQUIPMENT BAY IS DRAWING NO. 1014523.
10. ASSEMBLE AND TEST PER ATP 1014606.
11. GRID MODULE ON SHEETS 3, 4, AND 5 IS 1 INCH TRUE POSITION.
12. UNLESS OTHERWISE SPECIFIED:
    FEATURE CENTERLINES ON SHEETS 3, 4, AND 5 ARE LOCATED WITHIN ± .25 INCH. END OF HOOKUP WIRES OR ACCESSORIES ARE LOCATED WITHIN ± .12 INCH.
13. POT BACK OF CONNECTORS PER ND 1002236 USING ITEM 62 FOR 1014606-011, -021, AND -031.
14. CONNECTOR KEYING CHANGED FROM "N" TO "W" FOR ~~1021709 AND~~ 1021716 CONFIGURATION.
15. TRAY STOPS ARE USED IN 1014606-011, -021 AND -031 CONFIGURATION.
16. SELECT NOTED ITEMS AT ENCAPSULATION PHASE OF END CONNECTOR BUILD UP.
17. ASSEMBLE AND ENCAPSULATE IN ACCORDANCE WITH ATP 1014606 USING ITEM NO. 62 PER ND 1002236.
18. SELECT SIZES TO CONFORM TO BUNDLE DIAMETERS AT LOCATIONS SHOWN ON SHEETS 3 & 4.
19. CLAMP LOCATIONS SHOWN ARE FOR REFERENCE ONLY.

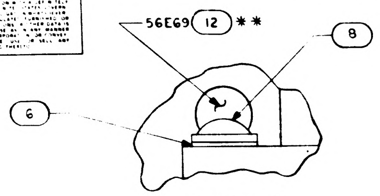


PARTIAL VIEW P-P
(-041 CONFIGURATION ONLY)

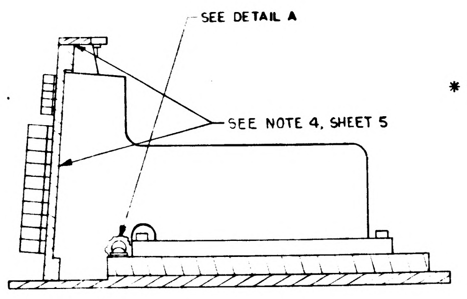


1014606	REV T	SH 1 OF 6

	REVISIONS		
	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV."K" WITH CHANGE PER TDRR 12749	3 AUG 64	JWP
		22 Apr 64	
M	REVISED PER TDRR 133CC	1 OCT 64	WP
N	REVISED PER TDRR 13416	21 OCT 64	JWP
P	REVISED PER TDRR 16984	9 MAR 65	RW AU
R	REVISED PER TDRR 18880	7 JUN 65	GM
S	REVISION STATUS CHANGED	3 DEC 65	RP
T	REVISED PER TDRR 26128	18 FEB 66	RP

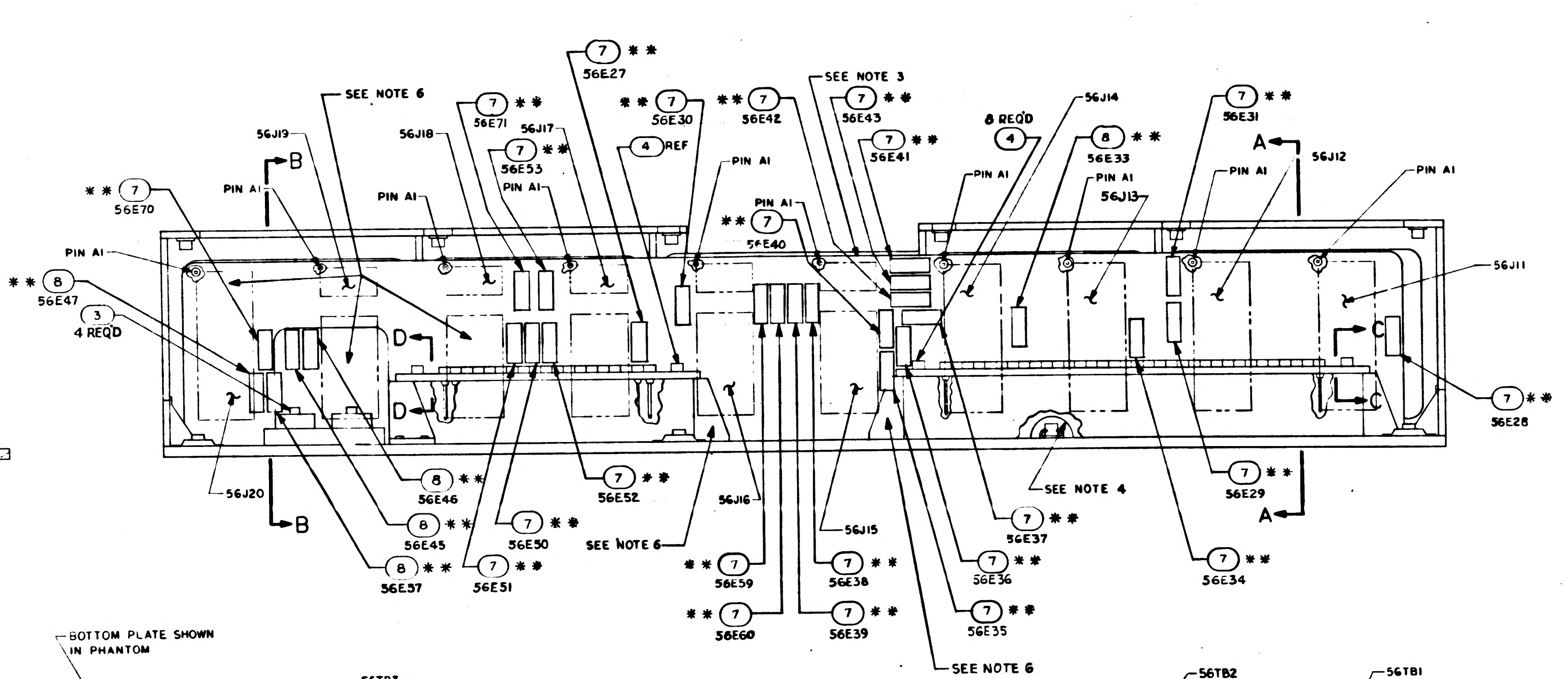


DETAIL A
SCALE 4/1

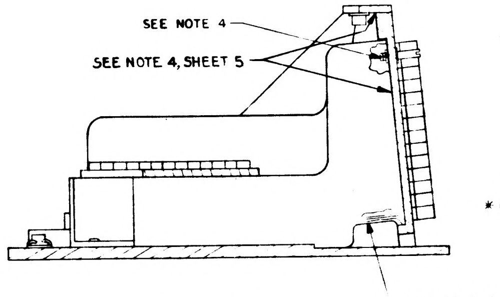


SEE DETAIL A
SEE NOTE 4, SHEET 5

SECTION B B

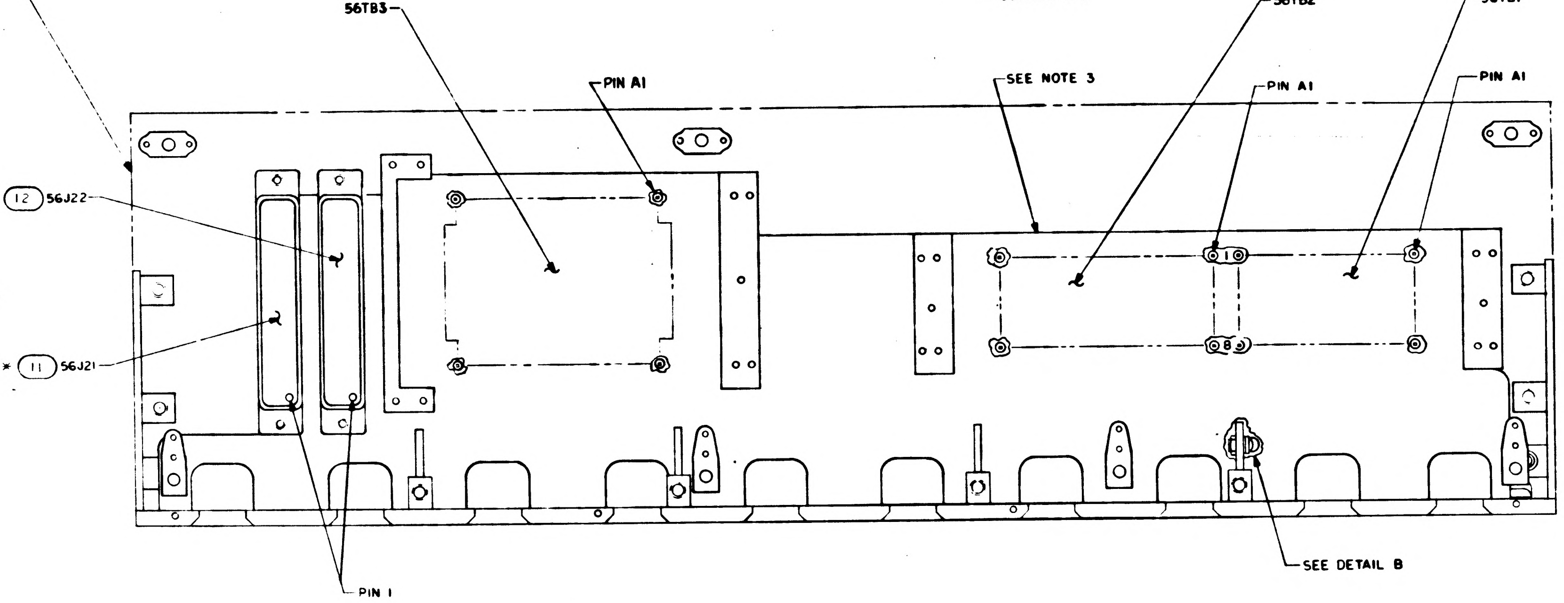


7 * *
56E27
SEE NOTE 6
56J19
B
PIN A1
56J18
7 * *
56E71
56J17
7 * *
56E53
PIN A1
* * 7
56E30
4 REF
* * 7
56E42
SEE NOTE 3
7 * *
56E43
7 * *
56E41
8 REQD
4
56J14
8 * *
56E33
PIN A1
56J13
7 * *
56E31
A
PIN A1
56J12
PIN A1
* * 7
56E70
PIN A1
PIN A1
* * 7
56E40
PIN A1
56J11
* * 8
56E47
3
4 REQD
D
D
C
C
7 * *
56E28
56J20
B
8 * *
56E46
8 * *
56E45
8 * *
56E57
7 * *
56E51
7 * *
56E50
7 * *
56E52
SEE NOTE 6
56J16
* * 7
56E59
* * 7
56E60
56J15
7 * *
56E38
7 * *
56E39
SEE NOTE 4
7 * *
56E37
7 * *
56E36
7 * *
56E35
SEE NOTE 6
7 * *
56E29
A
7 * *
56E34

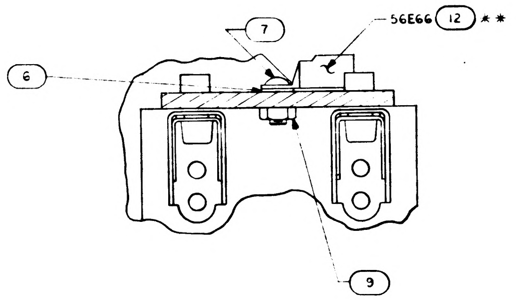


SEE NOTE 4
SEE NOTE 4, SHEET 5
SEE NOTE 4

SECTION A A



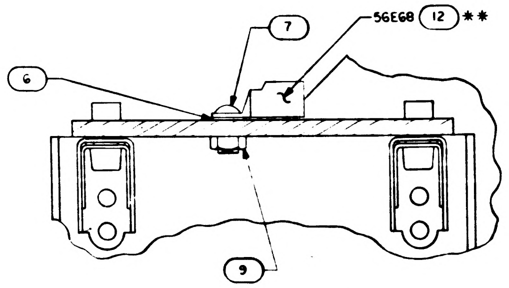
BOTTOM PLATE SHOWN IN PHANTOM
56TB3
PIN A1
SEE NOTE 3
56TB2
PIN A1
56TB1
PIN A1
* 12 56J22
* 11 56J21
PIN 1
SEE DETAIL B



7
56E66 (12) * *
6
9

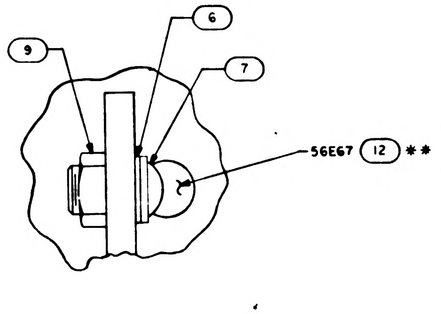
PARTIAL SECTION C C
SCALE 2/1

NOTES
1. * * PARTS ARE LISTED ON DWG 1014608
2. REFER TO DWG 1014608 FOR REFERENCE DESIGNATIONS AND WIRE LIST
3. OUTLINE SHOWS MAXIMUM ENVELOPE FOR WIRE LIST AA, 1014608
4. BEFORE WIRING, COVER THREADS AND OTHER SHARP EDGES WITH SILICON RUBBER PER ND1002009, METHOD B
5. * PARTS NOTED ARE LISTED ON DRAWING 1014605, 1021709, 1021716 OR 1023055
6. PROTECT WIRING FROM SHARP EDGES USING ITEM 56



7
56E68 (12) * *
6
9

PARTIAL SECTION D D
SCALE 2/1



9
6
7
56E67 (12) * *

DETAIL B
SCALE 4/1

REPLACES REV"K" WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	FIND NO

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DWG NO CONTRACT
DRAWN Falzone DATE Dec 63
CHECKED
APPROVAL 12-30-63
APPROVAL 12-30-63
NASA APPROVAL W. J. R. 12-30-63
MIT APPROVAL 30 Dec 63

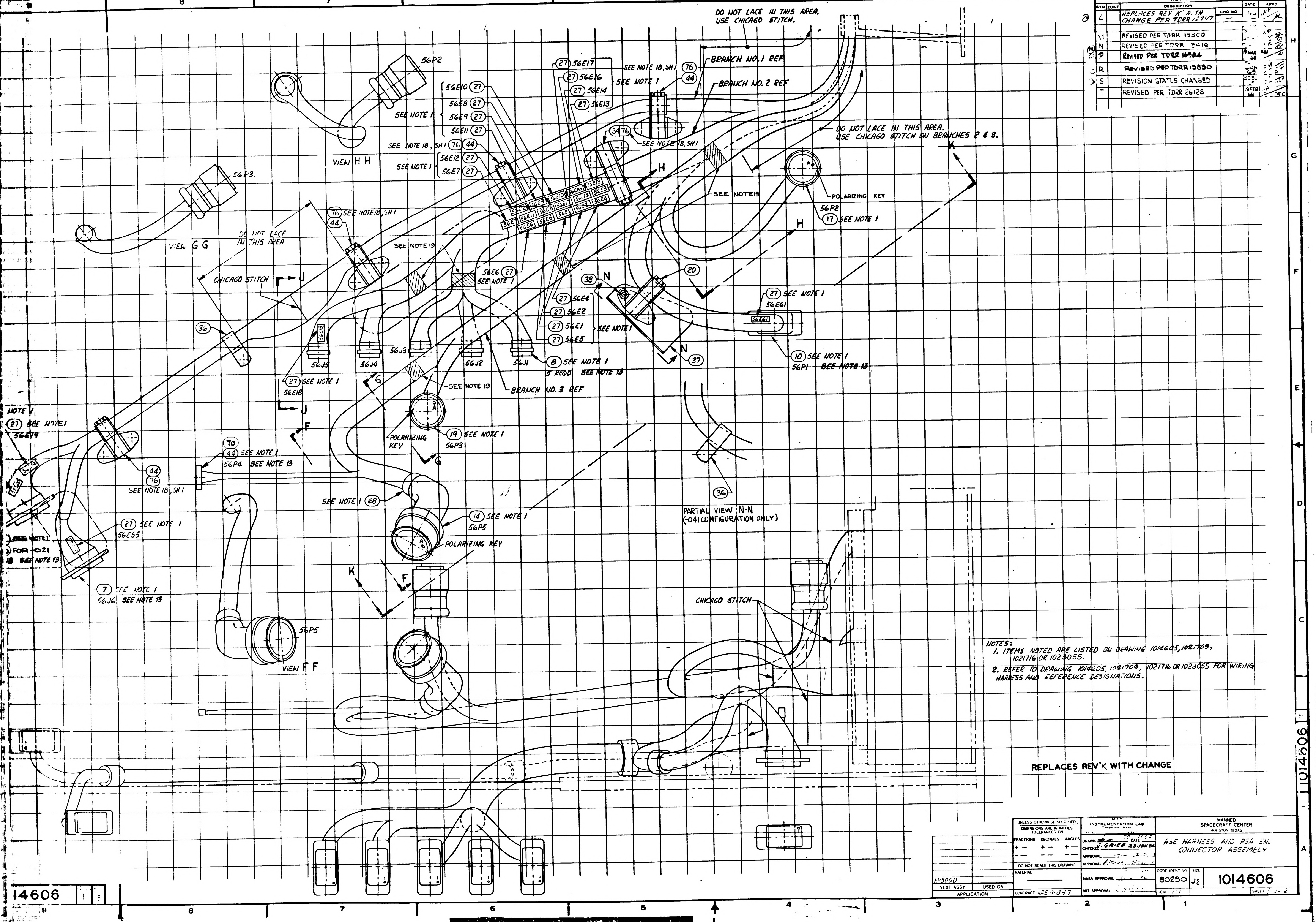
MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO 80230
SIZE E
NASA DRAWING NO 1014606
SCALE 1/1
WT
SHEET 2 OF 6

1014606 T

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV K WITH CHANGE PER TDRR 12749	—	[illegible]	[illegible]
M		REVISED PER TDRR 13300		[illegible]	[illegible]
N		REVISED PER TDRR 3416		[illegible]	[illegible]
P		REVISED PER TDRR 16984		9 MAR 65	[illegible]
R		REVISED PER TDRR 19830		JUN 65	[illegible]
S		REVISION STATUS CHANGED		[illegible]	[illegible]
T		REVISED PER TDRR 26128		18 FEB 66	[illegible]


DO NOT LACE IN THIS AREA. USE CHICAGO STITCH.
BRANCH NO. 1 REF
BRANCH NO. 2 REF
BRANCH NO. 3 REF
DO NOT LACE IN THIS AREA. USE CHICAGO STITCH ON BRANCHES 2 & 3.
DO NOT LACE IN THIS AREA
CHICAGO STITCH
VIEW H H
VIEW G G
VIEW F F
PARTIAL VIEW N-N (-041 CONFIGURATION ONLY)
56P1
56P2
56P3
56P4
56P5
56J1
56J2
56J3
56J4
56J5
56J6
56E1
56E2
56E4
56E5
56E6
56E7
56E8
56E9
56E10
56E11
56E12
56E13
56E14
56E16
56E17
56E18
56E55
56E61
SEE NOTE 1
SEE NOTE 13
SEE NOTE 18, SH 1
SEE NOTE 19
POLARIZING KEY
5 REQD
FOR -021
27
44
76
70
36
38
37
20
17
19
14
10
8
7
68
H
G
F
K
J
N

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605, 1021709, 1021716 OR 1023055.
2. REFER TO DRAWING 1014605, 1021709, 1021716 OR 1023055 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

REPLACES REV K WITH CHANGE

1015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL
CONTRACT NAS 9-497

MIT
INSTRUMENTATION LAB
CAMBRIDGE MASS
DRAWN [illegible] DATE [illegible]
CHECKED J. GRIEB 23 JUN 64
APPROVAL [illegible]
APPROVAL [illegible]
NASA APPROVAL [illegible]
MIT APPROVAL [illegible]

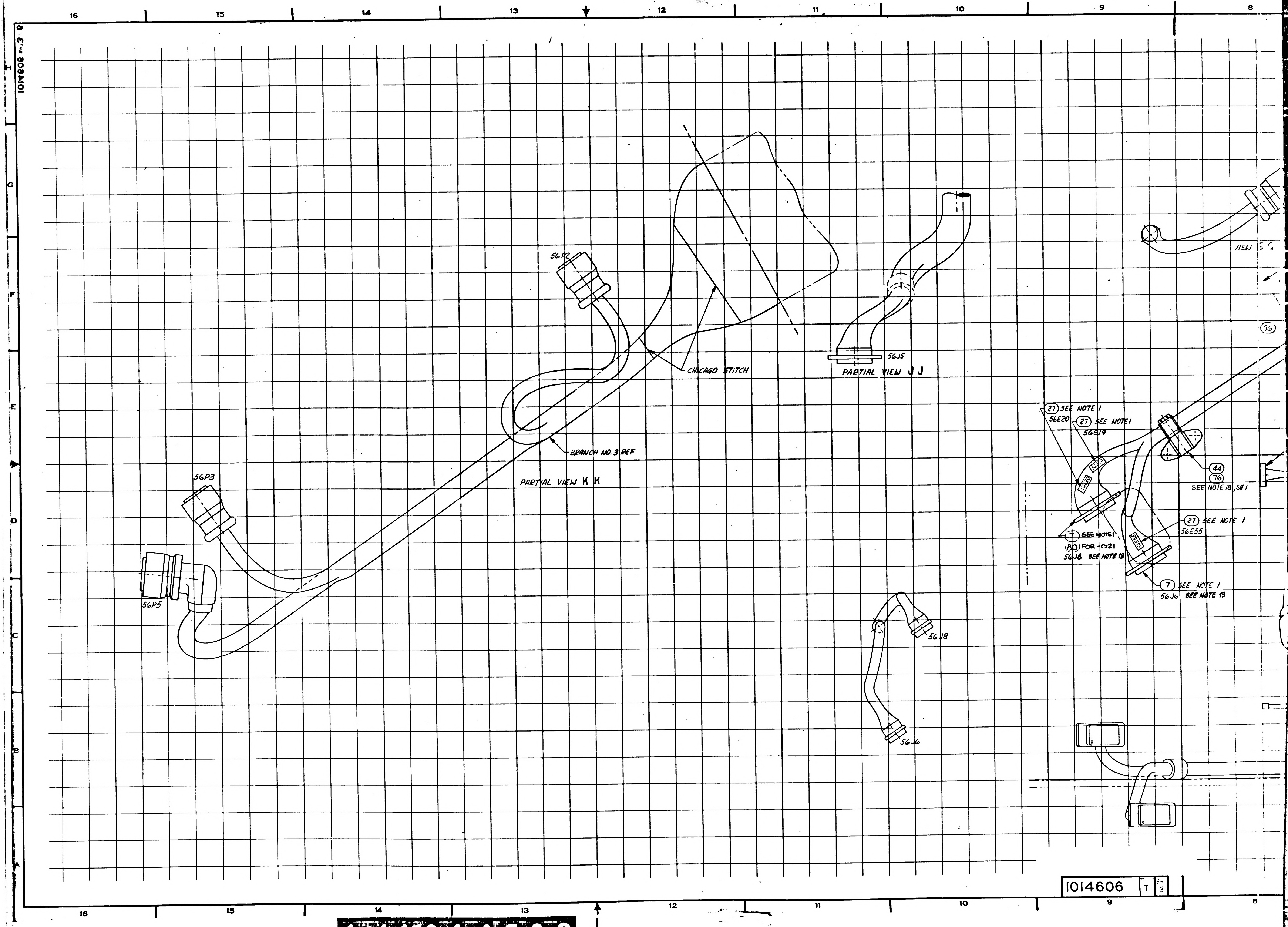
MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

AGE HARNESS AND PSA ENG
CONNECTOR ASSEMBLY

CODE IDENT NO 80230
SIZE J2
1014606
SCALE 1:1
SHEET [illegible]

1014606 T

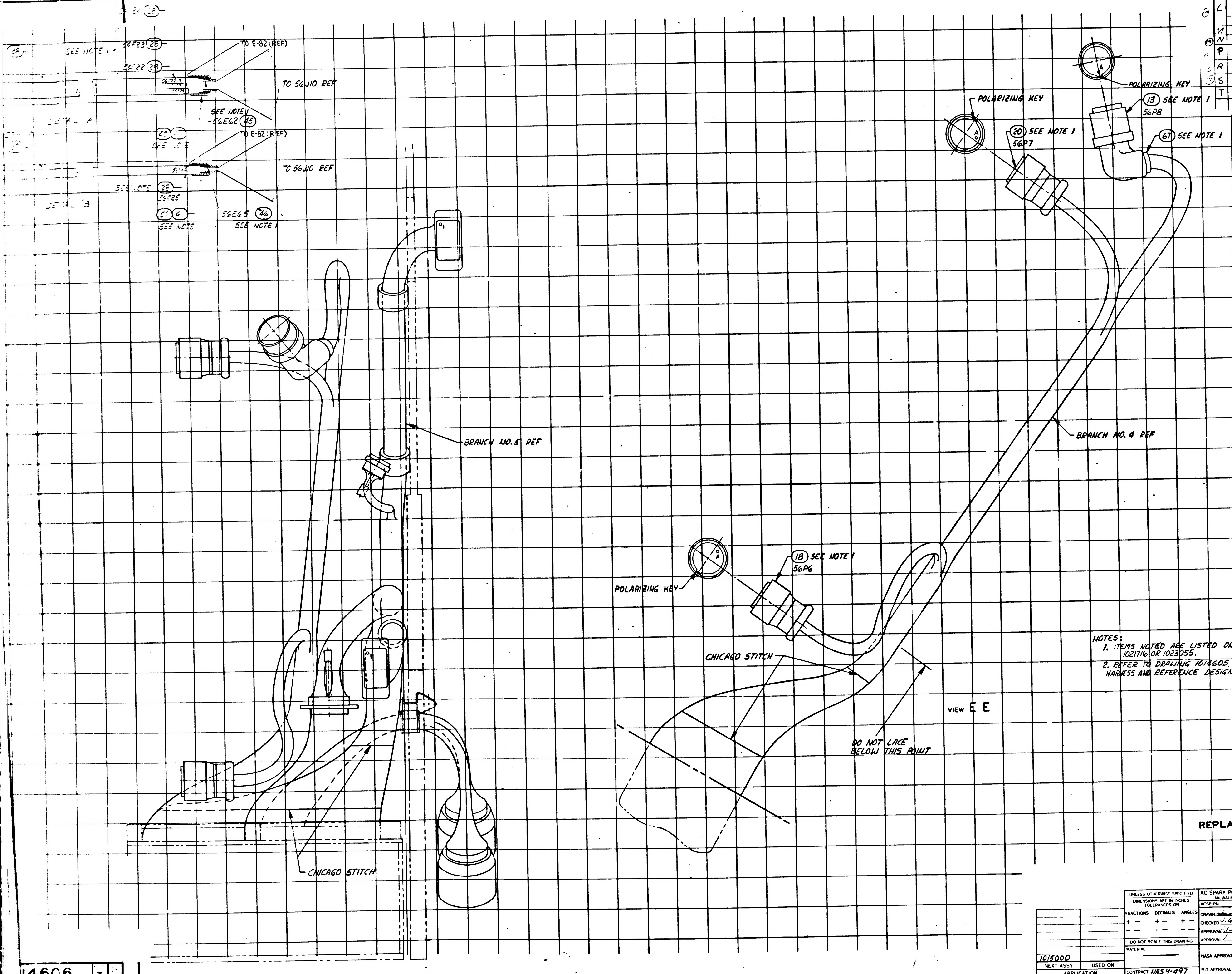
14606 T


16
15
14
13
12
11
10
9
8
H
G
F
E
D
C
B
A
56P2
CHICAGO STITCH
BRANCH NO.3 REF
PARTIAL VIEW K K
56P3
56P5
56J5
PARTIAL VIEW J J
56J8
56J6
27 SEE NOTE 1
56E20
27 SEE NOTE 1
56E19
56E19
56E20
44
76
SEE NOTE 18, SH 1
7 SEE NOTE 1
80 FOR -021
56J8 SEE NOTE 13
27 SEE NOTE 1
56E55
56E55
7 SEE NOTE 1
56J6 SEE NOTE 13
36
IEW

1014606 T SH 3

1/1014606

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV K WITH CHANGE PER TDRR 12749	—	AUG 64	
		REVISED PER TDRR			
M		REVISED PER TDRR 13300			
N		REVISED PER TDRR 13416			
P		REVISED PER TDRR 16984		9 MAR 65	
R		REVISED PER TDRR 19830		JUN 65	
S		REVISION STATUS CHANGED			
T		REVISED PER TDRR 26128		18 FEB 66	


9
8
7
6
5
4
3
2
1
56E24 (28)
56E23 (28)
SEE NOTE 1
56E22 (28)
TO E-82 (REF)
TO 56J10 REF
SEE NOTE 1
-56E62 (45)
DETAIL A
SEE NOTE
TO E-82 (REF)
TO 56J10 REF
SEE NOTE (28)
56E25
DETAIL B
SEE NOTE
56E65 (46)
SEE NOTE 1
POLARIZING KEY
(20) SEE NOTE 1
56P7
POLARIZING KEY
(13) SEE NOTE 1
56P8
(67) SEE NOTE 1
BRANCH NO. 5 REF
BRANCH NO. 4 REF
POLARIZING KEY
(18) SEE NOTE 1
56P6
CHICAGO STITCH
VIEW E E
DO NOT LACE BELOW THIS POINT
CHICAGO STITCH

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605, 1021709, 1021716 OR 1023055.
2. REFER TO DRAWING 1014605, 1021709, 1021716 OR 1023055 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.

REPLACES REV K WITH CHANGE

1015000	
NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS ± ANGLES ±
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

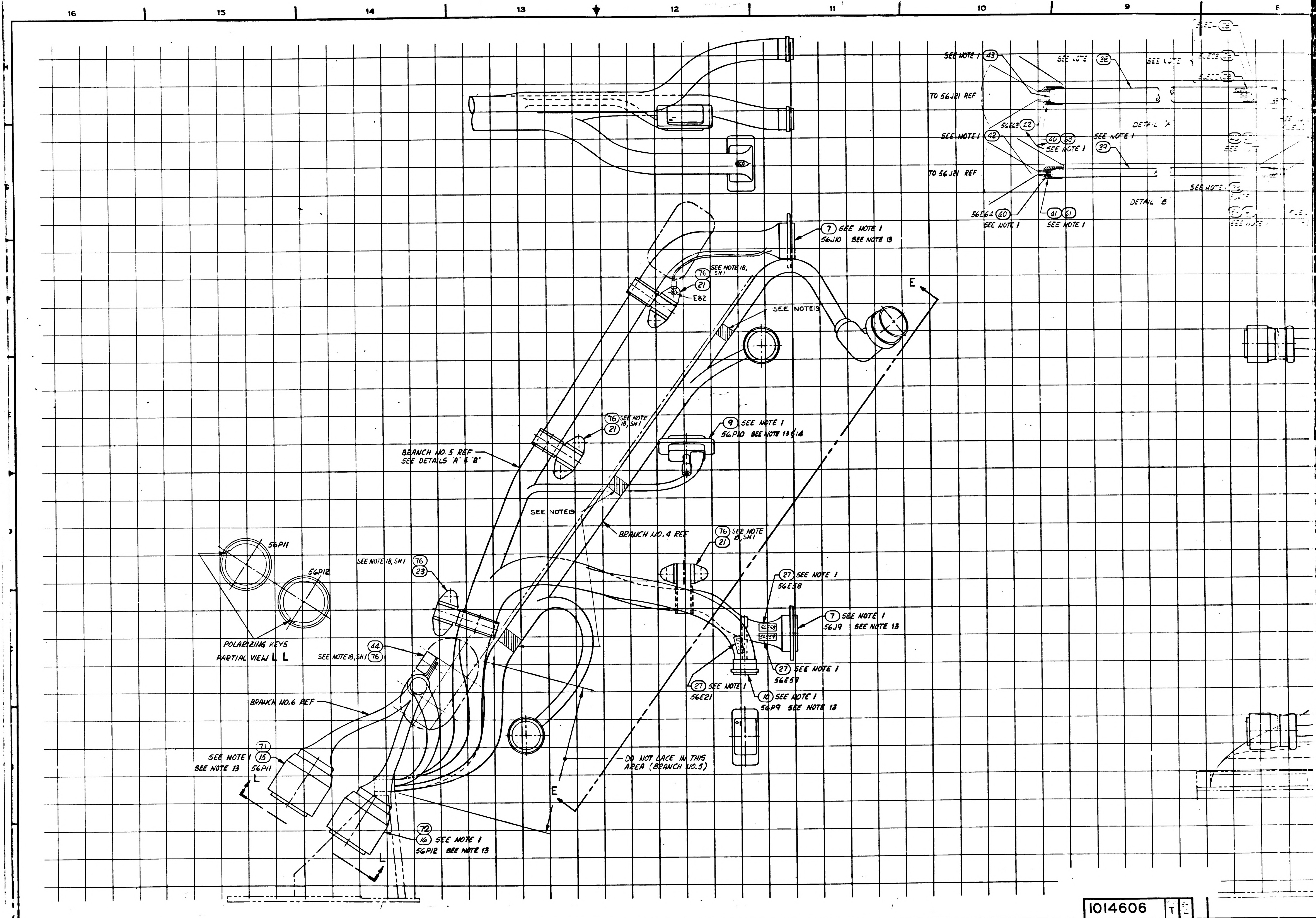
AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN DATE 22 JUN 64
CHECKED J. GRIEB 23 JUN 64
APPROVAL 23 JUN 64
APPROVAL
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

AGE HARNESS AND PSA EVI
CONNECTOR ASSEMBLY

CODE IDENT NO 80230
SIZE
1014606
SCALE 1:1
SHEET 4 OF 6

14606 T

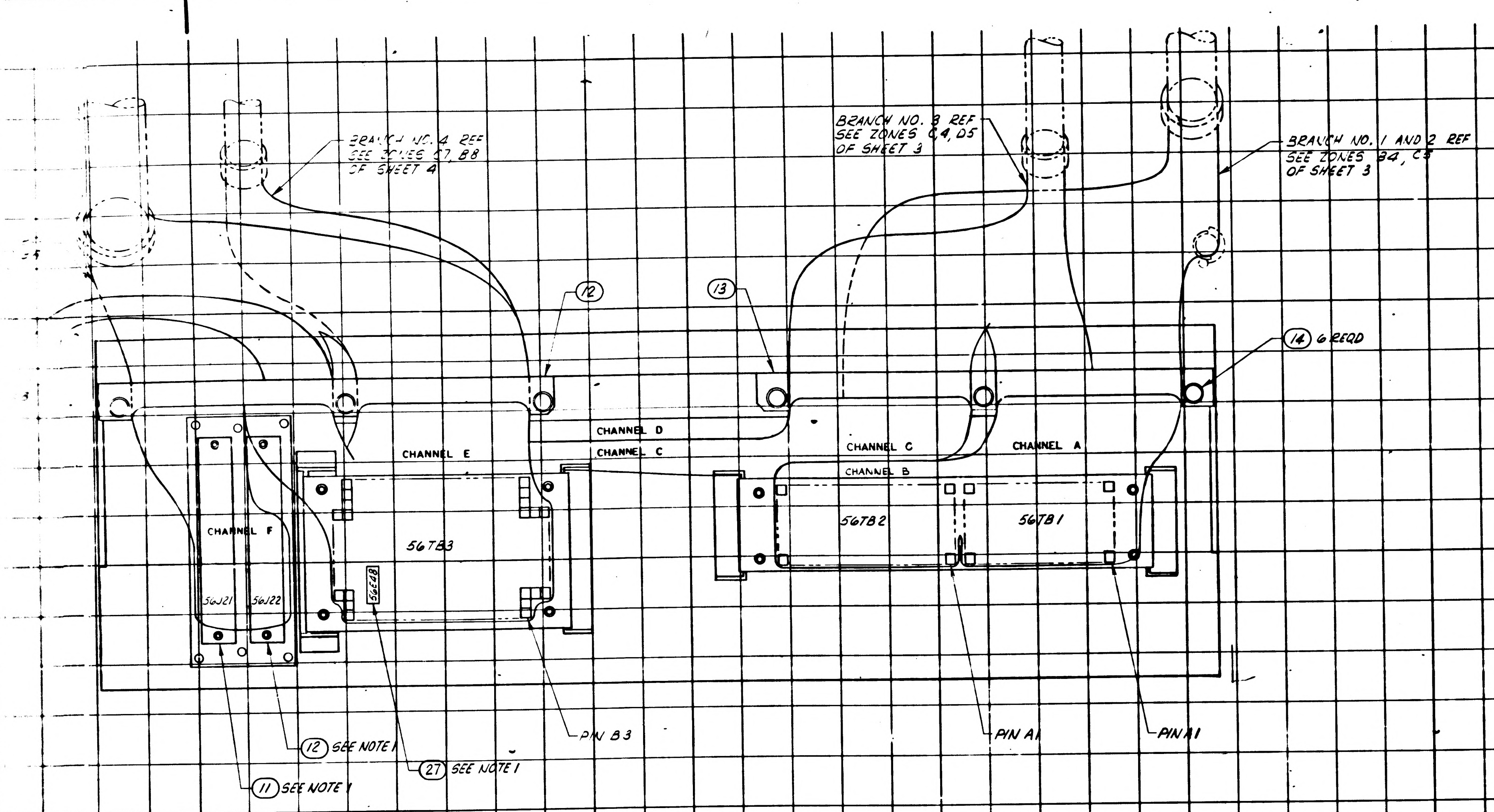

16
15
14
13
12
11
10
9
8
SEE NOTE 1 (43)
SEE NOTE (38)
SEE NOTE
TO 56J21 REF
56E63 (62)
DETAIL 'A'
SEE NOTE 1 (42)
(40) (53)
SEE NOTE 1
SEE NOTE 1 (39)
TO 56J21 REF
DETAIL 'B'
56E64 (60)
SEE NOTE 1
(41) (61)
SEE NOTE 1
(7) SEE NOTE 1
56J10 SEE NOTE 13
SEE NOTE 18, SH 1 (76)
(21)
E82
E
SEE NOTE 19
(76) SEE NOTE 18, SH 1
(21)
(9) SEE NOTE 1
56P10 SEE NOTE 13 & 14
BRANCH NO. 5 REF
SEE DETAILS 'A' & 'B'
SEE NOTE 19
BRANCH NO. 4 REF
(76) SEE NOTE 18, SH 1
(21)
56P11
56P12
SEE NOTE 18, SH 1 (76)
(23)
(27) SEE NOTE 1
56E58
(7) SEE NOTE 1
56J9 SEE NOTE 13
56E58
56E59
POLARIZING KEYS
PARTIAL VIEW L L
(44)
SEE NOTE 18, SH 1 (76)
(27) SEE NOTE 1
56E59
(27) SEE NOTE 1
56E21
(10) SEE NOTE 1
56P9 SEE NOTE 13
BRANCH NO. 6 REF
(71)
SEE NOTE 1 (15)
SEE NOTE 13 56P11
L
DO NOT LACE IN THIS
AREA (BRANCH NO. 5)
E
(72)
(16) SEE NOTE 1
56P12 SEE NOTE 13
L

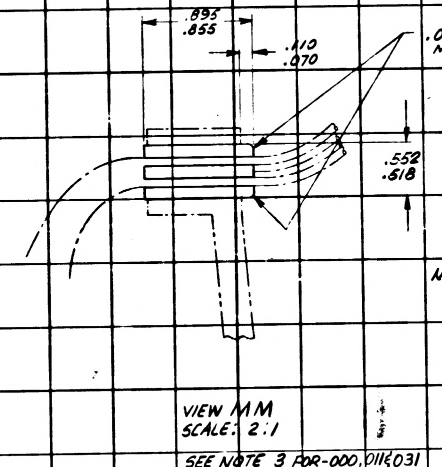
1014606 T

16 15 14 13 12 11 10 9 8

171014606

REVISIONS					
SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
L		REPLACES REV K WITH CHANGE PER TDRR 12749	—		
M		REVISED PER TDRR 13300			
N		REVISED PER TDRR 13416			
P		REVISED PER TDRR 16984		9 MAR 65	RW
R		REVISED PER TDRR 19850			
S		REVISED PER TDRR 24459			
T		REVISED PER TDRR 26128		18 FEB 66	

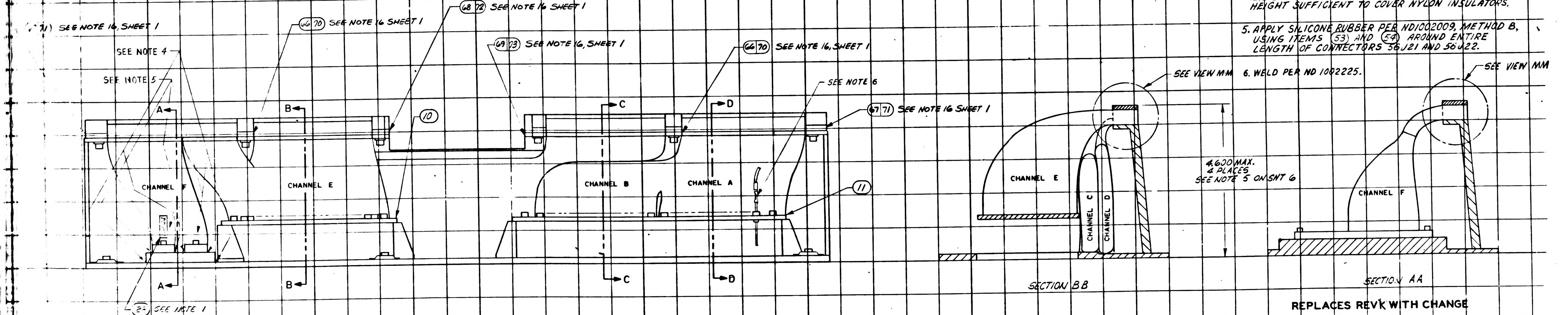

BRANCH NO. 4 REF SEE ZONES C7, B8 OF SHEET 4
BRANCH NO. 3 REF SEE ZONES C4, D5 OF SHEET 3
BRANCH NO. 1 AND 2 REF SEE ZONES B4, C5 OF SHEET 3
12
13
14 6 REQD
CHANNEL D
CHANNEL C
CHANNEL E
CHANNEL C
CHANNEL A
CHANNEL B
CHANNEL F
56TB3
56TB2
56TB1
56J21
56J22
56E48
PIN B3
PIN A1
PIN A1
12 SEE NOTE 1
27 SEE NOTE 1
11 SEE NOTE 1


.895
.855
.110
.070
.047 R MAX. OR CHAMFER
.552
.518

VIEW MM
SCALE: 2:1

SEE NOTE 3 FOR-000, 011 & 031
SEE NOTE 17, SHEET 1, FOR-021

NOTES:
1. ITEMS NOTED ARE LISTED ON DRAWING 1014605, 1021709, 1021716 OR 1023055.
2. REFER TO DRAWING 1014605, 1021709, 1021716 OR 1023055 FOR WIRING HARNESS AND REFERENCE DESIGNATIONS.
3. ASSEMBLE AND ENCAPSULATE IN ACCORDANCE WITH ATP 1014606 USING ITEM NO'S (50), (51) AND (52) PER ND1002009, METHOD A.
4. APPLY EPOXY PER ND 1002187 USING ITEMS (55) AND (56) AROUND ENTIRE LENGTH OF NOTED SURFACES, AT THE REAR OF CONNECTORS 56J21 AND 56J22 AND BEHIND CONNECTORS 56J11 THRU 56J20 TO HEIGHT SUFFICIENT TO COVER NYLON INSULATORS.
5. APPLY SILICONE RUBBER PER ND1002009, METHOD B, USING ITEMS (53) AND (54) AROUND ENTIRE LENGTH OF CONNECTORS 56J21 AND 56J22.
6. WELD PER ND 1002225.

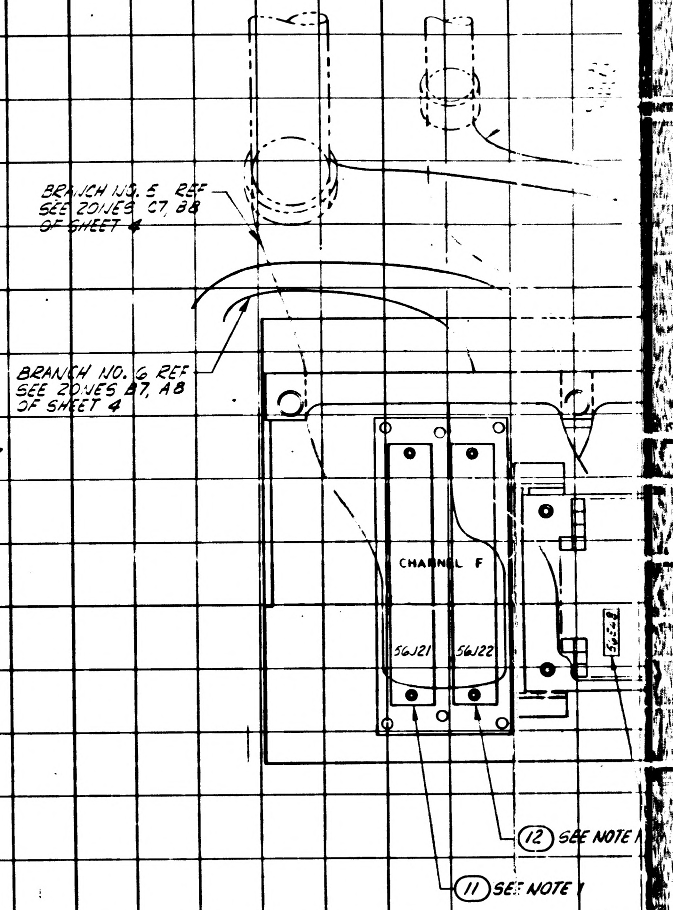

(71) SEE NOTE 16, SHEET 1
SEE NOTE 4
SEE NOTE 5
66 70 SEE NOTE 16 SHEET 1
68 72 SEE NOTE 16 SHEET 1
69 73 SEE NOTE 16, SHEET 1
66 70 SEE NOTE 16, SHEET 1
SEE NOTE 6
67 71 SEE NOTE 16 SHEET 1
10
11
A
B
C
D
CHANNEL F
CHANNEL E
CHANNEL B
CHANNEL A
24 SEE NOTE 1
56E44
SEE VIEW MM
4.600 MAX. 4 PLACES SEE NOTE 5 ON SHT 6
CHANNEL E
CHANNEL C
CHANNEL D
SEE VIEW MM
CHANNEL F

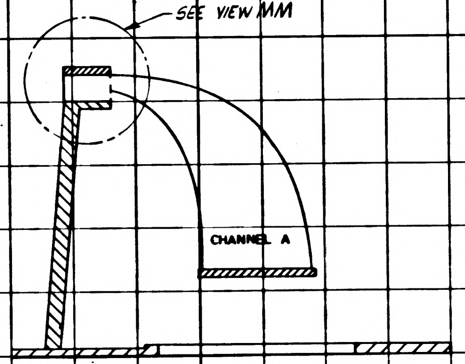
SECTION BB

SECTION AA

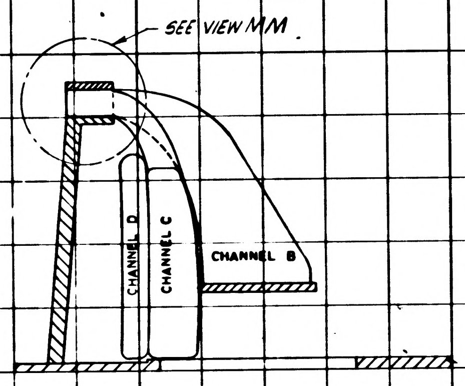
REPLACES REV K WITH CHANGE

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± — ± — ± — DO NOT SCALE THIS DRAWING	M I T INSTRUMENTATION LAB CAMBRIDGE, MASS	MANNED SPACECRAFT CENTER HOUSTON TEXAS	
MATERIAL	DRAWN DATE CHECKED J. GRIEB 23JUN64 APPROVAL APPROVAL 24JUN64	AGE HARNESS AND [illegible] CONNECTOR ASSEMBLY	
CONTRACT	NASA APPROVAL MIT APPROVAL	CODE IDENT NO 80230	SIZE	1014606
NEXT ASSY / USED ON APPLICATION		SCALE	SHEET 2

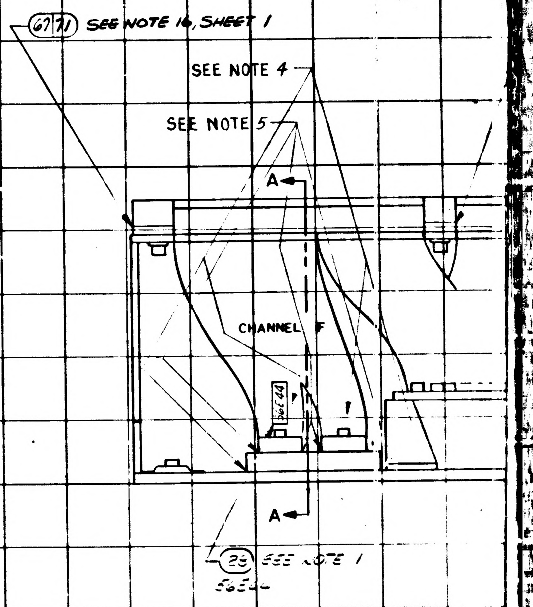

BRANCH NO. 5 REF
SEE ZONES C7, B8
OF SHEET 4
BRANCH NO. 6 REF
SEE ZONES B7, A8
OF SHEET 4
CHANNEL F
56J21
56J22
(12) SEE NOTE
(11) SEE NOTE 1


SEE VIEW MM
CHANNEL A

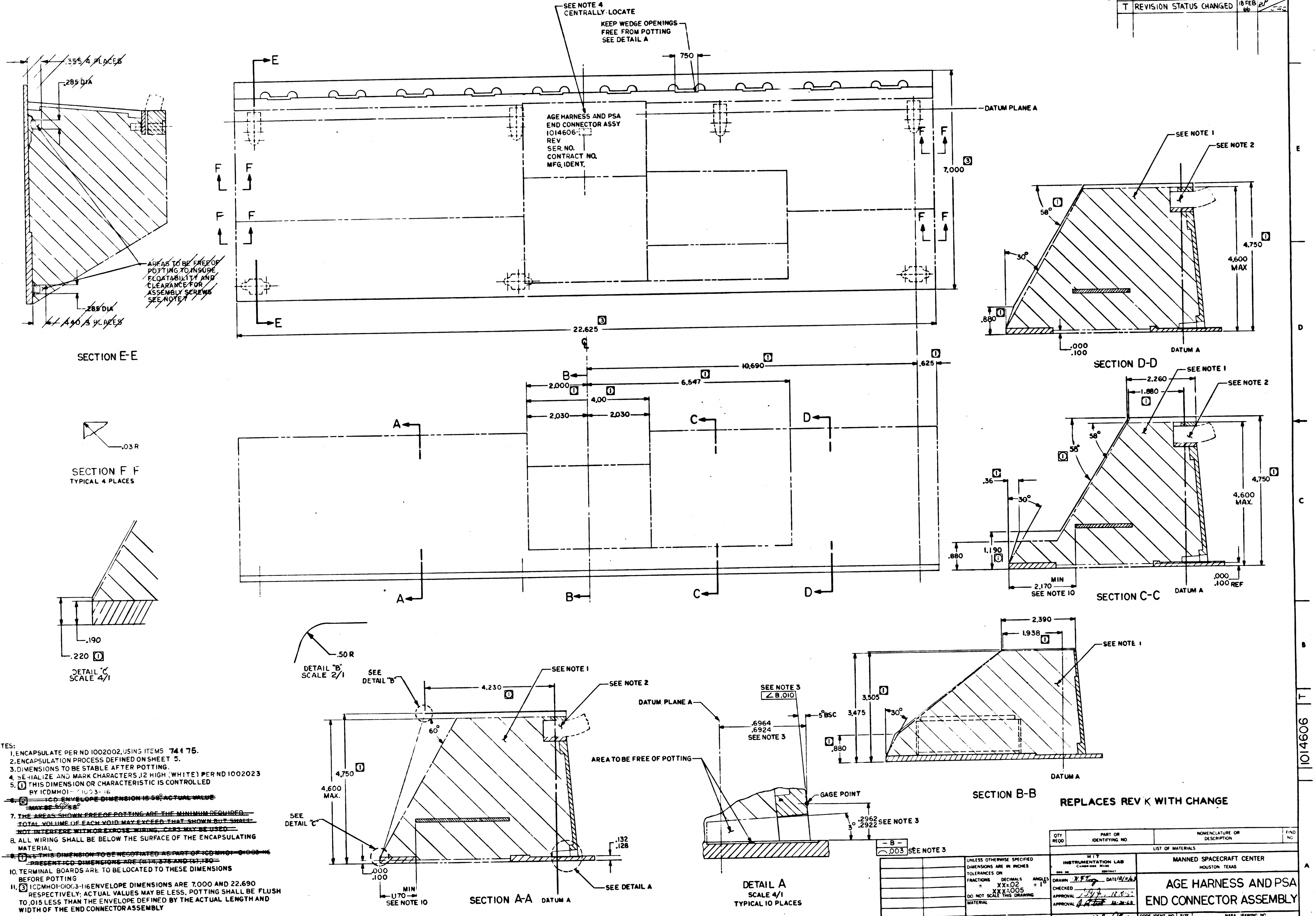
SECTION D D


SEE VIEW MM
CHANNEL D
CHANNEL C
CHANNEL B

SECTION C C


(67)(71) SEE NOTE 16, SHEET 1
SEE NOTE 4
SEE NOTE 5
A
CHANNEL F
56E44
A
(29) SEE NOTE 1
56E44

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
L	REPLACES REV. K WITH CHANGE PER TDRR 12749	3 AUG 64	JWP
		22 Aug 64	wK
M	REVISED PER TDRR 13300	19 OCT 64	JWP
N	REVISED PER TDRR 13416	[illegible]	[illegible]
P	REVISED PER TDRR 16984	9 MAR 65	RW
R	REVISED PER TDRR 19830	9 JUN 65	GM
S	REVISION STATUS CHANGED	3 DEC 65	RP
T	REVISION STATUS CHANGED	18 FEB 66	RP



SEE NOTE 4
CENTRALLY LOCATE
KEEP WEDGE OPENINGS FREE FROM POTTING SEE DETAIL A
.750
DATUM PLANE A
AGE HARNESS AND PSA END CONNECTOR ASSY
1014606-
REV
SER. NO.
CONTRACT NO.
MFG. IDENT.
7.000 ③
22.625 ③
E
F
.355 4 PLACES
.285 DIA
AREAS TO BE FREE OF POTTING TO INSURE FLOATABILITY AND CLEARANCE FOR ASSEMBLY SCREWS SEE NOTE 7
.285 DIA
.440 3 PLACES
SECTION E-E
SECTION F-F
TYPICAL 4 PLACES
.03 R
10.690 ①
.625 ①
2.000 ①
6.547 ①
4.00 ①
2.030
2.030
A
B
C
D
.190
.220 ①
DETAIL "C"
SCALE 4/1
.50 R
DETAIL "B"
SCALE 2/1
SEE NOTE 1
SEE NOTE 2
58° ①
30°
4.750 ①
4.600 MAX
.880 ①
.000
.100
DATUM A
SECTION D-D
2.260
1.880 ①
.36 ①
1.190 ①
.880
MIN
2.170
SEE NOTE 10
.000
.100 REF
SECTION C-C
2.390
1.938 ①
3.505 ①
3.475
.880 ①
SECTION B-B
SEE DETAIL "B"
4.230 ①
60°
SEE DETAIL "C"
.132
.128
.000
.100
1.170
SEE NOTE 10
SEE DETAIL A
SECTION A-A
SEE NOTE 3
∠ B .010
DATUM PLANE A
5° BSC
.6964
.6924
SEE NOTE 3
AREA TO BE FREE OF POTTING
GAGE POINT
3°
.2962
.2922
SEE NOTE 3
-B-
⌒ .003 SEE NOTE 3
DETAIL A
SCALE 4/1
TYPICAL 10 PLACES

NOTES:
1. ENCAPSULATE PER ND 1002002, USING ITEMS 74 & 75.
2. ENCAPSULATION PROCESS DEFINED ON SHEET 5.
3. DIMENSIONS TO BE STABLE AFTER POTTING.
4. SERIALIZE AND MARK CHARACTERS .12 HIGH (WHITE) PER ND 1002023
5. ① THIS DIMENSION OR CHARACTERISTIC IS CONTROLLED BY ICDMH01-01003-16
~~6. ② ICD ENVELOPE DIMENSION IS 58°, ACTUAL VALUE MAY BE 60°/58°~~
~~7. THE AREAS SHOWN FREE OF POTTING ARE THE MINIMUM REQUIRED. TOTAL VOLUME OF EACH VOID MAY EXCEED THAT SHOWN BUT SHALL NOT INTERFERE WITH OR EXPOSE WIRING. CAPS MAY BE USED~~
8. ALL WIRING SHALL BE BELOW THE SURFACE OF THE ENCAPSULATING MATERIAL
~~9. ① a b THIS DIMENSION TO BE NEGOTIATED AS PART OF ICD MH01-01003-116 PRESENT ICD DIMENSIONS ARE (a) 4.375 AND (b) .130~~
10. TERMINAL BOARDS ARE TO BE LOCATED TO THESE DIMENSIONS BEFORE POTTING
11. ③ ICDMH01-01003-116 ENVELOPE DIMENSIONS ARE 7.000 AND 22.690 RESPECTIVELY; ACTUAL VALUES MAY BE LESS. POTTING SHALL BE FLUSH TO .015 LESS THAN THE ENVELOPE DEFINED BY THE ACTUAL LENGTH AND WIDTH OF THE END CONNECTOR ASSEMBLY

REPLACES REV K WITH CHANGE

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO
LIST OF MATERIALS			

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± DECIMALS XX±.02 XXX±.005 ANGLES ±1°
DO NOT SCALE THIS DRAWING
MATERIAL
HEAT TREATMENT
FINAL FINISH

MIT INSTRUMENTATION LAB
Cambridge Mass
DWG NO
CONTRACT
DRAWN W. F. Tong DATE 12/11/63
CHECKED
APPROVAL 12-?-63
APPROVAL 12-20-63
NASA APPROVAL W. J. 12-30-63
MIT APPROVAL W. Coffee 30 Dec 63

MANNED SPACECRAFT CENTER
HOUSTON TEXAS

AGE HARNESS AND PSA
END CONNECTOR ASSEMBLY

CODE IDENT NO 80230
SIZE E
NASA DRAWING NO 1014606
SCALE
WT
SHEET 6 OF 6

1014606 T

1014606

REVISIONS TDRR 01876				
ZONE	SYM	DESCRIPTION	DATE	APPROVAL

PART NO.	DESCRIPTION	REQD.
1014605	AGE Harness Assembly	1
1007161	PSA Junction Box Assembly	1

QTY. REQD.	NOMENCLATURE OR DESCRIPTION	PART OR IDENTIFYING NO.	SPECIFICATION	MATERIAL OR NOTES	FIND NO.

LIST OF PARTS AND MATERIALS

MASTER

NEXT ASSY	USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED

DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES

DO NOT SCALE THIS DRAWING

MATERIAL:

MIT
INSTRUMENTATION LAB
CONTRACT
NAS 9-153

		DATE
APPROVED	D. Bartist	7-2-63
CHECKED		
DRAWN		

APPROVED FOR MSC
W. J. Sm Jr 7/2/63

MIT/IL APPROVAL	DATE
W Kupfer	2 July 63

AGE HARNESS &
PSA JUNCTION BOX
ASSEMBLY

SCALE	UNIT WT.	CODE IDENT.

MIT
INSTRUMENTATION
LABORATORY
CAMBRIDGE, MASS.

DWG. NO.

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

NASA DRAWING NO.
1014606

SHEET 1 OF 1

INCHES
0 1 2
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APOLLO G&N Specification
PS 1014606
Original Issue Date: 14 July 1964
Release Authority: TDRR 10951
Class A Release

PROCUREMENT SPECIFICATION

FOR

AGE HARNESS & PSA END CONNECTOR ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page i and 1 to 3 inclusive.

APPROVALS 7/1/64 NASA/MSC | W Kapfer 14 July 64 6/15/64 MIT/IL | D D Baxter E.P. Armstrong ACSP

PROCUREMENT SPECIFICATION

FOR

AGE HARNESS & PSA END CONNECTOR ASSEMBLY

1. SCOPE.

1.1 PURPOSE. This specification establishes the requirements for the procurement of the Age Harness & PSA End Connector Assembly, Drawing 1014606, hereafter called the assembly.

2. APPLICABLE DOCUMENTS

2.1 EFFECTIVE ISSUES. The following documents of the issue in effect on the date of this specification form a part of this specification to the extent specified herein.

SPECIFICATIONS

APOLLO G&N

ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies.
ND-1002214	General Specification for Preservation, Packaging, Packing and Container Marking of APOLLO Guidance and Navigation Major Assemblies, Assemblies, Subassemblies, Parts and Associated Ground Support Equipment.
FTM-1014606	Final Test Method for Age Harness & PSA End Connector Assembly.

DRAWINGS

APOLLO G&N

1014606	Age Harness & PSA End Connector Assembly.
1014607	Interconnection List of Age Interconnect Harness & PSA End Connector Assembly (For Reference Only)

APOLLO G&N Specification
PS 1014606
Original Issue Date: 14 July 1964
Release Authority: TDRR 10951
Class A Release

PROCUREMENT SPECIFICATION

FOR

AGE HARNESS & PSA END CONNECTOR ASSEMBLY

Record of Revisions

Date	Revision Letter	TDRR No.	Pages Revised	Approvals	
				MIT	NASA

This specification consists of page i and 1 to 3 inclusive.

APPROVALS 7/14/64 NASA/MSC | 14 July 64 6/15/64 MIT/IL | ACSP

APOLLO G&N Specification
PS-1014606
14 July 1964

PROCUREMENT SPECIFICATION

FOR

AGE HARNESS & PSA END CONNECTOR ASSEMBLY

1. SCOPE.

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SPECIFICATIONS

APOLLO G&N	
ND-1002210	General Specification for Procurement of APOLLO Guidance and Navigation Assemblies and Subassemblies.
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FTM-1014606	Final Test Method for Age Harness & PSA End Connector Assembly.

DRAWINGS

APOLLO G&N	
1014606	Age Harness & PSA End Connector Assembly.
1014607	Interconnection List of Age Interconnect Harness & PSA End Connector Assembly (For Reference Only)

3. REQUIREMENTS

3.1 GENERAL SPECIFICATION. All of the requirements of Specification ND-1002210 shall apply as requirements of this specification.

3.2 DESCRIPTION. The assembly shall be used to interconnect APOLLO Guidance and Navigation Equipment.

3.3 FUNCTIONAL REQUIREMENTS.

3.3.1 Insulation Resistance. With 500±50 vdc applied, the insulation resistance between pin J11-L4 (structure ground) and all other pins of the assembly with the exception of those specified in Table I, and between each pin and all other pins not electrically connected including all spare pins shall be greater than or equal to 100 megohms.

TABLE I

PINS NOT TO BE MEASURED

PIN NUMBER	PIN NUMBER
J1-41	J16-N4
J2-41	J17-L6
J3-41	J18-R5
J4-41	J19-P3
J5-41	J20-G4
J6-91	P1-84
J8-29	P5-R
J9-91	P6-G
J12-K3	P8-t
J13-C6	P11-L
J14-H5	P12-L
J15-K3	P10-1

3.3.2 Continuity and DC Resistance. Continuity and dc resistance shall be in accordance with FTM-1014606. (Reference Drawing 1014607).

3.4 PERFORMANCE AND PRODUCT CHARACTERISTICS.

3.4.1 Service Life.

3.4.1.1 Operating Life. The assembly shall meet performance specifications for at least 2000 hours of operation, excluding the supplier's test time of the completed unit.

3.4.1.2 Shelf Life. The assembly shall have a life of at least 3 years, without operation when packaged in accordance with Specification ND-1002214 at ambient room temperature after final acceptance at the supplier's facility.

3.4.2 Reliability. Design objectives require maximum reliability of the assembly during its period of useful life. Every effort shall be made to design and produce units capable of meeting a maximum failure rate of 0.38 failures per million hours.

4. QUALITY ASSURANCE PROVISIONS

4.1 GENERAL SPECIFICATION. Unless otherwise specified herein, all the quality assurance provisions of Specification ND-1002210 shall form a part of this specification.

4.2 NASA ACCEPTANCE INSPECTION. The NASA acceptance inspection shall be in accordance with Specification FTM-1014606.

5. PREPARATION FOR DELIVERY

5.1 GENERAL. Preparation for delivery shall be in accordance with Specification ND-1002210.

6. NOTES. None.

Notice: When APOLLO G&N drawings, specifications, or other data are used for any purpose other than in connection with a definitely related NASA procurement operation, NASA thereby incurs no responsibility nor any obligation whatsoever, and the fact that NASA may have formulated, furnished, or in any way supplied the said drawings, specifications, or other data is not to be regarded by implication or otherwise as in any manner licensing the holder or any other person or corporation or conveying any rights or permission to manufacture, use, or sell any patented invention that may in any way be related thereto.

EA:lv

TDRR 03796

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
		A	REVISED & REPLACED BY REVISION B PER TDRR # 04079	OCT. 25, 1963	W.R. 25 Oct 63

Ⓐ REPLACED BY REVISION B

REV		A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET		24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
REV STATUS	REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

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HOUSTON, TEXAS

ACSP PN

DRAWN J A LIMA DATE 8 OCT 63

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APPROVAL E A Woodin 10-9-63

APPROVAL

NASA APPROVAL W J [illegible] 10-9-63

MIT APPROVAL W [illegible] 9 Oct 63

CONTRACT

INTERCONNECTION LIST OF AGE INTERCONNECT HARNESS & PSA END CONNECTOR ASSY

CODE IDENT NO.	SIZE		REV
	A	1014607	A
SCALE —		SHEET 1 OF 116	

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
50	A	86	A												
51	A	87	A												
52	A	88	A												
53	A	89	A												
54	A	90	A												
55	A	91	A												
56	A	92	A												
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76	A	112	A												
77	A	113	A												
78	A	114	A												
79	A	115	A												
80	A	116	A												
81	A														
82	A														
83	A														
84	A														
85	A														

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 570	56J10- 1	56E 62	GROUP 2 SHIELD	245
A 464	56J10- 2	56TB3-F 3	CONDITION LAMP TEST	328
A 474W	56J10- 3	56TB3-B 4	ZERO ENCODER LIGHT HI	301
A 474R	56J10- 4	56TB3-B 3	CDU FAIL LIGHT HI	302
A 474L	56J10- 5	56TB3-B 2	ACCEL FAIL LIGHT HI	303
A 465	56J10- 6	56TB3-S 6	IMU FAIL LIGHT HI	304
A 466	56J10- 7	56TB2-T 3	SPARE FAIL LIGHT HI	305
A 507	56J10- 8	56TB3-M22	+28 VDC MDV	306
A 478	56J10- 9	56TB1-H 5	AGC FAIL SIG	326
A 508	56J10- 10	56TB1-G 5	+28 VDC TO COMPUTER RELAY	327
A 475	56J10- 12	56TB1-F 8	ATTIT CONT MODE COMMAND FROM AGC	314
A 521	56J10- 13	56TB1-K 7	MODE RELAY COMMON TO AGC	315
A 503R	56J10- 14	56J21-111	OUT 0 11	224A
A 506R	56J10- 15	56J21- 78	OUT 0 12	225A
A 504R	56J10- 16	56J21- 43	OUT 0 13	226A
A 483R	56J10- 17	56J21- 6	OUT 0 14	227A
A 484R	56J10- 18	56J21-214	OUT 0 15	228A
A 487R	56J10- 19	56J21-113	ALARM 3	231A
A 471R	56J10- 20	56J21- 82	POWER SYNC	242A
A 479W	56J10- 21	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC	307
A 479L	56J10- 22	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC	308
A 480L	56J10- 23	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC	309
A 479R	56J10- 24	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC	310
A 480R	56J10- 25	56TB1-K 6	ENTRY MODE COMMAND FROM AGC	311
A 480W	56J10- 26	56TB1-K 7	MODE RELAY COMMON TO AGC	312
A 569	56J10- 27	56E 65	GROUP 3 SHIELD	250
A 497R	56J10- 28	56J21-109	OUT 0 4	217A
A 498R	56J10- 29	56J21- 76	OUT 0 5	218A
A 499R	56J10- 30	56J21- 41	OUT 0 6	219A
A 505R	56J10- 31	56J21- 4	OUT 0 7	220A
A 482R	56J10- 32	56J21- 80	ALARM 4	232A
A 488R	56J10- 33	56J21- 45	ALARM 5	233A
A 516R	56J10- 34	56J21-218	KEY CODE 1	201A
A 514R	56J10- 35	56J21-183	KEY CODE 2	202A
A 472R	56J10- 36	56J21-150	KEY CODE 3	203A
A 511R	56J10- 37	56J21-117	KEY CODE 4	204A
A 467R	56J10- 38	56J21- 84	KEY CODE 5	205A

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 034

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 510R	56J10- 39	56J21- 14	TEST ALARM	207A
A 485R	56J10- 40	56J21-179	ALARM 1	229A
A 486R	56J10- 41	56J21-146	ALARM 2	230A
A 470R	56J10- 42	56J21- 47	TIMING (1.5 CPS)	244A
A 490R	56J10- 43	56J21-216	ALARM 7	235A
A 489R	56J10- 44	56J21- 8	ALARM 6	234A
A 522	56J10- 45	56J21- 10	SPARE	248
A 523	56J10- 46	56J21- 11	SPARE	249
A 515R	56J10- 47	56J21-185	OR OF C1 THRU C33	210A
A 517R	56J10- 48	56J21-220	ERROR RESET	208A
A 468W	56J10- 49	56J21- 12	KEY RESET NAV	209A
A 492R	56J10- 51	56J21-148	ALARM 9	237A
A 491R	56J10- 53	56J21-181	ALARM 8	236A
A 513	56J10- 55	56J21-174	+3 V B	240
A 512	56J10- 56	56J21-173	GND	239
A 477	56J10- 57	56J21-108	+13 V B	241
A 509	56J10- 58	56J21- 39	GND	239
A 481	56J10- 59	56J21- 40	+28 VDC AGC	243
A 496R	56J10- 60	56J21-142	OUT 0 3	216A
A 500R	56J10- 61	56J21-212	OUT 0 8	221A
A 501R	56J10- 62	56J21-177	OUT 0 9	222A
A 502R	56J10- 63	56J21-144	OUT 0 10	223A
A 493R	56J10- 64	56J21-115	ALARM 10	238A
A 476	56J10- 70	56J21- 3	SPARE	211
A 473	56J10- 71	56J21- 75	SPARE	212
A 469	56J10- 72	56J21-141	SPARE	213
A 494R	56J10- 73	56J21-210	OUT 0 1	214A
A 495R	56J10- 74	56J21-175	OUT 0 2	215A
A 520	56J10- 75	56J21-209	SPARE	247
A 519	56J10- 82	56E 26	COMMONED RETURNS GROUND	330

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 035

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 401K	56J09- 88	56TB3-G 2	IMU TEMP CONT K2 PIN 5
A 443	56J09- 89	56TB3-G 3	IRIG ZERO DEVIATION CHECK
A 402	56J09- 90	56TB3-N 6	EMERG HTR CONT MODULE LO
A 451	56J09- 91	56TB3-F22	STRUCTURE GND
A 438	56J09- 92	56TB3-K 1	IMU TEMP ALARM AMP PIN 5
A 411	56J09- 93	56TB2-S 4	STEP-DOWN-R
A 439	56J09- 94	56TB3-D 1	0 VDC IMU
A 447	56J09- 95	56P10- 48	400 CPS 26 V HI
A 418W	56J09- 96	56TB2-N 4	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 395	56J09- 97	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 396	56J09- 98	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
A 428	56J09- 99	56TB3-L18	COSECANT RELAY CONTROL
A 401R	56J09-100	56TB3-G 1	IMU HTR CURRENT AMP PIN 5
A 401W	56J09-101	56TB3-H 2	IMU TEMP CONT K1 PIN 3
A 399	56J09-102	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
A 441	56J09-103	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
A 397	56J09-104	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
A 446	56J09-105	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
A 413	56J09-106	56TB2-S 6	STEP-UP-R

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 033

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
AA 15W	56J11-A1	56TB2-H 2	IG CDU 1X ERROR SIG
AA 19W	56J11-A2	56TB2-H 7	MG CDU 1X ERROR SIG
AA 21W	56J11-A3	56TB2-N 2	OG CDU 1X ERROR SIG
AA 10R	56J11-A5	56J12-A2	IMU MG ERROR SIG
AA 29R	56J11-A5	56TB1-A 7	IMU MG ERROR SIG
AA 10L	56J11-A6	56J12-B1	IMU OG ERROR SIG
AA 29L	56J11-A6	56TB1-A 8	IMU OG ERROR SIG
AA 15R	56J11-B1	56TB2-G 2	IG CDU ERROR SIG RET
AA 16W	56J11-B1	56TB1-B 5	IG CDU ERROR SIG RET
AA 19R	56J11-B2	56TB2-G 7	MG CDU ERROR SIG RET
AA 20W	56J11-B2	56TB1-A 6	MG CDU ERROR SIG RET
AA 11R	56J11-B3	56J17-B1	OG CDU ERROR SIG RET
AA 21R	56J11-B3	56TB2-R 2	OG CDU ERROR SIG RET
AA 10K	56J11-B5	56J12-B2	IMU GIMBAL AND GYRO ERROR SIG LO
AA 29K	56J11-B5	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
AA 10W	56J11-B6	56J12-A1	IMU IG AND Y GYRO ERROR SIG
AA 29W	56J11-B6	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
AA 16R	56J11-C1	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR
AA 20R	56J11-C2	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR
AA 11W	56J11-C3	56J17-A1	OG CDU ATTITUDE STEERING ERROR
AA 30W	56J11-D5	56TB1-D 4	IG TORQUE MOTOR RET
AA 30R	56J11-D6	56TB1-D 3	IG TORQUE MOTOR HI
AA 23R	56J11-F1	56TB1-C 4	IG ADA
AA 42W	56J11-F3	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
AA 32R	56J11-F6	56TB1-A 4	MG TORQUE MOTOR HI
AA 23K	56J11-G1	56TB1-C 3	OG ADA
AA 23W	56J11-G2	56TB1-B 3	0 VDC IMU
AA 24	56J11-G2	56J11-P6	0 VDC IMU
AA 42R	56J11-G3	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
AA 32W	56J11-G6	56TB1-A 3	MG TORQUE MOTOR RET
AA 23L	56J11-H1	56TB1-B 4	MG ADA
AA 34W	56J11-H5	56TB1-B 2	OG TORQUE MOTOR RET
AA 34R	56J11-H6	56TB1-A 2	OG TORQUE MOTOR HI
AA 9W	56J11-L1	56J12-H2	3200 CPS 2 V HI
AA 28W	56J11-L1	56TB1-D 2	3200 CPS 2 V HI
AA 9R	56J11-L2	56J12-K2	3200 CPS 2 V LO
AA 28K	56J11-L2	56TB1-C 2	3200 CPS 2 V LO

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 036

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APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
		B2	B1 REPLACES REV A WITH CHANGE B2 REVISED PER TDRR 04079	24 OCT. 1963	WK

Ⓑ1 REPLACES REV A WITH CHANGE

REV	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
SHEET	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49

REV STATUS	REV	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
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MATERIAL: —

		DATE
APPROVED		10-24-63
CHECKED		23 Oct 63
DRAWN		Oct 63
APPROVED FOR MSC	Barrand	
DIRECTION	M1	
	W. Kupfer	24 Oct 63

INTERCONNECTION LIST
OF AGE INTERCONNECT
HARNESS & PSA END
CONNECTOR ASSY

DWG NO.

MANNED
SPACECRAFT CENTER
HOUSTON TEXAS

NASA DRAWING NO.
1014607

SCALE —
REVISION B
SHEET OF 128

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
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51	B	87	B	123	B										
52	B	88	B	124	B										
53	B	89	B	125	B										
54	B	90	B	126	B										
55	B	91	B	127	B										
56	B	92	B	128	B										
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83	B	119	B												
84	B	120	B												
85	B	121	B												

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REVISION B

NASA DRAWING NO.
1014607
SHEET 2

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 13B	SHLD A 13	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 14B	SHLD A 14	56E 44	AGC SIG 178 SHLD RET
*	A 15B	SHLD A 15	56E 44	AGC SIG 178 SHLD RET
*	A 16B	SHLD A 16	56E 44	AGC SIG 178 SHLD RET
*	A 23B	SHLD A 23	56TB2-S 2	OG CDU ERROR SIG RET
*	A 24B	SHLD A 24	56TB2-F 2	IG CDU ERROR SIG RET
*	A 25B	SHLD A 25	56TB2-F 7	MG CDU ERROR SIG RET
*	A 27B	SHLD A 27	56E 44	AGC SIG 178 SHLD RET
*	A 39B	SHLD A 39	56TB2-F 2	IG CDU ERROR SIG RET
*	A 40B	SHLD A 40	56TB3-H14	0 VDC IMU
*	A 41B	SHLD A 41	56TB3-H13	0 VDC IMU
*	A 42B	SHLD A 42	56TB2-G 1	IG CDU ERROR SIG RET
*	A 43B	SHLD A 43	56TB2-V 6	0 VDC IMU
*	A 44B	SHLD A 44	56TB2-D 8	0 VDC IMU
*	A 45B	SHLD A 45	56TB2-A 5	IG CDU ENCODER COM
*	A 51B	SHLD A 51	56TB2-T 7	IG CDU MDA INPUT RET
*	A 63B	SHLD A 63	56TB2-F 7	MG CDU ERROR SIG RET
*	A 64B	SHLD A 64	56E 48	0 VDC IMU
*	A 65B	SHLD A 65	56TB3-H12	0 VDC IMU
*	A 66B	SHLD A 66	56TB2-G 8	MG CDU ERROR SIG RET
*	A 67B	SHLD A 67	56TB2-V 5	0 VDC IMU
*	A 68B	SHLD A 68	56TB2-D 7	0 VDC IMU
*	A 69B	SHLD A 69	56TB2-C 6	MG CDU ENCODER COM
*	A 75B	SHLD A 75	56TB2-X 6	MG CDU MDA INPUT RET
*	A 86B	SHLD A 86	56TB2-S 2	OG CDU ERROR SIG RET
*	A 87B	SHLD A 87	56TB2-M 8	0 VDC IMU
*	A 88B	SHLD A 88	56TB2-V 8	0 VDC IMU
*	A 89B	SHLD A 89	56TB2-R 3	OG CDU ERROR SIG RET
*	A 90B	SHLD A 90	56TB2-V 4	0 VDC IMU
*	A 91B	SHLD A 91	56TB2-V 2	0 VDC IMU
*	A 92B	SHLD A 92	56TB2-A 4	OG CDU ENCODER COM
*	A 96B	SHLD A 96	56TB2-R 7	OG CDU MDA INPUT RET
*	A 107B	SHLD A107	56TB3-K 9	0 VDC OPTICS
*	A 108B	SHLD A108	56TB3-R15	0 VDC OPTICS
*	A 110B	SHLD A110	56TB3-K 9	0 VDC OPTICS
*	A 111B	SHLD A111	56TB3-G15	0 VDC OPTICS
*	A 112B	SHLD A112	56TB3-H 9	0 VDC OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 003

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 114B	SHLD A114	56TB3-N 9	0 VDC OPTICS
*	A 115B	SHLD A115	56TB3-N 9	0 VDC OPTICS
*	A 116B	SHLD A116	56TB3-S 5	SHAFT CDU ENCODER COM
*	A 121B	SHLD A121	56TB3-L 9	0 VDC OPTICS
*	A 130B	SHLD A130	56TB3-G 9	0 VDC OPTICS
*	A 131B	SHLD A131	56TB3-H15	0 VDC OPTICS
*	A 132B	SHLD A132	56TB3-L 9	0 VDC OPTICS
*	A 134B	SHLD A134	56TB3-R15	0 VDC OPTICS
*	A 135B	SHLD A135	56TB3-H 9	0 VDC OPTICS
*	A 137B	SHLD A137	56TB3-T 9	0 VDC OPTICS
*	A 138B	SHLD A138	56TB3-S 9	0 VDC OPTICS
*	A 139B	SHLD A139	56TB3-T 3	TRUNNION CDU ENCODER COM
*	A 144B	SHLD A144	56TB3-M 9	0 VDC OPTICS
*	A 155B	SHLD A155	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 156B	SHLD A156	56E 44	AGC SIG 178 SHLD RET
*	A 217B	SHLD A217	56TB2-V 3	0 VDC IMU
*	A 218B	SHLD A218	56TB2-V 2	0 VDC IMU
*	A 219B	SHLD A219	56TB2-V 5	0 VDC IMU
*	A 220B	SHLD A220	56TB2-D 7	0 VDC IMU
*	A 221B	SHLD A221	56E 48	0 VDC IMU
*	A 222B	SHLD A222	56TB3-H12	0 VDC IMU
*	A 224B	SHLD A224	56TB1-D 7	0 VDC IMU
*	A 225B	SHLD A225	56TB2-V 6	0 VDC IMU
*	A 226B	SHLD A226	56TB2-D 8	0 VDC IMU
*	A 227B	SHLD A227	56TB3-H14	0 VDC IMU
*	A 228B	SHLD A228	56TB3-H13	0 VDC IMU
*	A 229B	SHLD A229	56TB1-D 7	0 VDC IMU
*	A 230B	SHLD A230	56TB1-D 8	0 VDC IMU
*	A 232B	SHLD A232	56TB2-M 8	0 VDC IMU
*	A 233B	SHLD A233	56TB2-V 8	0 VDC IMU
*	A 234B	SHLD A234	56TB1-B 5	IG CDU ERROR SIG RET
*	A 235B	SHLD A235	56TB1-A 6	MG CDU ERROR SIG RET
*	A 236B	SHLD A236	56TB3-R 3	0 VDC IMU
*	A 237B	SHLD A237	56TB3-R 3	0 VDC IMU
*	A 245B	SHLD A245	56TB2-M 4	0 VDC IMU
*	A 248B	SHLD A248	56TB3-R 9	0 VDC OPTICS
*	A 252B	SHLD A252	56TB3-T 9	0 VDC OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 004

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 26	56J11-R6	56J11-P6	0 VDC IMU
*	AA 31	56J11-R6	56J11-R5	0 VDC IMU
	AA 2	56J11-S1	56J20-L1	+28 VDC IMU
	AA 40	56J11-S1	56J11-S2	+28 VDC IMU
	AA 3	56J11-S2	56J20-L2	+28 VDC IMU
*	AA 40	56J11-S2	56J11-S1	+28 VDC IMU
	AA 13	56J11-S3	56J17-R1	+28 VDC STBY
	AA 1	56J11-S4	56J15-S6	+28 VDC IMU
	AA 6	56J11-S4	56J12-S5	+28 VDC IMU
	AA 25	56J11-S4	56J11-S5	+28 VDC IMU
	AA 4	56J11-S5	56J20-K2	+28 VDC IMU
*	AA 25	56J11-S5	56J11-S4	+28 VDC IMU
*	AA 33	56J11-S6	56J11-R6	0 VDC IMU

CODE IDENT NO. 99974	SIZE A	1014607
SCALE-NONE	REV LTR B	SHEET 038

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA 10W	56J12-A1	56J11-B6	IMU IG AND Y GYRO ERROR SIG	
*	AA 10R	56J12-A2	56J11-A5	IMU MG ERROR SIG	
	AA 75	56J12-A5	56J13-D2	X PIP ERROR MONITOR	
	AA 76	56J12-A6	56J13-F2	Y PIP ERROR MONITOR	
*	AA 10L	56J12-B1	56J11-A6	IMU OG ERROR SIG	
*	AA 10K	56J12-B2	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA 77	56J12-B5	56E 34	0 VDC IMU	
	AA 47	56J12-B6	56J14-H6	Z PIP ERROR MONITOR	
*	AA232L	56J12-D1	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	
*	AA232R	56J12-D2	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	
	AA 86W	56J12-D4	56J21- 60	ACCEL FAIL	138A
	AA 85W	56J12-D5	56J21-158	CDU FAIL	124A
	AA 84W	56J12-D6	56J21- 28	IMU FAIL	141A
	AA 67	56J12-F1	56E 31	COMPUTER 800 PPS SYNC RET	
	AA 68	56J12-F1	56J12-F2	COMPUTER 800 PPS SYNC RET	
	AA 69	56J12-F2	56E 29	COMPUTER 25.6 KPPS SYNC RET	
*	AA 68	56J12-F2	56J12-F1	COMPUTER 800 PPS SYNC RET	
	AA 97	56J12-F3	56J17-M3	0 VDC SPACECRAFT	
	AA 86R	56J12-F4	56J21- 61	ACCEL FAIL RET	138B
	AA 85R	56J12-F5	56J21-159	CDU FAIL RET	124B
	AA 84R	56J12-F6	56J21- 29	IMU FAIL RET	141B
*	AA490W	56J12-G1	56J21-169	COMPUTER 25.6 KPPS IN PHASE SYNC	153A
*	AA491R	56J12-G2	56J21-136	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA 74	56J12-G3	56J22-244	ERROR DETECT LIGHT MAIN PANEL	
	AA 53	56J12-G4	56J20-L6	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP	
	AA 59	56J12-G5	56J16-R2	0 VDC IMU	
	AA 71	56J12-G5	56J12-R5	0 VDC IMU	
	AA 58	56J12-G6	56J16-N3	OG CDU FAILURE INDICATION	
	AA 70R	56J12-H1	56J21- 71	COMPUTER 102.4 KPPS SYNC RET	156B
*	AA 70A	56J12-H1	SHLD AA 70	COMPUTER 102.4 KPPS SYNC RET	
	AA 48W	56J12-H2	56J15-S4	3200 CPS 2 V HI	
*	AA 9W	56J12-H2	56J11-L1	3200 CPS 2 V HI	
	AA 93	56J12-H3	56J17-L2	MAIN PANEL CONDITION LAMP TEST	
	AA 52W	56J12-H4	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 62	56J12-H4	56J12-N2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 56	56J12-H5	56J16-M2	IG CDU FAILURE INDICATION	
	AA 57	56J12-H6	56J16-M3	MG CDU FAILURE INDICATION	

CODE IDENT NO. 99974	SIZE A	1014607
SCALE-NONE	REV LTR B	SHEET 039

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA 35	56J11-L3	56TB1-D 6	COARSE ALIGN RELAY CONTROL	
	AA 7	56J11-L4	56J12-K3	STRUCTURE GND	
*	AA503R	56J11-L6	56J21-203	COMPUTER 3200 PPS OUT OF PHASE SYNC	152A
	AA 28R	56J11-M1	56TB1-D 2	3200 CPS 2 V HI	
	AA 28L	56J11-M2	56TB1-C 2	3200 CPS 2 V LO	
	AA 36	56J11-M5	56E 28	COMPUTER 3200 PPS SYNC RET	
	AA 37	56J11-M5	56J11-P3	0 VDC IMU	
*	AA504R	56J11-M6	56J21-241	COMPUTER 3200 PPS IN PHASE SYNC	151A
	AA 12R	56J11-N1	56J17-P2	3200 CPS 20 V CT	
	AA 12L	56J11-N2	56J17-R2	3200 CPS 20 V LO	
	AA587	56J11-N3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
	AA 5R	56J11-N4	56J12-P3	800 CPS 28 V 1 PCT LO IMU	
	AA 5W	56J11-N5	56J12-N3	800 CPS 28 V 1 PCT HI IMU	
	AA 14	56J11-N6	56J13-P6	-28 VDC	
	AA 27	56J11-N6	56TB1-D 5	-28 VDC	
	AA 12W	56J11-P1	56J17-N2	3200 CPS 20 V HI	
	AA 38	56J11-P2	56J11-R3	0 VDC IMU	
	AA 39	56J11-P3	56J11-R3	0 VDC IMU	
*	AA 37	56J11-P3	56J11-M5	0 VDC IMU	
	AA 18	56J11-P4	56J11-R4	0 VDC IMU	
	AA 22	56J11-P4	56J11-P5	0 VDC IMU	
*	AA 22	56J11-P5	56J11-P4	0 VDC IMU	
	AA 26	56J11-P6	56J11-R6	0 VDC IMU	
	AA 46	56J11-P6	56TB1-S 3	0 VDC IMU	
*	AA 24	56J11-P6	56J11-G2	0 VDC IMU	
	AA 41	56J11-R1	56J11-R2	0 VDC IMU	
	AA 44	56J11-R1	56TB2-M 2	0 VDC IMU	
	AA 45	56J11-R2	56TB2-M 3	0 VDC IMU	
*	AA 41	56J11-R2	56J11-R1	0 VDC IMU	
	AA 43	56J11-R3	56TB2-M 1	0 VDC IMU	
*	AA 38	56J11-R3	56J11-P2	0 VDC IMU	
*	AA 39	56J11-R3	56J11-P3	0 VDC IMU	
	AA 17	56J11-R4	56J11-R5	0 VDC IMU	
*	AA 18	56J11-R4	56J11-P4	0 VDC IMU	
	AA 31	56J11-R5	56J11-R6	0 VDC IMU	
*	AA 17	56J11-R5	56J11-R4	0 VDC IMU	
	AA 33	56J11-R6	56J11-S6	0 VDC IMU	

CODE IDENT NO. 99974	SIZE A	1014607
SCALE-NONE	REV LTR B	SHEET 037

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA 70W	56J12-K1	56J21- 70	COMPUTER 102.4 KPPS SYNC	156A
	AA 48R	56J12-K2	56J15-R4	3200 CPS 2 V LO	
*	AA 9R	56J12-K2	56J11-L2	3200 CPS 2 V LO	
	AA 72	56J12-K3	56J13-C6	STRUCTURE GND	
*	AA 7	56J12-K3	56J11-L4	STRUCTURE GND	
	AA 52R	56J12-K4	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
	AA 73L	56J12-K6	56J14-R2	+12, +120 VDC RET GYRO	
	AA 82	56J12-L1	56TB3-M22	+28 VDC MDV	
	AA 83	56J12-L2	56TB1-H 8	ERROR DETECT LIGHT HI	
	AA 95R	56J12-L5	56J13-R3	+32 VDC RET GYRO	
	AA 73R	56J12-L6	56J14-S2	+120 VDC GYRO	
	AA 80	56J12-M1	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI	
	AA 81	56J12-M1	56J21- 36	AGC POWER SUPPLY FAIL SIG HI	157A
	AA 78	56J12-M3	56TB1-H 5	AGC FAIL SIG	
	AA 79	56J12-M4	56TB1-G 5	+28 VDC TO COMPUTER RELAY	
	AA 95W	56J12-M5	56J13-S3	+32 VDC GYRO	
	AA 73W	56J12-M6	56J14-S3	+12 VDC GYRO	
	AA 61	56J12-N1	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 62	56J12-N2	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 49W	56J12-N3	56J15-P6	800 CPS 28 V 1 PCT HI IMU	
*	AA 5W	56J12-N3	56J11-N5	800 CPS 28 V 1 PCT HI IMU	
	AA 64W	56J12-N4	56TB1-H 4	25.6 KC HI IMU	
	AA 65	56J12-N4	56J12-N5	25.6 KC HI IMU	
	AA 50W	56J12-N5	56J15-N6	25.6 KC HI IMU	
*	AA 65	56J12-N5	56J12-N4	25.6 KC HI IMU	
	AA 63R	56J12-N6	56TB1-G 7	25.6 KC LO OPTICS	
	AA 94R	56J12-N6	56J17-N3	25.6 KC LO OPTICS	
	AA 60L	56J12-P1	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 61	56J12-P1	56J12-N1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
	AA 60W	56J12-P2	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
	AA 49R	56J12-P3	56J15-P5	800 CPS 28 V 1 PCT LO IMU	
*	AA 5R	56J12-P3	56J11-N4	800 CPS 28 V 1 PCT LO IMU	
	AA 92W	56J12-P4	56J17-R3	COMPUTER 12.8 KPPS SYNC	
*	AA587	56J12-P4	56J11-N3	COMPUTER 12.8 KPPS SYNC	
	AA 50R	56J12-P5	56J15-N5	25.6 KC LO IMU	
	AA 64R	56J12-P5	56TB1-G 4	25.6 KC LO IMU	
	AA 63W	56J12-P6	56TB1-H 7	25.6 KC HI OPTICS	

CODE IDENT NO. 99974	SIZE A	1014607
SCALE-NONE	REV LTR B	SHEET 040

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 418B	SHLD A418	56TB2-M 4	0 VDC IMU
*	A 421B	SHLD A421	56TB3-F 7	TRUNNION CDU DAC LO
*	A 422B	SHLD A422	56TB3-F 8	SHAFT CDU DAC LO
*	A 425B	SHLD A425	56TB3-M 9	0·VDC OPTICS
*	A 426B	SHLD A426	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
*	A 427B	SHLD A427	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO
*	A 433B	SHLD A433	56E 44	AGC SIG 178 SHLD RET
*	A 434B	SHLD A434	56E 44	AGC SIG 178 SHLD RET
*	A 437B	SHLD A437	56E 44	AGC SIG 178 SHLD RET
	A 440A	SHLD A440	56E 44	AGC SIG 178 SHLD RET
*	A 449B	SHLD A449	56E 44	AGC SIG 178 SHLD RET
	AA 70A	SHLD AA 70	56J12-H1	COMPUTER 102.4 KPPS SYNC RET
*	AA 92B	SHLD AA 92	56E 27	0 VDC IMU
*	AA119B	SHLD AA119	56TB1-N 5	0 VDC IMU
*	AA122B	SHLD AA122	56TB1-N 4	0 VDC IMU
*	AA124B	SHLD AA124	56TB1-N 8	0 VDC IMU
*	AA127B	SHLD AA127	56TB1-S 3	0 VDC IMU
*	AA133B	SHLD AA133	56TB1-S 6	0 VDC IMU
*	AA136B	SHLD AA136	56TB1-S 8	0 VDC IMU
*	AA176B	SHLD AA176	56TB2-D 3	AGC SIG 178 SHLD RET
	AA197A	SHLD AA197	56J16-B1	IG CDU MDA INPUT RET
	AA202A	SHLD AA202	56J16-B3	MG CDU MDA INPUT RET
	AA214A	SHLD AA214	56J16-B5	OG CDU MDA INPUT RET
	AA226A	SHLD AA226	56E 30	0 VDC IMU
	AA227A	SHLD AA227	56E 30	0 VDC IMU
	AA232A	SHLD AA232	56E 30	0 VDC IMU
*	AA232B	SHLD AA232	56E 31	0 VDC IMU
*	AA244B	SHLD AA244	56J22- 41	
*	AA245B	SHLD AA245	56J22- 5	
*	AA246B	SHLD AA246	56J22- 8	
*	AA265B	SHLD AA265	56TB3-N 3	0 VDC IMU
*	AA270B	SHLD AA270	56TB3-N 3	0 VDC IMU
*	AA287B	SHLD AA287	56J22- 2	
*	AA288B	SHLD AA288	56J22- 11	
*	AA307B	SHLD AA307	56TB3-T 9	0 VDC OPTICS
*	AA308B	SHLD AA308	56TB3-S 9	0 VDC OPTICS
*	AA309B	SHLD AA309	56TB3-T 9	0 VDC OPTICS

CODE IDENT NO.	SIZE			
99974	A	1014607		
SCALE-NONE	REV LTR	B	SHEET 006	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA310B	SHLD AA310	56TB3-S 9	0 VDC OPTICS
*	AA315B	SHLD AA315	56TB3-M 9	0 VDC OPTICS
*	AA316B	SHLD AA316	56TB3-L 9	0 VDC OPTICS
*	AA329B	SHLD AA329	56TB3-H 9	0 VDC OPTICS
*	AA331B	SHLD AA331	56TB3-H 9	0 VDC OPTICS
	AA467A	SHLD AA467	56E 46	AGC SIG 180 SHLD RET
	AA468A	SHLD AA468	56E 46	AGC SIG 180 SHLD RET
	AA469A	SHLD AA469	56E 46	AGC SIG 180 SHLD RET
	AA470A	SHLD AA470	56E 46	AGC SIG 180 SHLD RET
	AA471A	SHLD AA471	56E 46	AGC SIG 180 SHLD RET
	AA472A	SHLD AA472	56E 46	AGC SIG 180 SHLD RET
	AA475A	SHLD AA475	56E 47	AGC SIG 179 SHLD RET
	AA476A	SHLD AA476	56E 47	AGC SIG 179 SHLD RET
	AA477A	SHLD AA477	56E 47	AGC SIG 179 SHLD RET
	AA478A	SHLD AA478	56E 47	AGC SIG 179 SHLD RET
	AA479A	SHLD AA479	56E 47	AGC SIG 179 SHLD RET
	AA480A	SHLD AA480	56E 47	AGC SIG 179 SHLD RET
	AA489A	SHLD AA489	56E 57	AGC SIG 178 SHLD RET
*	AA481B	SHLD AA481	56E 39	IG DAC MDA SIG LO
*	AA482B	SHLD AA482	56E 39	IG DAC MDA SIG LO
*	AA483B	SHLD AA483	56E 41	MG DAC MDA SIG LO
*	AA484B	SHLD AA484	56E 41	MG DAC MDA SIG LO
*	AA485B	SHLD AA485	56E 43	OG DAC MDA SIG LO
*	AA486B	SHLD AA486	56E 43	OG DAC MDA SIG LO
*	AA487B	SHLD AA487	56TB2-D 3	AGC SIG 178 SHLD RET
*	AA488B	SHLD AA488	56E 57	AGC SIG 178 SHLD RET
	AA494A	SHLD AA494	56E 45	AGC SIG 180 SHLD RET
	AA495A	SHLD AA495	56E 45	AGC SIG 180 SHLD RET
	AA498A	SHLD AA498	56E 45	AGC SIG 180 SHLD RET
	AA499A	SHLD AA499	56E 45	AGC SIG 180 SHLD RET
*	AA490B	SHLD AA490	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA491B	SHLD AA491	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA492B	SHLD AA492	56E 52	SHAFT CDU DAC LO
*	AA493B	SHLD AA493	56E 52	SHAFT CDU DAC LO
*	AA496B	SHLD AA496	56E 50	TRUNNION CDU DAC LO
*	AA497B	SHLD AA497	56E 50	TRUNNION CDU DAC LO
*	AA500B	SHLD AA500	56E 27	0 VDC IMU

CODE IDENT NO.	SIZE			
99974	A	1014607		
SCALE-NONE	REV LTR	B	SHEET 007	

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 253B	SHLD A253	56TB3-S 9	0 VDC OPTICS
*	A 254B	SHLD A254	56TB3-M15	0 VDC OPTICS
*	A 255B	SHLD A255	56TB3-H15	0 VDC OPTICS
*	A 256B	SHLD A256	56TB3-G 9	0 VDC OPTICS
*	A 257B	SHLD A257	56TB3-S15	0 VDC OPTICS
*	A 258B	SHLD A258	56TB3-R 9	0 VDC OPTICS
*	A 260B	SHLD A260	56TB3-S15	0 VDC OPTICS
*	A 261B	SHLD A261	56TB3-R15	0 VDC OPTICS
*	A 262B	SHLD A262	56TB3-K 9	0 VDC OPTICS
*	A 263B	SHLD A263	56TB3-H15	0 VDC OPTICS
*	A 278B	SHLD A278	56TB3-N 3	0 VDC IMU
*	A 279B	SHLD A279	56TB3-N 3	0 VDC IMU
*	A 289B	SHLD A289	56TB1-S 8	0 VDC IMU
*	A 290B	SHLD A290	56TB1-N 8	0 VDC IMU
*	A 291B	SHLD A291	56TB1-S 6	0 VDC IMU
*	A 292B	SHLD A292	56TB1-S 3	0 VDC IMU
*	A 293B	SHLD A293	56TB1-N 4	0 VDC IMU
*	A 294B	SHLD A294	56TB1-N 5	0 VDC IMU
*	A 302B	SHLD A302	56TB3-S15	0 VDC OPTICS
*	A 304B	SHLD A304	56TB3-H15	0 VDC OPTICS
*	A 306B	SHLD A306	56TB3-T15	0 VDC OPTICS
*	A 307B	SHLD A307	56TB3-T15	0 VDC OPTICS
*	A 309B	SHLD A309	56TB3-M15	0 VDC OPTICS
*	A 310B	SHLD A310	56TB3-M15	0 VDC OPTICS
*	A 312B	SHLD A312	56TB3-K 9	0 VDC OPTICS
*	A 313B	SHLD A313	56TB3-R15	0 VDC OPTICS
*	A 338B	SHLD A338	56TB2-R 3	OG CDU ERROR SIG RET
*	A 355B	SHLD A355	56TB3-H13	0 VDC IMU
*	A 356B	SHLD A356	56TB3-H14	0 VDC IMU
*	A 357B	SHLD A357	56TB3-H12	0 VDC IMU
*	A 358B	SHLD A358	56E 48	0 VDC IMU
*	A 359B	SHLD A359	56TB2-V 8	0 VDC IMU
*	A 360B	SHLD A360	56TB2-M 8	0 VDC IMU
*	A 364B	SHLD A364	56TB2-F 2	IG CDU ERROR SIG RET
*	A 365B	SHLD A365	56TB2-F 7	MG CDU ERROR SIG RET
*	A 366B	SHLD A366	56TB2-S 2	OG CDU ERROR SIG RET
*	A 407B	SHLD A407	56E 44	AGC SIG 178 SHLD RET

CODE IDENT NO.	SIZE			
99974	A	1014607		
SCALE-NONE	REV LTR	B	SHEET 005	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA503B	SHLD AA503	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA504B	SHLD AA504	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA505B	SHLD AA505	56TB2-V 8	0 VDC IMU
*	AA506B	SHLD AA506	56TB2-M 8	0 VDC IMU
*	AA507B	SHLD AA507	56TB3-H12	0 VDC IMU
*	AA508B	SHLD AA508	56TB3-H14	0 VDC IMU
*	AA509B	SHLD AA509	56TB3-H13	0 VDC IMU
*	AA510B	SHLD AA510	56TB3-H14	0 VDC IMU
	AA569A	SHLD AA569	56TB2-D 3	AGC SIG 178 SHLD RET
	AA571A	SHLD AA571	56TB2-R 3	OG CDU ERROR SIG RET

CODE IDENT NO.	SIZE			
99974	A	1014607		
SCALE-NONE	REV LTR	B	SHEET 008	

MIL 2074 12-62

INCHES
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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA118W	56J13-A1	56TB1-M 7	X PIP ERROR HI	
	AA121W	56J13-A3	56TB1-M 3	Y PIP ERROR HI	
	AA104	56J13-A6	56J14-A6	X GYRO DC DIFF AMP OUTPUT	
	AA118R	56J13-B1	56TB1-M 6	X PIP ERROR LO	
	AA121R	56J13-B3	56TB1-N 2	Y PIP ERROR LO	
	AA106	56J13-C6	56J14-H5	STRUCTURE GND	
*	AA 72	56J13-C6	56J12-K3	STRUCTURE GND	
	AA114	56J13-D1	56J15-L4	P X	
	AA120	56J13-D2	56TB1-L 2	X PIP ERROR MONITOR	
*	AA 75	56J13-D2	56J12-A5	X PIP ERROR MONITOR	
	AA116	56J13-D3	56J15-L3	P Y	
	AA124R	56J13-D6	56TB1-M 8	X GYRO TORQUE +	
	AA115	56J13-F1	56J15-M4	N X	
	AA123	56J13-F2	56TB1-M 2	Y PIP ERROR MONITOR	
*	AA 76	56J13-F2	56J12-A6	Y PIP ERROR MONITOR	
	AA117	56J13-F3	56J15-M3	N Y	
	AA124W	56J13-F6	56TB1-L 8	X GYRO TORQUE RET	
	AA124L	56J13-G6	56TB1-L 7	X GYRO TORQUE -	
	AA119R	56J13-H1	56TB1-M 5	X PIP TORQUE +	
	AA103	56J13-H6	56J14-G1	X GYRO CAL DUMMY	
	AA119W	56J13-K1	56TB1-L 6	X PIP TORQUE RET	
	AA105W	56J13-K6	56J14-H1	X GYRO TERNARY CUR SW TORQUE +	
	AA119L	56J13-L1	56TB1-L 5	X PIP TORQUE -	
	AA122R	56J13-L3	56TB1-L 4	Y PIP TORQUE +	
	AA105R	56J13-L6	56J14-K1	X GYRO TERNARY CUR SW TORQUE -	
	AA122W	56J13-M3	56TB1-L 3	Y PIP TORQUE RET	
	AA122L	56J13-N3	56TB1-M 4	Y PIP TORQUE -	
	AA101	56J13-N5	56J14-H3	PIPA INTERROGATE PULSE	
*	AA501W	56J13-N5	56J21-132	PIPA INTERROGATE PULSE	139A
	AA102	56J13-N6	56J14-K3	PIPA SWITCHING PULSE	
*	AA502W	56J13-N6	56J21- 99	PIPA SWITCHING PULSE	140A
	AA113	56J13-P6	56J14-P6	-28 VDC	
*	AA 14	56J13-P6	56J11-N6	-28 VDC	
	AA112R	56J13-R1	56J14-R2	+12, +120 VDC RET GYRO	
	AA109R	56J13-R2	56J14-R1	+120 VDC RET PIP	
	AA110R	56J13-R3	56J14-R5	+32 VDC RET GYRO	
*	AA 95R	56J13-R3	56J12-L5	+32 VDC RET GYRO	

CODE IDENT NO.	SIZE		
99974	A	1014607	
SCALE - NONE	REV LTR	B	SHEET 042

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA111R	56J13-R4	56J14-R4	+32 VDC RET PIP
	AA108	56J13-R6	56J14-R6	0 VDC IMU
	AA125	56J13-R6	56E 34	0 VDC IMU
*	AA 96	56J13-R6	56J12-R5	0 VDC IMU
	AA112W	56J13-S1	56J14-S2	+120 VDC GYRO
	AA109W	56J13-S2	56J14-S1	+120 VDC PIP
	AA110W	56J13-S3	56J14-S5	+32 VDC GYRO
*	AA 95W	56J13-S3	56J12-M5	+32 VDC GYRO
	AA111W	56J13-S4	56J14-S4	+32 VDC PIP
	AA107	56J13-S6	56J14-S6	+28 VDC IMU

CODE IDENT NO.	SIZE		
99974	A	1014607	
SCALE - NONE	REV LTR	B	SHEET 043

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA 94W	56J12-P6	56J17-P3	25.6 KC HI OPTICS
	AA 60R	56J12-R1	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO
	AA 89	56J12-R2	56J12-R3	0 VDC IMU
	AA 99	56J12-R2	56TB1-N 5	0 VDC IMU
	AA 90	56J12-R3	56J12-R4	0 VDC IMU
*	AA 89	56J12-R3	56J12-R2	0 VDC IMU
	AA 91	56J12-R4	56F 31	0 VDC IMU
	AA100	56J12-R4	56TB1-N 8	0 VDC IMU
*	AA 90	56J12-R4	56J12-R3	0 VDC IMU
	AA 96	56J12-R5	56J13-R6	0 VDC IMU
	AA 98	56J12-R5	56TB1-S 6	0 VDC IMU
*	AA 71	56J12-R5	56J12-G5	0 VDC IMU
	AA 66	56J12-R6	56TB3-L20	0 VDC OPTICS
	AA 54	56J12-S1	56J20-M1	+28 VDC IMU
	AA 87	56J12-S1	56J12-S3	+28 VDC IMU
	AA 55	56J12-S2	56J20-M2	+28 VDC IMU
	AA 88	56J12-S2	56J12-S4	+28 VDC IMU
*	AA 87	56J12-S3	56J12-S1	+28 VDC IMU
*	AA 88	56J12-S4	56J12-S2	+28 VDC IMU
*	AA 6	56J12-S5	56J11-S4	+28 VDC IMU
	AA 51	56J12-S6	56J20-N5	+28 VDC OPTICS

CODE IDENT NO.	SIZE		
99974	A	1014607	
SCALE - NONE	REV LTR	B	SHEET 041

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA126W	56J14-A1	56TB1-T 5	Z PIP ERROR HI	
	AA126R	56J14-A2	56TB1-T 4	Z PIP ERROR LO	
*	AA104	56J14-A6	56J13-A6	X GYRO DC DIFF AMP OUTPUT	
	AA143	56J14-C1	56J15-N2	+ SET X GYRO CAGE	
	AA144	56J14-C2	56J15-P2	- SET X GYRO CAGE	
	AA141	56J14-C3	56J15-N3	+ SET Y GYRO CAGE	
	AA142	56J14-C4	56J15-P3	- SET Y GYRO CAGE	
	AA139	56J14-C5	56J15-N4	+ SET Z GYRO CAGE	
	AA140	56J14-C6	56J15-P4	- SET Z GYRO CAGE	
	AA129R	56J14-D1	56J21- 67	+ DX GYRO RATE	142B
	AA130W	56J14-D2	56J21- 33	- DX GYRO RATE	143B
	AA131R	56J14-D3	56J21-240	+ DY GYRO RATE	144B
	AA132R	56J14-D4	56J21-202	- DY GYRO RATE	145B
	AA134W	56J14-D5	56J21-168	+ DZ GYRO RATE	146B
	AA135R	56J14-D6	56J21-135	- DZ GYRO RATE	147B
	AA148	56J14-F6	56J15-L2	P Z	
*	AA103	56J14-G1	56J13-H6	X GYRO CAL DUMMY	
	AA149	56J14-G6	56J15-M2	N Z	
*	AA105W	56J14-H1	56J13-K6	X GYRO TERNARY CUR SW TORQUE +	
	AA138	56J14-H3	56J15-L1	PIPA INTERROGATE PULSE	
*	AA101	56J14-H3	56J13-N5	PIPA INTERROGATE PULSE	
	AA145	56J14-H4	56J15-M1	GYRO DATA PULSE	
	AA151	56J14-H5	56J15-K3	STRUCTURE GND	
*	AA106	56J14-H5	56J13-C6	STRUCTURE GND	
	AA128	56J14-H6	56TB1-T 7	Z PIP ERROR MONITOR	
*	AA 47	56J14-H6	56J12-B6	Z PIP ERROR MONITOR	
*	AA105R	56J14-K1	56J13-L6	X GYRO TERNARY CUR SW TORQUE -	
	AA146	56J14-K3	56J15-N1	PIPA SWITCHING PULSE	
*	AA102	56J14-K3	56J13-N6	PIPA SWITCHING PULSE	
	AA147	56J14-K4	56J15-P1	GYRO RESET PULSE	
	AA136R	56J14-L6	56TB1-T 8	Z GYRO TORQUE +	
	AA133R	56J14-M1	56TB1-T 6	Y GYRO TORQUE +	
	AA133L	56J14-M2	56TB1-U 6	Y GYRO TORQUE -	
	AA133W	56J14-M3	56TB1-U 5	Y GYRO TORQUE RET	
	AA136L	56J14-M6	56TB1-U 8	Z GYRO TORQUE -	
	AA136W	56J14-N6	56TB1-U 7	Z GYRO TORQUE RET	
	AA127R	56J14-P1	56TB1-U 4	Z PIP TORQUE +	

CODE IDENT NO.	SIZE		
99974	A	1014607	
SCALE - NONE	REV LTR	B	SHEET 044

MIL 2074 12-62

INCHES
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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 582	56E 8	56J03- 15	+28 VDC CDU NOT LOCK
	A 561R	56E 9	56TB1-S 1	400 CPS VAR ILLUM PWR
*	A 53R	56E 9	56J01- 28	400 CPS VAR ILLUM PWR
*	A 77R	56E 9	56J02- 28	400 CPS VAR ILLUM PWR
*	A 98R	56E 9	56J03- 28	400 CPS VAR ILLUM PWR
*	A 123R	56E 9	56J04- 28	400 CPS VAR ILLUM PWR
*	A 146R	56E 9	56J05- 28	400 CPS VAR ILLUM PWR
	A 561W	56E 10	56TB1-S 2	400 CPS 6 V LO
*	A 53W	56E 10	56J01- 29	400 CPS 6 V LO
*	A 77W	56E 10	56J02- 29	400 CPS 6 V LO
*	A 98W	56E 10	56J03- 29	400 CPS 6 V LO
*	A 123W	56E 10	56J04- 29	400 CPS 6 V LO
*	A 146W	56E 10	56J05- 29	400 CPS 6 V LO
	A 567W	56E 11	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 578W	56E 11	56J01- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 579W	56E 11	56J02- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 580W	56E 11	56J03- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 54	56E 12	56J01- 41	STRUCTURE GND
*	A 78	56E 12	56J02- 41	STRUCTURE GND
*	A 99	56E 12	56J03- 41	STRUCTURE GND
*	A 124	56E 12	56J04- 41	STRUCTURE GND
*	A 147	56E 12	56J05- 41	STRUCTURE GND
*	A 548	56E 12	56TB3-F21	STRUCTURE GND
	A 558W	56E 13	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 104W	56E 13	56J04- 14	800 CPS 28 V 1 PCT LO OPTICS
*	A 584R	56E 13	56J04- 25	800 CPS 28 V 1 PCT LO OPTICS
*	A 584W	56E 13	56J04- 11	800 CPS 28 V 1 PCT LO OPTICS
*	A 585R	56E 13	56J05- 4	800 CPS 28 V 1 PCT LO OPTICS
*	A 585W	56E 13	56J05- 18	800 CPS 28 V 1 PCT LO OPTICS
*	A 586W	56E 13	56J05- 14	800 CPS 28 V 1 PCT LO OPTICS
	A 558R	56E 14	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 104R	56E 14	56J04- 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 584L	56E 14	56J04- 12	800 CPS 28 V 1 PCT HI OPTICS
*	A 585L	56E 14	56J05- 17	800 CPS 28 V 1 PCT HI OPTICS
*	A 586R	56E 14	56J05- 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 119	56E 15	56J04- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 142	56E 15	56J05- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 010

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 553	56E 15	56TB2-L 8	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS	
	A 560W	56E 16	56TB1-G 7	25.6 KC LO OPTICS	
*	A 117W	56E 16	56J04- 60	25.6 KC LO OPTICS	
*	A 583W	56E 16	56J05- 60	25.6 KC LO OPTICS	
	A 560R	56E 17	56TB1-H 7	25.6 KC HI OPTICS	
*	A 117R	56E 17	56J04- 50	25.6 KC HI OPTICS	
*	A 583R	56E 17	56J05- 50	25.6 KC HI OPTICS	
	A 132W	56E 18	56TB3-L11	TRUNNION CDU 1/2X RSVR P3	
*	A 133	56E 18	56J05- 11	TRUNNION CDU 1/2X RSVR P3	
*	A 149	56E 18	56J05- 25	TRUNNION CDU 1/2X RSVR P3	
	A 556	56E 19	56TB1-S 5	0 VDC IMU	
*	A 194	56E 19	56J08- 31	0 VDC IMU	
*	A 195	56E 19	56J08- 70	0 VDC IMU	
*	A 204	56E 19	56J08- 30	0 VDC IMU	
*	A 205	56E 19	56J08- 28	0 VDC IMU	
*	A 208	56E 19	56J08- 17	0 VDC IMU	
*	A 212	56E 19	56J08- 52	0 VDC IMU	
	A 549	56E 20	56TB2-D 6	0 VDC IMU	
*	A 189	56E 20	56J08- 61	0 VDC IMU	
*	A 191	56E 20	56J08- 84	0 VDC IMU	
*	A 201	56E 20	56J08- 83	0 VDC IMU	
*	A 213	56E 20	56J08- 63	0 VDC IMU	
	A 550	56E 21	56TB2-D 5	0 VDC IMU	
*	A 337	56E 21	56P09- 27	0 VDC IMU	
*	A 339	56E 21	56P09- 37	0 VDC IMU	
*	A 340	56E 21	56P09- 26	0 VDC IMU	
*	A 341	56E 21	56P09- 25	0 VDC IMU	
*	A 347	56E 21	56P09- 36	0 VDC IMU	
*	A 348	56E 21	56P09- 24	0 VDC IMU	
	A 494W	56E 22	56J21-211		214B
	A 495W	56E 22	56J21-176		215B
	A 496W	56E 22	56J21-143		216B
	A 497W	56E 22	56J21-110		217B
	A 498W	56E 22	56J21- 77		218B
	A 499W	56E 22	56J21- 42		219B
	A 500W	56E 22	56J21-213		221B
	A 501W	56E 22	56J21-178		222B

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 011

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 577R	56E 1	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	A 84R	56E 1	56J03- 1	800 CPS 28 V 1 PCT HI IMU
*	A 572R	56E 1	56J01- 1	800 CPS 28 V 1 PCT HI IMU
*	A 573L	56E 1	56J01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 573R	56E 1	56J01- 25	800 CPS 28 V 1 PCT HI IMU
*	A 574R	56E 1	56J02- 1	800 CPS 28 V 1 PCT HI IMU
*	A 575L	56E 1	56J02- 11	800 CPS 28 V 1 PCT HI IMU
*	A 575R	56E 1	56J02- 25	800 CPS 28 V 1 PCT HI IMU
*	A 576L	56E 1	56J03- 11	800 CPS 28 V 1 PCT HI IMU
*	A 576R	56E 1	56J03- 25	800 CPS 28 V 1 PCT HI IMU
	A 577W	56E 2	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	A 84W	56E 2	56J03- 14	800 CPS 28 V 1 PCT LO IMU
*	A 572W	56E 2	56J01- 14	800 CPS 28 V 1 PCT LO IMU
*	A 574W	56E 2	56J02- 14	800 CPS 28 V 1 PCT LO IMU
	A 564R	56E 3	56TB1-G 4	25.6 KC LO IMU
*	A 46W	56E 3	56J01- 60	25.6 KC LO IMU
*	A 70W	56E 3	56J02- 60	25.6 KC LO IMU
*	A 93W	56E 3	56J03- 60	25.6 KC LO IMU
	A 564W	56E 4	56TB1-H 4	25.6 KC HI IMU
*	A 46R	56E 4	56J01- 50	25.6 KC HI IMU
*	A 70R	56E 4	56J02- 50	25.6 KC HI IMU
*	A 93R	56E 4	56J03- 50	25.6 KC HI IMU
*	A 573W	56E 5	56J01- 12	ZEROING RSVR 800 CPS
*	A 575W	56E 5	56J02- 12	ZEROING RSVR 800 CPS
*	A 576W	56E 5	56J03- 12	ZEROING RSVR 800 CPS
*	A 577L	56E 5	56TB2-H 5	ZEROING RSVR 800 CPS
*	A 48	56E 6	56J01- 16	+28 VDC IMU
*	A 72	56E 6	56J02- 16	+28 VDC IMU
*	A 559	56E 6	56TB3-S21	+28 VDC IMU
*	A 581	56E 6	56J03- 16	+28 VDC IMU
	A 567R	56E 7	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 578R	56E 7	56J01- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 579R	56E 7	56J02- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 580R	56E 7	56J03- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	A 557	56E 8	56TB2-D 1	+28 VDC CDU NOT LOCK
*	A 50	56E 8	56J01- 15	+28 VDC CDU NOT LOCK
*	A 74	56E 8	56J02- 15	+28 VDC CDU NOT LOCK

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 009

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 502W	56E 22	56J21-145		223B
	A 505W	56E 22	56J21- 5		220B
*	A 554	56E 22	56E 23		
	A 482W	56E 23	56J21- 81		232B
	A 483W	56E 23	56J21- 7		227B
	A 484W	56E 23	56J21-215		228B
	A 485W	56E 23	56J21-180		229B
	A 486W	56E 23	56J21-147		230B
	A 487W	56E 23	56J21-114		231B
	A 488W	56E 23	56J21- 46		233B
	A 503W	56E 23	56J21-112		224B
	A 504W	56E 23	56J21- 44		226B
	A 506W	56E 23	56J21- 79		225B
	A 554	56E 23	56E 22		
	A 555	56E 23	56E 24		
	A 470W	56E 24	56J21- 48		244B
	A 471W	56E 24	56J21- 83		242B
	A 489W	56E 24	56J21- 9		234B
	A 490W	56E 24	56J21-217		235B
	A 491W	56E 24	56J21-182		236B
	A 492W	56E 24	56J21-149		237B
	A 493W	56E 24	56J21-116		238B
	A 552	56E 24	56E 26		
*	A 555	56E 24	56E 23		
	A 467W	56E 25	56J21- 85		205B
	A 468R	56E 25	56J21- 13		209B
	A 472W	56E 25	56J21-151		203B
	A 510W	56E 25	56J21- 15		207B
	A 511W	56E 25	56J21-118		204B
	A 514W	56E 25	56J21-184		202B
	A 515W	56E 25	56J21-186		210B
	A 516W	56E 25	56J21-219		201B
	A 517W	56E 25	56J21-221		208B
	A 551	56E 25	56E 26		
*	A 519	56E 26	56J10- 82	COMMONED RETURNS GROUND	330
*	A 551	56E 26	56E 25		
*	A 552	56E 26	56E 24		

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 012

MIL 2074 12-62

INCHES
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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA155W	56J15-A1	56TB1-C 8	Z GYRO ERROR SIG	
	AA155R	56J15-A2	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG	
*	AA488W	56J15-A3	56J21-188	MANUAL CDU MODE INDICATION TO AGC	160A
	AA180R	56J15-A4	56J16-B2	IG DAC MDA SIG HI	
	AA164	56J15-A5	56E 38	IG DAC MDA SIG LO	
	AA167	56J15-A5	56E 39	IG DAC MDA SIG LO	
	AA180W	56J15-A5	56J16-B1	IG DAC MDA SIG LO	
	AA181R	56J15-A6	56J16-B4	MG DAC MDA SIG HI	
	AA165	56J15-A7	56E 40	MG DAC MDA SIG LO	
	AA168	56J15-A7	56E 41	MG DAC MDA SIG LO	
	AA181W	56J15-A7	56J16-B3	MG DAC MDA SIG LO	
	AA182R	56J15-A8	56J16-B6	OG DAC MDA SIG HI	
	AA166	56J15-A9	56E 42	OG DAC MDA SIG LO	
	AA169	56J15-A9	56E 43	OG DAC MDA SIG LO	
	AA182W	56J15-A9	56J16-B5	OG DAC MDA SIG LO	
	AA155L	56J15-B1	56TB1-C 7	X GYRO ERROR SIG	
	AA155K	56J15-B2	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA176W	56J15-B3	56TB2-D 2	AGC COM	
*	AA475W	56J15-B4	56J21- 24	IG ENCODER + DELTA THETA	120A
*	AA481W	56J15-B5	56J21-237	IG CDU + DELTA THETA COMMAND	128A
*	AA477W	56J15-B6	56J21-232	MG ENCODER + DELTA THETA	122A
*	AA483W	56J15-B7	56J21-165	MG CDU + DELTA THETA COMMAND	130A
*	AA479W	56J15-B8	56J21- 56	OG ENCODER + DELTA THETA	118A
*	AA485W	56J15-B9	56J21- 64	OG CDU + DELTA THETA COMMAND	126A
	AA161R	56J15-C1	56TB2-A 5	IG CDU ENCODER COM	
	AA161W	56J15-C2	56TB2-B 5	IG CDU ENCODER PHASE 1	
	AA163L	56J15-C3	56TB2-C 4	OG CDU ENCODER PHASE 2	
*	AA476R	56J15-C4	56J21- 26	IG ENCODER - DELTA THETA	121A
*	AA482R	56J15-C5	56J21-199	IG CDU - DELTA THETA COMMAND	129A
*	AA478R	56J15-C6	56J21-192	MG ENCODER - DELTA THETA	123A
*	AA484R	56J15-C7	56J21- 97	MG CDU - DELTA THETA COMMAND	131A
*	AA480R	56J15-C8	56J21- 58	OG ENCODER - DELTA THETA	119A
*	AA486R	56J15-C9	56J21- 30	OG CDU - DELTA THETA COMMAND	127A
	AA161L	56J15-D1	56TB2-C 5	IG CDU ENCODER PHASE 2	
	AA162R	56J15-D2	56TB2-A 6	MG CDU ENCODER PHASE 2	
	AA163R	56J15-D3	56TB2-A 4	OG CDU ENCODER COM	
	AA163W	56J15-D4	56TB2-B 4	OG CDU ENCODER PHASE 1	

CODE IDENT NO. 99974	SIZE A	1014607	
SCALE-NONE	REV LTR	B	SHEET 046

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA171R	56J15-D7	56TB2-B 8	SIN AIG 16X S4	
	AA171W	56J15-D8	56TB2-A 8	SIN AIG 16X S2	
	AA172L	56J15-D9	56TB2-C 7	SIN AMG 16X TO CDU	
	AA162W	56J15-F1	56TB2-B 6	MG CDU ENCODER PHASE 1	
	AA162L	56J15-F2	56TB2-C 6	MG CDU ENCODER COM	
	AA171L	56J15-F7	56TB2-C 8	SIN AIG 16X TO CDU	
	AA172W	56J15-F8	56TB2-A 7	SIN AMG 16X S2	
	AA172R	56J15-F9	56TB2-B 7	SIN AMG 16X S4	
	AA170	56J15-H4	56TB2-C 1	FINE ALIGN RELAY CONTROL	
	AA184	56J15-H4	56J16-L1	FINE ALIGN RELAY CONTROL	
	AA178	56J15-H5	56J20-H4	+28 VDC AGC	
	AA187	56J15-K3	56J16-N4	STRUCTURE GND	
*	AA151	56J15-K3	56J14-H5	STRUCTURE GND	
*	AA471W	56J15-K4	56J21- 95	- DELTA V Z	137B
*	AA472W	56J15-K5	56J21-128	+ DELTA V Z	136B
*	AA470W	56J15-K6	56J21-161	- DELTA V Y	135B
*	AA138	56J15-L1	56J14-H3	PIPA INTERROGATE PULSE	
*	AA148	56J15-L2	56J14-F6	P Z	
*	AA116	56J15-L3	56J13-D3	P Y	
*	AA114	56J15-L4	56J13-D1	P X	
	AA158	56J15-L5	56E 35	COMPUTER RET	
	AA159	56J15-L5	56E 36	COMPUTER RET	
	AA160	56J15-L5	56E 37	COMPUTER RET	
*	AA469W	56J15-L6	56J21-195	+ DELTA V Y	134B
*	AA145	56J15-M1	56J14-H4	GYRO DATA PULSE	
*	AA149	56J15-M2	56J14-G6	N Z	
*	AA117	56J15-M3	56J13-F3	N Y	
*	AA115	56J15-M4	56J13-F1	N X	
*	AA467W	56J15-M5	56J21-126	+ DELTA V X	132B
*	AA468W	56J15-M6	56J21- 93	- DELTA V X	133B
*	AA146	56J15-N1	56J14-K3	PIPA SWITCHING PULSE	
*	AA143	56J15-N2	56J14-C1	+ SET X GYRO CAGE	
*	AA141	56J15-N3	56J14-C3	+ SET Y GYRO CAGE	
*	AA139	56J15-N4	56J14-C5	+ SET Z GYRO CAGE	
*	AA 50R	56J15-N5	56J12-P5	25.6 KC LO IMU	
*	AA 50W	56J15-N6	56J12-N5	25.6 KC HI IMU	
	AA157W	56J15-P1	56J21-102	GYRO RESET PULSE	148B

CODE IDENT NO. 99974	SIZE A	1014607	
SCALE-NONE	REV LTR	B	SHEET 047

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA127L	56J14-P2	56TB1-U 3	Z PIP TORQUE -
	AA127W	56J14-P3	56TB1-T 3	Z PIP TORQUE RET
*	AA113	56J14-P6	56J13-P6	-28 VDC
	AA150R	56J14-R1	56J15-R5	+120 VDC RET PIP
*	AA109R	56J14-R1	56J13-R2	+120 VDC RET PIP
*	AA 73L	56J14-R2	56J12-K6	+12, +120 VDC RET GYRO
*	AA112R	56J14-R2	56J13-R1	+12, +120 VDC RET GYRO
	AA154R	56J14-R4	56J17-S5	+32 VDC RET PIP
*	AA111R	56J14-R4	56J13-R4	+32 VDC RET PIP
*	AA110R	56J14-R5	56J13-R3	+32 VDC RET GYRO
	AA137	56J14-R6	56E 33	0 VDC IMU
	AA153	56J14-R6	56J15-R2	0 VDC IMU
*	AA108	56J14-R6	56J13-R6	0 VDC IMU
	AA150W	56J14-S1	56J15-S5	+120 VDC PIP
*	AA109W	56J14-S1	56J13-S2	+120 VDC PIP
*	AA 73R	56J14-S2	56J12-L6	+120 VDC GYRO
*	AA112W	56J14-S2	56J13-S1	+120 VDC GYRO
*	AA 73W	56J14-S3	56J12-M6	+12 VDC GYRO
	AA154W	56J14-S4	56J17-T5	+32 VDC PIP
*	AA111W	56J14-S4	56J13-S4	+32 VDC PIP
*	AA110W	56J14-S5	56J13-S3	+32 VDC GYRO
	AA152	56J14-S6	56J15-S2	+28 VDC IMU
*	AA107	56J14-S6	56J13-S6	+28 VDC IMU

CODE IDENT NO. 99974	SIZE A	1014607	
SCALE-NONE	REV LTR	B	SHEET 045

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA147	56J15-P1	56J14-K4	GYRO RESET PULSE	
*	AA144	56J15-P2	56J14-C2	- SET X GYRO CAGE	
*	AA142	56J15-P3	56J14-C4	- SET Y GYRO CAGE	
*	AA140	56J15-P4	56J14-C6	- SET Z GYRO CAGE	
	AA185R	56J15-P5	56J16-S3	800 CPS 28 V 1 PCT LO IMU	
*	AA 49R	56J15-P5	56J12-P3	800 CPS 28 V 1 PCT LO IMU	
	AA185W	56J15-P6	56J16-S4	800 CPS 28 V 1 PCT HI IMU	
*	AA 49W	56J15-P6	56J12-N3	800 CPS 28 V 1 PCT HI IMU	
	AA156	56J15-R1	56TB2-C 2	BACKUP MODE RELAY CONTROL	
	AA157R	56J15-R2	56J21-101	0 VDC IMU	148A
*	AA153	56J15-R2	56J14-R6	0 VDC IMU	
*	AA 48R	56J15-R4	56J12-K2	3200 CPS 2 V LO	
	AA188R	56J15-R5	56J17-L4	+120 VDC RET PIP	
*	AA150R	56J15-R5	56J14-R1	+120 VDC RET PIP	
	AA177	56J15-R6	56TB2-D 1	+28 VDC CDU NOT LOCK	
	AA173	56J15-S1	56TB2-B 2	ZERO ENCODER RELAY CONTROL	
	AA183	56J15-S1	56J16-L2	ZERO ENCODER RELAY CONTROL	
	AA179	56J15-S2	56J20-K1	+28 VDC IMU	
*	AA152	56J15-S2	56J14-S6	+28 VDC IMU	
	AA174	56J15-S3	56TB2-B 1	LOCK CDU RELAY CONTROL	
	AA175	56J15-S3	56J22-227	LOCK CDU RELAY CONTROL	
*	AA 48W	56J15-S4	56J12-H2	3200 CPS 2 V HI	
	AA188W	56J15-S5	56J17-L5	+120 VDC PIP	
*	AA150W	56J15-S5	56J14-S1	+120 VDC PIP	
	AA186	56J15-S6	56J16-S2	+28 VDC IMU	
*	AA 1	56J15-S6	56J11-S4	+28 VDC IMU	

CODE IDENT NO. 99974	SIZE A	1014607	
SCALE-NONE	REV LTR	B	SHEET 048

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA470R	56E 36	56J21-160	COMPUTER RET	135A
*	AA160	56E 37	56J15-L5	COMPUTER RET	
*	AA471R	56E 37	56J21- 94	COMPUTER RET	137A
*	AA472R	56E 37	56J21-127	COMPUTER RET	136A
*	AA164	56E 38	56J15-A5	IG DAC MDA SIG LO	
*	AA475R	56E 38	56J21- 25	IG DAC MDA SIG LO	120B
*	AA476W	56E 38	56J21- 27	IG DAC MDA SIG LO	121B
	AA481B	56E 39	SHLD AA481	IG DAC MDA SIG LO	
	AA482B	56E 39	SHLD AA482	IG DAC MDA SIG LO	
*	AA167	56E 39	56J15-A5	IG DAC MDA SIG LO	
*	AA481R	56E 39	56J21-238	IG DAC MDA SIG LO	128B
*	AA482W	56E 39	56J21-200	IG DAC MDA SIG LO	129B
*	AA165	56E 40	56J15-A7	MG DAC MDA SIG LO	
*	AA477R	56E 40	56J21-233	MG DAC MDA SIG LO	122B
*	AA478W	56E 40	56J21-193	MG DAC MDA SIG LO	123B
	AA483B	56E 41	SHLD AA483	MG DAC MDA SIG LO	
	AA484B	56E 41	SHLD AA484	MG DAC MDA SIG LO	
*	AA168	56E 41	56J15-A7	MG DAC MDA SIG LO	
*	AA483R	56E 41	56J21-166	MG DAC MDA SIG LO	130B
*	AA484W	56E 41	56J21- 98	MG DAC MDA SIG LO	131B
*	AA166	56F 42	56J15-A9	OG DAC MDA SIG LO	
*	AA479R	56E 42	56J21- 57	OG DAC MDA SIG LO	118B
*	AA480W	56E 42	56J21- 59	OG DAC MDA SIG LO	119B
	AA485B	56E 43	SHLD AA485	OG DAC MDA SIG LO	
	AA486B	56E 43	SHLD AA486	OG DAC MDA SIG LO	
*	AA169	56E 43	56J15-A9	OG DAC MDA SIG LO	
*	AA485R	56E 43	56J21- 65	OG DAC MDA SIG LO	126B
*	AA486W	56E 43	56J21- 31	OG DAC MDA SIG LO	127B
	A 14B	56E 44	SHLD A 14	AGC SIG 178 SHLD RET	
	A 15B	56E 44	SHLD A 15	AGC SIG 178 SHLD RET	
	A 16B	56F 44	SHLD A 16	AGC SIG 178 SHLD RET	
	A 27B	56E 44	SHLD A 27	AGC SIG 178 SHLD RET	
	A 156B	56E 44	SHLD A156	AGC SIG 178 SHLD RET	
	A 407B	56E 44	SHLD A407	AGC SIG 178 SHLD RET	
	A 433B	56E 44	SHLD A433	AGC SIG 178 SHLD RET	
	A 434B	56E 44	SHLD A434	AGC SIG 178 SHLD RET	
	A 437B	56E 44	SHLD A437	AGC SIG 178 SHLD RET	

CODE IDENT NO. 99974	SIZE A	1014607	
SCALE-NONE	REV LTR	B	SHEET 014

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 449B	56E 44	SHLD A449	AGC SIG 178 SHLD RET	
	A 566	56E 44	56E 57	AGC SIG 178 SHLD RET	
*	A 440A	56E 44	SHLD A440	AGC SIG 178 SHLD RET	
	AA568	56E 45	56E 46	AGC SIG 180 SHLD RET	
*	AA473	56E 45	56J21- 23	AGC SIG 180 SHLD RET	180
*	AA494A	56E 45	SHLD AA494	AGC SIG 180 SHLD RET	
*	AA495A	56E 45	SHLD AA495	AGC SIG 180 SHLD RET	
*	AA498A	56E 45	SHLD AA498	AGC SIG 180 SHLD RET	
*	AA499A	56E 45	SHLD AA499	AGC SIG 180 SHLD RET	
*	AA467A	56E 46	SHLD AA467	AGC SIG 180 SHLD RET	
*	AA468A	56E 46	SHLD AA468	AGC SIG 180 SHLD RET	
*	AA469A	56E 46	SHLD AA469	AGC SIG 180 SHLD RET	
*	AA470A	56F 46	SHLD AA470	AGC SIG 180 SHLD RET	
*	AA471A	56E 46	SHLD AA471	AGC SIG 180 SHLD RET	
*	AA472A	56E 46	SHLD AA472	AGC SIG 180 SHLD RET	
*	AA568	56E 46	56F 45	AGC SIG 180 SHLD RET	
*	AA474	56E 47	56J21- 22	AGC SIG 179 SHLD RET	179
*	AA475A	56E 47	SHLD AA475	AGC SIG 179 SHLD RET	
*	AA476A	56E 47	SHLD AA476	AGC SIG 179 SHLD RET	
*	AA477A	56E 47	SHLD AA477	AGC SIG 179 SHLD RET	
*	AA478A	56E 47	SHLD AA478	AGC SIG 179 SHLD RET	
*	AA479A	56E 47	SHLD AA479	AGC SIG 179 SHLD RET	
*	AA480A	56E 47	SHLD AA480	AGC SIG 179 SHLD RET	
	A 64B	56E 48	SHLD A 64	0 VDC IMU	
	A 221B	56E 48	SHLD A221	0 VDC IMU	
	A 358B	56E 48	SHLD A358	0 VDC IMU	
*	A 458	56E 48	56TB2-D 5	0 VDC IMU	
	AA496B	56E 50	SHLD AA496	TRUNNION CDU DAC LO	
	AA497B	56E 50	SHLD AA497	TRUNNION CDU DAC LO	
*	AA348	56E 50	56J18-H3	TRUNNION CDU DAC LO	
*	AA496R	56E 50	56J21-236	TRUNNION CDU DAC LO	114B
*	AA497W	56E 50	56J21-198	TRUNNION CDU DAC LO	115B
*	AA243W	56E 51	56J17-H6	TRUNNION CDU DAC LO	
*	AA349	56E 51	56J18-H3	TRUNNION CDU DAC LO	
*	AA498R	56E 51	56J21-231	TRUNNION CDU DAC LO	108B
*	AA499R	56F 51	56J21-191	TRUNNION CDU DAC LO	109B
	AA492B	56E 52	SHLD AA492	SHAFT CDU DAC LO	

CODE IDENT NO. 99974	SIZE A	1014607	
SCALE-NONE	REV LTR	B	SHEET 015

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA 92B	56E 27	SHLD AA 92	0 VDC IMU	
	AA500B	56E 27	SHLD AA500	0 VDC IMU	
*	AA500W	56E 27	56J21-104	0 VDC IMU	155B
*	AA608	56E 27	56TB2-D 4	0 VDC IMU	
	AA503B	56E 28	SHLD AA503	COMPUTER 3200 PPS SYNC RET	
	AA504B	56E 28	SHLD AA504	COMPUTER 3200 PPS SYNC RET	
*	AA 36	56E 28	56J11-M5	COMPUTER 3200 PPS SYNC RET	
*	AA503W	56E 28	56J21-204	COMPUTER 3200 PPS SYNC RET	152B
*	AA504W	56E 28	56J21-242	COMPUTER 3200 PPS SYNC RET	151B
	AA490B	56E 29	SHLD AA490	COMPUTER 25.6 KPPS SYNC RET	
	AA491B	56E 29	SHLD AA491	COMPUTER 25.6 KPPS SYNC RET	
*	AA 69	56E 29	56J12-F2	COMPUTER 25.6 KPPS SYNC RET	
*	AA490R	56E 29	56J21-170	COMPUTER 25.6 KPPS SYNC RET	153B
*	AA491W	56E 29	56J21-137	COMPUTER 25.6 KPPS SYNC RET	154B
*	AA226A	56E 30	SHLD AA226	0 VDC IMU	
*	AA227A	56E 30	SHLD AA227	0 VDC IMU	
*	AA232A	56E 30	SHLD AA232	0 VDC IMU	
	AA232B	56E 31	SHLD AA232	0 VDC IMU	
*	AA 67	56E 31	56J12-F1	COMPUTER 800 PPS SYNC RET	
*	AA 91	56E 31	56J12-R4	0 VDC IMU	
*	AA232W	56E 31	56J16-L3	COMPUTER 800 PPS SYNC RET	
	AA129W	56E 33	56J21- 66	0 VDC IMU	142A
	AA130R	56E 33	56J21- 32	0 VDC IMU	143A
	AA131W	56E 33	56J21-239	0 VDC IMU	144A
	AA132W	56E 33	56J21-201	0 VDC IMU	145A
	AA134R	56E 33	56J21-167	0 VDC IMU	146A
	AA135W	56E 33	56J21-134	0 VDC IMU	147A
*	AA137	56E 33	56J14-R6	0 VDC IMU	
*	AA 77	56E 34	56J12-R5	0 VDC IMU	
*	AA125	56E 34	56J13-R6	0 VDC IMU	
*	AA501R	56E 34	56J21-133	0 VDC IMU	139B
*	AA502R	56F 34	56J21-100	0 VDC IMU	140B
*	AA158	56E 35	56J15-L5	COMPUTER RET	
*	AA467R	56E 35	56J21-125	COMPUTER RET	132A
*	AA468R	56E 35	56J21- 92	COMPUTER RET	133A
*	AA159	56E 36	56J15-L5	COMPUTER RET	
*	AA469R	56E 36	56J21-194	COMPUTER RET	134A

CODE IDENT NO. 99974	SIZE A	1014607	
SCALE-NONE	REV LTR	B	SHEET 013

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA493B	56E 52	SHLD AA493	SHAFT CDU DAC LO	
*	AA346	56F 52	56J18-H2	SHAFT CDU DAC LO	
*	AA492R	56E 52	56J21-164	SHAFT CDU DAC LO	116B
*	AA493W	56E 52	56J21-131	SHAFT CDU DAC LO	117B
*	AA242W	56E 53	56J17-H4	SHAFT CDU DAC LO	
*	AA347	56E 53	56J18-H2	SHAFT CDU DAC LO	
*	AA494R	56E 53	56J21-157	SHAFT CDU DAC LO	110B
*	AA495R	56E 53	56J21-124	SHAFT CDU DAC LO	111B
	A 155R	56E 55	56TB2-F 3		
	A 156R	56E 55	56J21-229		164B
*	A 406	56E 56	56J09- 60	AGC COMMON	
*	A 415	56E 56	56J09- 42	AGC COMMON	
*	A 420	56F 56	56J09- 36	AGC COMMON	
*	A 440W	56E 56	56J21-119	AGC COMMON	101A
	AA488B	56F 57	SHLD AA488	AGC SIG 178 SHLD RET	
	AA561	56E 57	56TB2-D 3	AGC SIG 178 SHLD RET	
*	A 566	56E 57	56F 44	AGC SIG 178 SHLD RET	
*	AA489A	56E 57	SHLD AA489	AGC SIG 178 SHLD RET	
*	AA562	56E 57	56J21- 53	AGC SIG 178 SHLD RET	178
	A 407R	56E 58	56J21- 17		105B
	A 433R	56E 58	56J21- 87		102B
	A 434R	56E 58	56J21- 89		103B
	A 437R	56E 58	56J21- 55		104B
*	A 440R	56E 58	56J21-120		101B
*	A 449W	56E 58	56J21- 19		106B
	AA176R	56E 59	56TB2-F 3		
*	AA488R	56E 59	56J21-189		160B
*	AA489R	56E 60	56J21-153		158B
*	AA569R	56E 60	56TB2-F 3		
	A 13R	56E 61	56TB2-F 3		
	A 14R	56F 61	56J21-155		159B
	A 15R	56E 61	56J21-223		161B
	A 16R	56F 61	56J21-227		163B
	A 27R	56E 61	56J21-225		162B
*	A 570	56E 62	56J10- 1	GROUP 2 SHIELD	245
*	A 571	56E 63	56J21-107	GROUP 2 SHIELD	245
*	A 568	56E 64	56J21-187	GROUP 3 SHIELD	250

CODE IDENT NO. 99974	SIZE A	1014607	
SCALE-NONE	REV LTR	B	SHEET 016

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA199R	56J16-D4	56TB2-G 6	MG CDU ERROR SIG RET	
	AA200R	56J16-D4	56TB2-G 7	MG CDU ERROR SIG RET	
	AA201R	56J16-D4	56TB2-G 8	MG CDU ERROR SIG RET	
	AA206W	56J16-D5	56TB2-N 1	OG CDU 1/2X ERROR SIG	
	AA206R	56J16-D6	56TB2-R 1	OG CDU ERROR SIG RET	
	AA207R	56J16-D6	56TB2-R 2	OG CDU ERROR SIG RET	
	AA208W	56J16-D6	56TB2-R 3	OG CDU ERROR SIG RET	
	AA209R	56J16-D7	56TB2-W 3	COS AOG 16X S1	
	AA213W	56J16-D8	56TB2-X 3	SIN AOG 16X S2	
	AA213R	56J16-D9	56TB2-W 2	SIN AOG 16X S4	
	AA216	56J16-F2	56TB2-W 1	IG CDU 1X RSVR LOAD	
	AA217	56J16-F4	56TB2-X 1	MG CDU 1X RSVR LOAD	
	AA219	56J16-F5	56TB2-T 1	OG CDU 16X RSVR LOAD	
	AA218	56J16-F6	56TB2-U 1	OG CDU 1X RSVR LOAD	
	AA209W	56J16-F7	56TB2-W 4	COS AOG 16X S3	
	AA209L	56J16-F8	56TB2-X 4	COS AOG 16X TO CDU	
	AA213L	56J16-F9	56TB2-X 2	SIN AOG 16X TO CDU	
	AA230W	56J16-G1	56TB2-W 6	COS AIG 16X S3	
	AA230L	56J16-G2	56TB2-W 7	COS AIG 16X TO CDU	
	AA231W	56J16-G3	56TB2-U 5	COS AMG 16X S3	
	AA231L	56J16-G4	56TB2-U 4	COS AMG 16X TO CDU	
	AA230R	56J16-H1	56TB2-X 7	COS AIG 16X S1	
	AA231R	56J16-H3	56TB2-T 5	COS AMG 16X S1	
	AA220	56J16-L1	56J22-228	FINE ALIGN RELAY CONTROL	
*	AA184	56J16-L1	56J15-H4	FINE ALIGN RELAY CONTROL	
*	AA183	56J16-L2	56J15-S1	ZERO ENCODER RELAY CONTROL	
	AA226W	56J16-L3	56J21- 35	COMPUTER 800 PPS SYNC RET	150B
	AA227W	56J16-L3	56J21- 68	COMPUTER 800 PPS SYNC RET	149A
	AA232W	56J16-L3	56E 31	COMPUTER 800 PPS SYNC RET	
	AA226R	56J16-L4	56J21- 34	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
	AA232L	56J16-L4	56J12-D1	COMPUTER 800 PPS OUT OF PHASE SYNC	
	AA221	56J16-M1	56TB2-R 4	ENTRY RELAY CONTROL	
*	AA 56	56J16-M2	56J12-H5	IG CDU FAILURE INDICATION	
*	AA 57	56J16-M3	56J12-H6	MG CDU FAILURE INDICATION	
	AA227R	56J16-M4	56J21- 69	COMPUTER 800 PPS IN PHASE SYNC	149B
	AA232R	56J16-M4	56J12-D2	COMPUTER 800 PPS IN PHASE SYNC	
	AA215W	56J16-N1	56TB2-K 6	OG CDU MDA OUTPUT	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 050

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA215R	56J16-N2	56TB2-K 5	OG CDU MDA OUTPUT
*	AA 58	56J16-N3	56J12-G6	OG CDU FAILURE INDICATION
	AA234	56J16-N4	56J17-L6	STRUCTURE GND
*	AA187	56J16-N4	56J15-K3	STRUCTURE GND
	AA191R	56J16-N5	56J20-L3	800 CPS 28 V 1 PCT LO OPTICS
	AA224R	56J16-N5	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
	AA233R	56J16-N5	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA192R	56J16-N6	56J20-M4	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA225R	56J16-N6	56TB2-L 8	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA198R	56J16-P1	56TB2-L 6	IG CDU MDA OUTPUT
	AA223	56J16-P2	56TB2-K 4	0 VDC IMU
	AA203R	56J16-P3	56TB2-K 3	MG CDU MDA OUTPUT
	AA222W	56J16-P4	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
	AA191W	56J16-P5	56J20-K3	800 CPS 28 V 1 PCT HI OPTICS
	AA224W	56J16-P5	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
	AA233W	56J16-P5	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA192W	56J16-P6	56J20-L4	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA225W	56J16-P6	56TB2-N 4	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA198W	56J16-R1	56TB2-L 5	IG CDU MDA OUTPUT
*	AA 59	56J16-R2	56J12-G5	0 VDC IMU
	AA203W	56J16-R3	56TB2-L 3	MG CDU MDA OUTPUT
	AA222K	56J16-R4	56TB2-H 5	ZEROING RSVR 800 CPS
	AA228	56J16-R5	56TB3-L20	0 VDC OPTICS
	AA229	56J16-R6	56TB3-L20	0 VDC OPTICS
	AA210	56J16-S1	56TB2-N 5	+28 VDC IMU FOR IG MDA
	AA193	56J16-S2	56J20-K2	+28 VDC IMU
*	AA186	56J16-S2	56J15-S6	+28 VDC IMU
	AA222L	56J16-S3	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	AA185R	56J16-S3	56J15-P5	800 CPS 28 V 1 PCT LO IMU
	AA222R	56J16-S4	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	AA185W	56J16-S4	56J15-P6	800 CPS 28 V 1 PCT HI IMU
	AA189	56J16-S5	56J20-N5	+28 VDC OPTICS
	AA190	56J16-S6	56J20-N6	+28 VDC OPTICS
	AA211	56J16-T1	56TB2-R 5	+28 VDC IMU FOR MG MDA
	AA212	56J16-T2	56TB2-K 8	+28 VDC IMU FOR OG MDA

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 051

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA197R	56J16-A1	56TB2-U 6	IG CDU MDA TACH SIG
	AA197W	56J16-A2	56TB2-T 6	IG CDU MDA SLEW SIG
	AA202R	56J16-A3	56TB2-W 5	MG CDU MDA TACH SIG
	AA202W	56J16-A4	56TB2-X 5	MG CDU MDA SLEW SIG
	AA214R	56J16-A5	56TB2-N 6	OG CDU MDA TACH SIG
	AA214W	56J16-A6	56TB2-R 6	OG CDU MDA SLEW SIG
*	AA489W	56J16-A7	56J21-152	ZERO ENCODER MODE INDICATION TO AGC 158A
	AA205W	56J16-A8	56TB2-U 7	SIN AOG 1X S2
	AA205R	56J16-A9	56TB2-U 8	SIN AOG 1X S4
	AA197L	56J16-B1	56TB2-T 7	IG CDU MDA INPUT RET
*	AA180W	56J16-B1	56J15-A5	IG DAC MDA SIG LO
*	AA197A	56J16-B1	SHLD AA197	IG CDU MDA INPUT RET
*	AA180R	56J16-B2	56J15-A4	IG DAC MDA SIG HI
	AA202L	56J16-B3	56TB2-X 6	MG CDU MDA INPUT RET
*	AA181W	56J16-B3	56J15-A7	MG DAC MDA SIG LO
*	AA202A	56J16-B3	SHLD AA202	MG CDU MDA INPUT RET
*	AA181R	56J16-B4	56J15-A6	MG DAC MDA SIG HI
	AA214L	56J16-B5	56TB2-R 7	OG CDU MDA INPUT RET
*	AA182W	56J16-B5	56J15-A9	OG DAC MDA SIG LO
*	AA214A	56J16-B5	SHLD AA214	OG CDU MDA INPUT RET
*	AA182R	56J16-B6	56J15-A8	OG DAC MDA SIG HI
*	AA569W	56J16-B7	56TB2-D 2	AGC COM
	AA204W	56J16-B8	56TB2-N 8	COS AOG 1X S3
	AA205L	56J16-B9	56TB2-T 8	SIN AOG 1X TO CDU
	AA196W	56J16-C1	56TB2-H 1	IG CDU 16X ERROR SIG
	AA195W	56J16-C2	56TB2-H 2	IG CDU 1X ERROR SIG
	AA201W	56J16-C3	56TB2-H 8	MG CDU 16X ERROR SIG
	AA200W	56J16-C4	56TB2-H 7	MG CDU 1X ERROR SIG
	AA208R	56J16-C5	56TB2-N 3	OG CDU 16X ERROR SIG
	AA207W	56J16-C6	56TB2-N 2	OG CDU 1X ERROR SIG
	AA204R	56J16-C8	56TB2-N 7	COS AOG 1X S1
	AA204L	56J16-C9	56TB2-R 8	COS AOG 1X TO CDU
	AA194W	56J16-D1	56TB2-H 3	IG CDU 1/2X ERROR SIG
	AA194R	56J16-D2	56TB2-G 3	IG CDU ERROR SIG RET
	AA195R	56J16-D2	56TB2-G 2	IG CDU ERROR SIG RET
	AA196R	56J16-D2	56TB2-G 1	IG CDU ERROR SIG RET
	AA199W	56J16-D3	56TB2-H 6	MG CDU 1/2X ERROR SIG

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 049

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 11W	56J17-A1	56J11-C3	OG CDU ATTITUDE STEERING ERROR
*	AA571W	56J17-A2	56TB2-N 3	OG CDU 16X ERROR SIG
	AA287W	56J17-A3	56J22- 1	ROLL ERROR BODY OFFSET AXIS HI
	AA244W	56J17-A4	56J22- 3	ROLL ERROR BODY AXIS HI
	AA281W	56J17-A6	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1
	AA281R	56J17-A7	56TB3-T 3	TRUNNION CDU ENCODER COM
	AA281L	56J17-A8	56TB3-T 2	TRUNNION CDU ENCODER PHASE 2
	AA285	56J17-A9	56TB3-M 3	TRUNNION ENCODER PIN 8
*	AA 11R	56J17-B1	56J11-B3	OG CDU ERROR SIG RET
*	AA571R	56J17-B2	56TB2-R 3	OG CDU ERROR SIG RET
	AA287R	56J17-B3	56J22- 39	ROLL ERROR BODY OFFSET AXIS LO
	AA244R	56J17-B4	56J22- 4	ROLL ERROR BODY AXIS LO
	AA268	56J17-B5	56TB3-L 3	IRIG TEMP CONT SENSOR RET
	AA267	56J17-B6	56TB3-L 4	IRIG TEMP CONT SENSOR HI
	AA252	56J17-B7	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
	AA253	56J17-B8	56TB3-G 3	IRIG ZERO DEVIATION CHECK
	AA286	56J17-B9	56TB3-K 4	TRUNNION ENCODER PIN 9
	AA288R	56J17-C1	56J22- 10	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289W	56J17-C1	56TB3-R 1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289R	56J17-C2	56TB3-R 2	PITCH-YAW RSVR S4
	AA246W	56J17-C3	56J22- 45	YAW ERROR BODY OFFSET AXIS HI
	AA245W	56J17-C4	56J22- 6	YAW ERROR BODY AXIS HI
	AA266	56J17-C5	56TB3-K 3	IRIG TEMP IND SENSOR RET
	AA276	56J17-C6	56TB3-H 4	IRIG TEMP IND SENSOR HI
	AA254	56J17-C7	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6
	AA290	56J17-C8	56TB3-L 1	IRIG TEMP GAIN SWITCH NC
	AA284W	56J17-C9	56TB3-T 5	SHAFT CDU ENCODER PHASE 1
	AA288W	56J17-D1	56J22- 48	PITCH ERROR BODY AND BODY OFFSET AXIS HI
	AA247R	56J17-D2	56TB3-R 4	PITCH YAW RSVR S3
	AA246R	56J17-D3	56J22- 46	YAW ERROR BODY OFFSET AXIS LO
	AA247W	56J17-D3	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
	AA245R	56J17-D4	56J22- 43	YAW ERROR BODY AXIS LO
	AA269	56J17-D5	56TB3-M 1	ACCEL TEMP IND SENSOR RET
	AA255	56J17-D6	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
	AA256	56J17-D7	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
	AA251	56J17-D8	56TB3-M 2	IMU TD RELAY C
	AA284R	56J17-D9	56TB3-S 5	SHAFT CDU ENCODER COM

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 052

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 572R	56J01- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 578W	56J01- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 578R	56J01- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 40W	56J01- 6	56TB3-F13	COS AIG 1X RET P1
A 41W	56J01- 7	56TB3-D14	SIN AIG 1X P2
A 573L	56J01- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 573W	56J01- 12	56E 5	ZEROING RSVR 800 CPS
A 572W	56J01- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 50	56J01- 15	56E 8	+28 VDC CDU NOT LOCK
A 48	56J01- 16	56E 6	+28 VDC IMU
A 40R	56J01- 20	56TB3-F14	COS AIG 1X P3
A 41R	56J01- 21	56TB3-D13	SIN AIG 1X RET P4
A 573R	56J01- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 53R	56J01- 28	56E 9	400 CPS VAR ILLUM PWR
A 53W	56J01- 29	56E 10	400 CPS 6 V LO
A 56	56J01- 30	56TB2-N 5	+28 VDC IMU FOR IG MDA
A 52L	56J01- 31	56TB2-L 5	IG CDU MDA OUTPUT
A 52W	56J01- 32	56TB2-L 6	IG CDU MDA OUTPUT
A 55	56J01- 34	56TB2-W 1	IG CDU 1X RSVR LOAD S1
A 39R	56J01- 35	56TB2-H 2	IG CDU 1X ERROR SIG S2
A 54	56J01- 41	56E 12	STRUCTURE GND
A 52R	56J01- 43	56TB2-K 4	0 VDC IMU
A 39W	56J01- 45	56TB2-G 2	IG CDU ERROR SIG RET
A 46R	56J01- 50	56E 4	25.6 KC HI IMU
A 38W	56J01- 57	56TB2-G 3	IG CDU ERROR SIG RET S1
A 46W	56J01- 60	56E 3	25.6 KC LO IMU
A 38R	56J01- 67	56TB2-H 3	IG CDU 1/2X ERROR SIG S3
A 43W	56J01- 86	56TB2-W 7	COS AIG 16X TO CDU
A 44W	56J01- 87	56TB2-C 8	SIN AIG 16X TO CDU
A 42W	56J01- 90	56TB2-G 1	IG CDU ERROR SIG RET
A 51W	56J01- 92	56TB2-T 7	IG CDU MDA INPUT RET
A 45R	56J01- 94	56TB2-A 5	IG CDU ENCODER COM
A 43R	56J01-100	56TB2-W 6	COS AIG 16X S3
A 44R	56J01-101	56TB2-B 8	SIN AIG 16X S4
A 42R	56J01-104	56TB2-H 1	IG CDU 16X ERROR SIG
A 51L	56J01-105	56TB2-T 6	IG CDU MDA SLEW SIG
A 51R	56J01-106	56TB2-U 6	IG CDU MDA TACH SIG

CODE IDENT NO. 99974	SIZE A	1014607	
SCALE-NONE	REV LTR	B	SHEET 018

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 45W	56J01-107	56TB2-B 5	IG CDU ENCODER PHASE 1
A 45L	56J01-108	56TB2-C 5	IG CDU ENCODER PHASE 2

CODE IDENT NO. 99974	SIZE A	1014607	
SCALE-NONE	REV LTR	B	SHEET 019

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 569	56E 65	56J10- 27	GROUP 3 SHIELD	250

CODE IDENT NO. 99974	SIZE A	1014607	
SCALE-NONE	REV LTR	B	SHEET 017

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 574R	56J02- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 579W	56J02- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 579R	56J02- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 64W	56J02- 6	56TB3-N21	COS AMG 1X S1
A 65W	56J02- 7	56TB3-C14	SIN AMG 1X
A 575L	56J02- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 575W	56J02- 12	56E 5	ZEROING RSVR 800 CPS
A 574W	56J02- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 74	56J02- 15	56E 8	+28 VDC CDU NOT LOCK
A 72	56J02- 16	56E 6	+28 VDC IMU
A 64R	56J02- 20	56TB3-N20	COS AMG 1X S3
A 65R	56J02- 21	56TB3-C13	SIN AMG 1X RET
A 575R	56J02- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 77R	56J02- 28	56E 9	400 CPS VAR ILLUM PWR
A 77W	56J02- 29	56E 10	400 CPS 6 V LO
A 80	56J02- 30	56TB2-R 5	+28 VDC IMU FOR MG MDA
A 76L	56J02- 31	56TB2-L 3	MG CDU MDA OUTPUT
A 76W	56J02- 32	56TB2-K 3	MG CDU MDA OUTPUT
A 79	56J02- 34	56TB2-X 1	MG CDU 1X RSVR LOAD
A 63R	56J02- 35	56TB2-H 7	MG CDU 1X ERROR SIG
A 78	56J02- 41	56E 12	STRUCTURE GND
A 76R	56J02- 43	56TB2-K 4	0 VDC IMU
A 63W	56J02- 45	56TB2-G 7	MG CDU ERROR SIG RET
A 70R	56J02- 50	56E 4	25.6 KC HI IMU
A 62W	56J02- 57	56TB2-G 6	MG CDU ERROR SIG RET
A 70W	56J02- 60	56E 3	25.6 KC LO IMU
A 62R	56J02- 67	56TB2-H 6	MG CDU 1/2X ERROR SIG
A 67W	56J02- 86	56TB2-U 4	COS AMG 16X TO CDU
A 68W	56J02- 87	56TB2-C 7	SIN AMG 16X TO CDU
A 66W	56J02- 90	56TB2-G 8	MG CDU ERROR SIG RET
A 75W	56J02- 92	56TB2-X 6	MG CDU MDA INPUT RET
A 69R	56J02- 94	56TB2-C 6	MG CDU ENCODER COM
A 67R	56J02-100	56TB2-U 5	COS AMG 16X S3
A 68R	56J02-101	56TB2-B 7	SIN AMG 16X S4
A 66R	56J02-104	56TB2-H 8	MG CDU 16X ERROR SIG
A 75L	56J02-105	56TB2-X 5	MG CDU MDA SLEW SIG
A 75R	56J02-106	56TB2-W 5	MG CDU MDA TACH SIG

CODE IDENT NO. 99974	SIZE A	1014607	
SCALE-NONE	REV LTR	B	SHEET 020

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 84R	56J03- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 580W	56J03- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 580R	56J03- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 87W	56J03- 6	56TB2-N 7	COS AOG 1X S1
A 88W	56J03- 7	56TB2-U 8	SIN AOG 1X S4
A 576L	56J03- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 576W	56J03- 12	56E 5	ZEROING RSVR 800 CPS
A 84W	56J03- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 582	56J03- 15	56E 8	+28 VDC CDU NOT LOCK
A 581	56J03- 16	56E 6	+28 VDC IMU
A 87R	56J03- 20	56TB2-R 8	COS AOG 1X TO CDU
A 88R	56J03- 21	56TB2-T 8	SIN AOG 1X TO CDU
A 576R	56J03- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 98R	56J03- 28	56E 9	400 CPS VAR ILLUM PWR
A 98W	56J03- 29	56E 10	400 CPS 6 V LO
A 102	56J03- 30	56TB2-K 8	+28 VDC IMU FOR OG MDA
A 97L	56J03- 31	56TB2-K 6	OG CDU MDA OUTPUT
A 97W	56J03- 32	56TB2-K 5	OG CDU MDA OUTPUT
A 100	56J03- 34	56TB2-U 1	OG CDU 1X RSVR LOAD
A 86R	56J03- 35	56TB2-N 2	OG CDU 1X ERROR SIG
A 99	56J03- 41	56E 12	STRUCTURE GND
A 97R	56J03- 43	56TB2-K 4	0 VDC IMU
A 86W	56J03- 45	56TB2-R 2	OG CDU ERROR SIG RET
A 93R	56J03- 50	56E 4	25.6 KC HI IMU
A 85W	56J03- 57	56TB2-R 1	OG CDU ERROR SIG RET
A 93W	56J03- 60	56E 3	25.6 KC LO IMU
A 85R	56J03- 67	56TB2-N 1	OG CDU 1/2X ERROR SIG
A 90W	56J03- 86	56TB2-X 4	COS AOG 16X TO CDU
A 91W	56J03- 87	56TB2-W 2	SIN AOG 16X S4
A 101	56J03- 89	56TB2-T 1	OG CDU 16X RSVR LOAD
A 89W	56J03- 90	56TB2-R 3	OG CDU ERROR SIG RET
A 96W	56J03- 92	56TB2-R 7	OG CDU MDA INPUT RET
A 92R	56J03- 94	56TB2-A 4	OG CDU ENCODER COM
A 90R	56J03-100	56TB2-W 4	COS AOG 16X S3
A 91R	56J03-101	56TB2-X 2	SIN AOG 16X TO CDU
A 89R	56J03-104	56TB2-N 3	OG CDU 16X ERROR SIG
A 96L	56J03-105	56TB2-R 6	OG CDU MDA SLEW SIG

CODE IDENT NO. 99974
SIZE A
1014607
SCALE - NONE
REV LTR B
SHEET 022

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 96R	56J03-106	56TB2-N 6	OG CDU MDA TACH SIG
A 92W	56J03-107	56TB2-B 4	OG CDU ENCODER PHASE 1
A 92L	56J03-108	56TB2-C 4	OG CDU ENCODER PHASE 2

CODE IDENT NO. 99974
SIZE A
1014607
SCALE - NONE
REV LTR B
SHEET 023

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 69W	56J02-107	56TB2-B 6	MG CDU ENCODER PHASE 1
A 69L	56J02-108	56TB2-A 6	MG CDU ENCODER PHASE 2

CODE IDENT NO. 99974
SIZE A
1014607
SCALE - NONE
REV LTR B
SHEET 021

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 104R	56J04- 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 119	56J04- 2	56E 15	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 120	56J04- 3	56TB3-G 6	SHAFT CDU MOTOR EXC
A 110R	56J04- 6	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
A 111R	56J04- 7	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
A 584W	56J04- 11	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 584L	56J04- 12	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 104W	56J04- 14	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 110W	56J04- 20	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
A 111W	56J04- 21	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
A 584R	56J04- 25	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 123R	56J04- 28	56E 9	400 CPS VAR ILLUM PWR
A 123W	56J04- 29	56E 10	400 CPS 6 V LO
A 122L	56J04- 31	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
A 122W	56J04- 32	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
A 109L	56J04- 34	56TB3-T12	SHAFT CDU 1X P1 (S1)
A 109W	56J04- 35	56TB3-S12	SHAFT CDU 1X P2 (S2)
A 124	56J04- 41	56E 12	STRUCTURE GND
A 122R	56J04- 43	56TB3-M20	+28 VDC OPTICS
A 109R	56J04- 45	56TB3-R12	SHAFT CDU 1X P3 (S3)
A 117R	56J04- 50	56E 17	25.6 KC HI OPTICS
A 108W	56J04- 56	56TB3-N14	SHAFT CDU 1/2X COS HI S2
A 107R	56J04- 57	56TB3-K11	SHAFT CDU 1/2X SIN LO S3
A 117W	56J04- 60	56E 16	25.6 KC LO OPTICS
A 108R	56J04- 66	56TB3-N13	SHAFT CDU 1/2X COS LO S4
A 107W	56J04- 67	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 114W	56J04- 86	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
A 115W	56J04- 87	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
A 113	56J04- 89	56TB3-M18	SHAFT CDU 16X LOAD
A 112W	56J04- 90	56TB3-H11	SHAFT CDU 16X ERROR SIG LO
A 121W	56J04- 92	56TB3-L 8	SHAFT CDU TACH LO
A 116R	56J04- 94	56TB3-S 5	SHAFT CDU ENCODER COM
A 114R	56J04-100	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
A 115R	56J04-101	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
A 112R	56J04-104	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
A 121R	56J04-106	56TB3-L 7	SHAFT CDU TACH HI
A 116W	56J04-107	56TB3-T 5	SHAFT CDU ENCODER PHASE 1

CODE IDENT NO. 99974
SIZE A
1014607
SCALE - NONE
REV LTR B
SHEET 024

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA258L	56J17-N5	56TB3-G 2	IMU TEMP CONT K2 PIN 5	
	AA258K	56J17-N6	56TB3-G 1	IMU HTR CURRENT AMP PIN 5	
	AA270R	56J17-P1	56TB3-N 5	IMU CONTROL HTR HI	
*	AA 12R	56J17-P2	56J11-N1	3200 CPS 20 V CT	
*	AA 94W	56J17-P3	56J12-P6	25.6 KC HI OPTICS	
	AA250R	56J17-P4	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA275	56J17-P5	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI	
	AA235	56J17-P6	56TB3-F 3	CONDITION LAMP TEST	
*	AA 13	56J17-R1	56J11-S3	+28 VDC STBY	
*	AA 12L	56J17-R2	56J11-N2	3200 CPS 20 V LO	
*	AA 92W	56J17-R3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
*	AA500R	56J17-R3	56J21-103	COMPUTER 12.8 KPPS SYNC	155A
	AA250W	56J17-R4	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA280	56J17-R5	56TB3-M21	+28 VDC MDV	
	AA282	56J17-R6	56TB3-L21	0 VDC OPTICS	
	AA283	56J17-R6	56J17-S6	0 VDC OPTICS	
	AA291	56J17-S1	56J17-S2	0 VDC IMU	
	AA296	56J17-S1	56TB3-N 3	0 VDC IMU	
	AA248	56J17-S2	56TB3-S 2	0 VDC IMU	
*	AA291	56J17-S2	56J17-S1	0 VDC IMU	
	AA295	56J17-S3	56TB3-N 3	0 VDC IMU	
	AA297	56J17-S4	56TB3-R 3	0 VDC IMU	
*	AA154R	56J17-S5	56J14-P4	+32 VDC RET PIP	
*	AA283	56J17-S6	56J17-R6	0 VDC OPTICS	
	AA238	56J17-T1	56J20-P3	+28 VDC STBY	
	AA294	56J17-T1	56J17-T2	+28 VDC STBY	
	AA239	56J17-T2	56J20-P4	+28 VDC STBY	
*	AA294	56J17-T2	56J17-T1	+28 VDC STBY	
	AA237	56J17-T3	56J20-M2	+28 VDC IMU	
	AA236	56J17-T4	56J20-M1	+28 VDC IMU	
*	AA154W	56J17-T5	56J14-S4	+32 VDC PIP	
	AA240	56J17-T6	56J18-S1	+28 VDC OPTICS	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 054

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
AA308W	56J18-A1	56TB3-S 8	SXT AT 64X RSVR COS HI
AA309W	56J18-A2	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
AA309R	56J18-A3	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
AA313W	56J18-A4	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
AA313R	56J18-A5	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
AA317W	56J18-A6	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
AA316R	56J18-A7	56TB3-L 8	SHAFT CDU TACH LO
AA316W	56J18-A8	56TB3-L 7	SHAFT CDU TACH HI
AA315W	56J18-A9	56TB3-M 8	TRUNION CDU TACH HI
AA308R	56J18-B1	56TB3-S 7	SXT AT 64X RSVR COS LO
AA307R	56J18-B2	56TB3-T 7	SXT AT 64X RSVR SIN HI
AA310W	56J18-B3	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
AA310R	56J18-B4	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
AA314W	56J18-B5	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
AA317R	56J18-B6	56TB3-L11	TRUNNION CDU 1/2X RSVR P3
AA300W	56J18-B8	56J19-C2	TRUNNION CDU 16X ERROR SIG HI
AA329W	56J18-B8	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
AA315R	56J18-B9	56TB3-M 7	TRUNION CDU TACH LO
AA312R	56J18-C1	56TB3-R11	SXT AS 16X RSVR COS HI
AA307W	56J18-C2	56TB3-T 8	SXT AT 64X RSVR SIN LO
AA314R	56J18-C5	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
AA334W	56J18-C6	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
AA335W	56J18-C7	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI
AA300R	56J18-C8	56J19-B2	TRUNNION CDU 16X ERROR SIG LO
AA329R	56J18-C8	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
AA301W	56J18-C9	56J19-B4	SHAFT CDU 16X ERROR SIG HI
AA331W	56J18-C9	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
AA312W	56J18-D1	56TB3-R10	SXT AS 16X RSVR COS LO
AA311W	56J18-D2	56TB3-R 8	SXT AS 16X RSVR SIN HI
AA311R	56J18-D3	56TB3-R 7	SXT AS 16X RSVR SIN LO
AA338R	56J18-D4	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
AA338W	56J18-D5	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
AA334R	56J18-D6	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
AA335R	56J18-D7	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
AA326W	56J18-D8	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
AA301R	56J18-D9	56J19-B3	SHAFT CDU 16X ERROR SIG LO
AA331R	56J18-D9	56TB3-H11	SHAFT CDU 16X ERROR SIG LO

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 055

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA274	56J17-F3	56TB3-D 5	HTR CURRENT (TELEMETRY)
	AA273	56J17-F4	56TB3-C 5	IRIG TEMP (TELEMETRY)
	AA272	56J17-F5	56TB3-D 4	ACCEL TEMP (TELEMETRY)
	AA271	56J17-F6	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
	AA257	56J17-F7	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
	AA249	56J17-F8	56TB3-L 2	IMU TD RELAY NO
	AA284L	56J17-F9	56TB3-S 4	SHAFT CDU ENCODER PHASE 2
	AA261	56J17-G1	56TB3-K 5	IMU TEMP ALARM AMP PIN 14
	AA262	56J17-G2	56TB3-H 5	IMU TEMP ALARM AMP PIN 15
	AA242R	56J17-G4	56J18-L1	SHAFT CDU ENCODER + DELTA THETA
	AA243R	56J17-G6	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA
	AA259	56J17-H1	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
	AA260	56J17-H2	56TB3-K 1	IMU TEMP ALARM AMP PIN 5
	AA242W	56J17-H4	56E 53	SHAFT CDU DAC LO
	AA243W	56J17-H6	56E 51	TRUNNION CDU DAC LO
	AA242L	56J17-K4	56J18-K1	SHAFT CDU ENCODER - DELTA THETA
	AA243L	56J17-K6	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA
	AA263	56J17-L1	56TB3-L 5	IMU TEMP CONT K2 PIN 6
	AA279	56J17-L2	56TB3-F 2	MAIN PANEL CONDITION LAMP TEST
*	AA 93	56J17-L2	56J12-H3	MAIN PANEL CONDITION LAMP TEST
	AA293	56J17-L3	56J22-243	IMU TEMP LIGHT (MAIN PANEL)
*	AA188R	56J17-L4	56J15-R5	+120 VDC RET PIP
*	AA188W	56J17-L5	56J15-S5	+120 VDC PIP
	AA241	56J17-L6	56J18-R5	STRUCTURE GND
*	AA234	56J17-L6	56J16-N4	STRUCTURE GND
	AA264	56J17-M1	56TB3-D 1	0 VDC IMU
	AA277	56J17-M2	56TB3-G 5	IMU TEMP SENSOR COM
	AA278	56J17-M3	56TB3-F 1	0 VDC SPACECRAFT
	AA292	56J17-M3	56J22-206	0 VDC SPACECRAFT
*	AA 97	56J17-M3	56J12-F3	0 VDC SPACECRAFT
	AA265W	56J17-M4	56TB3-N 1	IMU EMERGENCY HTR HI
	AA258W	56J17-M5	56TB3-H 2	IMU TEMP CONT K1 PIN 3
	AA258R	56J17-M6	56TB3-H 1	IMU TEMP CONT AMP PIN 5
	AA270W	56J17-N1	56TB3-N 4	IMU CONTROL HTR LO
*	AA 12W	56J17-N2	56J11-P1	3200 CPS 20 V HI
*	AA 94R	56J17-N3	56J12-N6	25.6 KC LO OPTICS
	AA265R	56J17-N4	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 053

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA299W	56J18-F1	56J19-D4	TRUNNION CDU 1/4X SIN HI	
	AA330W	56J18-F1	56TB3-G10	TRUNNION CDU 1/4X SIN HI	
	AA299R	56J18-F2	56J19-F4	TRUNNION CDU 1/4X SIN LO	
	AA330R	56J18-F2	56TB3-F10	TRUNNION CDU 1/4X SIN LO	
	AA318W	56J18-F3	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI	
	AA318R	56J18-F4	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO	
	AA336W	56J18-F6	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
	AA336R	56J18-F7	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
	AA326R	56J18-F8	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
	AA326L	56J18-F9	56TB3-M11	RSVR DRIVE AMP INPUT LO	
	AA332W	56J18-G1	56TB3-K10	SHAFT CDU 1/2X SIN HI S1	
	AA345W	56J18-G2	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
	AA344W	56J18-G3	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
	AA302K	56J18-G5	56J19-H6	COSECANT AMP FEEDBACK SIG HI	
	AA302W	56J18-G6	56J19-G6	COSECANT AMP OUTPUT HI	
	AA332R	56J18-H1	56TB3-K11	SHAFT CDU 1/2X SIN LO S3	
	AA345R	56J18-H2	56TB3-F 8	SHAFT CDU DAC LO	
	AA346	56J18-H2	56E 52	SHAFT CDU DAC LO	
	AA347	56J18-H2	56E 53	SHAFT CDU DAC LO	
	AA344R	56J18-H3	56TB3-F 7	TRUNNION CDU DAC LO	
	AA348	56J18-H3	56E 50	TRUNNION CDU DAC LO	
	AA349	56J18-H3	56E 51	TRUNNION CDU DAC LO	
	AA302L	56J18-H5	56J19-H5	SHAFT CDU MDA COSECANT SIG	
	AA302R	56J18-H6	56J19-G5	COSECANT AMP FEEDBACK SIG LO	
*	AA242L	56J18-K1	56J17-K4	SHAFT CDU ENCODER - DELTA THETA	
*	AA495W	56J18-K1	56J21-123	SHAFT CDU ENCODER - DELTA THETA	111A
*	AA492W	56J18-K2	56J21-163	SHAFT CDU + DELTA THETA COMMAND	116A
*	AA496W	56J18-K3	56J21-235	TRUNNION CDU + DELTA THETA COMMAND	114A
*	AA243L	56J18-K4	56J17-K6	TRUNNION CDU ENCODER - DELTA THETA	
*	AA499W	56J18-K4	56J21-190	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA328W	56J18-K6	56TB3-T12	SHAFT CDU 1X P1 (S1)	
*	AA242R	56J18-L1	56J17-G4	SHAFT CDU ENCODER + DELTA THETA	
*	AA494W	56J18-L1	56J21-156	SHAFT CDU ENCODER + DELTA THETA	110A
*	AA493R	56J18-L2	56J21-130	SHAFT CDU - DELTA THETA COMMAND	117A
*	AA497R	56J18-L3	56J21-197	TRUNNION CDU - DELTA THETA COMMAND	115A
*	AA243R	56J18-L4	56J17-G6	TRUNNION CDU ENCODER + DELTA THETA	
*	AA498W	56J18-L4	56J21-230	TRUNNION CDU ENCODER + DELTA THETA	108A

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 056

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 586R	56J05- 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 142	56J05- 2	56E 15	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 143	56J05- 3	56TB3-F 6	TRUNNION CDU MOTOR EXC
A 585R	56J05- 4	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130R	56J05-. 8	56TB3-G10	TRUNNION CDU 1/4X SIN HI
A 131R	56J05- 9	56TB3-F16	TRUNNION CDU 1/4X COS HI
A 131W	56J05- 10	56TB3-G16	TRUNNION CDU 1/4X COS LO
A 133	56J05- 11	56E 18	TRUNNION CDU 1/2X RSVR P3
A 132R	56J05- 12	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
A 586W	56J05- 14	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 585L	56J05- 17	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 585W	56J05- 18	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130W	56J05- 22	56TB3-F10	TRUNNION CDU 1/4X SIN LO
A 149	56J05- 25	56E 18	TRUNNION CDU 1/2X RSVR P3
A 146R	56J05- 28	56E 9	400 CPS VAR ILLUM PWR
A 146W	56J05- 29	56E 10	400 CPS 6 V LO
A 145L	56J05- 31	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
A 145W	56J05- 32	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
A 147	56J05- 41	56E 12	STRUCTURE GND
A 145R	56J05- 43	56TB3-M20	+28 VDC OPTICS
A 583R	56J05- 50	56E 17	25.6 KC HI OPTICS
A 148R	56J05- 56	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI
A 583W	56J05- 60	56E 16	25.6 KC LO OPTICS
A 148W	56J05- 66	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO
A 134W	56J05- 67	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
A 134R	56J05- 68	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
A 137W	56J05- 86	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
A 138W	56J05- 87	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
A 136	56J05- 89	56TB3-N18	TRUNNION CDU 16X LOAD
A 135W	56J05- 90	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
A 144W	56J05- 92	56TB3-M 7	TRUNION CDU TACH LO
A 139R	56J05- 94	56TB3-T 3	TRUNNION CDU ENCODER COM
A 137R	56J05-100	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
A 138R	56J05-101	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
A 135R	56J05-104	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
A 144R	56J05-106	56TB3-M 8	TRUNION CDU TACH HI
A 139W	56J05-107	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR B
SHEET 026

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 139L	56J05-108	56TB3-T 2	TRUNNION CDU ENCODER PHASE 2

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR B
SHEET 027

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 116L	56J04-108	56TB3-S 4	SHAFT CDU ENCODER PHASE 2

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR B
SHEET 025

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 150R	56J06- 1	56P01- 1	PITCH ATTITUDE ERROR METER +
A 150W	56J06- 2	56P01- 2	PITCH ATTITUDE ERROR METER -
A 161	56J06- 6	56P01- 6	ENTRY RELAY CONTROL RESET
A 160	56J06- 9	56P01- 9	MODE SWITCH INTERLOCK
A 154	56J06- 12	56TB1-K 7	MODE RELAY COMMON TO AGC
A 151R	56J06- 14	56P01- 14	YAW ATTITUDE ERROR METER +
A 151W	56J06- 15	56P01- 15	YAW ATTITUDE ERROR METER -
A 157	56J06- 18	56P01- 18	MODE RELAY COMMON TO D AND C ELECT
A 175	56J06- 22	56P01- 22	ATTITUDE CONTROL MODE LIGHT
A 165	56J06- 23	56P01- 23	FINE ALIGN RELAY CONTROL
A 166	56J06- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
A 167	56J06- 25	56P01- 25	ENTRY RELAY CONTROL
A 152W	56J06- 28	56P01- 28	ROLL ATTITUDE ERROR METER -
A 152R	56J06- 29	56P01- 29	ROLL ATTITUDE ERROR METER +
A 162	56J06- 34	56P01- 34	ZERO ENCODER RELAY CONTROL
A 163	56J06- 35	56P01- 35	COARSE ALIGN RELAY CONTROL
A 164	56J06- 36	56P01- 36	CDU MANUAL RELAY CONTROL
A 159	56J06- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL
A 177	56J06- 46	56P01- 46	ATTITUDE CONTROL MODE INTERLOCK
A 170	56J06- 56	56P01- 56	MANUAL ALIGN
A 155W	56J06- 68	56TB2-D 2	AGC COM
A 156W	56J06- 69	56J21-228	TRANSFER SWITCH INDICATION TO AGC 164A
A 169	56J06- 78	56TB2-L 4	0 VDC IMU
A 176	56J06- 79	56P01- 79	ENTRY MODE LIGHT
A 158	56J06- 81	56TB1-F 8	ATTUT CONT MODE COMMAND FROM AGC
A 178	56J06- 91	56TB3-F22	STRUCTURE GND
A 172	56J06- 92	56P01- 92	COARSE ALIGN MODE LIGHT
A 168	56J06- 93	56P01- 93	MODE RELAY COMMON
A 174	56J06- 94	56P01- 94	FINE ALIGN MODE LIGHT
A 171	56J06-104	56P01-104	ZERO ENCODER MODE LIGHT
A 173	56J06-105	56P01-105	CDU MANUAL MODE LIGHT
A 153W	56J06-107	56TB1-S 2	400 CPS VAR ILLUM PWR
A 153R	56J06-108	56TB1-S 1	400 CPS 6 V LO

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR B
SHEET 028

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 214	56J08- 82	56TB2-D 6	0 VDC IMU
A 201	56J08- 83	56E 20	0 VDC IMU
A 191	56J08- 84	56E 20	0 VDC IMU
A 211	56J08- 92	56TB1-S 5	0 VDC IMU
A 185	56J08- 93	56TB2-S 4	STEP-DOWN-R
A 199	56J08- 95	56TB3-B14	400 CPS 26 V LO
A 183	56J08-106	56TB2-S 6	STEP-UP-R

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 030

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 429	56J09- 1	56TB3-N15	0 VDC OPTICS	
A 392	56J09- 2	56TB3-M 3	TRUNNION ENCODER PIN 8	
A 389W	56J09- 3	56J22-193	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 387W	56J09- 4	56J22-233	PITCH ATTIT IMPULSE CONTR OUTPUT UP	
A 387L	56J09- 5	56J22-232	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN	
A 388L	56J09- 6	56J22-197	YAW ATTIT IMPULSE CONTR OUTPUT LEFT	
A 388R	56J09- 7	56J22-235	YAW ATTIT IMPULSE CONTR INPUT	
A 425R	56J09- 10	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI	
A 389R	56J09- 16	56J22-230	ROLL ATTIT IMPULSE CONTR INPUT	
A 389L	56J09- 17	56J22-192	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT	
A 387R	56J09- 18	56J22-195	PITCH ATTIT IMPULSE CONTR INPUT	
A 426R	56J09- 19	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI	
A 388W	56J09- 20	56J22-198	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 391	56J09- 21	56TB3-K 4	TRUNNION ENCODER PIN 9	
A 425W	56J09- 23	56TB3-M11	RSVR DRIVE AMP INPUT LO	
A 425L	56J09- 24	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
A 437W	56J09- 25	56J21- 54	OPTICS ZERO ENCODER	104A
A 450	56J09- 26	56TB2-D 6	0 VDC IMU	
* A 453	56J09- 29	56P10- 10	GIMBAL LOCK LIGHT CONDITION LAMP TEST	
A 433W	56J09- 30	56J21- 86	MARK	102A
A 434W	56J09- 31	56J21- 88	NOT MARK	103A
A 431R	56J09- 32	56TB2-A 2	PANEL BRIGHTNESS CONTROL	
A 426W	56J09- 33	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO	
A 427W	56J09- 34	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
A 427R	56J09- 35	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
A 420	56J09- 36	56E 56	AGC COMMON	
A 449R	56J09- 37	56J21- 18	OPTICS MODE SW COMPUTER INDICATION	106A
A 423	56J09- 38	56TB3-G 6	SHAFT CDU MOTOR EXC	
A 393W	56J09- 40	56J22-200	0 VDC FROM NAA	
A 393R	56J09- 41	56J22-237	+28 VDC FROM NAA	
A 415	56J09- 42	56E 56	AGC COMMON	
A 431W	56J09- 44	56TB2-A 1	PANEL BRIGHTNESS CONTROL	
A 419W	56J09- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY	
A 421W	56J09- 47	56TB3-F 7	TRUNNION CDU DAC LO	
A 422R	56J09- 48	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
A 424	56J09- 49	56TB3-F 6	TRUNNION CDU MOTOR EXC	
A 393L	56J09- 50	56J22-238	ATTITUDE DISABLE SIG TO NAA	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 031

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 208	56J08- 17	56E 19	0 VDC IMU
A 202	56J08- 18	56TB2-S 8	GIMBAL LOCK LIGHT HI
A 180K	56J08- 19	56TB1-S 2	400 CPS 6 V LO
A 205	56J08- 28	56E 19	0 VDC IMU
A 215	56J08- 29	56TB3-F22	STRUCTURE GND
A 204	56J08- 30	56E 19	0 VDC IMU
A 194	56J08- 31	56E 19	0 VDC IMU
A 207	56J08- 32	56J22- 71	MASTER WARNING LIGHT LO
A 210R	56J08- 35	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
A 180W	56J08- 36	56TB1-T 2	400 CPS 6 V LO
A 203	56J08- 41	56TB3-B 4	ZERO ENCODER LIGHT HI
A 193	56J08- 42	56TB1-U 2	IMU DELAY LIGHT HI
A 206	56J08- 43	56J22- 72	MASTER WARNING LIGHT HI
A 210W	56J08- 45	56TB3-L 6	400 CPS 0.5 V PI PHASE
A 180L	56J08- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY
A 565	56J08- 50	56TB2-T 3	SPARE FAIL LIGHT HI
A 187	56J08- 51	56TB1-H 8	ERROR DETECT LIGHT HI
A 212	56J08- 52	56E 19	0 VDC IMU
A 196	56J08- 53	56J22- 38	MASTER ALARM LIGHT HI
A 197	56J08- 54	56J22- 37	MASTER ALARM LIGHT LO
A 180R	56J08- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY
A 188	56J08- 60	56TB3-S 6	IMU FAIL LIGHT HI
A 189	56J08- 61	56E 20	0 VDC IMU
A 192	56J08- 62	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 213	56J08- 63	56E 20	0 VDC IMU
A 209R	56J08- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED
A 181	56J08- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 400 CPS
A 179	56J08- 67	56TB2-S 3	+28 VDC MDV
A 182R	56J08- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC
A 195	56J08- 70	56E 19	0 VDC IMU
A 198	56J08- 71	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 200	56J08- 72	56TB3-B 3	CDU FAIL LIGHT HI
A 190	56J08- 73	56TB3-B 2	ACCEL FAIL LIGHT HI
A 209W	56J08- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED
A 184	56J08- 78	56TB2-S 7	STEP-UP-C
A 186	56J08- 79	56TB2-S 5	STEP-DOWN-C
A 182W	56J08- 81	56TB3-B12	400 CPS 26 V SLEW

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 029

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 435	56J09- 51	56TB3-M22	+28 VDC MDV	
A 432K	56J09- 52	56P10-108	400 CPS 6 V LO	
A 432L	56J09- 53	56P10-107	400 CPS 6 V HI	
A 430R	56J09- 54	56TB1-R 1	400 CPS VAR ILLUM PWR	
A 419R	56J09- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY	
A 421R	56J09- 56	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
A 422W	56J09- 57	56TB3-F 8	SHAFT CDU DAC LO	
A 405	56J09- 58	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 404	56J09- 59	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 406	56J09- 60	56E 56	AGC COMMON	
A 432R	56J09- 61	56P10-106	400 CPS 5.5 V HI	
A 432W	56J09- 62	56P10- 93	400 CPS 5.5 V HI	
A 430K	56J09- 63	56TB1-M 1	400 CPS 5.5V HI TO PANEL BRIGHTNESS CONT	
A 430L	56J09- 64	56TB1-N 1	400 CPS 5.5V HI TO PANEL BRIGHTNESS CONT	
A 448R	56J09- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED	
A 408	56J09- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 400 CPS	
A 410	56J09- 67	56TB2-S 3	+28 VDC MDV	
A 409R	56J09- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC	
A 416W	56J09- 69	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS	
A 407W	56J09- 70	56J21- 16	SXT PWR ON INDICATION TO AGC	105A
A 445	56J09- 71	56TB3-M20	+28 VDC OPTICS	
A 394	56J09- 72	56TB3-B11	ZERO OPTICS RELAY CONTROL	
A 390	56J09- 73	56TB3-F 3	CONDITION LAMP TEST	
A 403	56J09- 74	56TB3-H 5	IMU TEMP ALARM AMP PIN 15	
A 444	56J09- 75	56TB3-K 5	IMU TEMP ALARM AMP PIN 14	
A 400	56J09- 76	56TB3-L 5	IMU TEMP CONT K2 PIN 6	
A 448W	56J09- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED	
A 414	56J09- 78	56TB2-S 7	STEP-UP-C	
A 412	56J09- 79	56TB2-S 5	STEP-DOWN-C	
A 416R	56J09- 80	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS	
A 409W	56J09- 81	56TB3-B12	400 CPS 26 V SLEW	
A 417	56J09- 82	56TB3-D 6	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD	
A 436	56J09- 83	56TB3-L15	0 VDC OPTICS	
A 430W	56J09- 84	56TB1-K 1	MODE LAMP TEST PWR	
A 442	56J09- 85	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6	
A 398	56J09- 86	56TB3-L 1	IRIG TEMP GAIN SWITCH NC	
A 401L	56J09- 87	56TB3-H 1	IMU TEMP CONT AMP PIN 5	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 032

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA339	56J18-S5	56J18-T5	0 VDC OPTICS
	AA304R	56J18-S6	56J19-N6	800 CPS 28 V 1 PCT LO OPTICS
*	AA233R	56J18-S6	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
	AA324	56J18-T3	56J18-T4	0 VDC OPTICS
	AA327	56J18-T3	56TB3-K20	0 VDC OPTICS
*	AA324	56J18-T4	56J18-T3	0 VDC OPTICS
*	AA339	56J18-T5	56J18-S5	0 VDC OPTICS
	AA304W	56J18-T6	56J19-P6	800 CPS 28 V 1 PCT HI OPTICS
*	AA233W	56J18-T6	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 058

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA370W	56J19-A1	56TB3-T16	SXT TRUNNION TACH HI
	AA371R	56J19-A2	56TB3-S16	SXT SHAFT TACH LO
	AA371W	56J19-A3	56TB3-S17	SXT SHAFT TACH HI
	AA375W	56J19-A5	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
	AA378	56J19-A7	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
	AA372R	56J19-A8	56TB3-R16	SCT TRUNNION TACH LO
	AA372W	56J19-A9	56TB3-R17	SCT TRUNNION TACH HI
	AA370R	56J19-B1	56TB3-T17	SXT TRUNNION TACH LO
*	AA300R	56J19-B2	56J18-C8	TRUNNION CDU 16X ERROR SIG LO
*	AA301R	56J19-B3	56J18-D9	SHAFT CDU 16X ERROR SIG LO
*	AA301W	56J19-B4	56J18-C9	SHAFT CDU 16X ERROR SIG HI
	AA375R	56J19-B5	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
	AA377W	56J19-B7	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
	AA377R	56J19-B8	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
	AA373W	56J19-B9	56TB3-N16	SCT SHAFT TACH HI
*	AA300W	56J19-C2	56J18-B8	TRUNNION CDU 16X ERROR SIG HI
	AA384	56J19-C3	56TB3-N18	TRUNNION CDU 16X LOAD
	AA385	56J19-C4	56TB3-M18	SHAFT CDU 16X LOAD
	AA376	56J19-C5	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
	AA380	56J19-C7	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
	AA379R	56J19-C8	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
	AA373R	56J19-C9	56TB3-N17	SCT SHAFT TACH LO
	AA374W	56J19-D1	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
	AA374R	56J19-D2	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
*	AA299W	56J19-D4	56J18-F1	TRUNNION CDU 1/4X SIN HI
	AA396W	56J19-D5	56TB3-N14	SHAFT CDU 1/2X COS HI S2
	AA396R	56J19-D6	56TB3-N13	SHAFT CDU 1/2X COS LO S4
	AA379W	56J19-D8	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
*	AA299R	56J19-F4	56J18-F2	TRUNNION CDU 1/4X SIN LO
	AA381W	56J19-F5	56TB3-F16	TRUNNION CDU 1/4X COS HI
	AA381R	56J19-F6	56TB3-G16	TRUNNION CDU 1/4X COS LO
	AA386R	56J19-F8	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	AA386W	56J19-F9	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
	AA382R	56J19-G1	56TB3-T13	SCT TRUNNION 1X COS LO
	AA383R	56J19-G2	56TB3-S14	SCT TRUNNION 1X SIN HI
	AA383W	56J19-G3	56TB3-S13	SCT TRUNNION 1X SIN LO
*	AA302R	56J19-G5	56J18-H6	COSECANT AMP FEEDBACK SIG LO

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 059

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA328R	56J18-L5	56TB3-S12	SHAFT CDU 1X P2 (S2)
	AA328L	56J18-L6	56TB3-R12	SHAFT CDU 1X P3 (S3)
	AA340W	56J18-M1	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)
	AA350	56J18-M1	56J18-P3	0 VDC OPTICS
	AA351	56J18-M1	56J18-M2	0 VDC OPTICS
	AA352	56J18-M2	56J18-M3	0 VDC OPTICS
*	AA351	56J18-M2	56J18-M1	0 VDC OPTICS
	AA341W	56J18-M3	56TB3-C 8	TRUNNION CDU MDA LO (TEST)
	AA353	56J18-M3	56J18-M4	0 VDC OPTICS
*	AA352	56J18-M3	56J18-M2	0 VDC OPTICS
	AA342W	56J18-M4	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
	AA354	56J18-M4	56J18-M5	0 VDC OPTICS
*	AA353	56J18-M4	56J18-M3	0 VDC OPTICS
	AA355	56J18-M5	56J18-M6	0 VDC OPTICS
*	AA354	56J18-M5	56J18-M4	0 VDC OPTICS
	AA343W	56J18-M6	56TB3-D10	SHAFT CDU MDA (TEST) LO
*	AA355	56J18-M6	56J18-M5	0 VDC OPTICS
	AA340R	56J18-N1	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
	AA341R	56J18-N3	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
	AA342R	56J18-N4	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
	AA343R	56J18-N6	56TB3-D 9	SHAFT CDU MDA (TEST) HI
	AA319	56J18-P1	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
	AA322	56J18-P2	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
	AA303	56J18-P3	56J19-R4	0 VDC OPTICS
*	AA350	56J18-P3	56J18-M1	0 VDC OPTICS
	AA320	56J18-R1	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
	AA321	56J18-R2	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
	AA333	56J18-R3	56TB3-K20	0 VDC OPTICS
	AA337	56J18-R4	56TB3-B11	ZERO OPTICS RELAY CONTROL
	AA306	56J18-R5	56J19-P3	STRUCTURE GND
*	AA241	56J18-R5	56J17-L6	STRUCTURE GND
	AA298	56J18-S1	56J19-T1	+28 VDC OPTICS
*	AA240	56J18-S1	56J17-T6	+28 VDC OPTICS
	AA323	56J18-S3	56J18-S4	0 VDC OPTICS
	AA325	56J18-S3	56TB3-K20	0 VDC OPTICS
*	AA323	56J18-S4	56J18-S3	0 VDC OPTICS
	AA305	56J18-S5	56J19-P5	0 VDC OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 057

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA302W	56J19-G6	56J18-G6	COSECANT AMP OUTPUT HI
	AA382W	56J19-H1	56TB3-T14	SCT TRUNNION 1X COS HI
*	AA302L	56J19-H5	56J18-H5	SHAFT CDU MDA COSECANT SIG
*	AA302K	56J19-H6	56J18-G5	COSECANT AMP FEEDBACK SIG HI
	AA391W	56J19-K1	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
	AA397	56J19-K1	56J19-R4	0 VDC OPTICS
	AA398	56J19-K1	56J19-K2	0 VDC OPTICS
	AA399	56J19-K2	56J19-K3	0 VDC OPTICS
*	AA398	56J19-K2	56J19-K1	0 VDC OPTICS
	AA392W	56J19-K3	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
	AA400	56J19-K3	56J19-K4	0 VDC OPTICS
*	AA399	56J19-K3	56J19-K2	0 VDC OPTICS
	AA401	56J19-K4	56J19-K5	0 VDC OPTICS
*	AA400	56J19-K4	56J19-K3	0 VDC OPTICS
	AA402	56J19-K5	56J19-K6	0 VDC OPTICS
*	AA401	56J19-K5	56J19-K4	0 VDC OPTICS
*	AA402	56J19-K6	56J19-K5	0 VDC OPTICS
	AA391R	56J19-L1	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
	AA392R	56J19-L3	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
	AA388	56J19-M5	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA387	56J19-M6	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA389	56J19-N5	56TB3-L18	COSECANT RELAY CONTROL
*	AA304R	56J19-N6	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA359R	56J19-P1	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING
	AA361R	56J19-P2	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
	AA356	56J19-P3	56J20-G4	STRUCTURE GND
	AA395	56J19-P3	56J20-G4	STRUCTURE GND
*	AA306	56J19-P3	56J18-R5	STRUCTURE GND
	AA394	56J19-P4	56J19-P5	0 VDC OPTICS
	AA393	56J19-P5	56TB3-K21	0 VDC OPTICS
*	AA305	56J19-P5	56J18-S5	0 VDC OPTICS
*	AA394	56J19-P5	56J19-P4	0 VDC OPTICS
*	AA304W	56J19-P6	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA359W	56J19-R1	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING
	AA361W	56J19-R2	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
	AA390	56J19-R4	56TB3-K21	0 VDC OPTICS
*	AA303	56J19-R4	56J18-P3	0 VDC OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 060

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA416	56J20-A1	56TB3-G19	AGC TEMP MONITOR NO 1
	AA417	56J20-A2	56TB3-F19	AGC TEMP MONITOR NO 2
	AA419W	56J20-A3	56TB3-N20	COS AMG 1X S3
	AA414	56J20-A4	56TB3-K19	IMU PRESSURE MONITOR HI
	AA464R	56J20-A6	56TB3-L13	PRESSURE SENSOR +28 VDC HI
	AA418	56J20-B1	56TB3-D19	AGC TEMP MONITOR NO 3
	AA419R	56J20-B3	56TB3-N21	COS AMG 1X S1
	AA415	56J20-B4	56TB3-H19	IMU PRESSURE MONITOR LO
	AA427R	56J20-B5	56TB3-T19	+20 VDC CONDITIONING
	AA464W	56J20-B6	56TB3-K13	PRESSURE SENSOR +28 VDC LO
	AA427W	56J20-C5	56TB3-S19	0 VDC CONDITIONING
	AA425	56J20-C6	56TB3-L19	+13 VDC AGC
	AA463R	56J20-D4	56TB3-S20	+2.5 VDC CONDITIONING LO
	AA463W	56J20-D5	56TB3-R19	+2.5 VDC CONDITIONING HI
	AA426	56J20-D6	56TB3-M19	+3 VDC AGC
	AA409W	56J20-F5	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
	AA410W	56J20-F5	56TB3-R22	800 CPS 28 V 1 PCT HI IMU
	AA409R	56J20-F6	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
	AA410R	56J20-F6	56TB3-R21	800 CPS 28 V 1 PCT LO IMU
	AA458	56J20-G1	56J20-H1	0 VDC IMU
	AA460	56J20-G1	56TB2-M 7	0 VDC IMU
	AA465W	56J20-G3	56TB3-K14	400 CPS 115 V LO
	AA462	56J20-G4	56TB3-F22	STRUCTURE GND
*	AA356	56J20-G4	56J19-P3	STRUCTURE GND
*	AA395	56J20-G4	56J19-P3	STRUCTURE GND
	AA411	56J20-G5	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA 52W	56J20-G5	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA413	56J20-G6	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	AA 52R	56J20-G6	56J12-K4	800 CPS 28 V 5 PCT L-90 DEG LO IMU
	AA459	56J20-H1	56J20-H2	0 VDC IMU
*	AA458	56J20-H1	56J20-G1	0 VDC IMU
	AA461	56J20-H2	56TB2-M 1	0 VDC IMU
*	AA459	56J20-H2	56J20-H1	0 VDC IMU
	AA465R	56J20-H3	56TB3-L14	400 CPS 115 V HI
	AA422	56J20-H4	56TB3-R20	+28 VDC AGC
	AA423	56J20-H4	56J21-234	+28 VDC AGC
*	AA178	56J20-H4	56J15-H5	+28 VDC AGC

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CODE IDENT NO.	SIZE		
99974	A	1014607	
SCALE-NONE	REV LTR	B	SHEET 062

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA412W	56J20-H5	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA411	56J20-H5	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA412R	56J20-H6	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	AA413	56J20-H6	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
	AA454	56J20-K1	56TB3-T20	+28 VDC IMU
	AA455	56J20-K1	56TB3-T21	+28 VDC IMU
*	AA179	56J20-K1	56J15-S2	+28 VDC IMU
	AA456	56J20-K2	56TB3-S21	+28 VDC IMU
*	AA 4	56J20-K2	56J11-S5	+28 VDC IMU
*	AA193	56J20-K2	56J16-S2	+28 VDC IMU
*	AA191W	56J20-K3	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS
	AA424	56J20-K4	56TB3-N19	0 VDC AGC
	AA420	56J20-K5	56TB3-G21	+28 VDC AGC BUSS A
	AA421	56J20-K6	56TB3-G22	+28 VDC AGC BUSS B
	AA438	56J20-L1	56J20-M1	+28 VDC IMU
	AA439	56J20-L1	56J20-L2	+28 VDC IMU
*	AA 2	56J20-L1	56J11-S1	+28 VDC IMU
	AA440	56J20-L2	56J20-M2	+28 VDC IMU
*	AA 3	56J20-L2	56J11-S2	+28 VDC IMU
*	AA439	56J20-L2	56J20-L1	+28 VDC IMU
*	AA191R	56J20-L3	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
*	AA192W	56J20-L4	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA403	56J20-L5	56J21- 37	+28 VDC MDV
	AA404	56J20-L5	56TB3-M22	+28 VDC MDV
*	AA 53	56J20-L6	56J12-G4	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP
*	AA 54	56J20-M1	56J12-S1	+28 VDC IMU
*	AA236	56J20-M1	56J17-T4	+28 VDC IMU
*	AA438	56J20-M1	56J20-L1	+28 VDC IMU
*	AA 55	56J20-M2	56J12-S2	+28 VDC IMU
*	AA237	56J20-M2	56J17-T3	+28 VDC IMU
*	AA440	56J20-M2	56J20-L2	+28 VDC IMU
*	AA192R	56J20-M4	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA405	56J20-M5	56TB3-M21	+28 VDC MDV
	AA457	56J20-M6	56TB3-M20	+28 VDC OPTICS
*	AA357	56J20-M6	56J19-T1	+28 VDC OPTICS
	AA428	56J20-N1	56TB3-C20	+28 VDC IMU BUSS A
	AA429	56J20-N1	56J20-P1	+28 VDC IMU BUSS A

157B

CODE IDENT NO.	SIZE		
99974	A	1014607	
SCALE-NONE	REV LTR	B	SHEET 063

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA397	56J19-R4	56J19-K1	0 VDC OPTICS
	AA362	56J19-R5	56J19-S4	0 VDC OPTICS
	AA363	56J19-R6	56J19-T4	0 VDC OPTICS
	AA358R	56J19-S2	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING
	AA358W	56J19-S3	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING
	AA364	56J19-S4	56TB3-K22	0 VDC OPTICS
*	AA362	56J19-S4	56J19-R5	0 VDC OPTICS
	AA366	56J19-S5	56J19-S6	0 VDC OPTICS
	AA369	56J19-S5	56TB3-K22	0 VDC OPTICS
*	AA366	56J19-S6	56J19-S5	0 VDC OPTICS
	AA357	56J19-T1	56J20-M6	+28 VDC OPTICS
*	AA298	56J19-T1	56J18-S1	+28 VDC OPTICS
	AA360R	56J19-T2	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
	AA360W	56J19-T3	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
	AA365	56J19-T4	56TB3-L22	0 VDC OPTICS
*	AA363	56J19-T4	56J19-R6	0 VDC OPTICS
	AA368	56J19-T5	56J19-T6	0 VDC OPTICS
	AA367	56J19-T6	56TB3-L22	0 VDC OPTICS
*	AA368	56J19-T6	56J19-T5	0 VDC OPTICS

CODE IDENT NO.	SIZE		
99974	A	1014607	
SCALE-NONE	REV LTR	B	SHEET 061

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA433	56J20-N2	56TB3-D20	+28 VDC IMU BUSS B
	AA434	56J20-N2	56J20-P2	+28 VDC IMU BUSS B
	AA408	56J20-N3	56TB3-K22	0 VDC OPTICS
	AA407	56J20-N4	56TB3-L21	0 VDC OPTICS
*	AA 51	56J20-N5	56J12-S6	+28 VDC OPTICS
*	AA189	56J20-N5	56J16-S5	+28 VDC OPTICS
	AA406	56J20-N6	56TB3-H20	+28 VDC OPTICS
*	AA190	56J20-N6	56J16-S6	+28 VDC OPTICS
	AA430	56J20-P1	56J20-R1	+28 VDC IMU BUSS A
*	AA429	56J20-P1	56J20-N1	+28 VDC IMU BUSS A
	AA435	56J20-P2	56J20-R2	+28 VDC IMU BUSS B
*	AA434	56J20-P2	56J20-N2	+28 VDC IMU BUSS B
	AA445	56J20-P3	56TB3-N22	+28 VDC STBY
*	AA238	56J20-P3	56J17-T1	+28 VDC STBY
*	AA239	56J20-P4	56J17-T2	+28 VDC STBY
	AA446	56J20-P5	56TB3-H21	+28 VDC OPTICS BUSS A
	AA447	56J20-P5	56J20-R5	+28 VDC OPTICS BUSS A
	AA450	56J20-P6	56TB3-H22	+28 VDC OPTICS BUSS B
	AA451	56J20-P6	56J20-R6	+28 VDC OPTICS BUSS B
	AA431	56J20-R1	56J20-S1	+28 VDC IMU BUSS A
*	AA430	56J20-R1	56J20-P1	+28 VDC IMU BUSS A
	AA436	56J20-R2	56J20-S2	+28 VDC IMU BUSS B
*	AA435	56J20-R2	56J20-P2	+28 VDC IMU BUSS B
	AA441	56J20-R3	56TB3-D22	+28 VDC STBY BUSS A
	AA442	56J20-R3	56J20-S3	+28 VDC STBY BUSS A
	AA443	56J20-R4	56TB3-C22	+28 VDC STBY BUSS B
	AA444	56J20-R4	56J20-S4	+28 VDC STBY BUSS B
	AA448	56J20-R5	56J20-S5	+28 VDC OPTICS BUSS A
*	AA447	56J20-R5	56J20-P5	+28 VDC OPTICS BUSS A
	AA452	56J20-R6	56J20-S6	+28 VDC OPTICS BUSS B
*	AA451	56J20-R6	56J20-P6	+28 VDC OPTICS BUSS B
	AA432	56J20-S1	56TB3-C21	+28 VDC IMU BUSS A
*	AA431	56J20-S1	56J20-R1	+28 VDC IMU BUSS A
	AA437	56J20-S2	56TB3-D21	+28 VDC IMU BUSS B
*	AA436	56J20-S2	56J20-R2	+28 VDC IMU BUSS B
*	AA442	56J20-S3	56J20-R3	+28 VDC STBY BUSS A
*	AA444	56J20-S4	56J20-R4	+28 VDC STBY BUSS B

CODE IDENT NO.	SIZE		
99974	A	1014607	
SCALE-NONE	REV LTR	B	SHEET 064

MIL 2074 12-62

INCHES

0 1 2

PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 1W	56TB2-A 1	56P01- 95	PANEL BRIGHTNESS CONTROL
*	A 431W	56TB2-A 1	56J09- 44	PANEL BRIGHTNESS CONTROL
*	A 1R	56TB2-A 2	56P01- 80	PANEL BRIGHTNESS CONTROL
*	A 431R	56TB2-A 2	56J09- 32	PANEL BRIGHTNESS CONTROL
	A 92B	56TB2-A 4	SHLD A 92	OG CDU ENCODER COM
*	A 92R	56TB2-A 4	56J03- 94	OG CDU ENCODER COM
*	AA163R	56TB2-A 4	56J15-D3	OG CDU ENCODER COM
	A 45B	56TB2-A 5	SHLD A 45	IG CDU ENCODER COM
*	A 45R	56TB2-A 5	56J01- 94	IG CDU ENCODER COM
*	AA161R	56TB2-A 5	56J15-C1	IG CDU ENCODER COM
*	A 69L	56TB2-A 6	56J02-108	MG CDU ENCODER PHASE 2
*	AA162R	56TB2-A 6	56J15-D2	MG CDU ENCODER PHASE 2
*	A 220R	56TB2-A 7	56P02-J	SIN AMG 16X S2
*	AA172W	56TB2-A 7	56J15-F8	SIN AMG 16X S2
*	A 226R	56TB2-A 8	56P02-Y	SIN AIG 16X S2
*	AA171W	56TB2-A 8	56J15-D8	SIN AIG 16X S2
*	A 11	56TB2-B 1	56P01- 69	LOCK CDU RELAY CONTROL
*	AA174	56TB2-B 1	56J15-S3	LOCK CDU RELAY CONTROL
*	A 8	56TB2-B 2	56P01- 12	ZERO ENCODER RELAY CONTROL
*	AA173	56TB2-B 2	56J15-S1	ZERO ENCODER RELAY CONTROL
*	A 92W	56TB2-B 4	56J03-107	OG CDU ENCODER PHASE 1
*	AA163W	56TB2-B 4	56J15-D4	OG CDU ENCODER PHASE 1
*	A 45W	56TB2-B 5	56J01-107	IG CDU ENCODER PHASE 1
*	AA161W	56TB2-B 5	56J15-C2	IG CDU ENCODER PHASE 1
*	A 69W	56TB2-B 6	56J02-107	MG CDU ENCODER PHASE 1
*	AA162W	56TB2-B 6	56J15-F1	MG CDU ENCODER PHASE 1
*	A 68R	56TB2-B 7	56J02-101	SIN AMG 16X S4
*	A 220W	56TB2-B 7	56P02-K	SIN AMG 16X S4
*	AA172R	56TB2-B 7	56J15-F9	SIN AMG 16X S4
*	A 44R	56TB2-B 8	56J01-101	SIN AIG 16X S4
*	A 226W	56TB2-B 8	56P02-Z	SIN AIG 16X S4
*	AA171R	56TB2-B 8	56J15-D7	SIN AIG 16X S4
*	A 10	56TB2-C 1	56P01- 5	FINE ALIGN RELAY CONTROL
*	AA170	56TB2-C 1	56J15-H4	FINE ALIGN RELAY CONTROL
*	A 30	56TB2-C 2	56P01- 37	BACKUP MODE RELAY CONTROL
*	A 159	56TB2-C 2	56J06- 37	BACKUP MODE RELAY CONTROL
*	AA156	56TB2-C 2	56J15-R1	BACKUP MODE RELAY CONTROL

CODE IDENT NO. 99974	SIZE A	1014607
SCALE - NONE	REV LTR B	SHEET 098

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 92L	56TB2-C 4	56J03-108	OG CDU ENCODER PHASE 2
*	AA163L	56TB2-C 4	56J15-C3	OG CDU ENCODER PHASE 2
*	A 45L	56TB2-C 5	56J01-108	IG CDU ENCODER PHASE 2
*	AA161L	56TB2-C 5	56J15-D1	IG CDU ENCODER PHASE 2
	A 69B	56TB2-C 6	SHLD A 69	MG CDU ENCODER COM
*	A 69R	56TB2-C 6	56J02- 94	MG CDU ENCODER COM
*	AA162L	56TB2-C 6	56J15-F2	MG CDU ENCODER COM
*	A 68W	56TB2-C 7	56J02- 87	SIN AMG 16X TO CDU
*	AA172L	56TB2-C 7	56J15-D9	SIN AMG 16X TO CDU
*	A 44W	56TB2-C 8	56J01- 87	SIN AIG 16X TO CDU
*	AA171L	56TB2-C 8	56J15-F7	SIN AIG 16X TO CDU
*	A 557	56TB2-D 1	56E 8	+28 VDC CDU NOT LOCK
*	AA177	56TB2-D 1	56J15-R6	+28 VDC CDU NOT LOCK
	AA569W	56TB2-D 2	56J16-B7	AGC COM
*	A 13W	56TB2-D 2	56P01- 68	AGC COM
*	A 155W	56TB2-D 2	56J06- 68	AGC COM
*	AA176W	56TB2-D 2	56J15-B3	AGC COM
*	AA487W	56TB2-D 2	56J21-121	AGC COM
	A 13B	56TB2-D 3	SHLD A 13	AGC SIG 178 SHLD RET
	A 155B	56TB2-D 3	SHLD A155	AGC SIG 178 SHLD RET
	AA176B	56TB2-D 3	SHLD AA176	AGC SIG 178 SHLD RET
	AA487B	56TB2-D 3	SHLD AA487	AGC SIG 178 SHLD RET
*	AA561	56TB2-D 3	56E 57	AGC SIG 178 SHLD RET
*	AA569A	56TB2-D 3	SHLD AA569	AGC SIG 178 SHLD RET
	AA606	56TB2-D 4	56TB2-F 4	0 VDC IMU
	AA608	56TB2-D 4	56E 27	0 VDC IMU
*	A 287	56TB2-D 4	56P06-F	0 VDC IMU
*	AA605	56TB2-D 4	56TB2-D 5	0 VDC IMU
	A 458	56TB2-D 5	56E 48	0 VDC IMU
	AA605	56TB2-D 5	56TB2-D 4	0 VDC IMU
*	A 384	56TB2-D 5	56P09- 84	0 VDC IMU
*	A 550	56TB2-D 5	56E 21	0 VDC IMU
*	AA604	56TB2-D 5	56TB2-D 6	0 VDC IMU
	AA604	56TB2-D 6	56TB2-D 5	0 VDC IMU
*	A 214	56TB2-D 6	56J08- 82	0 VDC IMU
*	A 450	56TB2-D 6	56J09- 26	0 VDC IMU
*	A 549	56TB2-D 6	56E 20	0 VDC IMU

165A

CODE IDENT NO. 99974	SIZE A	1014607
SCALE - NONE	REV LTR B	SHEET 099

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA576	56TB1-S 8	56TB1-S 6	0 VDC IMU
*	AA588	56TB1-S 8	56TB1-N 4	0 VDC IMU
*	A 266R	56TB1-T 1	56P05-L	400 CPS VAR ILLUM PWR
*	A 314R	56TB1-T 1	56P08-R*	400 CPS VAR ILLUM PWR
*	A 180W	56TB1-T 2	56J08- 36	400 CPS 6 V LO
*	A 266W	56TB1-T 2	56P05-M	400 CPS 6 V LO
*	A 314W	56TB1-T 2	56P08-S*	400 CPS 6 V LO
*	A 457L	56TB1-T 2	56P10- 81	400 CPS 6 V LO
*	AA511	56TB1-T 2	56TB1-S 2	400 CPS 6 V LO
*	A 292W	56TB1-T 3	56P07-L	Z PIP TORQUE RET
*	AA127W	56TB1-T 3	56J14-P3	Z PIP TORQUE RET
*	A 297W	56TB1-T 4	56P07-C*	Z PIP ERROR LO
*	AA126R	56TB1-T 4	56J14-A2	Z PIP ERROR LO
*	A 297R	56TB1-T 5	56P07-B*	Z PIP ERROR HI
*	AA126W	56TB1-T 5	56J14-A1	Z PIP ERROR HI
*	A 291R	56TB1-T 6	56P07-G	Y GYRO TORQUE +
*	AA133R	56TB1-T 6	56J14-M1	Y GYRO TORQUE +
*	A 351	56TB1-T 7	56P09- 44	Z PIP ERROR MONITOR
*	AA128	56TB1-T 7	56J14-H6	Z PIP ERROR MONITOR
*	A 289R	56TB1-T 8	56P07-A	Z GYRO TORQUE +
*	AA136R	56TB1-T 8	56J14-L6	Z GYRO TORQUE +
*	A 22	56TB1-U 2	56P01- 26	IMU DELAY LIGHT HI
*	A 193	56TB1-U 2	56J08- 42	IMU DELAY LIGHT HI
*	A 345	56TB1-U 2	56P09- 46	IMU DELAY LIGHT HI
*	A 292L	56TB1-U 3	56P07-M	Z PIP TORQUE -
*	AA127L	56TB1-U 3	56J14-P2	Z PIP TORQUE -
*	A 292R	56TB1-U 4	56P07-K	Z PIP TORQUE +
*	AA127R	56TB1-U 4	56J14-P1	Z PIP TORQUE +
*	A 291W	56TB1-U 5	56P07-H	Y GYRO TORQUE RET
*	AA133W	56TB1-U 5	56J14-M3	Y GYRO TORQUE RET
*	A 291L	56TB1-U 6	56P07-J	Y GYRO TORQUE -
*	AA133L	56TB1-U 6	56J14-M2	Y GYRO TORQUE -
*	A 289W	56TB1-U 7	56P07-B	Z GYRO TORQUE RET
*	AA136W	56TB1-U 7	56J14-N6	Z GYRO TORQUE RET
*	A 289L	56TB1-U 8	56P07-C	Z GYRO TORQUE -
*	AA136L	56TB1-U 8	56J14-M6	Z GYRO TORQUE -

CODE IDENT NO. 99974	SIZE A	1014607
SCALE - NONE	REV LTR B	SHEET 097

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA603	56TB2-D 6	56TB2-D 7	0 VDC IMU
	A 68B	56TB2-D 7	SHLD A 68	0 VDC IMU
	A 220B	56TB2-D 7	SHLD A220	0 VDC IMU
	AA577	56TB2-D 7	56TB2-D 8	0 VDC IMU
	AA603	56TB2-D 7	56TB2-D 6	0 VDC IMU
	A 44B	56TB2-D 8	SHLD A 44	0 VDC IMU
	A 226B	56TB2-D 8	SHLD A226	0 VDC IMU
*	AA577	56TB2-D 8	56TB2-D 7	0 VDC IMU
*	AA602	56TB2-D 8	56TB1-S 7	0 VDC IMU
	A 24B	56TB2-F 2	SHLD A 24	IG CDU ERROR SIG RET
	A 39B	56TB2-F 2	SHLD A 39	IG CDU ERROR SIG RET
	A 364B	56TB2-F 2	SHLD A364	IG CDU ERROR SIG RET
	AA580	56TB2-F 2	56TB2-G 2	IG CDU ERROR SIG RET
	AA569R	56TB2-F 3	56E 60	
*	A 13R	56TB2-F 3	56E 61	
*	A 155R	56TB2-F 3	56E 55	
*	AA176R	56TB2-F 3	56E 59	
*	AA487R	56TB2-F 3	56J21-122	
*	A 385	56TB2-F 4	56P09- 32	0 VDC IMU
*	AA606	56TB2-F 4	56TB2-D 4	0 VDC IMU
	A 25B	56TB2-F 7	SHLD A 25	MG CDU ERROR SIG RET
	A 63B	56TB2-F 7	SHLD A 63	MG CDU ERROR SIG RET
	A 365B	56TB2-F 7	SHLD A365	MG CDU ERROR SIG RET
	AA579	56TB2-F 7	56TB2-G 7	MG CDU ERROR SIG RET
	A 42B	56TB2-G 1	SHLD A 42	IG CDU ERROR SIG RET
*	A 42W	56TB2-G 1	56J01- 90	IG CDU ERROR SIG RET
*	AA196R	56TB2-G 1	56J16-D2	IG CDU ERROR SIG RET
*	A 24W	56TB2-G 2	56P01- 71	IG CDU ERROR SIG RET
*	A 39W	56TB2-G 2	56J01- 45	IG CDU ERROR SIG RET
*	A 364W	56TB2-G 2	56P09- 82	IG CDU ERROR SIG RET
*	AA 15R	56TB2-G 2	56J11-B1	IG CDU ERROR SIG RET
*	AA195R	56TB2-G 2	56J16-D2	IG CDU ERROR SIG RET
*	AA580	56TB2-G 2	56TB2-F 2	IG CDU ERROR SIG RET
*	A 38W	56TB2-G 3	56J01- 57	IG CDU ERROR SIG RET S1
*	AA194R	56TB2-G 3	56J16-D2	IG CDU ERROR SIG RET
*	A 19R	56TB2-G 4	56P01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 216R	56TB2-G 4	56P02-A	800 CPS 28 V 1 PCT HI IMU

165B

CODE IDENT NO. 99974	SIZE A	1014607
SCALE - NONE	REV LTR B	SHEET 100

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA519	56J21- 1	56TB3-G21	+28 VDC AGC BUSS A	167
*	AA520	56J21- 2	56TB3-G20	0 VDC AGC	169
*	A 476	56J21- 3	56J10- 70	SPARE	211
*	A 505R	56J21- 4	56J10- 31	OUT 0 7	220A
*	A 505W	56J21- 5	56E 22		220B
*	A 483R	56J21- 6	56J10- 17	OUT 0 14	227A
*	A 483W	56J21- 7	56E 23		227B
*	A 489R	56J21- 8	56J10- 44	ALARM 6	234A
*	A 489W	56J21- 9	56E 24		234B
*	A 522	56J21- 10	56J10- 45	SPARE	248
*	A 523	56J21- 11	56J10- 46	SPARE	249
*	A 468W	56J21- 12	56J10- 49	KEY RESET NAV	209A
*	A 468R	56J21- 13	56E 25		209B
*	A 510R	56J21- 14	56J10- 39	TEST ALARM	207A
*	A 510W	56J21- 15	56E 25		207B
*	A 407W	56J21- 16	56J09- 70	SXT PWR ON INDICATION TO AGC	105A
*	A 407R	56J21- 17	56E 58		105B
*	A 449R	56J21- 18	56J09- 37	OPTICS MODE SW COMPUTER INDICATION	106A
	A 449W	56J21- 19	56E 58		106B
	AA474	56J21- 22	56E 47	AGC SIG 179 SHLD RET	179
	AA473	56J21- 23	56E 45	AGC SIG 180 SHLD RET	180
	AA475W	56J21- 24	56J15-B4	IG ENCODER + DELTA THETA	120A
	AA475R	56J21- 25	56E 38	IG DAC MDA SIG LO	120B
	AA476R	56J21- 26	56J15-C4	IG ENCODER - DELTA THETA	121A
	AA476W	56J21- 27	56E 38	IG DAC MDA SIG LO	121B
*	AA 84W	56J21- 28	56J12-D6	IMU FAIL	141A
*	AA 84R	56J21- 29	56J12-F6	IMU FAIL RET	141B
	AA486R	56J21- 30	56J15-C9	OG CDU - DELTA THETA COMMAND	127A
	AA486W	56J21- 31	56E 43	OG DAC MDA SIG LO	127B
*	AA130R	56J21- 32	56E 33	0 VDC IMU	143A
*	AA130W	56J21- 33	56J14-D2	- DX GYRO RATE	143B
*	AA226R	56J21- 34	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
*	AA226W	56J21- 35	56J16-L3	COMPUTER 800 PPS SYNC RET	150B
*	AA 81	56J21- 36	56J12-M1	AGC POWER SUPPLY FAIL SIG HI	157A
*	AA403	56J21- 37	56J20-L5	+28 VDC MDV	157B
*	A 509	56J21- 39	56J10- 58	GND	239
*	A 481	56J21- 40	56J10- 59	+28 VDC AGC	243

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 066

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 499R	56J21- 41	56J10- 30	OUT 0 6	219A
*	A 499W	56J21- 42	56E 22		219B
*	A 504R	56J21- 43	56J10- 16	OUT 0 13	226A
*	A 504W	56J21- 44	56E 23		226B
*	A 488R	56J21- 45	56J10- 33	ALARM 5	233A
*	A 488W	56J21- 46	56E 23		233B
*	A 470R	56J21- 47	56J10- 42	TIMING (1.5 CPS)	244A
*	A 470W	56J21- 48	56E 24		244B
	AA562	56J21- 53	56E 57	AGC SIG 178 SHLD RET	178
*	A 437W	56J21- 54	56J09- 25	OPTICS ZERO ENCODER	104A
*	A 437R	56J21- 55	56E 58		104B
	AA479W	56J21- 56	56J15-B8	OG ENCODER + DELTA THETA	118A
	AA479R	56J21- 57	56E 42	OG DAC MDA SIG LO	118B
	AA480R	56J21- 58	56J15-C8	OG ENCODER - DELTA THETA	119A
	AA480W	56J21- 59	56E 42	OG DAC MDA SIG LO	119B
*	AA 86W	56J21- 60	56J12-D4	ACCEL FAIL	138A
*	AA 86R	56J21- 61	56J12-F4	ACCEL FAIL RET	138B
*	AA521	56J21- 62	56TB3-L19	+13 VDC AGC	176
*	AA522	56J21- 63	56TB3-N19	0 VDC AGC	177
	AA485W	56J21- 64	56J15-B9	OG CDU + DELTA THETA COMMAND	126A
	AA485R	56J21- 65	56E 43	OG DAC MDA SIG LO	126B
*	AA129W	56J21- 66	56E 33	0 VDC IMU	142A
*	AA129R	56J21- 67	56J14-D1	+ DX GYRO RATE	142B
*	AA227W	56J21- 68	56J16-L3	COMPUTER 800 PPS SYNC RET	149A
*	AA227R	56J21- 69	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	149B
*	AA 70W	56J21- 70	56J12-K1	COMPUTER 102.4 KPPS SYNC	156A
*	AA 70R	56J21- 71	56J12-H1	COMPUTER 102.4 KPPS SYNC RET	156B
*	AA523	56J21- 73	56TB3-G21	+28 VDC AGC BUSS A	167
*	AA524	56J21- 74	56TB3-G20	0 VDC AGC	169
*	A 473	56J21- 75	56J10- 71	SPARE	212
*	A 498R	56J21- 76	56J10- 29	OUT 0 5	218A
*	A 498W	56J21- 77	56E 22		218B
*	A 506R	56J21- 78	56J10- 15	OUT 0 12	225A
*	A 506W	56J21- 79	56E 23		225B
*	A 482R	56J21- 80	56J10- 32	ALARM 4	232A
*	A 482W	56J21- 81	56E 23		232B
*	A 471R	56J21- 82	56J10- 20	POWER SYNC	242A

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 067

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA449	56J20-S5	56TB3-H21	+28 VDC OPTICS BUSS A
*	AA448	56J20-S5	56J20-R5	+28 VDC OPTICS BUSS A
	AA453	56J20-S6	56TB3-H22	+28 VDC OPTICS BUSS B
*	AA452	56J20-S6	56J20-R6	+28 VDC OPTICS BUSS B

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 065

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 471W	56J21- 83	56E 24		242B
*	A 467R	56J21- 84	56J10- 38	KEY CODE 5	205A
*	A 467W	56J21- 85	56E 25		205B
*	A 433W	56J21- 86	56J09- 30	MARK	102A
*	A 433R	56J21- 87	56E 58		102B
*	A 434W	56J21- 88	56J09- 31	NOT MARK	103A
*	A 434R	56J21- 89	56E 58		103B
	AA468R	56J21- 92	56E 35	COMPUTER RET	133A
	AA468W	56J21- 93	56J15-M6	- DELTA V X	133B
	AA471R	56J21- 94	56E 37	COMPUTER RET	137A
	AA471W	56J21- 95	56J15-K4	- DELTA V Z	137B
*	AA525	56J21- 96	56TB3-M19	+3 VDC AGC	175
	AA484R	56J21- 97	56J15-C7	MG CDU - DELTA THETA COMMAND	131A
	AA484W	56J21- 98	56E 41	MG DAC MDA SIG LO	131B
	AA502W	56J21- 99	56J13-N6	PIPA SWITCHING PULSE	140A
	AA502R	56J21-100	56E 34	0 VDC IMU	140B
*	AA157R	56J21-101	56J15-R2	0 VDC IMU	148A
*	AA157W	56J21-102	56J15-P1	GYRO RESET PULSE	148B
	AA500R	56J21-103	56J17-R3	COMPUTER 12.8 KPPS SYNC	155A
	AA500W	56J21-104	56E 27	0 VDC IMU	155B
	A 571	56J21-107	56E 63	GROUP 2 SHIELD	245
*	A 477	56J21-108	56J10- 57	+13 V B	241
*	A 497R	56J21-109	56J10- 28	OUT 0 4	217A
*	A 497W	56J21-110	56E 22		217B
*	A 503R	56J21-111	56J10- 14	OUT 0 11	224A
*	A 503W	56J21-112	56E 23		224B
*	A 487R	56J21-113	56J10- 19	ALARM 3	231A
*	A 487W	56J21-114	56E 23		231B
*	A 493R	56J21-115	56J10- 64	ALARM 10	238A
*	A 493W	56J21-116	56E 24		238B
*	A 511R	56J21-117	56J10- 37	KEY CODE 4	204A
*	A 511W	56J21-118	56E 25		204B
	A 440W	56J21-119	56E 56	AGC COMMON	101A
	A 440R	56J21-120	56E 58		101B
	AA487W	56J21-121	56TB2-D 2	AGC COM	165A
	AA487R	56J21-122	56TB2-F 3		165B
	AA495W	56J21-123	56J18-K1	SHAFT CDU ENCODER - DELTA THETA	111A

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 068

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA200W	56TB2-H 7	56J16-C4	MG CDU 1X ERROR SIG
*	A 66R	56TB2-H 8	56J02-104	MG CDU 16X ERROR SIG
*	AA201W	56TB2-H 8	56J16-C3	MG CDU 16X ERROR SIG
*	A 321R	56TB2-K 1	56P09- 45	800 CPS 28 V 1 PCT HI OPTICS
*	A 416R	56TB2-K 1	56J09- 80	800 CPS 28 V 1 PCT HI OPTICS
*	A 558R	56TB2-K 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
*	AA224W	56TB2-K 1	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS
*	AA557	56TB2-K 1	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
	AA557	56TB2-K 2	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 265R	56TB2-K 2	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS
*	A 301R	56TB2-K 2	56P08-J	800 CPS 28 V 1 PCT HI OPTICS
*	A 322R	56TB2-K 2	56P09- 56	800 CPS 28 V 1 PCT HI OPTICS
*	A 76W	56TB2-K 3	56J02- 32	MG CDU MDA OUTPUT
*	AA203R	56TB2-K 3	56J16-P3	MG CDU MDA OUTPUT
	AA555	56TB2-K 4	56TB2-L 4	0 VDC IMU
*	A 52R	56TB2-K 4	56J01- 43	0 VDC IMU
*	A 76R	56TB2-K 4	56J02- 43	0 VDC IMU
*	A 97R	56TB2-K 4	56J03- 43	0 VDC IMU
*	AA223	56TB2-K 4	56J16-P2	0 VDC IMU
*	A 97W	56TB2-K 5	56J03- 32	OG CDU MDA OUTPUT
*	AA215R	56TB2-K 5	56J16-N2	OG CDU MDA OUTPUT
*	A 97L	56TB2-K 6	56J03- 31	OG CDU MDA OUTPUT
*	AA215W	56TB2-K 6	56J16-N1	OG CDU MDA OUTPUT
*	A 102	56TB2-K 8	56J03- 30	+28 VDC IMU FOR OG MDA
*	AA212	56TB2-K 8	56J16-T2	+28 VDC IMU FOR OG MDA
*	A 321W	56TB2-L 1	56P09- 55	800 CPS 28 V 1 PCT LO OPTICS
*	A 416W	56TB2-L 1	56J09- 69	800 CPS 28 V 1 PCT LO OPTICS
*	A 558W	56TB2-L 1	56E 13	800 CPS 28 V 1 PCT LO OPTICS
*	AA224R	56TB2-L 1	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
*	AA556	56TB2-L 1	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
	AA556	56TB2-L 2	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 265W	56TB2-L 2	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
*	A 301W	56TB2-L 2	56P08-K	800 CPS 28 V 1 PCT LO OPTICS
*	A 322W	56TB2-L 2	56P09- 57	800 CPS 28 V 1 PCT LO OPTICS
*	A 76L	56TB2-L 3	56J02- 31	MG CDU MDA OUTPUT
*	AA203W	56TB2-L 3	56J16-R3	MG CDU MDA OUTPUT
*	A 20	56TB2-L 4	56P01- 78	0 VDC IMU

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR B
SHEET 102

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 169	56TB2-L 4	56J06- 78	0 VDC IMU
*	AA555	56TB2-L 4	56TB2-K 4	0 VDC IMU
*	A 52L	56TB2-L 5	56J01- 31	IG CDU MDA OUTPUT
*	AA198W	56TB2-L 5	56J16-R1	IG CDU MDA OUTPUT
*	A 52W	56TB2-L 6	56J01- 32	IG CDU MDA OUTPUT
*	AA198R	56TB2-L 6	56J16-P1	IG CDU MDA OUTPUT
	A 553	56TB2-L 8	56E 15	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 245W	56TB2-L 8	56P05-E	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 299W	56TB2-L 8	56P08-B	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	AA225R	56TB2-L 8	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA581	56TB2-M 1	56TB2-M 2	0 VDC IMU
*	A 546	56TB2-M 1	56P12-F	0 VDC IMU
*	AA 43	56TB2-M 1	56J11-R3	0 VDC IMU
*	AA461	56TB2-M 1	56J20-H2	0 VDC IMU
	AA582	56TB2-M 2	56TB2-M 3	0 VDC IMU
*	AA 44	56TB2-M 2	56J11-R1	0 VDC IMU
*	AA581	56TB2-M 2	56TB2-M 1	0 VDC IMU
	AA583	56TB2-M 3	56TB2-M 4	0 VDC IMU
*	AA 45	56TB2-M 3	56J11-R2	0 VDC IMU
*	AA582	56TB2-M 3	56TB2-M 2	0 VDC IMU
	A 245B	56TB2-M 4	SHLD A245	0 VDC IMU
	A 418B	56TB2-M 4	SHLD A418	0 VDC IMU
	AA584	56TB2-M 4	56TB2-M 5	0 VDC IMU
*	A 533	56TB2-M 4	56P11-F	0 VDC IMU
*	AA583	56TB2-M 4	56TB2-M 3	0 VDC IMU
*	AA591	56TB2-M 4	56TB1-S 3	0 VDC IMU
	AA585	56TB2-M 5	56TB2-M 6	0 VDC IMU
*	AA584	56TB2-M 5	56TB2-M 4	0 VDC IMU
*	AA589	56TB2-M 5	56TB1-N 4	0 VDC IMU
	AA586	56TB2-M 6	56TB2-M 7	0 VDC IMU
	AA592	56TB2-M 6	56TB3-S 2	0 VDC IMU
*	AA585	56TB2-M 6	56TB2-M 5	0 VDC IMU
*	A 534	56TB2-M 7	56P11-E	0 VDC IMU
*	AA460	56TB2-M 7	56J20-G1	0 VDC IMU
*	AA539	56TB2-M 7	56TB2-M 8	0 VDC IMU
*	AA586	56TB2-M 7	56TB2-M 6	0 VDC IMU
	A 87B	56TB2-M 8	SHLD A 87	0 VDC IMU

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR B
SHEET 103

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 577R	56TB2-G 4	56E 1	800 CPS 28 V 1 PCT HI IMU
*	AA222R	56TB2-G 4	56J16-S4	800 CPS 28 V 1 PCT HI IMU
*	AA409W	56TB2-G 4	56J20-F5	800 CPS 28 V 1 PCT HI IMU
*	A 216W	56TB2-G 5	56P02-B	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	AA222W	56TB2-G 5	56J16-P4	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	A 62W	56TB2-G 6	56J02- 57	MG CDU ERROR SIG RET
*	AA199R	56TB2-G 6	56J16-D4	MG CDU ERROR SIG RET
*	A 25W	56TB2-G 7	56P01- 83	MG CDU ERROR SIG RET
*	A 63W	56TB2-G 7	56J02- 45	MG CDU ERROR SIG RET
*	A 365W	56TB2-G 7	56P09- 71	MG CDU ERROR SIG RET
*	AA 19R	56TB2-G 7	56J11-B2	MG CDU ERROR SIG RET
*	AA200R	56TB2-G 7	56J16-D4	MG CDU ERROR SIG RET
*	AA579	56TB2-G 7	56TB2-F 7	MG CDU ERROR SIG RET
	A 66B	56TB2-G 8	SHLD A 66	MG CDU ERROR SIG RET
*	A 66W	56TB2-G 8	56J02- 90	MG CDU ERROR SIG RET
*	AA201R	56TB2-G 8	56J16-D4	MG CDU ERROR SIG RET
*	A 42R	56TB2-H 1	56J01-104	IG CDU 16X ERROR SIG
*	AA196W	56TB2-H 1	56J16-C1	IG CDU 16X ERROR SIG
*	A 24R	56TB2-H 2	56P01- 70	IG CDU 1X ERROR SIG
*	A 39R	56TB2-H 2	56J01- 35	IG CDU 1X ERROR SIG S2
*	A 364R	56TB2-H 2	56P09- 96	IG CDU 1X ERROR SIG
*	AA 15W	56TB2-H 2	56J11-A1	IG CDU 1X ERROR SIG
*	AA195W	56TB2-H 2	56J16-C2	IG CDU 1X ERROR SIG
*	A 38R	56TB2-H 3	56J01- 67	IG CDU 1/2X ERROR SIG S3
*	AA194W	56TB2-H 3	56J16-D1	IG CDU 1/2X ERROR SIG
*	A 19W	56TB2-H 4	56P01- 10	800 CPS 28 V 1 PCT LO IMU
*	A 577W	56TB2-H 4	56E 2	800 CPS 28 V 1 PCT LO IMU
*	AA222L	56TB2-H 4	56J16-S3	800 CPS 28 V 1 PCT LO IMU
*	AA409R	56TB2-H 4	56J20-F6	800 CPS 28 V 1 PCT LO IMU
	A 577L	56TB2-H 5	56E 5	ZEROING RSVR 800 CPS
*	AA222K	56TB2-H 5	56J16-R4	ZEROING RSVR 800 CPS
*	A 62R	56TB2-H 6	56J02- 67	MG CDU 1/2X ERROR SIG
*	AA199W	56TB2-H 6	56J16-D3	MG CDU 1/2X ERROR SIG
*	A 25R	56TB2-H 7	56P01- 82	MG CDU 1X ERROR SIG
*	A 63R	56TB2-H 7	56J02- 35	MG CDU 1X ERROR SIG
*	A 365R	56TB2-H 7	56P09- 70	MG CDU 1X ERROR SIG
*	AA 19W	56TB2-H 7	56J11-A2	MG CDU 1X ERROR SIG

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR B
SHEET 101

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 232B	56TB2-M 8	SHLD A232	0 VDC IMU
	A 360B	56TB2-M 8	SHLD A360	0 VDC IMU
	AA506B	56TB2-M 8	SHLD AA506	0 VDC IMU
	AA539	56TB2-M 8	56TB2-M 7	0 VDC IMU
*	A 85R	56TB2-N 1	56J03- 67	OG CDU 1/2X ERROR SIG
*	AA206W	56TB2-N 1	56J16-D5	OG CDU 1/2X ERROR SIG
*	A 23R	56TB2-N 2	56P01- 96	OG CDU 1X ERROR SIG
*	A 86R	56TB2-N 2	56J03- 35	OG CDU 1X ERROR SIG
*	A 366R	56TB2-N 2	56P09- 72	OG CDU 1X ERROR SIG
*	AA 21W	56TB2-N 2	56J11-A3	OG CDU 1X ERROR SIG
*	AA207W	56TB2-N 2	56J16-C6	OG CDU 1X ERROR SIG
	AA571W	56TB2-N 3	56J17-A2	OG CDU 16X ERROR SIG
*	A 89R	56TB2-N 3	56J03-104	OG CDU 16X ERROR SIG
*	A 338R	56TB2-N 3	56P09- 39	OG CDU 16X ERROR SIG
*	AA208R	56TB2-N 3	56J16-C5	OG CDU 16X ERROR SIG
*	A 299R	56TB2-N 4	56P08-A	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 418W	56TB2-N 4	56J09- 96	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	AA225W	56TB2-N 4	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 56	56TB2-N 5	56J01- 30	+28 VDC IMU FOR IG MDA
*	AA210	56TB2-N 5	56J16-S1	+28 VDC IMU FOR IG MDA
*	A 96R	56TB2-N 6	56J03-106	OG CDU MDA TACH SIG
*	AA214R	56TB2-N 6	56J16-A5	OG CDU MDA TACH SIG
*	A 87W	56TB2-N 7	56J03- 6	COS AOG 1X S1
*	A 232W	56TB2-N 7	56P03-E	COS AOG 1X S1
*	A 360W	56TB2-N 7	56P09- 31	COS AOG 1X S1
*	AA204R	56TB2-N 7	56J16-C8	COS AOG 1X S1
*	AA506R	56TB2-N 7	56J22-142	COS AOG 1X S1
*	A 232R	56TB2-N 8	56P03-D	COS AOG 1X S3
*	A 360R	56TB2-N 8	56P09- 30	COS AOG 1X S3
*	AA204W	56TB2-N 8	56J16-B8	COS AOG 1X S3
*	AA506W	56TB2-N 8	56J22-141	COS AOG 1X S3
*	A 85W	56TB2-R 1	56J03- 57	OG CDU ERROR SIG RET
*	AA206R	56TB2-R 1	56J16-D6	OG CDU ERROR SIG RET
*	A 23W	56TB2-R 2	56P01- 97	OG CDU ERROR SIG RET
*	A 86W	56TB2-R 2	56J03- 45	OG CDU ERROR SIG RET
*	A 366W	56TB2-R 2	56P09- 83	OG CDU ERROR SIG RET
*	AA 21R	56TB2-R 2	56J11-B3	OG CDU ERROR SIG RET

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR B
SHEET 104

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA529	56J21-162	56TB3-F19	AGC TEMP MONITOR NO 2	172
	AA492W	56J21-163	56J18-K2	SHAFT CDU + DELTA THETA COMMAND	116A
	AA492R	56J21-164	56E 52	SHAFT CDU DAC LO	116B
	AA483W	56J21-165	56J15-B7	MG CDU + DELTA THETA COMMAND	130A
	AA483R	56J21-166	56E 41	MG DAC MDA SIG LO	130B
*	AA134R	56J21-167	56E 33	0 VDC IMU	146A
*	AA134W	56J21-168	56J14-D5	+ DZ GYRO RATE	146B
	AA490W	56J21-169	56J12-G1	COMPUTER 25.6 KPPS IN PHASE SYNC	153A
	AA490R	56J21-170	56E 29	COMPUTER 25.6 KPPS SYNC RET	153B
*	A 512	56J21-173	56J10- 56	GND	239
*	A 513	56J21-174	56J10- 55	+3 V B	240
*	A 495R	56J21-175	56J10- 74	OUT 0 2	215A
*	A 495W	56J21-176	56E 22		215B
*	A 501R	56J21-177	56J10- 62	OUT 0 9	222A
*	A 501W	56J21-178	56E 22		222B
*	A 485R	56J21-179	56J10- 40	ALARM 1	229A
*	A 485W	56J21-180	56E 23		229B
*	A 491R	56J21-181	56J10- 53	ALARM 8	236A
*	A 491W	56J21-182	56E 24		236B
*	A 514R	56J21-183	56J10- 35	KEY CODE 2	202A
*	A 514W	56J21-184	56E 25		202B
*	A 515R	56J21-185	56J10- 47	OR OF C1 THRU C33	210A
*	A 515W	56J21-186	56E 25		210B
	A 568	56J21-187	56E 64	GROUP 3 SHIELD	250
	AA488W	56J21-188	56J15-A3	MANUAL CDU MODE INDICATION TO AGC	160A
	AA488R	56J21-189	56E 59		160B
	AA499W	56J21-190	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA499R	56J21-191	56E 51	TRUNNION CDU DAC LO	109B
	AA478R	56J21-192	56J15-C6	MG ENCODER - DELTA THETA	123A
	AA478W	56J21-193	56E 40	MG DAC MDA SIG LO	123B
	AA469R	56J21-194	56E 36	COMPUTER RET	134A
	AA469W	56J21-195	56J15-L6	+ DELTA V Y	134B
*	AA530	56J21-196	56TB3-G19	AGC TEMP MONITOR NO 1	171
	AA497R	56J21-197	56J18-L3	TRUNNION CDU - DELTA THETA COMMAND	115A
	AA497W	56J21-198	56E 50	TRUNNION CDU DAC LO	115B
	AA482R	56J21-199	56J15-C5	IG CDU - DELTA THETA COMMAND	129A
	AA482W	56J21-200	56E 39	IG DAC MDA SIG LO	129B

CODE IDENT NO. 99974	SIZE A	1014607
SCALE-NONE	REV LTR B	SHEET 070

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA132W	56J21-201	56E 33	0 VDC IMU	145A
*	AA132R	56J21-202	56J14-D4	- DY GYRO RATE	145B
	AA503R	56J21-203	56J11-L6	COMPUTER 3200 PPS OUT OF PHASE SYNC	152A
	AA503W	56J21-204	56E 28	COMPUTER 3200 PPS SYNC RET	152B
*	AA531	56J21-207	56TB3-G22	+28 VDC AGC BUSS B	168
*	AA532	56J21-208	56TB3-F20	0 VDC AGC	170
*	A 520	56J21-209	56J10- 75	SPARE	247
*	A 494R	56J21-210	56J10- 73	OUT 0 1	214A
*	A 494W	56J21-211	56E 22		214B
*	A 500R	56J21-212	56J10- 61	OUT 0 8	221A
*	A 500W	56J21-213	56E 22		221B
*	A 484R	56J21-214	56J10- 18	OUT 0 15	228A
*	A 484W	56J21-215	56E 23		228B
*	A 490R	56J21-216	56J10- 43	ALARM 7	235A
*	A 490W	56J21-217	56E 24		235B
*	A 516R	56J21-218	56J10- 34	KEY CODE 1	201A
*	A 516W	56J21-219	56E 25		201B
*	A 517R	56J21-220	56J10- 48	ERROR RESET	208A
*	A 517W	56J21-221	56E 25		208B
*	A 15W	56J21-222	56P01- 49	FINE ALIGN MODE INDICATION TO AGC	161A
*	A 15R	56J21-223	56E 61		161B
*	A 27W	56J21-224	56P01- 76	ATTIT CONT MODE INDICATION TO AGC	162A
*	A 27R	56J21-225	56E 61		162B
*	A 16W	56J21-226	56P01- 39	ENTRY MODE INDICATION TO AGC	163A
*	A 16R	56J21-227	56E 61		163B
*	A 156W	56J21-228	56J06- 69	TRANSFER SWITCH INDICATION TO AGC	164A
*	A 156R	56J21-229	56E 55		164B
	AA498W	56J21-230	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA	108A
	AA498R	56J21-231	56E 51	TRUNNION CDU DAC LO	108B
	AA477W	56J21-232	56J15-B6	MG ENCODER + DELTA THETA	122A
	AA477R	56J21-233	56E 40	MG DAC MDA SIG LO	122B
*	AA423	56J21-234	56J20-H4	+28 VDC AGC	166
	AA496W	56J21-235	56J18-K3	TRUNNION CDU + DELTA THETA COMMAND	114A
	AA496R	56J21-236	56E 50	TRUNNION CDU DAC LO	114B
	AA481W	56J21-237	56J15-B5	IG CDU + DELTA THETA COMMAND	128A
	AA481R	56J21-238	56E 39	IG DAC MDA SIG LO	128B
*	AA131W	56J21-239	56E 33	0 VDC IMU	144A

CODE IDENT NO. 99974	SIZE A	1014607
SCALE-NONE	REV LTR B	SHEET 071

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA495R	56J21-124	56E 53	SHAFT CDU DAC LO	111B
	AA467R	56J21-125	56E 35	COMPUTER RET	132A
	AA467W	56J21-126	56J15-M5	+ DELTA V X	132B
	AA472R	56J21-127	56E 37	COMPUTER RET	136A
	AA472W	56J21-128	56J15-K5	+ DELTA V Z	136B
*	AA526	56J21-129	56TB3-D19	AGC TEMP MONITOR NO 3	173
	AA493R	56J21-130	56J18-L2	SHAFT CDU - DELTA THETA COMMAND	117A
	AA493W	56J21-131	56E 52	SHAFT CDU DAC LO	117B
	AA501W	56J21-132	56J13-N5	PIPA INTERROGATE PULSE	139A
	AA501R	56J21-133	56E 34	0 VDC IMU	139B
*	AA135W	56J21-134	56E 33	0 VDC IMU	147A
*	AA135R	56J21-135	56J14-D6	- DZ GYRO RATE	147B
	AA491R	56J21-136	56J12-G2	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA491W	56J21-137	56E 29	COMPUTER 25.6 KPPS SYNC RET	154B
*	AA527	56J21-139	56TB3-G22	+28 VDC AGC BUSS B	168
*	AA528	56J21-140	56TB3-F20	0 VDC AGC	170
*	A 469	56J21-141	56J10- 72	SPARE	213
*	A 496R	56J21-142	56J10- 60	OUT 0 3	216A
*	A 496W	56J21-143	56E 22		216B
*	A 502R	56J21-144	56J10- 63	OUT 0 10	223A
*	A 502W	56J21-145	56E 22		223B
*	A 486R	56J21-146	56J10- 41	ALARM 2	230A
*	A 486W	56J21-147	56E 23		230B
*	A 492R	56J21-148	56J10- 51	ALARM 9	237A
*	A 492W	56J21-149	56E 24		237B
*	A 472R	56J21-150	56J10- 36	KEY CODE 3	203A
*	A 472W	56J21-151	56E 25		203B
	AA489W	56J21-152	56J16-A7	ZERO ENCODER MODE INDICATION TO AGC	158A
	AA489R	56J21-153	56E 60		158B
*	A 14W	56J21-154	56P01- 59	COARSE ALIGN MODE INDICATION TO AGC	159A
*	A 14R	56J21-155	56E 61		159B
	AA494W	56J21-156	56J18-L1	SHAFT CDU ENCODER + DELTA THETA	110A
	AA494R	56J21-157	56E 53	SHAFT CDU DAC LO	110B
*	AA 85W	56J21-158	56J12-D5	CDU FAIL	124A
*	AA 85R	56J21-159	56J12-F5	CDU FAIL RET	124B
	AA470R	56J21-160	56E 36	COMPUTER RET	135A
	AA470W	56J21-161	56J15-K6	- DELTA V Y	135B

CODE IDENT NO. 99974	SIZE A	1014607
SCALE-NONE	REV LTR B	SHEET 069

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA131R	56J21-240	56J14-D3	+ DY GYRO RATE	144B
	AA504R	56J21-241	56J11-M6	COMPUTER 3200 PPS IN PHASE SYNC	151A
	AA504W	56J21-242	56E 28	COMPUTER 3200 PPS SYNC RET	151B

CODE IDENT NO. 99974	SIZE A	1014607
SCALE-NONE	REV LTR B	SHEET 072

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA219	56TB2-T 1	56J16-F5	OG CDU 16X RSVR LOAD
*	A 466	56TB2-T 3	56J10- 7	SPARE FAIL LIGHT HI
*	A 565	56TB2-T 3	56J08- 50	SPARE FAIL LIGHT HI
*	A 219W	56TB2-T 5	56P02-H	COS AMG 16X S1
*	AA231R	56TB2-T 5	56J16-H3	COS AMG 16X S1
*	A 51L	56TB2-T 6	56J01-105	IG CDU MDA SLEW SIG
*	AA197W	56TB2-T 6	56J16-A2	IG CDU MDA SLEW SIG
	A 51B	56TB2-T 7	SHLD A 51	IG CDU MDA INPUT RET
*	A 51W	56TB2-T 7	56J01- 92	IG CDU MDA INPUT RET
*	AA197L	56TB2-T 7	56J16-B1	IG CDU MDA INPUT RET
*	A 88R	56TB2-T 8	56J03- 21	SIN AOG 1X TO CDU
*	AA205L	56TB2-T 8	56J16-B9	SIN AOG 1X TO CDU
*	A 100	56TB2-U 1	56J03- 34	OG CDU 1X RSVR LOAD
*	AA218	56TB2-U 1	56J16-F6	OG CDU 1X RSVR LOAD
*	A 67W	56TB2-U 4	56J02- 86	COS AMG 16X TO CDU
*	AA231L	56TB2-U 4	56J16-G4	COS AMG 16X TO CDU
*	A 67R	56TB2-U 5	56J02-100	COS AMG 16X S3
*	A 219R	56TB2-U 5	56P02-G	COS AMG 16X S3
*	AA231W	56TB2-U 5	56J16-G3	COS AMG 16X S3
*	A 51R	56TB2-U 6	56J01-106	IG CDU MDA TACH SIG
*	AA197R	56TB2-U 6	56J16-A1	IG CDU MDA TACH SIG
*	A 233W	56TB2-U 7	56P03-G	SIN AOG 1X S2
*	A 359R	56TB2-U 7	56P09- 16	SIN AOG 1X S2
*	AA205W	56TB2-U 7	56J16-A8	SIN AOG 1X S2
*	AA505R	56TB2-U 7	56J22-107	SIN AOG 1X S2
*	A 88W	56TB2-U 8	56J03- 7	SIN AOG 1X S4
*	A 233R	56TB2-U 8	56P03-F	SIN AOG 1X S4
*	A 359W	56TB2-U 8	56P09- 17	SIN AOG 1X S4
*	AA205R	56TB2-U 8	56J16-A9	SIN AOG 1X S4
*	AA505W	56TB2-U 8	56J22-139	SIN AOG 1X S4
	A 91B	56TB2-V 2	SHLD A 91	0 VDC IMU
	A 218B	56TB2-V 2	SHLD A218	0 VDC IMU
	AA540	56TB2-V 2	56TB2-V 3	0 VDC IMU
	A 217B	56TB2-V 3	SHLD A217	0 VDC IMU
	AA596	56TB2-V 3	56TB2-V 4	0 VDC IMU
*	AA540	56TB2-V 3	56TB2-V 2	0 VDC IMU
*	AA590	56TB2-V 3	56TB1-D 7	0 VDC IMU

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CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 106

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA594	56TB2-V 3	56TB3-S 2	0 VDC IMU
	A 90B	56TB2-V 4	SHLD A 90	0 VDC IMU
	AA597	56TB2-V 4	56TB2-V 5	0 VDC IMU
*	AA596	56TB2-V 4	56TB2-V 3	0 VDC IMU
	A 67B	56TB2-V 5	SHLD A 67	0 VDC IMU
	A 219B	56TB2-V 5	SHLD A219	0 VDC IMU
	AA598	56TB2-V 5	56TB2-V 6	0 VDC IMU
*	AA597	56TB2-V 5	56TB2-V 4	0 VDC IMU
	A 43B	56TB2-V 6	SHLD A 43	0 VDC IMU
	A 225B	56TB2-V 6	SHLD A225	0 VDC IMU
	AA599	56TB2-V 6	56TB2-V 8	0 VDC IMU
*	AA598	56TB2-V 6	56TB2-V 5	0 VDC IMU
	A 88B	56TB2-V 8	SHLD A 88	0 VDC IMU
	A 233B	56TB2-V 8	SHLD A233	0 VDC IMU
	A 359B	56TB2-V 8	SHLD A359	0 VDC IMU
	AA505B	56TB2-V 8	SHLD AA505	0 VDC IMU
*	AA599	56TB2-V 8	56TB2-V 6	0 VDC IMU
*	A 55	56TB2-W 1	56J01- 34	IG CDU 1X RSVR LOAD S1
*	AA216	56TB2-W 1	56J16-F2	IG CDU 1X RSVR LOAD
*	A 91W	56TB2-W 2	56J03- 87	SIN AOG 16X S4
*	A 218W	56TB2-W 2	56P02-F	SIN AOG 16X S4
*	AA213R	56TB2-W 2	56J16-D9	SIN AOG 16X S4
*	A 217W	56TB2-W 3	56P02-D	COS AOG 16X S1
*	AA209R	56TB2-W 3	56J16-D7	COS AOG 16X S1
*	A 90R	56TB2-W 4	56J03-100	COS AOG 16X S3
*	A 217R	56TB2-W 4	56P02-C	COS AOG 16X S3
*	AA209W	56TB2-W 4	56J16-F7	COS AOG 16X S3
*	A 75R	56TB2-W 5	56J02-106	MG CDU MDA TACH SIG
*	AA202R	56TB2-W 5	56J16-A3	MG CDU MDA TACH SIG
*	A 43R	56TB2-W 6	56J01-100	COS AIG 16X S3
*	A 225R	56TB2-W 6	56P02-W	COS AIG 16X S3
*	AA230W	56TB2-W 6	56J16-G1	COS AIG 16X S3
*	A 43W	56TB2-W 7	56J01- 86	COS AIG 16X TO CDU
*	AA230L	56TB2-W 7	56J16-G2	COS AIG 16X TO CDU
*	A 79	56TB2-X 1	56J02- 34	MG CDU 1X RSVR LOAD
*	AA217	56TB2-X 1	56J16-F4	MG CDU 1X RSVR LOAD
*	A 91R	56TB2-X 2	56J03-101	SIN AOG 16X TO CDU

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 107

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA207R	56TB2-R 2	56J16-D6	OG CDU ERROR SIG RET
*	AA578	56TB2-R 2	56TB2-S 2	OG CDU ERROR SIG RET
	A 89B	56TB2-R 3	SHLD A 89	OG CDU ERROR SIG RET
	A 338B	56TB2-R 3	SHLD A338	OG CDU ERROR SIG RET
	AA571R	56TB2-R 3	56J17-B2	OG CDU ERROR SIG RET
*	A 89W	56TB2-R 3	56J03- 90	OG CDU ERROR SIG RET
*	A 338W	56TB2-R 3	56P09- 38	OG CDU ERROR SIG RET
*	AA208W	56TB2-R 3	56J16-D6	OG CDU ERROR SIG RET
*	AA571A	56TB2-R 3	SHLD AA571	OG CDU ERROR SIG RET
*	A 9	56TB2-R 4	56P01- 57	ENTRY RELAY CONTROL
*	AA221	56TB2-R 4	56J16-M1	ENTRY RELAY CONTROL
*	A 80	56TB2-R 5	56J02- 30	+28 VDC IMU FOR MG MDA
*	AA211	56TB2-R 5	56J16-T1	+28 VDC IMU FOR MG MDA
*	A 96L	56TB2-R 6	56J03-105	OG CDU MDA SLEW SIG
*	AA214W	56TB2-R 6	56J16-A6	OG CDU MDA SLEW SIG
	A 96B	56TB2-R 7	SHLD A 96	OG CDU MDA INPUT RET
*	A 96W	56TB2-R 7	56J03- 92	OG CDU MDA INPUT RET
*	AA214L	56TB2-R 7	56J16-B5	OG CDU MDA INPUT RET
*	A 87R	56TB2-R 8	56J03- 20	COS AOG 1X TO CDU
*	AA204L	56TB2-R 8	56J16-C9	COS AOG 1X TO CDU
	A 23B	56TB2-S 2	SHLD A 23	OG CDU ERROR SIG RET
	A 86B	56TB2-S 2	SHLD A 86	OG CDU ERROR SIG RET
	A 366B	56TB2-S 2	SHLD A366	OG CDU ERROR SIG RET
	AA578	56TB2-S 2	56TB2-R 2	OG CDU ERROR SIG RET
*	A 179	56TB2-S 3	56J08- 67	+28 VDC MDV
*	A 410	56TB2-S 3	56J09- 67	+28 VDC MDV
*	A 185	56TB2-S 4	56J08- 93	STEP-DOWN-R
*	A 411	56TB2-S 4	56J09- 93	STEP-DOWN-R
*	A 186	56TB2-S 5	56J08- 79	STEP-DOWN-C
*	A 412	56TB2-S 5	56J09- 79	STEP-DOWN-C
*	A 183	56TB2-S 6	56J08-106	STEP-UP-R
*	A 413	56TB2-S 6	56J09-106	STEP-UP-R
*	A 184	56TB2-S 7	56J08- 78	STEP-UP-C
*	A 414	56TB2-S 7	56J09- 78	STEP-UP-C
*	A 202	56TB2-S 8	56J08- 18	GIMBAL LOCK LIGHT HI
*	A 455	56TB2-S 8	56P10- 24	GIMBAL LOCK LIGHT HI
*	A 101	56TB2-T 1	56J03- 89	OG CDU 16X RSVR LOAD

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 105

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA213L	56TB2-X 2	56J16-F9	SIN AOG 16X TO CDU
*	A 218R	56TB2-X 3	56P02-E	SIN AOG 16X S2
*	AA213W	56TB2-X 3	56J16-D8	SIN AOG 16X S2
*	A 90W	56TB2-X 4	56J03- 86	COS AOG 16X TO CDU
*	AA209L	56TB2-X 4	56J16-F8	COS AOG 16X TO CDU
*	A 75L	56TB2-X 5	56J02-105	MG CDU MDA SLEW SIG
*	AA202W	56TB2-X 5	56J16-A4	MG CDU MDA SLEW SIG
	A 75B	56TB2-X 6	SHLD A 75	MG CDU MDA INPUT RET
*	A 75W	56TB2-X 6	56J02- 92	MG CDU MDA INPUT RET
*	AA202L	56TB2-X 6	56J16-B3	MG CDU MDA INPUT RET
*	A 225W	56TB2-X 7	56P02-X	COS AIG 16X S1
*	AA230R	56TB2-X 7	56J16-H1	COS AIG 16X S1

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 108

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 389W	56J22-193	56J09- 3	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 387R	56J22-195	56J09- 18	PITCH ATTIT IMPULSE CONTR INPUT
*	A 388L	56J22-197	56J09- 6	YAW ATTIT IMPULSE CONTR OUTPUT LEFT
*	A 388W	56J22-198	56J09- 20	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 393W	56J22-200	56J09- 40	0 VDC FROM NAA
*	AA292	56J22-206	56J17-M3	0 VDC SPACECRAFT
*	AA175	56J22-227	56J15-S3	LOCK CDU RELAY CONTROL
*	AA220	56J22-228	56J16-L1	FINE ALIGN RELAY CONTROL
*	A 389R	56J22-230	56J09- 16	ROLL ATTIT IMPULSE CONTR INPUT
*	A 387L	56J22-232	56J09- 5	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN
*	A 387W	56J22-233	56J09- 4	PITCH ATTIT IMPULSE CONTR OUTPUT UP
*	A 388R	56J22-235	56J09- 7	YAW ATTIT IMPULSE CONTR INPUT
*	A 393R	56J22-237	56J09- 41	+28 VDC FROM NAA
*	A 393L	56J22-238	56J09- 50	ATTITUDE DISABLE SIG TO NAA
*	AA293	56J22-243	56J17-L3	IMU TEMP LIGHT (MAIN PANEL)
*	AA 74	56J22-244	56J12-G3	ERROR DETECT LIGHT MAIN PANEL

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 074

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 150R	56P01- 1	56J06- 1	PITCH ATTITUDE ERROR METER +
*	A 150W	56P01- 2	56J06- 2	PITCH ATTITUDE ERROR METER -
	A 26	56P01- 4	56TB1-D 6	COARSE ALIGN RELAY CONTROL
	A 10	56P01- 5	56TB2-C 1	FINE ALIGN RELAY CONTROL
*	A 161	56P01- 6	56J06- 6	ENTRY RELAY CONTROL RESET
	A 21	56P01- 7	56TB3-S21	+28 VDC IMU
*	A 160	56P01- 9	56J06- 9	MODE SWITCH INTERLOCK
	A 19W	56P01- 10	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
	A 19R	56P01- 11	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
	A 8	56P01- 12	56TB2-B 2	ZERO ENCODER RELAY CONTROL
	A 5	56P01- 13	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC
*	A 151R	56P01- 14	56J06- 14	YAW ATTITUDE ERROR METER +
*	A 151W	56P01- 15	56J06- 15	YAW ATTITUDE ERROR METER -
*	A 157	56P01- 18	56J06- 18	MODE RELAY COMMON TO D AND C ELECT
*	A 175	56P01- 22	56J06- 22	ATTITUDE CONTROL MODE LIGHT
*	A 165	56P01- 23	56J06- 23	FINE ALIGN RELAY CONTROL
	A 12	56P01- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
*	A 167	56P01- 25	56J06- 25	ENTRY RELAY CONTROL
	A 22	56P01- 26	56TB1-U 2	IMU DELAY LIGHT HI
	A 6	56P01- 27	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC
*	A 152W	56P01- 28	56J06- 28	ROLL ATTITUDE ERROR METER -
*	A 152R	56P01- 29	56J06- 29	ROLL ATTITUDE ERROR METER +
*	A 162	56P01- 34	56J06- 34	ZERO ENCODER RELAY CONTROL
*	A 163	56P01- 35	56J06- 35	COARSE ALIGN RELAY CONTROL
*	A 164	56P01- 36	56J06- 36	CDU MANUAL RELAY CONTROL
	A 30	56P01- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL
	A 3	56P01- 38	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC
	A 16W	56P01- 39	56J21-226	ENTRY MODE INDICATION TO AGC 163A
	A 31	56P01- 45	56TB3-M 2	IMU TD RELAY C
*	A 177	56P01- 46	56J06- 46	ATTITUDE CONTROL MODE INTERLOCK
	A 4	56P01- 48	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC
	A 15W	56P01- 49	56J21-222	FINE ALIGN MODE INDICATION TO AGC 161A
	A 32	56P01- 55	56TB3-L 2	IMU TD RELAY NO
*	A 170	56P01- 56	56J06- 56	MANUAL ALIGN
	A 9	56P01- 57	56TB2-R 4	ENTRY RELAY CONTROL
	A 7	56P01- 58	56TB1-K 6	ENTRY MODE COMMAND FROM AGC
	A 14W	56P01- 59	56J21-154	COARSE ALIGN MODE INDICATION TO AGC 159A

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 075

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA287W	56J22- 1	56J17-A3	ROLL ERROR BODY OFFSET AXIS HI
	AA287B	56J22- 2	SHLD AA287	
*	AA244W	56J22- 3	56J17-A4	ROLL ERROR BODY AXIS HI
*	AA244R	56J22- 4	56J17-B4	ROLL ERROR BODY AXIS LO
	AA245B	56J22- 5	SHLD AA245	
*	AA245W	56J22- 6	56J17-C4	YAW ERROR BODY AXIS HI
	AA246B	56J22- 8	SHLD AA246	
*	AA288R	56J22- 10	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA288B	56J22- 11	SHLD AA288	
*	A 197	56J22- 37	56J08- 54	MASTER ALARM LIGHT LO
*	A 196	56J22- 38	56J08- 53	MASTER ALARM LIGHT HI
*	AA287R	56J22- 39	56J17-B3	ROLL ERROR BODY OFFSET AXIS LO
	AA244B	56J22- 41	SHLD AA244	
*	AA245R	56J22- 43	56J17-D4	YAW ERROR BODY AXIS LO
*	AA246W	56J22- 45	56J17-C3	YAW ERROR BODY OFFSET AXIS HI
*	AA246R	56J22- 46	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	AA288W	56J22- 48	56J17-D1	PITCH ERROR BODY AND BODY OFFSET AXIS HI
*	A 207	56J22- 71	56J08- 32	MASTER WARNING LIGHT LO
*	A 206	56J22- 72	56J08- 43	MASTER WARNING LIGHT HI
	AA505R	56J22-107	56TB2-U 7	SIN AOG 1X S2
	AA507R	56J22-111	56TB3-C14	SIN AMG 1X
	AA508W	56J22-113	56TB3-N20	COS AMG 1X S3
	AA508R	56J22-114	56TB3-N21	COS AMG 1X S1
	AA509W	56J22-116	56TB3-D13	SIN AIG 1X RET
*	AA517R	56J22-120	56TB3-R21	800 CPS 28 V 1 PCT LO IMU
	AA505W	56J22-139	56TB2-U 8	SIN AOG 1X S4
	AA506W	56J22-141	56TB2-N 8	COS AOG 1X S3
	AA506R	56J22-142	56TB2-N 7	COS AOG 1X S1
	AA507W	56J22-144	56TB3-C13	SIN AMG 1X RET
	AA509R	56J22-148	56TB3-D14	SIN AIG 1X
	AA510W	56J22-150	56TB3-F13	COS AIG 1X RET
	AA510R	56J22-151	56TB3-F14	COS AIG 1X
*	AA517W	56J22-153	56TB3-R22	800 CPS 28 V 1 PCT HI IMU
*	A 461	56J22-171	56P10- 8	MAIN PANEL GIMBAL LOCK LIGHT
*	AA570	56J22-172	56TB3-F 2	MAIN PANEL CONDITION LAMP TEST
*	AA518	56J22-190	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
*	A 389L	56J22-192	56J09- 17	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 073

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 2	56P01- 65	56TB3-L 1	IRIG TEMP GAIN SWITCH NC
	A 13W	56P01- 68	56TB2-D 2	AGC COM
	A 11	56P01- 69	56TB2-B 1	LOCK CDU RELAY CONTROL
	A 24R	56P01- 70	56TB2-H 2	IG CDU 1X ERROR SIG
	A 24W	56P01- 71	56TB2-G 2	IG CDU ERROR SIG RET
	A 27W	56P01- 76	56J21-224	ATTIT CONT MODE INDICATION TO AGC 162A
	A 20	56P01- 78	56TB2-L 4	0 VDC IMU
*	A 176	56P01- 79	56J06- 79	ENTRY MODE LIGHT
	A 1R	56P01- 80	56TB2-A 2	PANEL BRIGHTNESS CONTROL
	A 25R	56P01- 82	56TB2-H 7	MG CDU 1X ERROR SIG
	A 25W	56P01- 83	56TB2-G 7	MG CDU ERROR SIG RET
	A 33	56P01- 84	56TB3-F21	STRUCTURE GND
	A 28	56P01- 88	56TB3-F 3	CONDITION LAMP TEST
	A 29	56P01- 89	56TB3-M21	+28 VDC MDV
	A 17K	56P01- 90	56TB1-M 1	400 CPS 5.5V HI TO PANEL BRIGHTNESS CONT
	A 18	56P01- 91	56TB1-K 1	MODE LAMP TEST PWR
*	A 172	56P01- 92	56J06- 92	COARSE ALIGN MODE LIGHT
*	A 168	56P01- 93	56J06- 93	MODE RELAY COMMON
*	A 174	56P01- 94	56J06- 94	FINE ALIGN MODE LIGHT
	A 1W	56P01- 95	56TB2-A 1	PANEL BRIGHTNESS CONTROL
	A 23R	56P01- 96	56TB2-N 2	OG CDU 1X ERROR SIG
	A 23W	56P01- 97	56TB2-R 2	OG CDU ERROR SIG RET
	A 17R	56P01-103	56TB1-R 1	400 CPS VAR ILLUM PWR
*	A 171	56P01-104	56J06-104	ZERO ENCODER MODE LIGHT
*	A 173	56P01-105	56J06-105	CDU MANUAL MODE LIGHT
	A 17L	56P01-106	56TB1-N 1	400 CPS 5.5V HI TO PANEL BRIGHTNESS CONT
	A 17W	56P01-108	56TB1-R 1	400 CPS VAR ILLUM PWR

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 076

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA412R	56TB3-C 3	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 370	56TB3-C 4	56P09- 73	BLOWER CURRENT SENSOR (TELEMETERY)
*	AA271	56TB3-C 4	56J17-F6	BLOWER CURRENT SENSOR (TELEMETERY)
*	A 368	56TB3-C 5	56P09- 85	IRIG TEMP (TELEMETRY)
*	AA273	56TB3-C 5	56J17-F4	IRIG TEMP (TELEMETRY)
*	A 209R	56TB3-C 6	56J08- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 448R	56TB3-C 6	56J09- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 373W	56TB3-C 7	56P09-101	DIRECT TRUNNION CONTROLLER LO (TEST)
*	AA340W	56TB3-C 7	56J18-M1	DIRECT TRUNNION CONTROLLER LO (TEST)
*	A 383W	56TB3-C 8	56P09- 99	TRUNNION CDU MDA LO (TEST)
*	AA341W	56TB3-C 8	56J18-M3	TRUNNION CDU MDA LO (TEST)
*	A 375R	56TB3-C 9	56P09- 90	SXT TRUNNION MDA OUTPUT HI (TEST)
*	AA391R	56TB3-C 9	56J19-L1	SXT TRUNNION MDA OUTPUT HI (TEST)
*	A 375W	56TB3-C10	56P09-103	SXT TRUNNION MDA OUTPUT LO (TEST)
*	AA391W	56TB3-C10	56J19-K1	SXT TRUNNION MDA OUTPUT LO (TEST)
*	A 122W	56TB3-C11	56J04- 32	SHAFT CDU MOTOR CONTROL WINDING
*	AA321	56TB3-C11	56J18-R2	SHAFT CDU MOTOR CONTROL WINDING
*	A 145W	56TB3-C12	56J05- 32	TRUNNION CDU MOTOR CONTROL WINDING
*	AA320	56TB3-C12	56J18-R1	TRUNNION CDU MOTOR CONTROL WINDING
*	A 65R	56TB3-C13	56J02- 21	SIN AMG 1X RET
*	A 222W	56TB3-C13	56P02-N	SIN AMG 1X RET S2
*	A 357R	56TB3-C13	56P09- 15	SIN AMG 1X RET
*	AA507W	56TB3-C13	56J22-144	SIN AMG 1X RET
*	A 65W	56TB3-C14	56J02- 7	SIN AMG 1X
*	A 222R	56TB3-C14	56P02-P	SIN AMG 1X S4
*	A 357W	56TB3-C14	56P09- 29	SIN AMG 1X
*	AA507R	56TB3-C14	56J22-111	SIN AMG 1X
	AA609	56TB3-C15	56TB3-D15	0 VDC OPTICS
*	A 540	56TB3-C15	56P12-G	0 VDC OPTICS
*	AA565	56TB3-C15	56TB3-K22	0 VDC OPTICS
*	AA566	56TB3-C15	56TB3-K21	0 VDC OPTICS
*	AA567	56TB3-C15	56TB3-K20	0 VDC OPTICS
*	A 300L	56TB3-C16	56P08-G	SCT TRUNNION MOTOR CONTROL WINDING BLK
*	A 376W	56TB3-C16	56P09- 92	SCT TRUNNION MOTOR CONTROL WINDING
*	AA360W	56TB3-C16	56J19-T3	SCT TRUNNION MOTOR CONTROL WINDING
*	A 300W	56TB3-C17	56P08-E	SCT TRUNNION MOTOR CONTROL WINDING RED
*	A 376R	56TB3-C17	56P09- 91	SCT TRUNNION MOTOR CONTROL WINDING

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 110

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA360R	56TB3-C17	56J19-T2	SCT TRUNNION MOTOR CONTROL WINDING
*	A 246R	56TB3-C18	56P05-P	+28 VDC OPTICS
*	A 259R	56TB3-C18	56P05-B	+28 VDC OPTICS
*	AA515	56TB3-C18	56TB3-M20	+28 VDC OPTICS
*	A 300R	56TB3-C19	56P08-F	+28 VDC OPTICS
*	A 308R	56TB3-C19	56P08-H	+28 VDC OPTICS
*	AA558	56TB3-C19	56TB3-M20	+28 VDC OPTICS
*	A 525	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	AA428	56TB3-C20	56J20-N1	+28 VDC IMU BUSS A
*	A 526	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	AA432	56TB3-C21	56J20-S1	+28 VDC IMU BUSS A
*	A 536	56TB3-C22	56P12-M	+28 VDC STBY BUSS B
*	AA443	56TB3-C22	56J20-R4	+28 VDC STBY BUSS B
*	A 439	56TB3-D 1	56J09- 94	0 VDC IMU
*	AA264	56TB3-D 1	56J17-M1	0 VDC IMU
*	A 320R	56TB3-D 2	56P09- 22	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 567R	56TB3-D 2	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA250W	56TB3-D 2	56J17-R4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA412W	56TB3-D 2	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 192	56TB3-D 3	56J08- 62	IMU TEMP CONT FAIL LIGHT HI
*	A 344	56TB3-D 3	56P09- 11	IMU TEMP CONT FAIL LIGHT HI
*	AA275	56TB3-D 3	56J17-P5	IMU TEMP CONT FAIL LIGHT HI
*	A 367	56TB3-D 4	56P09- 98	ACCEL TEMP (TELEMETRY)
*	AA272	56TB3-D 4	56J17-F5	ACCEL TEMP (TELEMETRY)
*	A 369	56TB3-D 5	56P09- 97	HTR CURRENT (TELEMETERY)
*	AA274	56TB3-D 5	56J17-F3	HTR CURRENT (TELEMETRY)
*	A 269	56TB3-D 6	56P05-D	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
*	A 417	56TB3-D 6	56J09- 82	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
*	A 373R	56TB3-D 7	56P09-100	DIRECT TRUNNION CONTROLLER HI (TEST)
*	AA340R	56TB3-D 7	56J18-N1	DIRECT TRUNNION CONTROLLER HI (TEST)
*	A 383R	56TB3-D 8	56P09- 86	TRUNNION CDU MDA HI (TEST)
*	AA341R	56TB3-D 8	56J18-N3	TRUNNION CDU MDA HI (TEST)
*	A 372R	56TB3-D 9	56P09- 87	SHAFT CDU MDA (TEST) HI
*	AA343R	56TB3-D 9	56J18-N6	SHAFT CDU MDA (TEST) HI
*	A 372W	56TB3-D10	56P09- 88	SHAFT CDU MDA (TEST) LO
*	AA343W	56TB3-D10	56J18-M6	SHAFT CDU MDA (TEST) LO
*	A 122L	56TB3-D11	56J04- 31	SHAFT CDU MOTOR CONTROL WINDING

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 111

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 190	56TB3-B 2	56J08- 73	ACCEL FAIL LIGHT HI	
*	A 333	56TB3-B 2	56P09- 49	ACCEL FAIL LIGHT HI	
*	A 474L	56TB3-B 2	56J10- 5	ACCEL FAIL LIGHT HI	303
*	A 200	56TB3-B 3	56J08- 72	CDU FAIL LIGHT HI	
*	A 335	56TB3-B 3	56P09- 47	CDU FAIL LIGHT HI	
*	A 474R	56TB3-B 3	56J10- 4	CDU FAIL LIGHT HI	302
*	A 203	56TB3-B 4	56J08- 41	ZERO ENCODER LIGHT HI	
*	A 346	56TB3-B 4	56P09- 35	ZERO ENCODER LIGHT HI	
*	A 474W	56TB3-B 4	56J10- 3	ZERO ENCODER LIGHT HI	301
*	A 209W	56TB3-B 6	56J08- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 448W	56TB3-B 6	56J09- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 374R	56TB3-B 7	56P09- 89	DIRECT SHAFT CONTROLLER HI (TEST)	
*	AA342R	56TB3-B 7	56J18-N4	DIRECT SHAFT CONTROLLER HI (TEST)	
*	A 374W	56TB3-B 8	56P09-102	DIRECT SHAFT CONTROLLER LO (TEST)	
*	AA342W	56TB3-B 8	56J18-M4	DIRECT SHAFT CONTROLLER LO (TEST)	
*	A 377R	56TB3-B 9	56P09-104	SXT SHAFT MDA OUTPUT HI (TEST)	
*	AA392R	56TB3-B 9	56J19-L3	SXT SHAFT MDA OUTPUT HI (TEST)	
*	A 377W	56TB3-B10	56P09-105	SXT SHAFT MDA OUTPUT LO (TEST)	
*	AA392W	56TB3-B10	56J19-K3	SXT SHAFT MDA OUTPUT LO (TEST)	
*	A 394	56TB3-B11	56J09- 72	ZERO OPTICS RELAY CONTROL	
*	AA337	56TB3-B11	56J18-P4	ZERO OPTICS RELAY CONTROL	
*	A 182W	56TB3-B12	56J08- 81	400 CPS 26 V SLEW	
*	A 409W	56TB3-B12	56J09- 81	400 CPS 26 V SLEW	
*	A 182R	56TB3-B13	56J08- 68	400 CPS 26 V MDV RSVR EXC	
*	A 409R	56TB3-B13	56J09- 68	400 CPS 26 V MDV RSVR EXC	
*	A 199	56TB3-B14	56J08- 95	400 CPS 26 V LO	
*	A 460	56TB3-B14	56P10- 49	400 CPS 26 V LO	
	AA514	56TB3-B15	56TB3-D15	0 VDC OPTICS	
*	AA537	56TB3-B15	56TB3-T15	0 VDC OPTICS	
*	AA538	56TB3-B15	56TB3-G 9	0 VDC OPTICS	
*	A 396	56TB3-C 1	56J09- 98	ACCEL BRIDGE AMP PIN 6	
*	AA257	56TB3-C 1	56J17-F7	ACCEL BRIDGE AMP PIN 6	
*	A 281R	56TB3-C 2	56P06-F*	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
*	AA250R	56TB3-C 2	56J17-P4	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
*	A 281W	56TB3-C 3	56P06-G*	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
*	A 320W	56TB3-C 3	56P09- 34	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
*	A 567W	56TB3-C 3	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 109

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA322	56TB3-D11	56J18-P2	SHAFT CDU MOTOR CONTROL WINDING	
*	A 145L	56TB3-D12	56J05- 31	TRUNNION CDU MOTOR CONTROL WINDING	
*	AA319	56TB3-D12	56J18-P1	TRUNNION CDU MOTOR CONTROL WINDING	
*	A 41R	56TB3-D13	56J01- 21	SIN AIG 1X RET P4	
*	A 228R	56TB3-D13	56P02-F*	SIN AIG 1X RET S2	
*	A 355R	56TB3-D13	56P09- 1	SIN AIG 1X RET	
*	AA509W	56TB3-D13	56J22-116	SIN AIG 1X RET	
*	A 41W	56TB3-D14	56J01- 7	SIN AIG 1X P2	
*	A 228W	56TB3-D14	56P02-G*	SIN AIG 1X S4	
*	A 355W	56TB3-D14	56P09- 14	SIN AIG 1X	
*	AA509R	56TB3-D14	56J22-148	SIN AIG 1X	
	AA516	56TB3-D15	56TB3-L20	0 VDC OPTICS	
*	A 529	56TB3-D15	56P11-G	0 VDC OPTICS	
*	AA514	56TB3-D15	56TB3-B15	0 VDC OPTICS	
*	AA563	56TB3-D15	56TB3-L21	0 VDC OPTICS	
*	AA564	56TB3-D15	56TB3-L22	0 VDC OPTICS	
*	AA609	56TB3-D15	56TB3-C15	0 VDC OPTICS	
*	A 246L	56TB3-D16	56P05-J*	SXT TRUNNION MOTOR CONTROL WINDING BLK	
*	AA358W	56TB3-D16	56J19-S3	SXT TRUNNION MOTOR CONTROL WINDING	
*	A 246W	56TB3-D17	56P05-I*	SXT TRUNNION MOTOR CONTROL WINDING RED	
*	AA358R	56TB3-D17	56J19-S2	SXT TRUNNION MOTOR CONTROL WINDING	
*	A 259W	56TB3-D18	56P05-A	SXT SHAFT MOTOR CONTROL WINDING RED	
*	AA359R	56TB3-D18	56J19-P1	SXT SHAFT MOTOR CONTROL WINDING	
	AA526	56TB3-D19	56J21-129	AGC TEMP MONITOR NO 3	173
*	A 371W	56TB3-D19	56P09- 75	AGC TEMP MONITOR NO 3	
*	AA418	56TB3-D19	56J20-B1	AGC TEMP MONITOR NO 3	
*	A 537	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	AA433	56TB3-D20	56J20-N2	+28 VDC IMU BUSS B	
*	A 538	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	AA437	56TB3-D21	56J20-S2	+28 VDC IMU BUSS B	
*	A 524	56TB3-D22	56P11-M	+28 VDC STBY BUSS A	
*	AA441	56TB3-D22	56J20-R3	+28 VDC STBY BUSS A	
*	A 462	56TB3-F 1	56P10- 9	0 VDC SPACECRAFT	
*	AA278	56TB3-F 1	56J17-M3	0 VDC SPACECRAFT	
	AA570	56TB3-F 2	56J22-172	MAIN PANEL CONDITION LAMP TEST	
*	A 463	56TB3-F 2	56P10- 22	MAIN PANEL CONDITION LAMP TEST	
*	AA279	56TB3-F 2	56J17-L2	MAIN PANEL CONDITION LAMP TEST	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 112

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 229W	56P03-A	56TB1-C 7	X GYRO ERROR SIG
A 239W	56P03-A*	56TB1-A 3	MG TORQUE MOTOR RET
A 230W	56P03-B	56TB1-C 8	Z GYRO ERROR SIG
A 240R	56P03-B*	56TB1-A 3	MG TORQUE MOTOR RET
A 231R	56P03-C	56TB1-A 8	IMU OG ERROR SIG
A 240W	56P03-C*	56TB1-A 4	MG TORQUE MOTOR HI
A 232R	56P03-D	56TB2-N 8	COS AOG 1X S3
A 241R	56P03-D*	56TB1-D 3	IG TORQUE MOTOR HI
A 232W	56P03-E	56TB2-N 7	COS AOG 1X S1
A 241W	56P03-E*	56TB1-D 4	IG TORQUE MOTOR RET
A 233R	56P03-F	56TB2-U 8	SIN AOG 1X S4
A 242R	56P03-F*	56TB1-D 4	IG TORQUE MOTOR RET
A 233W	56P03-G	56TB2-U 7	SIN AOG 1X S2
A 242W	56P03-G*	56TB1-D 3	IG TORQUE MOTOR HI
A 234W	56P03-H	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR
A 244	56P03-H*	56TB3-T20	+28 VDC IMU
A 234R	56P03-J	56TB1-B 5	IG CDU ERROR SIG RET
A 243	56P03-J*	56TB3-F 5	GIMBAL LOCK SIGNAL
A 235R	56P03-K	56TB1-A 6	MG CDU ERROR SIG RET
A 235W	56P03-L	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR
A 236W	56P03-M	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
A 236R	56P03-N	56TB3-R 4	PITCH YAW RSVR S3
A 237W	56P03-P	56TB3-R 1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
A 237R	56P03-R	56TB3-R 2	PITCH-YAW RSVR S4
A 231L	56P03-U	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 231W	56P03-V	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 231K	56P03-W	56TB1-A 7	IMU MG ERROR SIG
A 238R	56P03-X	56TB1-B 2	OG TORQUE MOTOR RET
A 238W	56P03-Y	56TB1-A 2	OG TORQUE MOTOR HI
A 239R	56P03-Z	56TB1-A 4	MG TORQUE MOTOR HI

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 078

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 268W	56P04-A	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
*	A 268R	56P04-C	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
*	A 251W	56P04-F	56P05-FF	AS 16X RSVR P4 TRIM
*	A 251R	56P04-H	56P05-EE	AS 16X RSVR P2 TRIM
*	A 267W	56P04-J	56P05-W	AT 64X RSVR P4 TRIM
*	A 267R	56P04-K	56P05-X	AT 64X RSVR P2 TRIM

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 079

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 216R	56P02-A	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
A 227R	56P02-A*	56TB3-F14	COS AIG 1X S3
A 216W	56P02-B	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
A 227W	56P02-B*	56TB3-F13	COS AIG 1X RET S1
A 217R	56P02-C	56TB2-W 4	COS AOG 16X S3
A 217W	56P02-D	56TB2-W 3	COS AOG 16X S1
A 218R	56P02-E	56TB2-X 3	SIN AOG 16X S2
A 218W	56P02-F	56TB2-W 2	SIN AOG 16X S4
A 228R	56P02-F*	56TB3-D13	SIN AIG 1X RET S2
A 219R	56P02-G	56TB2-U 5	COS AMG 16X S3
A 228W	56P02-G*	56TB3-D14	SIN AIG 1X S4
A 219W	56P02-H	56TB2-T 5	COS AMG 16X S1
A 220R	56P02-J	56TB2-A 7	SIN AMG 16X S2
A 220W	56P02-K	56TB2-B 7	SIN AMG 16X S4
A 221R	56P02-L	56TB3-N20	COS AMG 1X S3
A 221W	56P02-M	56TB3-N21	COS AMG 1X S1
A 222W	56P02-N	56TB3-C13	SIN AMG 1X RET S2
A 222R	56P02-P	56TB3-C14	SIN AMG 1X S4
A 223R	56P02-R	56TB1-D 2	3200 CPS 2 V HI
A 223W	56P02-S	56TB1-C 2	3200 CPS 2 V LO
A 224R	56P02-T	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
A 224W	56P02-U	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
A 225R	56P02-W	56TB2-W 6	COS AIG 16X S3
A 225W	56P02-X	56TB2-X 7	COS AIG 16X S1
A 226R	56P02-Y	56TB2-A 8	SIN AIG 16X S2
A 226W	56P02-Z	56TB2-B 8	SIN AIG 16X S4

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 077

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 259W	56P05-A	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING RED
	A 264	56P05-AA	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
	A 253R	56P05-A*	56TB3-S 8	SXT AT 64X RSVR COS HI
	A 259R	56P05-B	56TB3-C18	+28 VDC OPTICS
	A 263W	56P05-BB	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
	A 253W	56P05-B*	56TB3-S 7	SXT AT 64X RSVR COS LO
	A 259L	56P05-C	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING BLK
	A 265R	56P05-CC	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
*	A 247R	56P05-CC	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
	A 254R	56P05-C*	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
	A 269	56P05-D	56TB3-D 6	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
	A 265W	56P05-DD	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
*	A 247W	56P05-DD	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
	A 254W	56P05-D*	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
	A 245W	56P05-E	56TB2-L 8	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	A 251R	56P05-EE	56P04-H	AS 16X RSVR P2 TRIM
	A 255R	56P05-E*	56TB3-G16	TRUNNION CDU 1/4X COS LO
	A 251W	56P05-FF	56P04-F	AS 16X RSVR P4 TRIM
	A 255W	56P05-F*	56TB3-F16	TRUNNION CDU 1/4X COS HI
	A 256R	56P05-G*	56TB3-G10	TRUNNION CDU 1/4X SIN HI
	A 263R	56P05-HH	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
	A 256W	56P05-H*	56TB3-F10	TRUNNION CDU 1/4X SIN LO
	A 246W	56P05-I*	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING RED
	A 247W	56P05-J	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
	A 268R	56P05-J	56P04-C	800 CPS 28 V 1 PCT LO OPTICS
	A 246L	56P05-J*	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING BLK
	A 247R	56P05-K	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS
	A 268W	56P05-K	56P04-A	800 CPS 28 V 1 PCT HI OPTICS
	A 257R	56P05-K*	56TB3-T16	SXT TRUNNION TACH HI
	A 266R	56P05-L	56TB1-T 1	400 CPS VAR ILLUM PWR
	A 266W	56P05-M	56TB1-T 2	400 CPS 6 V LO
	A 257W	56P05-M*	56TB3-T17	SXT TRUNNION TACH LO
	A 248R	56P05-N*	56TB3-R 8	SXT AS 16X RSVR SIN HI
	A 246R	56P05-P	56TB3-C18	+28 VDC OPTICS
	A 248W	56P05-P*	56TB3-R 7	SXT AS 16X RSVR SIN LO
	A 258R	56P05-Q*	56TB3-R10	SXT AS 16X RSVR COS LO
	A 270	56P05-R	56TB3-F21	STRUCTURE GND

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 080

MIL 2074 12-62

INCHES
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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 308L	56TB3-F17	56P08-D*	SCT SHAFT MOTOR CONTROL WINDING BLK	
*	A 378W	56TB3-F17	56P09- 77	SCT SHAFT MOTOR CONTROL WINDING	
*	AA361W	56TB3-F17	56J19-R2	SCT SHAFT MOTOR CONTROL WINDING	
*	A 259L	56TB3-F18	56P05-C	SXT SHAFT MOTOR CONTROL WINDING BLK	
*	AA359W	56TB3-F18	56J19-R1	SXT SHAFT MOTOR CONTROL WINDING	
	AA529	56TB3-F19	56J21-162	AGC TEMP MONITOR NO 2	172
*	A 371R	56TB3-F19	56P09- 74	AGC TEMP MONITOR NO 2	
*	AA417	56TB3-F19	56J20-A2	AGC TEMP MONITOR NO 2	
	AA528	56TB3-F20	56J21-140	0 VDC AGC	170
	AA532	56TB3-F20	56J21-208	0 VDC AGC	170
*	A 542	56TB3-F20	56P12-J	0 VDC AGC	
	A 548	56TB3-F21	56F 12	STRUCTURE GND	
*	A 33	56TB3-F21	56P01- 84	STRUCTURE GND	
*	A 270	56TB3-F21	56P05-R	STRUCTURE GND	
*	A 288	56TB3-F21	56P06-G	STRUCTURE GND	
*	A 535	56TB3-F21	56P11-L	STRUCTURE GND	
*	AA607	56TB3-F21	56TB3-F22	STRUCTURE GND	
	AA607	56TB3-F22	56TB3-F21	STRUCTURE GND	
*	A 178	56TB3-F22	56J06- 91	STRUCTURE GND	
*	A 215	56TB3-F22	56J08- 29	STRUCTURE GND	
*	A 316	56TB3-F22	56P08-T*	STRUCTURE GND	
*	A 451	56TB3-F22	56J09- 91	STRUCTURE GND	
*	A 545	56TB3-F22	56P12-L	STRUCTURE GND	
*	AA462	56TB3-F22	56J20-G4	STRUCTURE GND	
*	A 401R	56TB3-G 1	56J09-100	IMU HTR CURRENT AMP PIN 5	
*	AA258K	56TB3-G 1	56J17-N6	IMU HTR CURRENT AMP PIN 5	
*	A 401K	56TB3-G 2	56J09- 88	IMU TEMP CONT K2 PIN 5	
*	AA258L	56TB3-G 2	56J17-N5	IMU TEMP CONT K2 PIN 5	
*	A 443	56TB3-G 3	56J09- 89	IRIG ZERO DEVIATION CHECK	
*	AA253	56TB3-G 3	56J17-B8	IRIG ZERO DEVIATION CHECK	
*	A 442	56TB3-G 4	56J09- 85	IRIG TEMP BRIDGE AMP PIN 6	
*	AA254	56TB3-G 4	56J17-C7	IRIG TEMP BRIDGE AMP PIN 6	
*	A 274	56TB3-G 5	56P06-K	IMU TEMP SENSOR COM	
*	A 277	56TB3-G 5	56J17-M2	IMU TEMP SENSOR COM	
*	A 120	56TB3-G 6	56J04- 3	SHAFT CDU MOTOR EXC	
*	A 423	56TB3-G 6	56J09- 38	SHAFT CDU MOTOR EXC	
*	A 421R	56TB3-G 7	56J09- 56	TRUNNION CDU DAC OUTPUT HI	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 114

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA344W	56TB3-G 7	56J18-G3	TRUNNION CDU DAC OUTPUT HI	
*	A 422R	56TB3-G 8	56J09- 48	SHAFT CDU DAC OUTPUT HI	
*	AA345W	56TB3-G 8	56J18-G2	SHAFT CDU DAC OUTPUT HI	
	A 130B	56TB3-G 9	SHLD A130	0 VDC OPTICS	
	A 256B	56TB3-G 9	SHLD A256	0 VDC OPTICS	
	AA538	56TB3-G 9	56TB3-R15	0 VDC OPTICS	
	AA541	56TB3-G 9	56TB3-H 9	0 VDC OPTICS	
*	A 130R	56TB3-G10	56J05- 8	TRUNNION CDU 1/4X SIN HI	
*	A 256R	56TB3-G10	56P05-G*	TRUNNION CDU 1/4X SIN HI	
*	AA330W	56TB3-G10	56J18-F1	TRUNNION CDU 1/4X SIN HI	
*	A 426R	56TB3-G11	56J09- 19	TRUNNION CDU MDA CONTROLLER SIG HI	
*	AA335W	56TB3-G11	56J18-C7	TRUNNION CDU MDA CONTROLLER SIG HI	
	A 426B	56TB3-G12	SHLD A426	TRUNNION CDU MDA CONTROLLER SIG LO	
*	A 426W	56TB3-G12	56J09- 33	TRUNNION CDU MDA CONTROLLER SIG LO	
*	AA335R	56TB3-G12	56J18-D7	TRUNNION CDU MDA CONTROLLER SIG LO	
*	A 111W	56TB3-G13	56J04- 21	SHAFT CDU 1X SIN OUTPUT LO	
*	AA334R	56TB3-G13	56J18-D6	SHAFT CDU 1X SIN OUTPUT LO	
*	A 111R	56TB3-G14	56J04- 7	SHAFT CDU 1X SIN OUTPUT HI	
*	AA334W	56TB3-G14	56J18-C6	SHAFT CDU 1X SIN OUTPUT HI	
	A 111B	56TB3-G15	SHLD A111	0 VDC OPTICS	
	AA550	56TB3-G15	56TB3-H15	0 VDC OPTICS	
*	AA549	56TB3-G15	56TB3-T 9	0 VDC OPTICS	
*	A 131W	56TB3-G16	56J05- 10	TRUNNION CDU 1/4X COS LO	
*	A 255R	56TB3-G16	56P05-E*	TRUNNION CDU 1/4X COS LO	
*	AA381R	56TB3-G16	56J19-F6	TRUNNION CDU 1/4X COS LO	
*	A 308W	56TB3-G17	56P08-C*	SCT SHAFT MOTOR CONTROL WINDING RED	
*	A 378R	56TB3-G17	56P09- 76	SCT SHAFT MOTOR CONTROL WINDING	
*	AA361R	56TB3-G17	56J19-P2	SCT SHAFT MOTOR CONTROL WINDING	
*	A 404	56TB3-G18	56J09- 59	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
*	AA387	56TB3-G18	56J19-M6	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
	AA530	56TB3-G19	56J21-196	AGC TEMP MONITOR NO 1	171
*	A 371L	56TB3-G19	56P09- 64	AGC TEMP MONITOR NO 1	
*	AA416	56TB3-G19	56J20-A1	AGC TEMP MONITOR NO 1	
	AA520	56TB3-G20	56J21- 2	0 VDC AGC	169
	AA524	56TB3-G20	56J21- 74	0 VDC AGC	169
*	A 531	56TB3-G20	56P11-J	0 VDC AGC	
	AA519	56TB3-G21	56J21- 1	+28 VDC AGC BUSS A	167

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 115

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 28	56TB3-F 3	56P01- 88	CONDITION LAMP TEST	
*	A 390	56TB3-F 3	56J09- 73	CONDITION LAMP TEST	
*	A 464	56TB3-F 3	56J10- 2	CONDITION LAMP TEST	328
*	AA235	56TB3-F 3	56J17-P6	CONDITION LAMP TEST	
	AA518	56TB3-F 4	56J22-190	ATTITUDE CONTROL RELAY CONTROL	
*	A 12	56TB3-F 4	56P01- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 166	56TB3-F 4	56J06- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 243	56TB3-F 5	56P03-J*	GIMBAL LOCK SIGNAL	
*	A 342	56TB3-F 5	56P09- 10	GIMBAL LOCK SIGNAL	
*	A 454	56TB3-F 5	56P10- 12	GIMBAL LOCK SIGNAL	
*	A 143	56TB3-F 6	56J05- 3	TRUNNION CDU MOTOR EXC	
*	A 424	56TB3-F 6	56J09- 49	TRUNNION CDU MOTOR EXC	
	A 421B	56TB3-F 7	SHLD A421	TRUNNION CDU DAC LO	
*	A 421W	56TB3-F 7	56J09- 47	TRUNNION CDU DAC LO	
*	AA344R	56TB3-F 7	56J18-H3	TRUNNION CDU DAC LO	
	A 422B	56TB3-F 8	SHLD A422	SHAFT CDU DAC LO	
*	A 422W	56TB3-F 8	56J09- 57	SHAFT CDU DAC LO	
*	AA345R	56TB3-F 8	56J18-H2	SHAFT CDU DAC LO	
*	A 130W	56TB3-F10	56J05- 22	TRUNNION CDU 1/4X SIN LO	
*	A 256W	56TB3-F10	56P05-H*	TRUNNION CDU 1/4X SIN LO	
*	AA330R	56TB3-F10	56J18-F2	TRUNNION CDU 1/4X SIN LO	
*	A 427R	56TB3-F11	56J09- 35	SHAFT CDU MDA CONTROLLER SIG HI	
*	AA336W	56TB3-F11	56J18-F6	SHAFT CDU MDA CONTROLLER SIG HI	
	A 427B	56TB3-F12	SHLD A427	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 427W	56TB3-F12	56J09- 34	SHAFT CDU MDA CONTROLLER SIG LO	
*	AA336R	56TB3-F12	56J18-F7	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 40W	56TB3-F13	56J01- 6	COS AIG 1X RET P1	
*	A 227W	56TB3-F13	56P02-B*	COS AIG 1X RET S1	
*	A 356R	56TB3-F13	56P09- 2	COS AIG 1X RET	
*	AA510W	56TB3-F13	56J22-150	COS AIG 1X RET	
*	A 40R	56TB3-F14	56J01- 20	COS AIG 1X P3	
*	A 227R	56TB3-F14	56P02-A*	COS AIG 1X S3	
*	A 356W	56TB3-F14	56P09- 3	COS AIG 1X	
*	AA510R	56TB3-F14	56J22-151	COS AIG 1X	
*	A 131R	56TB3-F16	56J05- 9	TRUNNION CDU 1/4X COS HI	
*	A 255W	56TB3-F16	56P05-F*	TRUNNION CDU 1/4X COS HI	
*	AA381W	56TB3-F16	56J19-F5	TRUNNION CDU 1/4X COS HI	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 113

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA523	56TB3-G21	56J21- 73	+28 VDC AGC BUSS A	167
*	A 530	56TB3-G21	56P11-A	+28 VDC AGC BUSS A	
*	AA420	56TB3-G21	56J20-K5	+28 VDC AGC BUSS A	
	AA527	56TB3-G22	56J21-139	+28 VDC AGC BUSS B	168
	AA531	56TB3-G22	56J21-207	+28 VDC AGC BUSS B	168
*	A 541	56TB3-G22	56P12-A	+28 VDC AGC BUSS B	
*	AA421	56TB3-G22	56J20-K6	+28 VDC AGC BUSS B	
*	A 401L	56TB3-H 1	56J09- 87	IMU TEMP CONT AMP PIN 5	
*	AA258R	56TB3-H 1	56J17-M6	IMU TEMP CONT AMP PIN 5	
*	A 401W	56TB3-H 2	56J09-101	IMU TEMP CONT K1 PIN 3	
*	AA258W	56TB3-H 2	56J17-M5	IMU TEMP CONT K1 PIN 3	
*	A 399	56TB3-H 3	56J09-102	IMU TEMP CONT -5 DEG GAIN CHECK	
*	AA252	56TB3-H 3	56J17-B7	IMU TEMP CONT -5 DEG GAIN CHECK	
*	A 280	56TB3-H 4	56P06-Z	IRIG TEMP IND SENSOR HI	
*	AA276	56TB3-H 4	56J17-C6	IRIG TEMP IND SENSOR HI	
*	A 403	56TB3-H 5	56J09- 74	IMU TEMP ALARM AMP PIN 15	
*	AA262	56TB3-H 5	56J17-G2	IMU TEMP ALARM AMP PIN 15	
*	A 181	56TB3-H 6	56J08- 66	MDV SLEW CONTROL 0.5 V 400 CPS	
*	A 408	56TB3-H 6	56J09- 66	MDV SLEW CONTROL 0.5 V 400 CPS	
*	A 135W	56TB3-H 7	56J05- 90	TRUNNION CDU 16X ERROR SIG LO	
*	AA329R	56TB3-H 7	56J18-C8	TRUNNION CDU 16X ERROR SIG LO	
*	A 135R	56TB3-H 8	56J05-104	TRUNNION CDU 16X ERROR SIG HI	
*	AA329W	56TB3-H 8	56J18-B8	TRUNNION CDU 16X ERROR SIG HI	
	A 112B	56TB3-H 9	SHLD A112	0 VDC OPTICS	
	A 135B	56TB3-H 9	SHLD A135	0 VDC OPTICS	
	AA329B	56TB3-H 9	SHLD AA329	0 VDC OPTICS	
	AA331B	56TB3-H 9	SHLD AA331	0 VDC OPTICS	
	AA542	56TB3-H 9	56TB3-K 9	0 VDC OPTICS	
*	AA541	56TB3-H 9	56TB3-G 9	0 VDC OPTICS	
*	A 112R	56TB3-H10	56J04-104	SHAFT CDU 16X ERROR SIG HI	
*	AA331W	56TB3-H10	56J18-C9	SHAFT CDU 16X ERROR SIG HI	
*	A 112W	56TB3-H11	56J04- 90	SHAFT CDU 16X ERROR SIG LO	
*	AA331R	56TB3-H11	56J18-D9	SHAFT CDU 16X ERROR SIG LO	
	A 65B	56TB3-H12	SHLD A 65	0 VDC IMU	
	A 222B	56TB3-H12	SHLD A222	0 VDC IMU	
	A 357B	56TB3-H12	SHLD A357	0 VDC IMU	
	AA466	56TB3-H12	56TB3-R 3	0 VDC IMU	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 116

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INCHES
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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 271R	56P06-A	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 286	56P06-A*	56TB3-K 3	IRIG TEMP IND SENSOR RET
A 271W	56P06-B	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LC
A 282R	56P06-B*	56TB3-L13	PRESSURE SENSOR +28 VDC HI
A 271L	56P06-C	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 282W	56P06-C*	56TB3-K13	PRESSURE SENSOR +28 VDC LO
A 284	56P06-D	56TB3-T20	+28 VDC IMU
A 283R	56P06-D*	56TB3-K19	IMU PRESSURE MONITOR HI
A 287	56P06-E	56TB2-D 4	0 VDC IMU
A 283W	56P06-E*	56TB3-H19	IMU PRESSURE MONITOR LO
A 272	56P06-F	56TB1-D 5	-28 VDC
A 281R	56P06-F*	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 288	56P06-G	56TB3-F21	STRUCTURE GND
A 281W	56P06-G*	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 273R	56P06-H	56TB1-A 2	OG TORQUE MOTOR HI
A 273W	56P06-J	56TB1-B 2	OG TORQUE MOTOR RET
A 274	56P06-K	56TB3-G 5	IMU TEMP SENSOR COM
A 275W	56P06-L	56TB3-L 3	IRIG TEMP CONT SENSOR RET
A 275R	56P06-M	56TB3-L 4	IRIG TEMP CONT SENSOR HI
A 276	56P06-N	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 285	56P06-P	56TB3-M 1	ACCEL TEMP IND SENSOR RET
A 279W	56P06-R	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY
A 278R	56P06-V	56TB3-N 5	IMU CONTROL HTR HI
A 278W	56P06-W	56TB3-N 4	IMU CONTROL HTR LO
A 279R	56P06-X	56TB3-N 1	IMU EMERGENCY HTR HI
A 277	56P06-Y	56TB3-N 6	EMERG HTR CONT MODULE LO
A 280	56P06-Z	56TB3-H 4	IRIG TEMP IND SENSOR HI

CODE IDENT NO.	SIZE		
99974	A	1014607	
SCALE-NONE	REV LTR	B	SHEET 082

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 289R	56P07-A	56TB1-T 8	Z GYRO TORQUE +
A 296W	56P07-A*	56TB1-N 2	Y PIP ERROR LO
A 289W	56P07-B	56TB1-U 7	Z GYRO TORQUE RET
A 297R	56P07-B*	56TB1-T 5	Z PIP ERROR HI
A 289L	56P07-C	56TB1-U 8	Z GYRO TORQUE -
A 297W	56P07-C*	56TB1-T 4	Z PIP ERROR LO
A 290R	56P07-D	56TB1-M 8	X GYRO TORQUE +
A 290W	56P07-E	56TB1-L 8	X GYRO TORQUE RET
A 290L	56P07-F	56TB1-L 7	X GYRO TORQUE -
A 298R	56P07-F*	56TB1-C 3	OG ADA
A 291R	56P07-G	56TB1-T 6	Y GYRO TORQUE +
A 298L	56P07-G*	56TB1-B 4	MG ADA
A 291W	56P07-H	56TB1-U 5	Y GYRO TORQUE RET
A 298K	56P07-H*	56TB1-C 4	IG ADA
A 291L	56P07-J	56TB1-U 6	Y GYRO TORQUE -
A 298W	56P07-J*	56TB1-B 3	0 VDC IMU
A 292R	56P07-K	56TB1-U 4	Z PIP TORQUE +
A 292W	56P07-L	56TB1-T 3	Z PIP TORQUE RET
A 292L	56P07-M	56TB1-U 3	Z PIP TORQUE -
A 293R	56P07-N	56TB1-L 4	Y PIP TORQUE +
A 293W	56P07-P	56TB1-L 3	Y PIP TORQUE RET
A 293L	56P07-R	56TB1-M 4	Y PIP TORQUE -
A 294R	56P07-U	56TB1-M 5	X PIP TORQUE +
A 294W	56P07-V	56TB1-L 6	X PIP TORQUE RET
A 294L	56P07-W	56TB1-L 5	X PIP TORQUE -
A 295R	56P07-X	56TB1-M 7	X PIP ERROR HI
A 295W	56P07-Y	56TB1-M 6	X PIP ERROR LO
A 296R	56P07-Z	56TB1-M 3	Y PIP ERROR HI

CODE IDENT NO.	SIZE		
99974	A	1014607	
SCALE-NONE	REV LTR	B	SHEET 083

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 258W	56P05-R*	56TB3-R11	SXT AS 16X RSVR COS HI
A 249	56P05-S	56TB3-K21	0 VDC OPTICS
A 250	56P05-T	56TB3-K21	0 VDC OPTICS
A 260R	56P05-U*	56TB3-S17	SXT SHAFT TACH HI
A 260W	56P05-V*	56TB3-S16	SXT SHAFT TACH LO
A 267W	56P05-W	56P04-J	AT 64X RSVR P4 TRIM
A 261R	56P05-W*	56TB3-N13	SHAFT CDU 1/2X COS LO P4
A 267R	56P05-X	56P04-K	AT 64X RSVR P2 TRIM
A 261W	56P05-X*	56TB3-N14	SHAFT CDU 1/2X COS HI P2
A 252R	56P05-Y	56TB3-T 8	SXT AT 64X RSVR SIN LO
A 262R	56P05-Y*	56TB3-K10	SHAFT CDU 1/2X SIN HI P1
A 252W	56P05-Z	56TB3-T 7	SXT AT 64X RSVR SIN HI
A 262W	56P05-Z*	56TB3-K11	SHAFT CDU 1/2X SIN LO P3

CODE IDENT NO.	SIZE		
99974	A	1014607	
SCALE-NONE	REV LTR	B	SHEET 081

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 299R	56P08-A	56TB2-N 4	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 299W	56P08-B	56TB2-L 8	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 315	56P08-B*	56TB3-K21	0 VDC OPTICS
A 308W	56P08-C*	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING RED
A 308L	56P08-D*	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING BLK
A 300W	56P08-E	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING RED
A 309R	56P08-E*	56TB3-N16	SCT SHAFT TACH HI
A 300R	56P08-F	56TB3-C19	+28 VDC OPTICS
A 309W	56P08-F*	56TB3-N17	SCT SHAFT TACH LO
A 300L	56P08-G	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING BLK
A 310R	56P08-G*	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
A 308R	56P08-H	56TB3-C19	+28 VDC OPTICS
A 311	56P08-H*	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
A 310W	56P08-I*	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
A 301R	56P08-J	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
A 312W	56P08-J*	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 301W	56P08-K	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
A 312R	56P08-K*	56TB3-K11	SHAFT CDU 1/2X SIN LO P1
A 313W	56P08-M*	56TB3-N13	SHAFT CDU 1/2X COS LO P2
A 302R	56P08-N	56TB3-R17	SCT TRUNNION TACH HI
A 313R	56P08-N*	56TB3-N14	SHAFT CDU 1/2X COS HI P4
A 302W	56P08-P	56TB3-R16	SCT TRUNNION TACH LO
A 303	56P08-R	56TB3-K21	0 VDC OPTICS
A 314R	56P08-R*	56TB1-T 1	400 CPS VAR ILLUM PWR
A 304W	56P08-S	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
A 314W	56P08-S*	56TB1-T 2	400 CPS 6 V LO
A 304R	56P08-T	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
A 316	56P08-T*	56TB3-F22	STRUCTURE GND
A 305	56P08-U	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
A 306R	56P08-V	56TB3-S13	SCT TRUNNION 1X SIN LO
A 306W	56P08-W	56TB3-S14	SCT TRUNNION 1X SIN HI
A 307R	56P08-X	56TB3-T14	SCT TRUNNION 1X COS HI
A 307W	56P08-Y	56TB3-T13	SCT TRUNNION 1X COS LO

CODE IDENT NO.	SIZE		
99974	A	1014607	
SCALE-NONE	REV LTR	B	SHEET 084

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 338W	56P09- 38	56TB2-R 3	OG CDU ERROR SIG RET
A 338R	56P09- 39	56TB2-N 3	OG CDU 16X ERROR SIG
A 358W	56P09- 40	56TB3-N21	COS AMG 1X S1
A 361	56P09- 41	56TB1-C 8	Z GYRO ERROR SIG
A 379R	56P09- 42	56TB3-K19	IMU PRESSURE MONITOR HI
A 350	56P09- 43	56TB1-M 2	Y PIP ERROR MONITOR
A 351	56P09- 44	56TB1-T 7	Z PIP ERROR MONITOR
A 321R	56P09- 45	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
A 345	56P09- 46	56TB1-U 2	IMU DELAY LIGHT HI
A 335	56P09- 47	56TB3-B 3	CDU FAIL LIGHT HI
A 334	56P09- 48	56TB3-S 6	IMU FAIL LIGHT HI
A 333	56P09- 49	56TB3-B 2	ACCEL FAIL LIGHT HI
A 363W	56P09- 50	56TB1-A 8	IMU OG ERROR SIG
A 363K	56P09- 51	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 362	56P09- 52	56TB1-C 7	X GYRO ERROR SIG
A 379W	56P09- 53	56TB3-H19	IMU PRESSURE MONITOR LO
A 381	56P09- 54	56TB3-M19	+3 VDC AGC
A 321W	56P09- 55	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
A 322R	56P09- 56	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
A 322W	56P09- 57	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
A 323W	56P09- 58	56TB1-C 2	3200 CPS 2 V LO
A 323R	56P09- 59	56TB1-D 2	3200 CPS 2 V HI
A 363R	56P09- 60	56TB1-A 7	IMU MG ERROR SIG
A 363L	56P09- 61	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 380	56P09- 62	56TB3-L19	+13 VDC AGC
A 382	56P09- 63	56TB3-N19	0 VDC AGC
A 371L	56P09- 64	56TB3-G19	AGC TEMP MONITOR NO 1
A 328	56P09- 65	56TB3-H20	+28 VDC OPTICS
A 329	56P09- 66	56TB3-L21	0 VDC OPTICS
A 319R	56P09- 67	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 325R	56P09- 68	56TB1-H 7	25.6 KC HI OPTICS
A 324R	56P09- 69	56TB1-H 4	25.6 KC HI IMU
A 365R	56P09- 70	56TB2-H 7	MG CDU 1X ERROR SIG
A 365W	56P09- 71	56TB2-G 7	MG CDU ERROR SIG RET
A 366R	56P09- 72	56TB2-N 2	OG CDU 1X ERROR SIG
A 370	56P09- 73	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
A 371R	56P09- 74	56TB3-F19	AGC TEMP MONITOR NO 2

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 086

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 371W	56P09- 75	56TB3-D19	AGC TEMP MONITOR NO 3
A 378R	56P09- 76	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
A 378W	56P09- 77	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
A 319L	56P09- 78	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO
A 319W	56P09- 79	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 325W	56P09- 80	56TB1-G 7	25.6 KC LO OPTICS
A 324W	56P09- 81	56TB1-G 4	25.6 KC LO IMU
A 364W	56P09- 82	56TB2-G 2	IG CDU ERROR SIG RET
A 366W	56P09- 83	56TB2-R 2	OG CDU ERROR SIG RET
A 384	56P09- 84	56TB2-D 5	0 VDC IMU
A 368	56P09- 85	56TB3-C 5	IRIG TEMP (TELEMETRY)
A 383R	56P09- 86	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
A 372R	56P09- 87	56TB3-D 9	SHAFT CDU MDA (TEST) HI
A 372W	56P09- 88	56TB3-D10	SHAFT CDU MDA (TEST) LO
A 374R	56P09- 89	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
A 375R	56P09- 90	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
A 376R	56P09- 91	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
A 376W	56P09- 92	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
A 352R	56P09- 93	56TB1-D 4	IG TORQUE MOTOR RET
A 354R	56P09- 94	56TB1-B 2	OG TORQUE MOTOR RET
A 354W	56P09- 95	56TB1-A 2	OG TORQUE MOTOR HI
A 364R	56P09- 96	56TB2-H 2	IG CDU 1X ERROR SIG
A 369	56P09- 97	56TB3-D 5	HTR CURRENT (TELEMETERY)
A 367	56P09- 98	56TB3-D 4	ACCEL TEMP (TELEMETRY)
A 383W	56P09- 99	56TB3-C 8	TRUNNION CDU MDA LO (TEST)
A 373R	56P09-100	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
A 373W	56P09-101	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)
A 374W	56P09-102	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
A 375W	56P09-103	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
A 377R	56P09-104	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
A 377W	56P09-105	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
A 352W	56P09-106	56TB1-D 3	IG TORQUE MOTOR HI
A 353R	56P09-107	56TB1-A 3	MG TORQUE MOTOR RET
A 353W	56P09-108	56TB1-A 4	MG TORQUE MOTOR HI

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 087

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 355R	56P09- 1	56TB3-D13	SIN AIG 1X RET
A 356R	56P09- 2	56TB3-F13	COS AIG 1X RET
A 356W	56P09- 3	56TB3-F14	COS AIG 1X
A 330	56P09- 4	56TB3-R20	+28 VDC AGC
A 317R	56P09- 5	56TB3-T19	+20 VDC CONDITIONING
A 317W	56P09- 6	56TB3-S19	0 VDC CONDITIONING
A 386W	56P09- 7	56TB3-R19	+2.5 VDC CONDITIONING HI
A 318W	56P09- 8	56TB3-R21	800 CPS 28 V 1 PCT LO IMU
A 318R	56P09- 9	56TB3-R22	800 CPS 28 V 1 PCT HI IMU
A 342	56P09- 10	56TB3-F 5	GIMBAL LOCK SIGNAL
A 344	56P09- 11	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 336	56P09- 12	56TB1-H 8	ERROR DETECT LIGHT HI
A 332	56P09- 13	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 355W	56P09- 14	56TB3-D14	SIN AIG 1X
A 357R	56P09- 15	56TB3-C13	SIN AMG 1X RET
A 359R	56P09- 16	56TB2-U 7	SIN AOG 1X S2
A 359W	56P09- 17	56TB2-U 8	SIN AOG 1X S4
A 331	56P09- 18	56TB3-N19	0 VDC AGC
A 327	56P09- 19	56TB3-T21	+28 VDC IMU
A 326	56P09- 20	56TB3-N22	+28 VDC STBY
A 386R	56P09- 21	56TB3-S20	+2.5 VDC CONDITIONING LO
A 320R	56P09- 22	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 343	56P09- 23	56TB1-S 5	0 VDC IMU
A 348	56P09- 24	56E 21	0 VDC IMU
A 341	56P09- 25	56E 21	0 VDC IMU
A 340	56P09- 26	56E 21	0 VDC IMU
A 337	56P09- 27	56E 21	0 VDC IMU
A 358R	56P09- 28	56TB3-N20	COS AMG 1X S3
A 357W	56P09- 29	56TB3-C14	SIN AMG 1X
A 360R	56P09- 30	56TB2-N 8	COS AOG 1X S3
A 360W	56P09- 31	56TB2-N 7	COS AOG 1X S1
A 385	56P09- 32	56TB2-F 4	0 VDC IMU
A 349	56P09- 33	56TB1-L 2	X PIP ERROR MONITOR
A 320W	56P09- 34	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 346	56P09- 35	56TB3-B 4	ZERO ENCODER LIGHT HI
A 347	56P09- 36	56E 21	0 VDC IMU
A 339	56P09- 37	56E 21	0 VDC IMU

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 085

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 461	56P10- 8	56J22-171	MAIN PANEL GIMBAL LOCK LIGHT
	A 462	56P10- 9	56TB3-F 1	0 VDC SPACECRAFT
	A 453	56P10- 10	56J09- 29	GIMBAL LOCK LIGHT CONDITION LAMP TEST
	A 454	56P10- 12	56TB3-F 5	GIMBAL LOCK SIGNAL
	A 452	56P10- 13	56TB1-S 5	0 VDC IMU
	A 463	56P10- 22	56TB3-F 2	MAIN PANEL CONDITION LAMP TEST
	A 455	56P10- 24	56TB2-S 8	GIMBAL LOCK LIGHT HI
	A 459R	56P10- 38	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
	A 459W	56P10- 39	56TB3-L 6	400 CPS 0.5 V PI PHASE
*	A 447	56P10- 48	56J09- 95	400 CPS 26 V HI
	A 460	56P10- 49	56TB3-B14	400 CPS 26 V LO
	A 456W	56P10- 68	56TB3-K14	400 CPS 115 V LO
	A 456R	56P10- 69	56TB3-L14	400 CPS 115 V HI
	A 457L	56P10- 81	56TB1-T 2	400 CPS 6 V LO
*	A 432W	56P10- 93	56J09- 62	400 CPS 5.5 V HI
	A 457R	56P10- 94	56TB1-R 2	400 CPS 6 V LO
	A 457W	56P10- 95	56TB1-S 2	400 CPS 6 V LO
*	A 432R	56P10-106	56J09- 61	400 CPS 5.5 V HI
*	A 432L	56P10-107	56J09- 53	400 CPS 6 V HI
*	A 432K	56P10-108	56J09- 52	400 CPS 6 V LO

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR B	SHEET 088

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 446	56TB3-K 2	56J09-105	IMU TEMP ALARM BIAS RESISTOR
*	AA259	56TB3-K 2	56J17-H1	IMU TEMP ALARM BIAS RESISTOR
*	A 286	56TB3-K 3	56P06-A*	IRIG TEMP IND SENSOR RET
*	AA266	56TB3-K 3	56J17-C5	IRIG TEMP IND SENSOR RET
*	A 391	56TB3-K 4	56J09- 21	TRUNNION ENCODER PIN 9
*	AA286	56TB3-K 4	56J17-B9	TRUNNION ENCODER PIN 9
*	A 444	56TB3-K 5	56J09- 75	IMU TEMP ALARM AMP PIN 14
*	AA261	56TB3-K 5	56J17-G1	IMU TEMP ALARM AMP PIN 14
*	A 210R	56TB3-K 6	56J08- 35	400 CPS 0.5 V ZERO PHASE
*	A 459R	56TB3-K 6	56P10- 38	400 CPS 0.5 V ZERO PHASE
*	A 110W	56TB3-K 7	56J04- 20	SHAFT CDU 1X COS OUTPUT HI
*	AA338R	56TB3-K 7	56J18-D4	SHAFT CDU 1X COS OUTPUT HI
*	A 110R	56TB3-K 8	56J04- 6	SHAFT CDU 1X COS OUTPUT LO
*	AA338W	56TB3-K 8	56J18-D5	SHAFT CDU 1X COS OUTPUT LO
	A 107B	56TB3-K 9	SHLD A107	0 VDC OPTICS
	A 110B	56TB3-K 9	SHLD A110	0 VDC OPTICS
	A 262B	56TB3-K 9	SHLD A262	0 VDC OPTICS
	A 312B	56TB3-K 9	SHLD A312	0 VDC OPTICS
	AA543	56TB3-K 9	56TB3-L 9	0 VDC OPTICS
*	AA542	56TB3-K 9	56TB3-H 9	0 VDC OPTICS
*	A 107W	56TB3-K10	56J04- 67	SHAFT CDU 1/2X SIN HI S1
*	A 262R	56TB3-K10	56P05-Y*	SHAFT CDU 1/2X SIN HI P1
*	A 312W	56TB3-K10	56P08-J*	SHAFT CDU 1/2X SIN HI S1
*	AA332W	56TB3-K10	56J18-G1	SHAFT CDU 1/2X SIN HI S1
*	A 107R	56TB3-K11	56J04- 57	SHAFT CDU 1/2X SIN LO S3
*	A 262W	56TB3-K11	56P05-Z*	SHAFT CDU 1/2X SIN LO P3
*	A 312R	56TB3-K11	56P08-K*	SHAFT CDU 1/2X SIN LO P1
*	AA332R	56TB3-K11	56J18-H1	SHAFT CDU 1/2X SIN LO S3
*	A 148W	56TB3-K12	56J05- 66	TRUNNION CDU 1/2X RSVR LOAD LO
*	AA318R	56TB3-K12	56J18-F4	TRUNNION CDU 1/2X RSVR LOAD LO
*	A 282W	56TB3-K13	56P06-C*	PRESSURE SENSOR +28 VDC LO
*	AA464W	56TB3-K13	56J20-B6	PRESSURE SENSOR +28 VDC LO
*	A 456W	56TB3-K14	56P10- 68	400 CPS 115 V LO
*	A 532W	56TB3-K14	56P11-K	400 CPS 115 V LO
*	AA465W	56TB3-K14	56J20-G3	400 CPS 115 V LO
	AA552	56TB3-K15	56TB3-L15	0 VDC OPTICS
*	AA551	56TB3-K15	56TB3-H15	0 VDC OPTICS

CODE IDENT NO. 99974	**SIZE** A	1014607
SCALE-NONE	**REV LTR** B	**SHEET** 118

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 304W	56TB3-K16	56P08-S	SCT TRUNNION 1X RSVR ERROR HI
*	AA377W	56TB3-K16	56J19-B7	SCT TRUNNION 1X RSVR ERROR HI
*	A 304R	56TB3-K17	56P08-T	SCT TRUNNION 1X RSVR ERROR LO
*	AA377R	56TB3-K17	56J19-B8	SCT TRUNNION 1X RSVR ERROR LO
*	A 405	56TB3-K18	56J09- 58	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	AA388	56TB3-K18	56J19-M5	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	A 283R	56TB3-K19	56P06-D*	IMU PRESSURE MONITOR HI
*	A 379R	56TB3-K19	56P09- 42	IMU PRESSURE MONITOR HI
*	AA414	56TB3-K19	56J20-A4	IMU PRESSURE MONITOR HI
	AA567	56TB3-K20	56TB3-C15	0 VDC OPTICS
*	AA325	56TB3-K20	56J18-S3	0 VDC OPTICS
*	AA327	56TB3-K20	56J18-T3	0 VDC OPTICS
*	AA333	56TB3-K20	56J18-R3	0 VDC OPTICS
	AA566	56TB3-K21	56TB3-C15	0 VDC OPTICS
*	A 249	56TB3-K21	56P05-S	0 VDC OPTICS
*	A 250	56TB3-K21	56P05-T	0 VDC OPTICS
*	A 303	56TB3-K21	56P08-R	0 VDC OPTICS
*	A 315	56TB3-K21	56P08-B*	0 VDC OPTICS
*	AA390	56TB3-K21	56J19-R4	0 VDC OPTICS
*	AA393	56TB3-K21	56J19-P5	0 VDC OPTICS
	AA565	56TB3-K22	56TB3-C15	0 VDC OPTICS
*	AA364	56TB3-K22	56J19-S4	0 VDC OPTICS
*	AA369	56TB3-K22	56J19-S5	0 VDC OPTICS
*	AA408	56TB3-K22	56J20-N3	0 VDC OPTICS
*	A 2	56TB3-L 1	56P01- 65	IRIG TEMP GAIN SWITCH NC
*	A 398	56TB3-L 1	56J09- 86	IRIG TEMP GAIN SWITCH NC
*	AA290	56TB3-L 1	56J17-C8	IRIG TEMP GAIN SWITCH NC
*	A 32	56TB3-L 2	56P01- 55	IMU TD RELAY NO
*	AA249	56TB3-L 2	56J17-F8	IMU TD RELAY NO
*	A 275W	56TB3-L 3	56P06-L	IRIG TEMP CONT SENSOR RET
*	AA268	56TB3-L 3	56J17-B5	IRIG TEMP CONT SENSOR RET
*	A 275R	56TB3-L 4	56P06-M	IRIG TEMP CONT SENSOR HI
*	AA267	56TB3-L 4	56J17-B6	IRIG TEMP CONT SENSOR HI
*	A 400	56TB3-L 5	56J09- 76	IMU TEMP CONT K2 PIN 6
*	AA263	56TB3-L 5	56J17-L1	IMU TEMP CONT K2 PIN 6
*	A 210W	56TB3-L 6	56J08- 45	400 CPS 0.5 V PI PHASE
*	A 459W	56TB3-L 6	56P10- 39	400 CPS 0.5 V PI PHASE

CODE IDENT NO. 99974	**SIZE** A	1014607
SCALE-NONE	**REV LTR** B	**SHEET** 119

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA507B	56TB3-H12	SHLD AA507	0 VDC IMU
	AA513	56TB3-H12	56TB3-H13	0 VDC IMU
	A 41B	56TB3-H13	SHLD A 41	0 VDC IMU
	A 228B	56TB3-H13	SHLD A228	0 VDC IMU
	A 355B	56TB3-H13	SHLD A355	0 VDC IMU
	AA509B	56TB3-H13	SHLD AA509	0 VDC IMU
	AA554	56TB3-H13	56TB3-H14	0 VDC IMU
*	AA513	56TB3-H13	56TB3-H12	0 VDC IMU
	A 40B	56TB3-H14	SHLD A 40	0 VDC IMU
	A 227B	56TB3-H14	SHLD A227	0 VDC IMU
	A 356B	56TB3-H14	SHLD A356	0 VDC IMU
	AA508B	56TB3-H14	SHLD AA508	0 VDC IMU
	AA510B	56TB3-H14	SHLD AA510	0 VDC IMU
*	AA554	56TB3-H14	56TB3-H13	0 VDC IMU
	A 131B	56TB3-H15	SHLD A131	0 VDC OPTICS
	A 255B	56TB3-H15	SHLD A255	0 VDC OPTICS
	A 263B	56TB3-H15	SHLD A263	0 VDC OPTICS
	A 304B	56TB3-H15	SHLD A304	0 VDC OPTICS
	AA551	56TB3-H15	56TB3-K15	0 VDC OPTICS
*	AA550	56TB3-H15	56TB3-G15	0 VDC OPTICS
*	A 263R	56TB3-H16	56P05-HH	SXT SHAFT 1/2X RSVR ERROR HI
*	AA375W	56TB3-H16	56J19-A5	SXT SHAFT 1/2X RSVR ERROR HI
*	A 263W	56TB3-H17	56P05-BB	SXT SHAFT 1/2X RSVR ERROR LO
*	AA375R	56TB3-H17	56J19-B5	SXT SHAFT 1/2X RSVR ERROR LO
*	A 283W	56TB3-H19	56P06-E*	IMU PRESSURE MONITOR LO
*	A 379W	56TB3-H19	56P09- 53	IMU PRESSURE MONITOR LO
*	AA415	56TB3-H19	56J20-B4	IMU PRESSURE MONITOR LO
*	A 328	56TB3-H20	56P09- 65	+28 VDC OPTICS
*	AA406	56TB3-H20	56J20-N6	+28 VDC OPTICS
*	A 528	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	AA446	56TB3-H21	56J20-P5	+28 VDC OPTICS BUSS A
*	AA449	56TB3-H21	56J20-S5	+28 VDC OPTICS BUSS A
*	A 539	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B
*	AA450	56TB3-H22	56J20-P6	+28 VDC OPTICS BUSS B
*	AA453	56TB3-H22	56J20-S6	+28 VDC OPTICS BUSS B
*	A 438	56TB3-K 1	56J09- 92	IMU TEMP ALARM AMP PIN 5
*	AA260	56TB3-K 1	56J17-H2	IMU TEMP ALARM AMP PIN 5

CODE IDENT NO. 99974	**SIZE** A	1014607
SCALE-NONE	**REV LTR** B	**SHEET** 117

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 121R	56TB3-L 7	56J04-106	SHAFT CDU TACH HI
*	AA316W	56TB3-L 7	56J18-A8	SHAFT CDU TACH HI
*	A 121W	56TB3-L 8	56J04- 92	SHAFT CDU TACH LO
*	AA316R	56TB3-L 8	56J18-A7	SHAFT CDU TACH LO
	A 121B	56TB3-L 9	SHLD A121	0 VDC OPTICS
	A 132B	56TB3-L 9	SHLD A132	0 VDC OPTICS
	AA316B	56TB3-L 9	SHLD AA316	0 VDC OPTICS
	AA544	56TB3-L 9	56TB3-M 9	0 VDC OPTICS
*	AA543	56TB3-L 9	56TB3-K 9	0 VDC OPTICS
*	A 132R	56TB3-L10	56J05- 12	TRUNNION CDU 1/2X RSVR P2
*	AA317W	56TB3-L10	56J18-A6	TRUNNION CDU 1/2X RSVR P2
*	A 132W	56TB3-L11	56E 18	TRUNNION CDU 1/2X RSVR P3
*	AA317R	56TB3-L11	56J18-B6	TRUNNION CDU 1/2X RSVR P3
*	A 148R	56TB3-L12	56J05- 56	TRUNNION CDU 1/2X RSVR LOAD HI
*	AA318W	56TB3-L12	56J18-F3	TRUNNION CDU 1/2X RSVR LOAD HI
*	A 282R	56TB3-L13	56P06-B*	PRESSURE SENSOR +28 VDC HI
*	AA464R	56TB3-L13	56J20-A6	PRESSURE SENSOR +28 VDC HI
*	A 456R	56TB3-L14	56P10- 69	400 CPS 115 V HI
*	A 532R	56TB3-L14	56P11-N	400 CPS 115 V HI
*	AA465R	56TB3-L14	56J20-H3	400 CPS 115 V HI
	AA533	56TB3-L15	56TB3-M15	0 VDC OPTICS
*	A 436	56TB3-L15	56J09- 83	0 VDC OPTICS
*	AA552	56TB3-L15	56TB3-K15	0 VDC OPTICS
*	A 310R	56TB3-L16	56P08-G*	SCT SHAFT 1/2X RSVR ERROR LO
*	AA379R	56TB3-L16	56J19-C8	SCT SHAFT 1/2X RSVR ERROR LO
*	A 310W	56TB3-L17	56P08-I*	SCT SHAFT 1/2X RSVR ERROR HI
*	AA379W	56TB3-L17	56J19-D8	SCT SHAFT 1/2X RSVR ERROR HI
*	A 428	56TB3-L18	56J09- 99	COSECANT RELAY CONTROL
*	AA389	56TB3-L18	56J19-N5	COSECANT RELAY CONTROL
	AA521	56TB3-L19	56J21- 62	+13 VDC AGC
*	A 380	56TB3-L19	56P09- 62	+13 VDC AGC
*	AA425	56TB3-L19	56J20-C6	+13 VDC AGC
*	AA 66	56TB3-L20	56J12-R6	0 VDC OPTICS
*	AA228	56TB3-L20	56J16-R5	0 VDC OPTICS
*	AA229	56TB3-L20	56J16-R6	0 VDC OPTICS
*	AA516	56TB3-L20	56TB3-D15	0 VDC OPTICS
	AA563	56TB3-L21	56TB3-D15	0 VDC OPTICS

176

CODE IDENT NO. 99974	**SIZE** A	1014607
SCALE-NONE	**REV LTR** B	**SHEET** 120

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 541	56P12-A	56TB3-G22	+28 VDC AGC BUSS B
A 537	56P12-B	56TB3-D20	+28 VDC IMU BUSS B
A 538	56P12-C	56TB3-D21	+28 VDC IMU BUSS B
A 543	56P12-D	56TB1-N 4	0 VDC IMU
A 544	56P12-E	56TB3-S 2	0 VDC IMU
A 546	56P12-F	56TB2-M 1	0 VDC IMU
A 540	56P12-G	56TB3-C15	0 VDC OPTICS
A 539	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B
A 542	56P12-J	56TB3-F20	0 VDC AGC
A 545	56P12-L	56TB3-F22	STRUCTURE GND
A 536	56P12-M	56TB3-C22	+28 VDC STBY BUSS B

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 090

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 238W	56TB1-A 2	56P03-Y	OG TORQUE MOTOR HI
*	A 273R	56TB1-A 2	56P06-H	OG TORQUE MOTOR HI
*	A 354W	56TB1-A 2	56P09- 95	OG TORQUE MOTOR HI
*	AA 34R	56TB1-A 2	56J11-H6	OG TORQUE MOTOR HI
*	A 239W	56TB1-A 3	56P03-A*	MG TORQUE MOTOR RET
*	A 240R	56TB1-A 3	56P03-B*	MG TORQUE MOTOR RET
*	A 353R	56TB1-A 3	56P09-107	MG TORQUE MOTOR RET
*	AA 32W	56TB1-A 3	56J11-G6	MG TORQUE MOTOR RET
*	A 239R	56TB1-A 4	56P03-Z	MG TORQUE MOTOR HI
*	A 240W	56TB1-A 4	56P03-C*	MG TORQUE MOTOR HI
*	A 353W	56TB1-A 4	56P09-108	MG TORQUE MOTOR HI
*	AA 32R	56TB1-A 4	56J11-F6	MG TORQUE MOTOR HI
*	A 235W	56TB1-A 5	56P03-L	MG CDU ATTITUDE STEERING ERROR
*	AA 20R	56TB1-A 5	56J11-C2	MG CDU ATTITUDE STEERING ERROR
	A 235B	56TB1-A 6	SHLD A235	MG CDU ERROR SIG RET
*	A 235R	56TB1-A 6	56P03-K	MG CDU ERROR SIG RET
*	AA 20W	56TB1-A 6	56J11-B2	MG CDU ERROR SIG RET
*	A 231K	56TB1-A 7	56P03-W	IMU MG ERROR SIG
*	A 363R	56TB1-A 7	56P09- 60	IMU MG ERROR SIG
*	AA 29R	56TB1-A 7	56J11-A5	IMU MG ERROR SIG
*	A 231R	56TB1-A 8	56P03-C	IMU OG ERROR SIG
*	A 363W	56TB1-A 8	56P09- 50	IMU OG ERROR SIG
*	AA 29L	56TB1-A 8	56J11-A6	IMU OG ERROR SIG
*	A 238R	56TB1-B 2	56P03-X	OG TORQUE MOTOR RET
*	A 273W	56TB1-B 2	56P06-J	OG TORQUE MOTOR RET
*	A 354R	56TB1-B 2	56P09- 94	OG TORQUE MOTOR RET
*	AA 34W	56TB1-B 2	56J11-H5	OG TORQUE MOTOR RET
*	A 298W	56TB1-B 3	56P07-J*	0 VDC IMU
*	AA 23W	56TB1-B 3	56J11-G2	0 VDC IMU
*	A 298L	56TB1-B 4	56P07-G*	MG ADA
*	AA 23L	56TB1-B 4	56J11-H1	MG ADA
	A 234B	56TB1-B 5	SHLD A234	IG CDU ERROR SIG RET
*	A 234R	56TB1-B 5	56P03-J	IG CDU ERROR SIG RET
*	AA 16W	56TB1-B 5	56J11-B1	IG CDU ERROR SIG RET
*	A 224W	56TB1-B 6	56P02-U	3200 CPS 2 V FEEDBACK LO
*	AA 42R	56TB1-B 6	56J11-G3	3200 CPS 2 V FEEDBACK LO
*	A 231W	56TB1-B 7	56P03-V	IMU GIMBAL AND GYRO ERROR SIG LO

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 091

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 530	56P11-A	56TB3-G21	+28 VDC AGC BUSS A
A 525	56P11-B	56TB3-C20	+28 VDC IMU BUSS A
A 526	56P11-C	56TB3-C21	+28 VDC IMU BUSS A
A 527	56P11-D	56TB1-D 8	0 VDC IMU
A 534	56P11-E	56TB2-M 7	0 VDC IMU
A 533	56P11-F	56TB2-M 4	0 VDC IMU
A 529	56P11-G	56TB3-D15	0 VDC OPTICS
A 528	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A
A 531	56P11-J	56TB3-G20	0 VDC AGC
A 532W	56P11-K	56TB3-K14	400 CPS 115 V LO
A 535	56P11-L	56TB3-F21	STRUCTURE GND
A 524	56P11-M	56TB3-D22	+28 VDC STBY BUSS A
A 532R	56P11-N	56TB3-L14	400 CPS 115 V HI

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 089

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 363K	56TB1-B 7	56P09- 51	IMU GIMBAL AND GYRO ERROR SIG LO
*	AA 29K	56TB1-B 7	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO
*	AA155K	56TB1-B 7	56J15-B2	IMU GIMBAL AND GYRO ERROR SIG LO
*	A 231L	56TB1-B 8	56P03-U	IMU IG AND Y GYRO ERROR SIG
*	A 363L	56TB1-B 8	56P09- 61	IMU IG AND Y GYRO ERROR SIG
*	AA 29W	56TB1-B 8	56J11-B6	IMU IG AND Y GYRO ERROR SIG
*	AA155R	56TB1-B 8	56J15-A2	IMU IG AND Y GYRO ERROR SIG
*	A 223W	56TB1-C 2	56P02-S	3200 CPS 2 V LO
*	A 323W	56TB1-C 2	56P09- 58	3200 CPS 2 V LO
*	AA 28K	56TB1-C 2	56J11-L2	3200 CPS 2 V LO
*	AA 28L	56TB1-C 2	56J11-M2	3200 CPS 2 V LO
*	A 298R	56TB1-C 3	56P07-F*	OG ADA
*	AA 23K	56TB1-C 3	56J11-G1	OG ADA
*	A 298K	56TB1-C 4	56P07-H*	IG ADA
*	AA 23R	56TB1-C 4	56J11-F1	IG ADA
*	A 234W	56TB1-C 5	56P03-H	IG CDU ATTITUDE STEERING ERROR
*	AA 16R	56TB1-C 5	56J11-C1	IG CDU ATTITUDE STEERING ERROR
*	A 224R	56TB1-C 6	56P02-T	3200 CPS 2 V FEEDBACK HI
*	AA 42W	56TB1-C 6	56J11-F3	3200 CPS 2 V FEEDBACK HI
*	A 229W	56TB1-C 7	56P03-A	X GYRO ERROR SIG
*	A 362	56TB1-C 7	56P09- 52	X GYRO ERROR SIG
*	AA155L	56TB1-C 7	56J15-B1	X GYRO ERROR SIG
*	A 230W	56TB1-C 8	56P03-B	Z GYRO ERROR SIG
*	A 361	56TB1-C 8	56P09- 41	Z GYRO ERROR SIG
*	AA155W	56TB1-C 8	56J15-A1	Z GYRO ERROR SIG
*	A 223R	56TB1-D 2	56P02-P	3200 CPS 2 V HI
*	A 323R	56TB1-D 2	56P09- 59	3200 CPS 2 V HI
*	AA 28R	56TB1-D 2	56J11-M1	3200 CPS 2 V HI
*	AA 28W	56TB1-D 2	56J11-L1	3200 CPS 2 V HI
*	A 241R	56TB1-D 3	56P03-D*	IG TORQUE MOTOR HI
*	A 242W	56TB1-D 3	56P03-G*	IG TORQUE MOTOR HI
*	A 352W	56TB1-D 3	56P09-106	IG TORQUE MOTOR HI
*	AA 30R	56TB1-D 3	56J11-D6	IG TORQUE MOTOR HI
*	A 241W	56TB1-D 4	56P03-E*	IG TORQUE MOTOR RET
*	A 242R	56TB1-D 4	56P03-F*	IG TORQUE MOTOR RET
*	A 352R	56TB1-D 4	56P09- 93	IG TORQUE MOTOR RET
*	AA 30W	56TB1-D 4	56J11-D5	IG TORQUE MOTOR RET

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 092

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INCHES
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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA374W	56TB3-M16	56J19-D1	SXT TRUNNION 1X RSVR ERROR HI	
*	A 254W	56TB3-M17	56P05-D*	SXT TRUNNION 1X RSVR ERROR LO	
*	AA374R	56TB3-M17	56J19-D2	SXT TRUNNION 1X RSVR ERROR LO	
*	A 113	56TB3-M18	56J04- 89	SHAFT CDU 16X LOAD	
*	AA385	56TB3-M18	56J19-C4	SHAFT CDU 16X LOAD	
	AA525	56TB3-M19	56J21- 96	+3 VDC AGC	175
*	A 381	56TB3-M19	56P09- 54	+3 VDC AGC	
*	AA426	56TB3-M19	56J20-D6	+3 VDC AGC	
	AA515	56TB3-M20	56TB3-C18	+28 VDC OPTICS	
	AA558	56TB3-M20	56TB3-C19	+28 VDC OPTICS	
*	A 122R	56TB3-M20	56J04- 43	+28 VDC OPTICS	
*	A 145R	56TB3-M20	56J05- 43	+28 VDC OPTICS	
*	A 445	56TB3-M20	56J09- 71	+26 VDC OPTICS	
*	AA457	56TB3-M20	56J20-M6	+28 VDC OPTICS	
*	A 29	56TB3-M21	56P01- 89	+28 VDC MDV	
*	AA280	56TB3-M21	56J17-R5	+28 VDC MDV	
*	AA405	56TB3-M21	56J20-M5	+28 VDC MDV	
*	A 435	56TB3-M22	56J09- 51	+28 VDC MDV	
*	A 507	56TB3-M22	56J10- 8	+28 VDC MDV	306
*	AA 82	56TB3-M22	56J12-L1	+28 VDC MDV	
*	AA404	56TB3-M22	56J20-L5	+28 VDC MDV	
*	A 279R	56TB3-N 1	56P06-X	IMU EMERGENCY HTR HI	
*	AA265W	56TB3-N 1	56J17-M4	IMU EMERGENCY HTR HI	
*	A 279W	56TB3-N 2	56P06-R	EMERGENCY HTR LO-OPER AND STBY	
*	AA265R	56TB3-N 2	56J17-N4	EMERGENCY HTR LO-OPER AND STBY	
	A 278B	56TB3-N 3	SHLD A278	0 VDC IMU	
	A 279B	56TB3-N 3	SHLD A279	0 VDC IMU	
	AA265B	56TB3-N 3	SHLD AA265	0 VDC IMU	
	AA270B	56TB3-N 3	SHLD AA270	0 VDC IMU	
*	AA295	56TB3-N 3	56J17-S3	0 VDC IMU	
*	AA296	56TB3-N 3	56J17-S1	0 VDC IMU	
*	AA595	56TB3-N 3	56TB3-R 3	0 VDC IMU	
*	A 278W	56TB3-N 4	56P06-W	IMU CONTROL HTR LO	
*	AA270W	56TB3-N 4	56J17-N1	IMU CONTROL HTR LO	
*	A 278R	56TB3-N 5	56P06-V	IMU CONTROL HTR HI	
*	AA270R	56TB3-N 5	56J17-P1	IMU CONTROL HTR HI	
*	A 277	56TB3-N 6	56P06-Y	EMERG HTR CONT MODULE LO	

CODE IDENT NO. 99974	SIZE A	1014607
SCALE-NONE	REV LTR B	SHEET 122

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 402	56TB3-N 6	56J09- 90	EMERG HTR CONT MODULE LO	
*	A 114R	56TB3-N 7	56J04-100	SHAFT CDU 16X RSVR COS LO P3	
*	AA313R	56TB3-N 7	56J18-A5	SHAFT CDU 16X RSVR COS LO P3	
*	A 114W	56TB3-N 8	56J04- 86	SHAFT CDU 16X RSVR COS HI P1	
*	AA313W	56TB3-N 8	56J18-A4	SHAFT CDU 16X RSVR COS HI P1	
	A 114B	56TB3-N 9	SHLD A114	0 VDC OPTICS	
	A 115B	56TB3-N 9	SHLD A115	0 VDC OPTICS	
	AA546	56TB3-N 9	56TB3-R 9	0 VDC OPTICS	
*	AA545	56TB3-N 9	56TB3-M 9	0 VDC OPTICS	
*	A 115W	56TB3-N10	56J04- 87	SHAFT CDU 16X RSVR SIN HI P2	
*	AA314W	56TB3-N10	56J18-B5	SHAFT CDU 16X RSVR SIN HI P2	
*	A 115R	56TB3-N11	56J04-101	SHAFT CDU 16X RSVR SIN LO P4	
*	AA314R	56TB3-N11	56J18-C5	SHAFT CDU 16X RSVR SIN LO P4	
*	A 108R	56TB3-N13	56J04- 66	SHAFT CDU 1/2X COS LO S4	
*	A 261R	56TB3-N13	56P05-W*	SHAFT CDU 1/2X COS LO P4	
*	A 313W	56TB3-N13	56P08-M*	SHAFT CDU 1/2X COS LO P2	
*	AA396R	56TB3-N13	56J19-D6	SHAFT CDU 1/2X COS LO S4	
*	A 108W	56TB3-N14	56J04- 56	SHAFT CDU 1/2X COS HI S2	
*	A 261W	56TB3-N14	56P05-X*	SHAFT CDU 1/2X COS HI P2	
*	A 313R	56TB3-N14	56P08-N*	SHAFT CDU 1/2X COS HI P4	
*	AA396W	56TB3-N14	56J19-D5	SHAFT CDU 1/2X COS HI S2	
	AA535	56TB3-N15	56TB3-R15	0 VDC OPTICS	
*	A 429	56TB3-N15	56J09- 1	0 VDC OPTICS	
*	AA534	56TB3-N15	56TB3-M15	0 VDC OPTICS	
*	A 309R	56TB3-N16	56P08-E*	SCT SHAFT TACH HI	
*	AA373W	56TB3-N16	56J19-B9	SCT SHAFT TACH HI	
*	A 309W	56TB3-N17	56P08-F*	SCT SHAFT TACH LO	
*	AA373R	56TB3-N17	56J19-C9	SCT SHAFT TACH LO	
*	A 136	56TB3-N18	56J05- 89	TRUNNION CDU 16X LOAD	
*	AA384	56TB3-N18	56J19-C3	TRUNNION CDU 16X LOAD	
	AA522	56TB3-N19	56J21- 63	0 VDC AGC	177
*	A 331	56TB3-N19	56P09- 18	0 VDC AGC	
*	A 382	56TB3-N19	56P09- 63	0 VDC AGC	
*	AA424	56TB3-N19	56J20-K4	0 VDC AGC	
*	A 64R	56TB3-N20	56J02- 20	COS AMG 1X S3	
*	A 221R	56TB3-N20	56P02-L	COS AMG 1X S3	
*	A 358R	56TB3-N20	56P09- 28	COS AMG 1X S3	

CODE IDENT NO. 99974	SIZE A	1014607
SCALE-NONE	REV LTR B	SHEET 123

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 329	56TB3-L21	56P09- 66	0 VDC OPTICS
*	AA282	56TB3-L21	56J17-R6	0 VDC OPTICS
*	AA407	56TB3-L21	56J20-N4	0 VDC OPTICS
	AA564	56TB3-L22	56TB3-D15	0 VDC OPTICS
*	AA365	56TB3-L22	56J19-T4	0 VDC OPTICS
*	AA367	56TB3-L22	56J19-T6	0 VDC OPTICS
*	A 285	56TB3-M 1	56P06-P	ACCEL TEMP IND SENSOR RET
*	AA269	56TB3-M 1	56J17-D5	ACCEL TEMP IND SENSOR RET
*	A 31	56TB3-M 2	56P01- 45	IMU TD RELAY C
*	AA251	56TB3-M 2	56J17-D8	IMU TD RELAY C
*	A 392	56TB3-M 3	56J09- 2	TRUNNION ENCODER PIN 8
*	AA285	56TB3-M 3	56J17-A9	TRUNNION ENCODER PIN 8
*	A 397	56TB3-M 4	56J09-104	ACCEL ZERO DEVIATION CHECK
*	AA256	56TB3-M 4	56J17-D7	ACCEL ZERO DEVIATION CHECK
*	A 441	56TB3-M 5	56J09-103	IMU IMU TEMP CONT +5 DEG GAIN CHECK
*	AA255	56TB3-M 5	56J17-D6	IMU IMU TEMP CONT +5 DEG GAIN CHECK
*	A 144W	56TB3-M 7	56J05- 92	TRUNION CDU TACH LO
*	AA315R	56TB3-M 7	56J18-B9	TRUNION CDU TACH LO
*	A 144R	56TB3-M 8	56J05-106	TRUNION CDU TACH HI
*	AA315W	56TB3-M 8	56J18-A9	TRUNION CDU TACH HI
	A 144B	56TB3-M 9	SHLD A144	0 VDC OPTICS
	A 425B	56TB3-M 9	SHLD A425	0 VDC OPTICS
	AA315B	56TB3-M 9	SHLD AA315	0 VDC OPTICS
	AA545	56TB3-M 9	56TB3-N 9	0 VDC OPTICS
*	AA544	56TB3-M 9	56TB3-L 9	0 VDC OPTICS
*	A 425R	56TB3-M10	56J09- 10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
*	AA326W	56TB3-M10	56J18-D8	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
*	A 425W	56TB3-M11	56J09- 23	RSVR DRIVE AMP INPUT LO
*	AA326L	56TB3-M11	56J18-F9	RSVR DRIVE AMP INPUT LO
*	A 425L	56TB3-M12	56J09- 24	RSVR DRIVE AMP SHAFT SIG (RSVD) HI
*	AA326R	56TB3-M12	56J18-F8	RSVR DRIVE AMP SHAFT SIG (RSVD) HI
	A 254B	56TB3-M15	SHLD A254	0 VDC OPTICS
	A 309B	56TB3-M15	SHLD A309	0 VDC OPTICS
	A 310B	56TB3-M15	SHLD A310	0 VDC OPTICS
	AA534	56TB3-M15	56TB3-N15	0 VDC OPTICS
*	AA533	56TB3-M15	56TB3-L15	0 VDC OPTICS
*	A 254R	56TB3-M16	56P05-C*	SXT TRUNNION 1X RSVR ERROR HI

CODE IDENT NO. 99974	SIZE A	1014607
SCALE-NONE	REV LTR B	SHEET 121

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA419W	56TB3-N20	56J20-A3	COS AMG 1X S3
*	AA508W	56TB3-N20	56J22-113	COS AMG 1X S3
*	A 64W	56TB3-N21	56J02- 6	COS AMG 1X S1
*	A 221W	56TB3-N21	56P02-M	COS AMG 1X S1
*	A 358W	56TB3-N21	56P09- 40	COS AMG 1X S1
*	AA419R	56TB3-N21	56J20-B3	COS AMG 1X S1
*	AA508R	56TB3-N21	56J22-114	COS AMG 1X S1
*	A 326	56TB3-N22	56P09- 20	+28 VDC STBY
*	AA445	56TB3-N22	56J20-P3	+28 VDC STBY
*	A 237W	56TB3-R 1	56P03-P	PITCH ERROR BODY AND BODY OFFSET AXIS LO
*	AA289W	56TB3-R 1	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
*	A 237R	56TB3-R 2	56P03-R	PITCH-YAW RSVR S4
*	AA289R	56TB3-R 2	56J17-C2	PITCH-YAW RSVR S4
	A 236B	56TB3-R 3	SHLD A236	0 VDC IMU
	A 237B	56TB3-R 3	SHLD A237	0 VDC IMU
	AA595	56TB3-R 3	56TB3-N 3	0 VDC IMU
*	AA297	56TB3-R 3	56J17-S4	0 VDC IMU
*	AA466	56TB3-R 3	56TB3-H12	0 VDC IMU
*	AA593	56TB3-R 3	56TB3-S 2	0 VDC IMU
*	A 236R	56TB3-R 4	56P03-N	PITCH YAW RSVR S3
*	AA247R	56TB3-R 4	56J17-D2	PITCH YAW RSVR S3
*	A 236W	56TB3-R 5	56P03-M	YAW ERROR BODY OFFSET AXIS LO
*	AA247W	56TB3-R 5	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	A 276	56TB3-R 6	56P06-N	ACCEL INDICATING SENSOR HI
*	A 395	56TB3-R 6	56J09- 97	ACCEL INDICATING SENSOR HI
*	A 248W	56TB3-R 7	56P05-P*	SXT AS 16X RSVR SIN LO
*	AA311R	56TB3-R 7	56J18-D3	SXT AS 16X RSVR SIN LO
*	A 248R	56TB3-R 8	56P05-N*	SXT AS 16X RSVR SIN HI
*	AA311W	56TB3-R 8	56J18-D2	SXT AS 16X RSVR SIN HI
	A 248B	56TB3-R 9	SHLD A248	0 VDC OPTICS
	A 258B	56TB3-R 9	SHLD A258	0 VDC OPTICS
	AA547	56TB3-R 9	56TB3-S 9	0 VDC OPTICS
*	AA546	56TB3-R 9	56TB3-N 9	0 VDC OPTICS
*	A 258R	56TB3-R10	56P05-Q*	SXT AS 16X RSVR COS LO
*	AA312W	56TB3-R10	56J18-D1	SXT AS 16X RSVR COS LO
*	A 258W	56TB3-R11	56P05-R*	SXT AS 16X RSVR COS HI
*	AA312R	56TB3-R11	56J18-C1	SXT AS 16X RSVR COS HI

CODE IDENT NO. 99974	SIZE A	1014607
SCALE-NONE	REV LTR B	SHEET 124

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INCHES
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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 332	56TB1-H 6	56P09- 13	AGC POWER SUPPLY FAIL SIG HI	
*	AA 80	56TB1-H 6	56J12-M1	AGC POWER SUPPLY FAIL SIG HI	
*	A 325R	56TB1-H 7	56P09- 68	25.6 KC HI OPTICS	
*	A 560R	56TB1-H 7	56E 17	25.6 KC HI OPTICS	
*	AA 63W	56TB1-H 7	56J12-P6	25.6 KC HI OPTICS	
*	A 187	56TB1-H 8	56J08- 51	ERROR DETECT LIGHT HI	
*	A 336	56TB1-H 8	56P09- 12	ERROR DETECT LIGHT HI	
*	AA 83	56TB1-H 8	56J12-L2	ERROR DETECT LIGHT HI	
*	A 18	56TB1-K 1	56P01- 91	MODE LAMP TEST PWR	
*	A 430W	56TB1-K 1	56J09- 84	MODE LAMP TEST PWR	
*	A 4	56TB1-K 3	56P01- 48	COARSE ALIGN MODE COMMAND FROM AGC	
*	A 479L	56TB1-K 3	56J10- 22	COARSE ALIGN MODE COMMAND FROM AGC	308
*	A 3	56TB1-K 4	56P01- 38	ZERO ENCODER MODE COMMAND FROM AGC	
*	A 479W	56TB1-K 4	56J10- 21	ZERO ENCODER MODE COMMAND FROM AGC	307
*	A 5	56TB1-K 5	56P01- 13	FINE ALIGN MODE COMMAND FROM AGC	
*	A 479R	56TB1-K 5	56J10- 24	FINE ALIGN MODE COMMAND FROM AGC	310
*	A 7	56TB1-K 6	56P01- 58	ENTRY MODE COMMAND FROM AGC	
*	A 480R	56TB1-K 6	56J10- 25	ENTRY MODE COMMAND FROM AGC	311
*	A 154	56TB1-K 7	56J06- 12	MODE RELAY COMMON TO AGC	
*	A 480W	56TB1-K 7	56J10- 26	MODE RELAY COMMON TO AGC	312
*	A 521	56TB1-K 7	56J10- 13	MODE RELAY COMMON TO AGC	315
*	A 6	56TB1-K 8	56P01- 27	CDU MANUAL MODE COMMAND FROM AGC	
*	A 480L	56TB1-K 8	56J10- 23	CDU MANUAL MODE COMMAND FROM AGC	309
*	A 349	56TB1-L 2	56P09- 33	X PIP ERROR MONITOR	
*	AA120	56TB1-L 2	56J13-D2	X PIP ERROR MONITOR	
*	A 293W	56TB1-L 3	56P07-P	Y PIP TORQUE RET	
*	AA122W	56TB1-L 3	56J13-M3	Y PIP TORQUE RET	
*	A 293R	56TB1-L 4	56P07-N	Y PIP TORQUE +	
*	AA122R	56TB1-L 4	56J13-L3	Y PIP TORQUE +	
*	A 294L	56TB1-L 5	56P07-W	X PIP TORQUE -	
*	AA119L	56TB1-L 5	56J13-L1	X PIP TORQUE -	
*	A 294W	56TB1-L 6	56P07-V	X PIP TORQUE RET	
*	AA119W	56TB1-L 6	56J13-K1	X PIP TORQUE RET	
*	A 290L	56TB1-L 7	56P07-F	X GYRO TORQUE -	
*	AA124L	56TB1-L 7	56J13-G6	X GYRO TORQUE -	
*	A 290W	56TB1-L 8	56P07-E	X GYRO TORQUE RET	
*	AA124W	56TB1-L 8	56J13-F6	X GYRO TORQUE RET	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 094

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 17K	56TB1-M 1	56P01- 90	400 CPS 5.5V HI TO PANEL BRIGHTNESS CONT
*	A 430K	56TB1-M 1	55J09- 63	400 CPS 5.5V HI TO PANEL BRIGHTNESS CONT
*	A 350	56TB1-M 2	56P09- 43	Y PIP ERROR MONITOR
*	AA123	56TB1-M 2	56J13-F2	Y PIP ERROR MONITOR
*	A 296R	56TB1-M 3	56P07-Z	Y PIP ERROR HI
*	AA121W	56TB1-M 3	56J13-A3	Y PIP ERROR HI
*	A 293L	56TB1-M 4	56P07-R	Y PIP TORQUE -
*	AA122L	56TB1-M 4	56J13-N3	Y PIP TORQUE -
*	A 294R	56TB1-M 5	56P07-U	X PIP TORQUE +
*	AA119R	56TB1-M 5	56J13-H1	X PIP TORQUE +
*	A 295W	56TB1-M 6	56P07-Y	X PIP ERROR LO
*	AA118R	56TB1-M 6	56J13-B1	X PIP ERROR LO
*	A 295R	56TB1-M 7	56P07-X	X PIP ERROR HI
*	AA118W	56TB1-M 7	56J13-A1	X PIP ERROR HI
*	A 290R	56TB1-M 8	56P07-D	X GYRO TORQUE +
*	AA124R	56TB1-M 8	56J13-D6	X GYRO TORQUE +
*	A 17L	56TB1-N 1	56P01-106	400 CPS 5.5V HI TO PANEL BRIGHTNESS CONT
*	A 430L	56TB1-N 1	56J09- 64	400 CPS 5.5V HI TO PANEL BRIGHTNESS CONT
*	A 296W	56TB1-N 2	56P07-A*	Y PIP ERROR LO
*	AA121R	56TB1-N 2	56J13-B3	Y PIP ERROR LO
*	A 180R	56TB1-N 3	56J08- 55	PROJECTION LAMP HI INTENSITY
*	A 419R	56TB1-N 3	56J09- 55	PROJECTION LAMP HI INTENSITY
	A 293B	56TB1-N 4	SHLD A293	0 VDC IMU
	AA122B	56TB1-N 4	SHLD AA122	0 VDC IMU
	AA573	56TB1-N 4	56TB1-N 5	0 VDC IMU
	AA588	56TB1-N 4	56TB1-S 8	0 VDC IMU
	AA589	56TB1-N 4	56TB2-M 5	0 VDC IMU
*	A 543	56TB1-N 4	56P12-D	0 VDC IMU
	A 294B	56TB1-N 5	SHLD A294	0 VDC IMU
	AA119B	56TB1-N 5	SHLD AA119	0 VDC IMU
	AA574	56TB1-N 5	56TB1-N 8	0 VDC IMU
*	AA 99	56TB1-N 5	56J12-R2	0 VDC IMU
*	AA573	56TB1-N 5	56TB1-N 4	0 VDC IMU
	A 290B	56TB1-N 8	SHLD A290	0 VDC IMU
	AA124B	56TB1-N 8	SHLD AA124	0 VDC IMU
*	AA100	56TB1-N 8	56J12-R4	0 VDC IMU
*	AA574	56TB1-N 8	56TB1-N 5	0 VDC IMU

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 095

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 272	56TB1-D 5	56P06-F	-28 VDC	
*	AA 27	56TB1-D 5	56J11-N6	-28 VDC	
*	A 26	56TB1-D 6	56P01- 4	COARSE ALIGN RELAY CONTROL	
*	AA 35	56TB1-D 6	56J11-L3	COARSE ALIGN RELAY CONTROL	
	A 224B	56TB1-D 7	SHLD A224	0 VDC IMU	
	A 229B	56TB1-D 7	SHLD A229	0 VDC IMU	
	AA572	56TB1-D 7	56TB1-D 8	0 VDC IMU	
	AA590	56TB1-D 7	56TB2-V 3	0 VDC IMU	
	A 230B	56TB1-D 8	SHLD A230	0 VDC IMU	
	AA587	56TB1-D 8	56TB1-N 8	0 VDC IMU	
*	A 527	56TB1-D 8	56P11-D	0 VDC IMU	
*	AA572	56TB1-D 8	56TB1-D 7	0 VDC IMU	
*	A 158	56TB1-F 8	56J06- 81	ATTUT CONT MODE COMMAND FROM AGC	
*	A 475	56TB1-F 8	56J10- 12	ATTIT CONT MODE COMMAND FROM AGC	314
*	A 271L	56TB1-G 2	56P06-C	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 319R	56TB1-G 2	56P09- 67	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	AA 60W	56TB1-G 2	56J12-P2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 324W	56TB1-G 4	56P09- 81	25.6 KC LO IMU	
*	A 564R	56TB1-G 4	56E 3	25.6 KC LO IMU	
*	AA 64R	56TB1-G 4	56J12-P5	25.6 KC LO IMU	
*	A 508	56TB1-G 5	56J10- 10	+28 VDC TO COMPUTER RELAY	327
*	AA 79	56TB1-G 5	56J12-M4	+28 VDC TO COMPUTER RELAY	
*	A 325W	56TB1-G 7	56P09- 80	25.6 KC LO OPTICS	
*	A 560W	56TB1-G 7	56E 16	25.6 KC LO OPTICS	
*	AA 63R	56TB1-G 7	56J12-N6	25.6 KC LO OPTICS	
*	A 271W	56TB1-H 2	56P06-B	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 319L	56TB1-H 2	56P09- 78	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	AA 60R	56TB1-H 2	56J12-R1	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 271R	56TB1-H 3	56P06-A	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 319W	56TB1-H 3	56P09- 79	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 60L	56TB1-H 3	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 324R	56TB1-H 4	56P09- 69	25.6 KC HI IMU	
*	A 564W	56TB1-H 4	56E 4	25.6 KC HI IMU	
*	AA 64W	56TB1-H 4	56J12-N4	25.6 KC HI IMU	
*	A 478	56TB1-H 5	56J10- 9	AGC FAIL SIG	326
*	AA 78	56TB1-H 5	56J12-M3	AGC FAIL SIG	
*	A 198	56TB1-H 6	56J08- 71	AGC POWER SUPPLY FAIL SIG HI	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 093

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA587	56TB1-N 8	56TB1-D 8	0 VDC IMU
*	A 17R	56TB1-R 1	56P01-103	400 CPS VAR ILLUM PWR
*	A 17W	56TB1-R 1	56P01-108	400 CPS VAR ILLUM PWR
*	A 430R	56TB1-R 1	56J09- 54	400 CPS VAR ILLUM PWR
	AA512	56TB1-R 2	56TB1-S 2	400 CPS 6 V LO
*	A 457R	56TB1-R 2	56P10- 94	400 CPS 6 V LO
*	A 180L	56TB1-R 3	56J08- 46	PROJECTION LAMP LO INTENSITY
*	A 419W	56TB1-R 3	56J09- 46	PROJECTION LAMP LO INTENSITY
*	A 153R	56TB1-S 1	56J06-108	400 CPS 6 V LO
*	A 561R	56TB1-S 1	56E 9	400 CPS VAR ILLUM PWR
	AA511	56TB1-S 2	56TB1-T 2	400 CPS 6 V LO
*	A 153W	56TB1-S 2	56J06-107	400 CPS VAR ILLUM PWR
*	A 180K	56TB1-S 2	56J08- 19	400 CPS 6 V LO
*	A 457W	56TB1-S 2	56P10- 95	400 CPS 6 V LO
*	A 561W	56TB1-S 2	56E 10	400 CPS 6 V LO
*	AA512	56TB1-S 2	56TB1-R 2	400 CPS 6 V LO
	A 292B	56TB1-S 3	SHLD A292	0 VDC IMU
	AA127B	56TB1-S 3	SHLD AA127	0 VDC IMU
	AA575	56TB1-S 3	56TB1-S 6	0 VDC IMU
	AA591	56TB1-S 3	56TB2-M 4	0 VDC IMU
*	AA 46	56TB1-S 3	56J11-P6	0 VDC IMU
*	A 211	56TB1-S 5	56J08- 92	0 VDC IMU
*	A 343	56TB1-S 5	56P09- 23	0 VDC IMU
*	A 452	56TB1-S 5	56P10- 13	0 VDC IMU
*	A 556	56TB1-S 5	56E 19	0 VDC IMU
*	AA601	56TB1-S 5	56TB1-S 7	0 VDC IMU
	A 291B	56TB1-S 6	SHLD A291	0 VDC IMU
	AA133B	56TB1-S 6	SHLD AA133	0 VDC IMU
	AA576	56TB1-S 6	56TB1-S 8	0 VDC IMU
*	AA 98	56TB1-S 6	56J12-R5	0 VDC IMU
*	AA575	56TB1-S 6	56TB1-S 3	0 VDC IMU
	AA601	56TB1-S 7	56TB1-S 5	0 VDC IMU
	AA602	56TB1-S 7	56TB2-D 8	0 VDC IMU
*	AA600	56TB1-S 7	56TB1-S 8	0 VDC IMU
	A 289B	56TB1-S 8	SHLD A289	0 VDC IMU
	AA136B	56TB1-S 8	SHLD AA136	0 VDC IMU
	AA600	56TB1-S 8	56TB1-S 7	0 VDC IMU

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR B	SHEET 096

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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA284R	56TB3-S 5	56J17-D9	SHAFT CDU ENCODER COM
*	A 188	56TB3-S 6	56J08- 60	IMU FAIL LIGHT HI
*	A 334	56TB3-S 6	56P09- 48	IMU FAIL LIGHT HI
*	A 465	56TB3-S 6	56J10- 6	IMU FAIL LIGHT HI
*	A 253W	56TB3-S 7	56P05-B*	SXT AT 64X RSVR COS LO
*	AA308R	56TB3-S 7	56J18-B1	SXT AT 64X RSVR COS LO
*	A 253R	56TB3-S 8	56P05-A*	SXT AT 64X RSVR COS HI
*	AA308W	56TB3-S 8	56J18-A1	SXT AT 64X RSVR COS HI
	A 138B	56TB3-S 9	SHLD A138	0 VDC OPTICS
	A 253B	56TB3-S 9	SHLD A253	0 VDC OPTICS
	AA308B	56TB3-S 9	SHLD AA308	0 VDC OPTICS
	AA310B	56TB3-S 9	SHLD AA310	0 VDC OPTICS
	AA548	56TB3-S 9	56TB3-T 9	0 VDC OPTICS
*	AA547	56TB3-S 9	56TB3-R 9	0 VDC OPTICS
*	A 138W	56TB3-S10	56J05- 87	TRUNNION CDU 16X RSVR SIN HI P2
*	AA310W	56TB3-S10	56J18-B3	TRUNNION CDU 16X RSVR SIN HI P2
*	A 138R	56TB3-S11	56J05-101	TRUNNION CDU 16X RSVR SIN LO P4
*	AA310R	56TB3-S11	56J18-B4	TRUNNION CDU 16X RSVR SIN LO P4
*	A 109W	56TB3-S12	56J04- 35	SHAFT CDU 1X P2 (S2)
*	AA328R	56TB3-S12	56J18-L5	SHAFT CDU 1X P2 (S2)
*	A 306R	56TB3-S13	56P08-V	SCT TRUNNION 1X SIN LO
*	AA383W	56TB3-S13	56J19-G3	SCT TRUNNION 1X SIN LO
*	A 306W	56TB3-S14	56P08-W	SCT TRUNNION 1X SIN HI
*	AA383R	56TB3-S14	56J19-G2	SCT TRUNNION 1X SIN HI
	A 257B	56TB3-S15	SHLD A257	0 VDC OPTICS
	A 260B	56TB3-S15	SHLD A260	0 VDC OPTICS
	A 302B	56TB3-S15	SHLD A302	0 VDC OPTICS
	AA536	56TB3-S15	56TB3-T15	0 VDC OPTICS
*	AA553	56TB3-S15	56TB3-R15	0 VDC OPTICS
*	A 260W	56TB3-S16	56P05-V*	SXT SHAFT TACH LO
*	AA371R	56TB3-S16	56J19-A2	SXT SHAFT TACH LO
*	A 260R	56TB3-S17	56P05-U*	SXT SHAFT TACH HI
*	AA371W	56TB3-S17	56J19-A3	SXT SHAFT TACH HI
*	A 264	56TB3-S18	56P05-AA	SXT SHAFT 1/2X RSVR LOAD
*	AA376	56TB3-S18	56J19-C5	SXT SHAFT 1/2X RSVR LOAD
*	A 317W	56TB3-S19	56P09- 6	0 VDC CONDITIONING
*	AA427W	56TB3-S19	56J20-C5	0 VDC CONDITIONING

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SCALE - NONE | REV LTR B | SHEET 126

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 386R	56TB3-S20	56P09- 21	+2.5 VDC CONDITIONING LO
*	AA463R	56TB3-S20	56J20-D4	+2.5 VDC CONDITIONING LO
	A 559	56TB3-S21	56E 6	+28 VDC IMU
	AA560	56TB3-S21	56TB3-T21	+28 VDC IMU
*	A 21	56TB3-S21	56P01- 7	+28 VDC IMU
*	AA456	56TB3-S21	56J20-K2	+28 VDC IMU
*	A 139L	56TB3-T 2	56J05-108	TRUNNION CDU ENCODER PHASE 2
*	AA281L	56TB3-T 2	56J17-A8	TRUNNION CDU ENCODER PHASE 2
	A 139B	56TB3-T 3	SHLD A139	TRUNNION CDU ENCODER COM
*	A 139R	56TB3-T 3	56J05- 94	TRUNNION CDU ENCODER COM
*	AA281R	56TB3-T 3	56J17-A7	TRUNNION CDU ENCODER COM
*	A 139W	56TB3-T 4	56J05-107	TRUNNION CDU ENCODER PHASE 1
*	AA281W	56TB3-T 4	56J17-A6	TRUNNION CDU ENCODER PHASE 1
*	A 116W	56TB3-T 5	56J04-107	SHAFT CDU ENCODER PHASE 1
*	AA284W	56TB3-T 5	56J17-C9	SHAFT CDU ENCODER PHASE 1
*	A 252W	56TB3-T 7	56P05-Z	SXT AT 64X RSVR SIN HI
*	AA307R	56TB3-T 7	56J18-B2	SXT AT 64X RSVR SIN HI
*	A 252R	56TB3-T 8	56P05-Y	SXT AT 64X RSVR SIN LO
*	AA307W	56TB3-T 8	56J18-C2	SXT AT 64X RSVR SIN LO
	A 137B	56TB3-T 9	SHLD A137	0 VDC OPTICS
	A 252B	56TB3-T 9	SHLD A252	0 VDC OPTICS
	AA307B	56TB3-T 9	SHLD AA307	0 VDC OPTICS
	AA309B	56TB3-T 9	SHLD AA309	0 VDC OPTICS
	AA549	56TB3-T 9	56TB3-G15	0 VDC OPTICS
*	AA548	56TB3-T 9	56TB3-S 9	0 VDC OPTICS
*	A 137W	56TB3-T10	56J05- 86	TRUNNION CDU 16X RSVR COS HI P1
*	AA309W	56TB3-T10	56J18-A2	TRUNNION CDU 16X RSVR COS HI P1
*	A 137R	56TB3-T11	56J05-100	TRUNNION CDU 16X RSVR COS LO P3
*	AA309R	56TB3-T11	56J18-A3	TRUNNION CDU 16X RSVR COS LO P3
*	A 109L	56TB3-T12	56J04- 34	SHAFT CDU 1X P1 (S1)
*	AA328W	56TB3-T12	56J18-K6	SHAFT CDU 1X P1 (S1)
*	A 307W	56TB3-T13	56P08-Y	SCT TRUNNION 1X COS LO
*	AA382R	56TB3-T13	56J19-G1	SCT TRUNNION 1X COS LO
*	A 307R	56TB3-T14	56P08-X	SCT TRUNNION 1X COS HI
*	AA382W	56TB3-T14	56J19-H1	SCT TRUNNION 1X COS HI
	A 306B	56TB3-T15	SHLD A306	0 VDC OPTICS
	A 307B	56TB3-T15	SHLD A307	0 VDC OPTICS

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SCALE - NONE | REV LTR B | SHEET 127

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 109R	56TB3-R12	56J04- 45	SHAFT CDU 1X P3 (S3)
*	AA328L	56TB3-R12	56J18-L6	SHAFT CDU 1X P3 (S3)
*	A 134W	56TB3-R13	56J05- 67	TRUNNION CDU 1/2X RSVR S3
*	AA386W	56TB3-R13	56J19-F9	TRUNNION CDU 1/2X RSVR S3
*	A 134R	56TB3-R14	56J05- 68	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
*	AA386R	56TB3-R14	56J19-F8	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	A 108B	56TB3-R15	SHLD A108	0 VDC OPTICS
	A 134B	56TB3-R15	SHLD A134	0 VDC OPTICS
	A 261B	56TB3-R15	SHLD A261	0 VDC OPTICS
	A 313B	56TB3-R15	SHLD A313	0 VDC OPTICS
	AA553	56TB3-R15	56TB3-S15	0 VDC OPTICS
*	AA535	56TB3-R15	56TB3-N15	0 VDC OPTICS
*	A 302W	56TB3-R16	56P08-P	SCT TRUNNION TACH LO
*	AA372R	56TB3-R16	56J19-A8	SCT TRUNNION TACH LO
*	A 302R	56TB3-R17	56P08-N	SCT TRUNNION TACH HI
*	AA372W	56TB3-R17	56J19-A9	SCT TRUNNION TACH HI
*	A 305	56TB3-R18	56P08-U	SCT TRUNNION 1X RSVR LOAD
*	AA378	56TB3-R18	56J19-A7	SCT TRUNNION 1X RSVR LOAD
*	A 386W	56TB3-R19	56P09- 7	+2.5 VDC CONDITIONING HI
*	AA463W	56TB3-R19	56J20-D5	+2.5 VDC CONDITIONING HI
*	A 330	56TB3-R20	56P09- 4	+28 VDC AGC
*	AA422	56TB3-R20	56J20-H4	+28 VDC AGC
	AA517R	56TB3-R21	56J22-120	800 CPS 28 V 1 PCT LO IMU
*	A 318W	56TB3-R21	56P09- 8	800 CPS 28 V 1 PCT LO IMU
*	AA410R	56TB3-R21	56J20-F6	800 CPS 28 V 1 PCT LO IMU
	AA517W	56TB3-R22	56J22-153	800 CPS 28 V 1 PCT HI IMU
*	A 318R	56TB3-R22	56P09- 9	800 CPS 28 V 1 PCT HI IMU
*	AA410W	56TB3-R22	56J20-F5	800 CPS 28 V 1 PCT HI IMU
	AA593	56TB3-S 2	56TB3-R 3	0 VDC IMU
	AA594	56TB3-S 2	56TB2-V 3	0 VDC IMU
*	A 544	56TB3-S 2	56P12-E	0 VDC IMU
*	AA248	56TB3-S 2	56J17-S2	0 VDC IMU
*	AA592	56TB3-S 2	56TB2-M 6	0 VDC IMU
*	A 116L	56TB3-S 4	56J04-108	SHAFT CDU ENCODER PHASE 2
*	AA284L	56TB3-S 4	56J17-F9	SHAFT CDU ENCODER PHASE 2
	A 116B	56TB3-S 5	SHLD A116	SHAFT CDU ENCODER COM
*	A 116R	56TB3-S 5	56J04- 94	SHAFT CDU ENCODER COM

CODE IDENT NO. 99974 | SIZE A | 1014607
SCALE - NONE | REV LTR B | SHEET 125

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA537	56TB3-T15	56TB3-B15	0 VDC OPTICS
*	AA536	56TB3-T15	56TB3-S15	0 VDC OPTICS
*	A 257R	56TB3-T16	56P05-K*	SXT TRUNNION TACH HI
*	AA370W	56TB3-T16	56J19-A1	SXT TRUNNION TACH HI
*	A 257W	56TB3-T17	56P05-M*	SXT TRUNNION TACH LO
*	AA370R	56TB3-T17	56J19-B1	SXT TRUNNION TACH LO
*	A 311	56TB3-T18	56P08-H*	SCT SHAFT 1/2X RSVR LOAD
*	AA380	56TB3-T18	56J19-C7	SCT SHAFT 1/2X RSVR LOAD
*	A 317R	56TB3-T19	56P09- 5	+20 VDC CONDITIONING
*	AA427R	56TB3-T19	56J20-B5	+20 VDC CONDITIONING
	AA559	56TB3-T20	56TB3-T21	+28 VDC IMU
*	A 244	56TB3-T20	56P03-H*	+28 VDC IMU
*	A 284	56TB3-T20	56P06-D	+28 VDC IMU
*	AA454	56TB3-T20	56J20-K1	+28 VDC IMU
*	A 327	56TB3-T21	56P09- 19	+28 VDC IMU
*	AA455	56TB3-T21	56J20-K1	+28 VDC IMU
*	AA559	56TB3-T21	56TB3-T20	+28 VDC IMU
*	AA560	56TB3-T21	56TB3-S21	+28 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA 72	56J12-K3	56J13-C6	STRUCTURE GND	
*	AA 7	56J12-K3	56J11-L4	STRUCTURE GND	
	AA 52R	56J12-K4	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
	AA 73L	56J12-K6	56J14-R2	+12, +120 VDC RET GYRO	
	AA 82	56J12-L1	56TB3-M22	+28 VDC MDV	
	AA 83	56J12-L2	56TB1-H 8	ERROR DETECT LIGHT HI	
	AA 95R	56J12-L5	56J13-R3	+32 VDC RET GYRO	
	AA 73R	56J12-L6	56J14-S2	+120 VDC GYRO	
	AA 80	56J12-M1	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI	
	AA 81	56J12-M1	56J21- 36	AGC POWER SUPPLY FAIL SIG HI	157A
	AA 78	56J12-M3	56TB1-H 5	AGC FAIL SIG	
	AA 79	56J12-M4	56TB1-G 5	+28 VDC TO COMPUTER RELAY	
	AA 95W	56J12-M5	56J13-S3	+32 VDC GYRO	
	AA 73W	56J12-M6	56J14-S3	+12 VDC GYRO	
	AA 61	56J12-N1	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 62	56J12-N2	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 49W	56J12-N3	56J15-P6	800 CPS 28 V 1 PCT HI IMU	
*	AA 5W	56J12-N3	56J11-N5	800 CPS 28 V 1 PCT HI IMU	
	AA 64W	56J12-N4	56TB1-H 4	25.6 KC HI IMU	
	AA 65	56J12-N4	56J12-N5	25.6 KC HI IMU	
	AA 50W	56J12-N5	56J15-N6	25.6 KC HI IMU	
*	AA 65	56J12-N5	56J12-N4	25.6 KC HI IMU	
	AA 63R	56J12-N6	56TB1-G 7	25.6 KC LO OPTICS	
	AA 94R	56J12-N6	56J17-N3	25.6 KC LO OPTICS	
	AA 60L	56J12-P1	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 61	56J12-P1	56J12-N1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
	AA 60W	56J12-P2	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
	AA 49R	56J12-P3	56J15-P5	800 CPS 28 V 1 PCT LO IMU	
*	AA 5R	56J12-P3	56J11-N4	800 CPS 28 V 1 PCT LO IMU	
	AA 92W	56J12-P4	56J17-R3	COMPUTER 12.8 KPPS SYNC	
*	AA610	56J12-P4	56J11-N3	COMPUTER 12.8 KPPS SYNC	
	AA 50R	56J12-P5	56J15-N5	25.6 KC LO IMU	
	AA 64R	56J12-P5	56TB1-G 4	25.6 KC LO IMU	
	AA 63W	56J12-P6	56TB1-H 7	25.6 KC HI OPTICS	
	AA 94W	56J12-P6	56J17-P3	25.6 KC HI OPTICS	
	AA 60R	56J12-R1	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO	
	AA 89	56J12-R2	56J12-R3	0 VDC IMU	
	AA 99	56J12-R2	56TB1-N 5	0 VDC IMU	
	AA 90	56J12-R3	56J12-R4	0 VDC IMU	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 89	56J12-R3	56J12-R2	0 VDC IMU
	AA 91	56J12-R4	56E 31	0 VDC IMU
	AA100	56J12-R4	56TB1-N 8	0 VDC IMU
*	AA 90	56J12-R4	56J12-R3	0 VDC IMU
	AA 96	56J12-R5	56J13-R6	0 VDC IMU
	AA 98	56J12-R5	56TB1-S 6	0 VDC IMU
*	AA 71	56J12-R5	56J12-G5	0 VDC IMU
	AA 66	56J12-R6	56TB3-L20	0 VDC OPTICS
	AA 54	56J12-S1	56J20-M1	+28 VDC IMU
	AA 87	56J12-S1	56J12-S3	+28 VDC IMU
	AA 55	56J12-S2	56J20-M2	+28 VDC IMU
	AA 88	56J12-S2	56J12-S4	+28 VDC IMU
*	AA 87	56J12-S3	56J12-S1	+28 VDC IMU
*	AA 88	56J12-S4	56J12-S2	+28 VDC IMU
*	AA 6	56J12-S5	56J11-S4	+28 VDC IMU
	AA 51	56J12-S6	56J20-N5	+28 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA 10W	56J12-A1	56J11-B6	IMU IG AND Y GYRO ERROR SIG	
*	AA 10R	56J12-A2	56J11-A5	IMU MG ERROR SIG	
	AA 75	56J12-A5	56J13-D2	X PIP ERROR MONITOR	
	AA 76	56J12-A6	56J13-F2	Y PIP ERROR MONITOR	
*	AA 10L	56J12-B1	56J11-A6	IMU OG ERROR SIG	
*	AA 10K	56J12-B2	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA 77	56J12-B5	56E 34	0 VDC IMU	
	AA 47	56J12-B6	56J14-H6	Z PIP ERROR MONITOR	
*	AA232L	56J12-D1	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	
*	AA232R	56J12-D2	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	
	AA 86W	56J12-D4	56J21- 60	ACCEL FAIL	138A
	AA 85W	56J12-D5	56J21-158	CDU FAIL	124A
	AA 84W	56J12-D6	56J21- 28	IMU FAIL	141A
	AA 67	56J12-F1	56E 31	COMPUTER 800 PPS SYNC RET	
	AA 68	56J12-F1	56J12-F2	COMPUTER 800 PPS SYNC RET	
	AA 69	56J12-F2	56E 29	COMPUTER 25.6 KPPS SYNC RET	
*	AA 68	56J12-F2	56J12-F1	COMPUTER 800 PPS SYNC RET	
	AA 97	56J12-F3	56J17-M3	0 VDC SPACECRAFT	
	AA 86R	56J12-F4	56J21- 61	ACCEL FAIL RET	138B
	AA 85R	56J12-F5	56J21-159	CDU FAIL RET	124B
	AA 84R	56J12-F6	56J21- 29	IMU FAIL RET	141B
*	AA490W	56J12-G1	56J21-169	COMPUTER 25.6 KPPS IN PHASE SYNC	153A
*	AA491R	56J12-G2	56J21-136	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA 74	56J12-G3	56J22-244	ERROR DETECT LIGHT MAIN PANEL	
	AA 53	56J12-G4	56J20-L6	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP	
	AA 59	56J12-G5	56J16-R2	0 VDC IMU	
	AA 71	56J12-G5	56J12-R5	0 VDC IMU	
	AA 58	56J12-G6	56J16-N3	OG CDU FAILURE INDICATION	
	AA 70R	56J12-H1	56J21- 71	COMPUTER 102.4 KPPS SYNC RET	156B
*	AA 70A	56J12-H1	SHLD AA 70	COMPUTER 102.4 KPPS SYNC RET	
	AA 48W	56J12-H2	56J15-S4	3200 CPS 2 V HI	
*	AA 9W	55J12-H2	56J11-L1	3200 CPS 2 V HI	
	AA 52W	56J12-H4	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 62	56J12-H4	56J12-N2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 56	56J12-H5	56J16-M2	IG CDU FAILURE INDICATION	
	AA 57	56J12-H6	56J16-M3	MG CDU FAILURE INDICATION	
	AA 70W	56J12-K1	56J21- 70	COMPUTER 102.4 KPPS SYNC	156A
	AA 48R	56J12-K2	56J15-R4	3200 CPS 2 V LO	
*	AA 9R	56J12-K2	56J11-L2	3200 CPS 2 V LO	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA118W	56J13-A1	56TB1-M 7	X PIP ERROR HI	
	AA121W	56J13-A3	56TB1-M 3	Y PIP ERROR HI	
	AA104	56J13-A6	56J14-A6	X GYRO DC DIFF AMP OUTPUT	
	AA118R	56J13-B1	56TB1-M 6	X PIP ERROR LO	
	AA121R	56J13-B3	56TB1-N 2	Y PIP ERROR LO	
	AA106	56J13-C6	56J14-H5	STRUCTURE GND	
*	AA 72	56J13-C6	56J12-K3	STRUCTURE GND	
	AA114	56J13-D1	56J15-L4	P X	
	AA120	56J13-D2	56TB1-L 2	X PIP ERROR MONITOR	
*	AA 75	56J13-D2	56J12-A5	X PIP ERROR MONITOR	
	AA116	56J13-D3	56J15-L3	P Y	
	AA124R	56J13-D6	56TB1-M 8	X GYRO TORQUE +	
	AA115	56J13-F1	56J15-M4	N X	
	AA123	56J13-F2	56TB1-M 2	Y PIP ERROR MONITOR	
*	AA 76	56J13-F2	56J12-A6	Y PIP ERROR MONITOR	
	AA117	56J13-F3	56J15-M3	N Y	
	AA124W	56J13-F6	56TB1-L 8	X GYRO TORQUE RET	
	AA124L	56J13-G6	56TB1-L 7	X GYRO TORQUE -	
	AA119R	56J13-H1	56TB1-M 5	X PIP TORQUE +	
	AA103	56J13-H6	56J14-G1	X GYRO CAL DUMMY	
	AA119W	56J13-K1	56TB1-L 6	X PIP TORQUE RET	
	AA105W	56J13-K6	56J14-H1	X GYRO TERNARY CUR SW TORQUE +	
	AA119L	56J13-L1	56TB1-L 5	X PIP TORQUE -	
	AA122R	56J13-L3	56TB1-L 4	Y PIP TORQUE +	
	AA105R	56J13-L6	56J14-K1	X GYRO TERNARY CUR SW TORQUE -	
	AA122W	56J13-M3	56TB1-L 3	Y PIP TORQUE RET	
	AA122L	56J13-N3	56TB1-M 4	Y PIP TORQUE -	
	AA101	56J13-N5	56J14-H3	PIPA INTERROGATE PULSE	
*	AA501W	56J13-N5	56J21-132	PIPA INTERROGATE PULSE	139A
	AA102	56J13-N6	56J14-K3	PIPA SWITCHING PULSE	
*	AA502W	56J13-N6	56J21- 99	PIPA SWITCHING PULSE	140A
	AA113	56J13-P6	56J14-P6	-28 VDC	
*	AA 14	56J13-P6	56J11-N6	-28 VDC	
	AA112R	56J13-R1	56J14-R2	+12, +120 VDC RET GYRO	
	AA109R	56J13-R2	56J14-R1	+120 VDC RET PIP	
	AA110R	56J13-R3	56J14-R5	+32 VDC RET GYRO	
*	AA 95R	56J13-R3	56J12-L5	+32 VDC RET GYRO	
	AA111R	56J13-R4	56J14-R4	+32 VDC RET PIP	
	AA108	56J13-R6	56J14-R6	0 VDC IMU	

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APPLICATION

NEXT ASSY	USED ON

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
D₁ D₂	D₁ REPLACES REV C WITH CHANGE D₂ CHANGED PER TDRR 04573	12 Nov 63	WK

Ⓓ₁ REPLACES REV C WITH CHANGE

REV	D	D	D	D	D	D	D	D	D	D	D	D	D	D	E	D	D	D	D	D	D	D	D	D	C
SHEET	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
REV STATUS	C	D	D	D	D	D	D	D	D	D	D	C	D	D	D	D	D	D	D	D	D	D	D		
OF SHEETS / SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
— — —
DO NOT SCALE THIS DRAWING
MATERIAL: —

		DATE
DRAWN		11/12/63
CHECKED		11/12/63
APPROVED		11/12/63
APP'D FOR MSC		11/12/63
BY DIRECTION		11/12/63

INTERCONNECTION LIST
OF AGE INTERCONNECT
HARNESS & PSA END
CONNECTOR ASSY

DWG NO.

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NASA DRAWING NO.
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SHEET 1 OF 117

SCALE —

REVISION D

REVISION STATUS OF SHEETS

SH	REV	SH	REV
50	D	86	D
51	D	87	D
52	D	88	D
53	D	89	D
54	D	90	D
55	D	91	D
56	D	92	D
57	D	93	D
58	D	94	D
59	D	95	D
60	D	96	D
61	D	97	D
62	D	98	D
63	D	99	D
64	D	100	D
65	D	101	D
66	D	102	D
67	D	103	D
68	D	104	D
69	D	105	D
70	D	106	D
71	D	107	D
72	D	108	D
73	D	109	D
74	D	110	D
75	D	111	D
76	D	112	D
77	D	113	D
78	D	114	D
79	D	115	D
80	D	116	D
81	D	117	D
82	D		
83	D		
84	D		
85	D		

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REVISION D

NASA DRAWING NO.
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SHEET 2

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 13B	SHLD A 13	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 14B	SHLD A 14	56E 44	AGC SIG 178 SHLD RET
*	A 15B	SHLD A 15	56E 44	AGC SIG 178 SHLD RET
*	A 16B	SHLD A 16	56E 44	AGC SIG 178 SHLD RET
*	A 23B	SHLD A 23	56TB2-S 2	OG CDU ERROR SIG RET
*	A 24B	SHLD A 24	56TB2-F 2	IG CDU ERROR SIG RET
*	A 25B	SHLD A 25	56TB2-F 7	MG CDU ERROR SIG RET
*	A 27B	SHLD A 27	56E 44	AGC SIG 178 SHLD RET
*	A 39B	SHLD A 39	56TB2-F 2	IG CDU ERROR SIG RET
*	A 40B	SHLD A 40	56TB3-H14	0 VDC IMU
*	A 41B	SHLD A 41	56TB3-H13	0 VDC IMU
*	A 42B	SHLD A 42	56TB2-G 1	IG CDU ERROR SIG RET
*	A 43B	SHLD A 43	56TB2-V 6	0 VDC IMU
*	A 44B	SHLD A 44	56TB2-D 8	0 VDC IMU
*	A 45B	SHLD A 45	56TB2-A 5	IG CDU ENCODER COM
*	A 51B	SHLD A 51	56TB2-T 7	IG CDU MDA INPUT RET
*	A 63B	SHLD A 63	56TB2-F 7	MG CDU ERROR SIG RET
*	A 64B	SHLD A 64	56E 48	0 VDC IMU
*	A 65B	SHLD A 65	56TB3-H12	0 VDC IMU
*	A 66B	SHLD A 66	56TB2-G 8	MG CDU ERROR SIG RET
*	A 67B	SHLD A 67	56TB2-V 5	0 VDC IMU
*	A 68B	SHLD A 68	56TB2-D 7	0 VDC IMU
*	A 69B	SHLD A 69	56TB2-C 6	MG CDU ENCODER COM
*	A 75B	SHLD A 75	56TB2-X 6	MG CDU MDA INPUT RET
*	A 86B	SHLD A 86	56TB2-S 2	OG CDU ERROR SIG RET
*	A 87B	SHLD A 87	56TB2-M 8	0 VDC IMU
*	A 88B	SHLD A 88	56TB2-V 8	0 VDC IMU
*	A 89B	SHLD A 89	56TB2-S 3	OG CDU ERROR SIG RET
*	A 90B	SHLD A 90	56TB2-V 4	0 VDC IMU
*	A 91B	SHLD A 91	56TB2-V 2	0 VDC IMU
*	A 92B	SHLD A 92	56TB2-A 4	OG CDU ENCODER COM
*	A 96B	SHLD A 96	56TB2-R 7	OG CDU MDA INPUT RET
*	A 107B	SHLD A107	56TB3-H 9	0 VDC OPTICS
*	A 108B	SHLD A108	56TB3-N15	0 VDC OPTICS
*	A 110B	SHLD A110	56TB3-K 9	0 VDC OPTICS
*	A 111B	SHLD A111	56TB3-G15	0 VDC OPTICS
*	A 112B	SHLD A112	56TB3-H 9	0 VDC OPTICS
*	A 114B	SHLD A114	56TB3-N 9	0 VDC OPTICS
*	A 115B	SHLD A115	56TB3-N 9	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 116B	SHLD A116	56TB3-S 5	SHAFT CDU ENCODER COM
*	A 121B	SHLD A121	56TB3-L 9	0 VDC OPTICS
*	A 130B	SHLD A130	56TB3-G 9	0 VDC OPTICS
*	A 131B	SHLD A131	56TB3-K15	0 VDC OPTICS
*	A 132B	SHLD A132	56TB3-L 9	0 VDC OPTICS
*	A 134B	SHLD A134	56TB3-R15	0 VDC OPTICS
*	A 135B	SHLD A135	56TB3-H 9	0 VDC OPTICS
*	A 137B	SHLD A137	56TB3-T 9	0 VDC OPTICS
*	A 138B	SHLD A138	56TB3-S 9	0 VDC OPTICS
*	A 139B	SHLD A139	56TB3-T 3	TRUNNION CDU ENCODER COM
*	A 144B	SHLD A144	56TB3-M 9	0 VDC OPTICS
*	A 155B	SHLD A155	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 156B	SHLD A156	56E 44	AGC SIG 178 SHLD RET
*	A 217B	SHLD A217	56TB2-V 3	0 VDC IMU
*	A 218B	SHLD A218	56TB2-V 2	0 VDC IMU
*	A 219B	SHLD A219	56TB2-V 5	0 VDC IMU
*	A 220B	SHLD A220	56TB2-D 7	0 VDC IMU
*	A 221B	SHLD A221	56E 48	0 VDC IMU
*	A 222B	SHLD A222	56TB3-H12	0 VDC IMU
*	A 224B	SHLD A224	56TB1-D 7	0 VDC IMU
*	A 225B	SHLD A225	56TB2-V 6	0 VDC IMU
*	A 226B	SHLD A226	56TB2-D 8	0 VDC IMU
*	A 227B	SHLD A227	56TB3-H14	0 VDC IMU
*	A 228B	SHLD A228	56TB3-H13	0 VDC IMU
*	A 229B	SHLD A229	56TB1-D 7	0 VDC IMU
*	A 230B	SHLD A230	56TB1-D 8	0 VDC IMU
*	A 232B	SHLD A232	56TB2-M 8	0 VDC IMU
*	A 233B	SHLD A233	56TB2-V 8	0 VDC IMU
*	A 234B	SHLD A234	56TB1-B 5	IG CDU ERROR SIG RET
*	A 235B	SHLD A235	56TB1-A 6	MG CDU ERROR SIG RET
*	A 236B	SHLD A236	56TB3-R 3	0 VDC IMU
*	A 237B	SHLD A237	56TB3-S 2	0 VDC IMU
*	A 248B	SHLD A248	56TB3-R 9	0 VDC OPTICS
*	A 252B	SHLD A252	56TB3-T 9	0 VDC OPTICS
*	A 253B	SHLD A253	56TB3-S 9	0 VDC OPTICS
*	A 254B	SHLD A254	56TB3-M15	0 VDC OPTICS
*	A 255B	SHLD A255	56TB3-H15	0 VDC OPTICS
*	A 256B	SHLD A256	56TB3-G 9	0 VDC OPTICS
*	A 257B	SHLD A257	56TB3-S15	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA126W	56J14-A1	56TB1-T 5	Z PIP ERROR HI	
	AA126R	56J14-A2	56TB1-T 4	Z PIP ERROR LO	
*	AA104	56J14-A6	56J13-A6	X GYRO DC DIFF AMP OUTPUT	
	AA143	56J14-C1	56J15-N2	+ SET X GYRO CAGE	
	AA144	56J14-C2	56J15-P2	- SET X GYRO CAGE	
	AA141	56J14-C3	56J15-N3	+ SET Y GYRO CAGE	
	AA142	56J14-C4	56J15-P3	- SET Y GYRO CAGE	
	AA139	56J14-C5	56J15-N4	+ SET Z GYRO CAGE	
	AA140	56J14-C6	56J15-P4	- SET Z GYRO CAGE	
	AA129R	56J14-D1	56J21- 67	+ DX GYRO RATE	142B
	AA130W	56J14-D2	56J21- 33	- DX GYRO RATE	143B
	AA131R	56J14-D3	56J21-240	+ DY GYRO RATE	144B
	AA132R	56J14-D4	56J21-202	- DY GYRO RATE	145B
	AA134W	56J14-D5	56J21-168	+ DZ GYRO RATE	146B
	AA135R	56J14-D6	56J21-135	- DZ GYRO RATE	147B
	AA148	56J14-F6	56J15-L2	P Z	
*	AA103	56J14-G1	56J13-H6	X GYRO CAL DUMMY	
	AA149	56J14-G6	56J15-M2	N Z	
*	AA105W	56J14-H1	56J13-K6	X GYRO TERNARY CUR SW TORQUE +	
	AA138	56J14-H3	56J15-L1	PIPA INTERROGATE PULSE	
*	AA101	56J14-H3	56J13-N5	PIPA INTERROGATE PULSE	
	AA145	56J14-H4	56J15-M1	GYRO DATA PULSE	
	AA151	56J14-H5	56J15-K3	STRUCTURE GND	
*	AA106	56J14-H5	56J13-C6	STRUCTURE GND	
	AA128	56J14-H6	56TB1-T 7	Z PIP ERROR MONITOR	
*	AA 47	56J14-H6	56J12-B6	Z PIP ERROR MONITOR	
*	AA105R	56J14-K1	56J13-L6	X GYRO TERNARY CUR SW TORQUE -	
	AA146	56J14-K3	56J15-N1	PIPA SWITCHING PULSE	
*	AA102	56J14-K3	56J13-N6	PIPA SWITCHING PULSE	
	AA147	56J14-K4	56J15-P1	GYRO RESET PULSE	
	AA136R	56J14-L6	56TB1-T 8	Z GYRO TORQUE +	
	AA133R	56J14-M1	56TB1-T 6	Y GYRO TORQUE +	
	AA133L	56J14-M2	56TB1-U 6	Y GYRO TORQUE -	
	AA133W	56J14-M3	56TB1-U 5	Y GYRO TORQUE RET	
	AA136L	56J14-M6	56TB1-U 8	Z GYRO TORQUE -	
	AA136W	56J14-N6	56TB1-U 7	Z GYRO TORQUE RET	
	AA127R	56J14-P1	56TB1-U 4	Z PIP TORQUE +	
	AA127L	56J14-P2	56TB1-U 3	Z PIP TORQUE -	
	AA127W	56J14-P3	56TB1-T 3	Z PIP TORQUE RET	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607	
SCALE-NONE	REV LTR D		SHEET 38

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA113	56J14-P6	56J13-P6	-28 VDC
	AA150R	56J14-R1	56J15-R5	+120 VDC RET PIP
*	AA109R	56J14-R1	56J13-R2	+120 VDC RET PIP
*	AA 73L	56J14-R2	56J12-K6	+12, +120 VDC RET GYRO
*	AA112R	56J14-R2	56J13-R1	+12, +120 VDC RET GYRO
	AA154R	56J14-R4	56J17-S5	+32 VDC RET PIP
*	AA111R	56J14-R4	56J13-R4	+32 VDC RET PIP
*	AA110R	56J14-R5	56J13-R3	+32 VDC RET GYRO
	AA137	56J14-R6	56E 33	0 VDC IMU
	AA153	56J14-R6	56J15-R2	0 VDC IMU
*	AA108	56J14-R6	56J13-R6	0 VDC IMU
	AA150W	56J14-S1	56J15-S5	+120 VDC PIP
*	AA109W	56J14-S1	56J13-S2	+120 VDC PIP
*	AA 73R	56J14-S2	56J12-L6	+120 VDC GYRO
*	AA112W	56J14-S2	56J13-S1	+120 VDC GYRO
*	AA 73W	56J14-S3	56J12-M6	+12 VDC GYRO
	AA154W	56J14-S4	56J17-T5	+32 VDC PIP
*	AA111W	56J14-S4	56J13-S4	+32 VDC PIP
*	AA110W	56J14-S5	56J13-S3	+32 VDC GYRO
	AA152	56J14-S6	56J15-S2	+28 VDC IMU
*	AA107	56J14-S6	56J13-S6	+28 VDC IMU

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607	
SCALE-NONE	REV LTR D		SHEET 39

MIL 2084 4-63

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA125	56J13-R6	56E 34	0 VDC IMU
*	AA 96	56J13-R6	56J12-R5	0 VDC IMU
	AA112W	56J13-S1	56J14-S2	+120 VDC GYRO
	AA109W	56J13-S2	56J14-S1	+120 VDC PIP
	AA110W	56J13-S3	56J14-S5	+32 VDC GYRO
*	AA 95W	56J13-S3	56J12-M5	+32 VDC GYRO
	AA111W	56J13-S4	56J14-S4	+32 VDC PIP
	AA107	56J13-S6	56J14-S6	+28 VDC IMU

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607	
SCALE-NONE	REV LTR D		SHEET 37

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA155W	56J15-A1	56TB1-C 8	Z GYRO ERROR SIG	
	AA155R	56J15-A2	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG	
*	AA488W	56J15-A3	56J21-188	MANUAL CDU MODE INDICATION TO AGC	160A
	AA180R	56J15-A4	56J16-B2	IG DAC MDA SIG HI	
	AA164	56J15-A5	56E 38	IG DAC MDA SIG LO	
	AA167	56J15-A5	56E 39	IG DAC MDA SIG LO	
	AA180W	56J15-A5	56J16-B1	IG DAC MDA SIG LO	
	AA181R	56J15-A6	56J16-B4	MG DAC MDA SIG HI	
	AA165	56J15-A7	56E 40	MG DAC MDA SIG LO	
	AA168	56J15-A7	56E 41	MG DAC MDA SIG LO	
	AA181W	56J15-A7	56J16-B3	MG DAC MDA SIG LO	
	AA182R	56J15-A8	56J16-B6	OG DAC MDA SIG HI	
	AA166	56J15-A9	56E 42	OG DAC MDA SIG LO	
	AA169	56J15-A9	56E 43	OG DAC MDA SIG LO	
	AA182W	56J15-A9	56J16-B5	OG DAC MDA SIG LO	
	AA155L	56J15-B1	56TB1-C 7	X GYRO ERROR SIG	
	AA155K	56J15-B2	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA176W	56J15-B3	56TB2-D 2	AGC COM	
*	AA475W	56J15-B4	56J21- 24	IG ENCODER + DELTA THETA	120A
*	AA481W	56J15-B5	56J21-237	IG CDU + DELTA THETA COMMAND	128A
*	AA477W	56J15-B6	56J21-232	MG ENCODER + DELTA THETA	122A
*	AA483W	56J15-B7	56J21-165	MG CDU + DELTA THETA COMMAND	130A
*	AA479W	56J15-B8	56J21- 56	OG ENCODER + DELTA THETA	118A
*	AA485W	56J15-B9	56J21- 64	OG CDU + DELTA THETA COMMAND	126A
	AA161R	56J15-C1	56TB2-A 5	IG CDU ENCODER COM	
	AA161W	56J15-C2	56TB2-B 5	IG CDU ENCODER PHASE 1	
	AA163L	56J15-C3	56TB2-C 4	OG CDU ENCODER PHASE 2	
*	AA476R	56J15-C4	56J21- 26	IG ENCODER - DELTA THETA	121A
*	AA482R	56J15-C5	56J21-199	IG CDU - DELTA THETA COMMAND	129A
*	AA478R	56J15-C6	56J21-192	MG ENCODER - DELTA THETA	123A
*	AA484R	56J15-C7	56J21- 97	MG CDU - DELTA THETA COMMAND	131A
*	AA480R	56J15-C8	56J21- 58	OG ENCODER - DELTA THETA	119A
*	AA486R	56J15-C9	56J21- 30	OG CDU - DELTA THETA COMMAND	127A
	AA161L	56J15-D1	56TB2-C 5	IG CDU ENCODER PHASE 2	
	AA162R	56J15-D2	56TB2-A 6	MG CDU ENCODER PHASE 2	
	AA163R	56J15-D3	56TB2-A 4	OG CDU ENCODER COM	
	AA163W	56J15-D4	56TB2-B 4	OG CDU ENCODER PHASE 1	
	AA171R	56J15-D7	56TB2-B 8	SIN AIG 16X S4	
	AA171W	56J15-D8	56TB2-A 8	SIN AIG 16X S2	

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INCHES
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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 437B	SHLD A437	56E 44	AGC SIG 178 SHLD RET
	A 440A	SHLD A440	56E 44	AGC SIG 178 SHLD RET
*	A 449B	SHLD A449	56E 44	AGC SIG 178 SHLD RET
	AA 70A	SHLD AA 70	56J12-H1	COMPUTER 102.4 KPPS SYNC RET
*	AA 92B	SHLD AA 92	56E 27	0 VDC IMU
*	AA119B	SHLD AA119	56TB1-N 5	0 VDC IMU
*	AA122B	SHLD AA122	56TB1-N 4	0 VDC IMU
*	AA124B	SHLD AA124	56TB1-N 8	0 VDC IMU
*	AA127B	SHLD AA127	56TB1-S 3	0 VDC IMU
*	AA133B	SHLD AA133	56TB1-S 6	0 VDC IMU
*	AA136B	SHLD AA136	56TB1-S 8	0 VDC IMU
*	AA176B	SHLD AA176	56TB2-D 3	AGC SIG 178 SHLD RET
	AA197A	SHLD AA197	56J16-B1	IG CDU MDA INPUT RET
	AA202A	SHLD AA202	56J16-B3	MG CDU MDA INPUT RET
	AA214A	SHLD AA214	56J16-B5	OG CDU MDA INPUT RET
	AA226A	SHLD AA226	56E 30	0 VDC IMU
	AA227A	SHLD AA227	56E 30	0 VDC IMU
	AA232A	SHLD AA232	56E 30	0 VDC IMU
*	AA232B	SHLD AA232	56E 31	0 VDC IMU
*	AA244B	SHLD AA244	56J22- 41	
*	AA245B	SHLD AA245	56J22- 5	
*	AA246B	SHLD AA246	56J22- 8	
*	AA265B	SHLD AA265	56TB3-R 3	0 VDC IMU
*	AA270B	SHLD AA270	56TB3-N 3	0 VDC IMU
*	AA287B	SHLD AA287	56J22- 2	
*	AA288B	SHLD AA288	56J22- 11	
*	AA307B	SHLD AA307	56TB3-R 9	0 VDC OPTICS
*	AA308B	SHLD AA308	56TB3-N 9	0 VDC OPTICS
*	AA309B	SHLD AA309	56TB3-T 9	0 VDC OPTICS
*	AA310B	SHLD AA310	56TB3-S 9	0 VDC OPTICS
*	AA315B	SHLD AA315	56TB3-M 9	0 VDC OPTICS
*	AA316B	SHLD AA316	56TB3-L 9	0 VDC OPTICS
*	AA329B	SHLD AA329	56TB3-H 9	0 VDC OPTICS
*	AA331B	SHLD AA331	56TB3-K 9	0 VDC OPTICS
	AA467A	SHLD AA467	56E 46	AGC SIG 180 SHLD RET
	AA468A	SHLD AA468	56E 46	AGC SIG 180 SHLD RET
	AA469A	SHLD AA469	56E 46	AGC SIG 180 SHLD RET
	AA470A	SHLD AA470	56E 46	AGC SIG 180 SHLD RET
	AA471A	SHLD AA471	56E 46	AGC SIG 180 SHLD RET

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SCALE - NONE	REV LTR D	SHEET 6

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA472A	SHLD AA472	56E 46	AGC SIG 180 SHLD RET
	AA475A	SHLD AA475	56E 47	AGC SIG 179 SHLD RET
	AA476A	SHLD AA476	56E 47	AGC SIG 179 SHLD RET
	AA477A	SHLD AA477	56E 47	AGC SIG 179 SHLD RET
	AA478A	SHLD AA478	56E 47	AGC SIG 179 SHLD RET
	AA479A	SHLD AA479	56E 47	AGC SIG 179 SHLD RET
	AA480A	SHLD AA480	56E 47	AGC SIG 179 SHLD RET
*	AA481B	SHLD AA481	56E 39	IG DAC MDA SIG LO
*	AA482B	SHLD AA482	56E 39	IG DAC MDA SIG LO
*	AA483B	SHLD AA483	56E 41	MG DAC MDA SIG LO
*	AA484B	SHLD AA484	56E 41	MG DAC MDA SIG LO
*	AA485B	SHLD AA485	56E 43	OG DAC MDA SIG LO
*	AA486B	SHLD AA486	56E 43	OG DAC MDA SIG LO
	AA487A	SHLD AA487	56E 57	AGC SIG 178 SHLD RET
	AA488A	SHLD AA488	56E 57	AGC SIG 178 SHLD RET
	AA489A	SHLD AA489	56E 57	AGC SIG 178 SHLD RET
*	AA490B	SHLD AA490	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA491B	SHLD AA491	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA492B	SHLD AA492	56E 52	SHAFT CDU DAC LO
*	AA493B	SHLD AA493	56E 52	SHAFT CDU DAC LO
	AA494A	SHLD AA494	56E 45	AGC SIG 180 SHLD RET
	AA495A	SHLD AA495	56E 45	AGC SIG 180 SHLD RET
*	AA496B	SHLD AA496	56E 50	TRUNNION CDU DAC LO
*	AA497B	SHLD AA497	56E 50	TRUNNION CDU DAC LO
	AA498A	SHLD AA498	56E 45	AGC SIG 180 SHLD RET
	AA499A	SHLD AA499	56E 45	AGC SIG 180 SHLD RET
*	AA500B	SHLD AA500	56E 27	0 VDC IMU
*	AA503B	SHLD AA503	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA504B	SHLD AA504	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA505B	SHLD AA505	56TB2-V 8	0 VDC IMU
*	AA506B	SHLD AA506	56TB2-M 8	0 VDC IMU
*	AA507B	SHLD AA507	56TB3-H12	0 VDC IMU
*	AA508B	SHLD AA508	56TB3-H14	0 VDC IMU
*	AA509B	SHLD AA509	56TB3-H13	0 VDC IMU
*	AA510B	SHLD AA510	56TB3-H14	0 VDC IMU
	AA569A	SHLD AA569	56TB2-D 3	AGC SIG 178 SHLD RET
	AA571A	SHLD AA571	56TB2-S 3	OG CDU ERROR SIG RET

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SCALE - NONE	REV LTR D	SHEET 7

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 258B	SHLD A258	56TB3-R 9	0 VDC OPTICS
*	A 260B	SHLD A260	56TB3-S15	0 VDC OPTICS
*	A 261B	SHLD A261	56TB3-R15	0 VDC OPTICS
*	A 262B	SHLD A262	56TB3-K 9	0 VDC OPTICS
*	A 263B	SHLD A263	56TB3-H15	0 VDC OPTICS
*	A 278B	SHLD A278	56TB3-N 3	0 VDC IMU
*	A 279B	SHLD A279	56TB3-N 3	0 VDC IMU
*	A 289B	SHLD A289	56TB1-S 8	0 VDC IMU
*	A 290B	SHLD A290	56TB1-N 8	0 VDC IMU
*	A 291B	SHLD A291	56TB1-S 6	0 VDC IMU
*	A 292B	SHLD A292	56TB1-S 3	0 VDC IMU
*	A 293B	SHLD A293	56TB1-N 4	0 VDC IMU
*	A 294B	SHLD A294	56TB1-N 5	0 VDC IMU
*	A 302B	SHLD A302	56TB3-S15	0 VDC OPTICS
*	A 304B	SHLD A304	56TB3-H15	0 VDC OPTICS
*	A 306B	SHLD A306	56TB3-T15	0 VDC OPTICS
*	A 307B	SHLD A307	56TB3-T15	0 VDC OPTICS
*	A 309B	SHLD A309	56TB3-M15	0 VDC OPTICS
*	A 310B	SHLD A310	56TB3-M15	0 VDC OPTICS
*	A 312B	SHLD A312	56TB3-K 9	0 VDC OPTICS
*	A 313B	SHLD A313	56TB3-R15	0 VDC OPTICS
*	A 338B	SHLD A338	56TB2-S 3	OG CDU ERROR SIG RET
*	A 355B	SHLD A355	56TB3-H13	0 VDC IMU
*	A 356B	SHLD A356	56TB3-H14	0 VDC IMU
*	A 357B	SHLD A357	56TB3-H12	0 VDC IMU
*	A 358B	SHLD A358	56E 48	0 VDC IMU
*	A 359B	SHLD A359	56TB2-V 8	0 VDC IMU
*	A 360B	SHLD A360	56TB2-M 8	0 VDC IMU
*	A 364B	SHLD A364	56TB2-F 2	IG CDU ERROR SIG RET
*	A 365B	SHLD A365	56TB2-F 7	MG CDU ERROR SIG RET
*	A 366B	SHLD A366	56TB2-S 2	OG CDU ERROR SIG RET
*	A 407B	SHLD A407	56E 44	AGC SIG 178 SHLD RET
*	A 421B	SHLD A421	56TB3-F 7	TRUNNION CDU DAC LO
*	A 422B	SHLD A422	56TB3-F 8	SHAFT CDU DAC LO
*	A 425B	SHLD A425	56TB3-M 9	0 VDC OPTICS
*	A 426B	SHLD A426	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
*	A 427B	SHLD A427	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO
*	A 433B	SHLD A433	56E 44	AGC SIG 178 SHLD RET
*	A 434B	SHLD A434	56E 44	AGC SIG 178 SHLD RET

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SCALE - NONE	REV LTR D	SHEET 5

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 577R	56E 1	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	A 84R	56E 1	56J03- 1	800 CPS 28 V 1 PCT HI IMU
*	A 572R	56E 1	56J01- 1	800 CPS 28 V 1 PCT HI IMU
*	A 573L	56E 1	56J01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 573R	56E 1	56J01- 25	800 CPS 28 V 1 PCT HI IMU
*	A 574R	56E 1	56J02- 1	800 CPS 28 V 1 PCT HI IMU
*	A 575L	56E 1	56J02- 11	800 CPS 28 V 1 PCT HI IMU
*	A 575R	56E 1	56J02- 25	800 CPS 28 V 1 PCT HI IMU
*	A 576L	56E 1	56J03- 11	800 CPS 28 V 1 PCT HI IMU
*	A 576R	56E 1	56J03- 25	800 CPS 28 V 1 PCT HI IMU
	A 577W	56E 2	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	A 84W	56E 2	56J03- 14	800 CPS 28 V 1 PCT LO IMU
*	A 572W	56E 2	56J01- 14	800 CPS 28 V 1 PCT LO IMU
*	A 574W	56E 2	56J02- 14	800 CPS 28 V 1 PCT LO IMU
	A 564R	56E 3	56TB1-G 4	25.6 KC LO IMU
*	A 46W	56E 3	56J01- 60	25.6 KC LO IMU
*	A 70W	56E 3	56J02- 60	25.6 KC LO IMU
*	A 93W	56E 3	56J03- 60	25.6 KC LO IMU
	A 564W	56E 4	56TB1-H 4	25.6 KC HI IMU
*	A 46R	56E 4	56J01- 50	25.6 KC HI IMU
*	A 70R	56E 4	56J02- 50	25.6 KC HI IMU
*	A 93R	56E 4	56J03- 50	25.6 KC HI IMU
*	A 573W	56E 5	56J01- 12	ZEROING RSVR 800 CPS
*	A 575W	56E 5	56J02- 12	ZEROING RSVR 800 CPS
*	A 576W	56E 5	56J03- 12	ZEROING RSVR 800 CPS
*	A 577L	56E 5	56TB2-H 5	ZEROING RSVR 800 CPS
*	A 48	56E 6	56J01- 16	+28 VDC IMU
*	A 72	56E 6	56J02- 16	+28 VDC IMU
*	A 559	56E 6	56TB3-S21	+28 VDC IMU
*	A 581	56E 6	56J03- 16	+28 VDC IMU
	A 567R	56E 7	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 578R	56E 7	56J01- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 579R	56E 7	56J02- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 580R	56E 7	56J03- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	A 557	56E 8	56TB2-D 1	+28 VDC CDU NOT LOCK
*	A 50	56E 8	56J01- 15	+28 VDC CDU NOT LOCK
*	A 74	56E 8	56J02- 15	+28 VDC CDU NOT LOCK
*	A 582	56E 8	56J03- 15	+28 VDC CDU NOT LOCK
	A 561R	56E 9	56TB1-S 1	400 CPS VAR ILLUM PWR

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SCALE - NONE	REV LTR D	SHEET 8

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA185R	56J15-P5	56J16-S3	800 CPS 28 V 1 PCT LO IMU	
*	AA 49R	56J15-P5	56J12-P3	800 CPS 28 V 1 PCT LO IMU	
	AA185W	56J15-P6	56J16-S4	800 CPS 28 V 1 PCT HI IMU	
*	AA 49W	56J15-P6	56J12-N3	800 CPS 28 V 1 PCT HI IMU	
	AA156	56J15-R1	56TB2-C 2	BACKUP MODE RELAY CONTROL	
	AA157R	56J15-R2	56J21-101	0 VDC IMU	148A
*	AA153	56J15-R2	56J14-R6	0 VDC IMU	
*	AA 48R	56J15-R4	56J12-K2	3200 CPS 2 V LO	
	AA188R	56J15-R5	56J17-L4	+120 VDC RET PIP	
*	AA150R	56J15-R5	56J14-R1	+120 VDC RET PIP	
	AA177	56J15-R6	56TB2-D 1	+28 VDC CDU NOT LOCK	
	AA173	56J15-S1	56TB2-B 2	ZERO ENCODER RELAY CONTROL	
	AA183	56J15-S1	56J16-L2	ZERO ENCODER RELAY CONTROL	
	AA179	56J15-S2	56J20-K1	+28 VDC IMU	
*	AA152	56J15-S2	56J14-S6	+28 VDC IMU	
	AA174	56J15-S3	56TB2-B 1	LOCK CDU RELAY CONTROL	
	AA175	56J15-S3	56J22-227	LOCK CDU RELAY CONTROL	
*	AA 48W	56J15-S4	56J12-H2	3200 CPS 2 V HI	
	AA188W	56J15-S5	56J17-L5	+120 VDC PIP	
*	AA150W	56J15-S5	56J14-S1	+120 VDC PIP	
	AA186	56J15-S6	56J16-S2	+28 VDC IMU	
*	AA 1	56J15-S6	56J11-S4	+28 VDC IMU	

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HOUSTON, TEXAS
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SCALE-NONE
REV LTR D
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA197R	56J16-A1	56TB2-U 6	IG CDU MDA TACH SIG
	AA197W	56J16-A2	56TB2-T 6	IG CDU MDA SLEW SIG
	AA202R	56J16-A3	56TB2-W 5	MG CDU MDA TACH SIG
	AA202W	56J16-A4	56TB2-X 5	MG CDU MDA SLEW SIG
	AA214R	56J16-A5	56TB2-N 6	OG CDU MDA TACH SIG
	AA214W	56J16-A6	56TB2-R 6	OG CDU MDA SLEW SIG
*	AA489W	56J16-A7	56J21-152	ZERO ENCODER MODE INDICATION TO AGC 158A
	AA205W	56J16-A8	56TB2-U 7	SIN AOG 1X S2
	AA205R	56J16-A9	56TB2-U 8	SIN AOG 1X S4
	AA197L	56J16-B1	56TB2-T 7	IG CDU MDA INPUT RET
*	AA180W	56J16-B1	56J15-A5	IG DAC MDA SIG LO
*	AA197A	56J16-B1	SHLD AA197	IG CDU MDA INPUT RET
*	AA180R	56J16-B2	56J15-A4	IG DAC MDA SIG HI
	AA202L	56J16-B3	56TB2-X 6	MG CDU MDA INPUT RET
*	AA181W	56J16-B3	56J15-A7	MG DAC MDA SIG LO
*	AA202A	56J16-B3	SHLD AA202	MG CDU MDA INPUT RET
*	AA181R	56J16-B4	56J15-A6	MG DAC MDA SIG HI
	AA214L	56J16-B5	56TB2-R 7	OG CDU MDA INPUT RET
*	AA182W	56J16-B5	56J15-A9	OG DAC MDA SIG LO
*	AA214A	56J16-B5	SHLD AA214	OG CDU MDA INPUT RET
*	AA182R	56J16-B6	56J15-A8	OG DAC MDA SIG HI
*	AA569W	56J16-B7	56TB2-D 2	AGC COM
	AA204W	56J16-B8	56TB2-N 8	COS AOG 1X S3
	AA205L	56J16-B9	56TB2-T 8	SIN AOG 1X TO CDU
	AA196W	56J16-C1	56TB2-H 1	IG CDU 16X ERROR SIG
	AA195W	56J16-C2	56TB2-H 2	IG CDU 1X ERROR SIG
	AA201W	56J16-C3	56TB2-H 8	MG CDU 16X ERROR SIG
	AA200W	56J16-C4	56TB2-H 7	MG CDU 1X ERROR SIG
	AA208R	56J16-C5	56TB2-N 3	OG CDU 16X ERROR SIG
	AA207W	56J16-C6	56TB2-N 2	OG CDU 1X ERROR SIG
	AA204R	56J16-C8	56TB2-N 7	COS AOG 1X S1
	AA204L	56J16-C9	56TB2-R 8	COS AOG 1X TO CDU
	AA194W	56J16-D1	56TB2-H 3	IG CDU 1/2X ERROR SIG
	AA194R	56J16-D2	56TB2-G 3	IG CDU ERROR SIG RET
	AA195R	56J16-D2	56TB2-G 2	IG CDU ERROR SIG RET
	AA196R	56J16-D2	56TB2-G 1	IG CDU ERROR SIG RET
	AA199W	56J16-D3	56TB2-H 6	MG CDU 1/2X ERROR SIG
	AA199R	56J16-D4	56TB2-G 6	MG CDU ERROR SIG RET
	AA200R	56J16-D4	56TB2-G 7	MG CDU ERROR SIG RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA172L	56J15-D9	56TB2-C 7	SIN AMG 16X TO CDU	
	AA162W	56J15-F1	56TB2-B 6	MG CDU ENCODER PHASE 1	
	AA162L	56J15-F2	56TB2-C 6	MG CDU ENCODER COM	
	AA171L	56J15-F7	56TB2-C 8	SIN AIG 16X TO CDU	
	AA172W	56J15-F8	56TB2-A 7	SIN AMG 16X S2	
	AA172R	56J15-F9	56TB2-B 7	SIN AMG 16X S4	
	AA170	56J15-H4	56TB2-C 1	FINE ALIGN RELAY CONTROL	
	AA184	56J15-H4	56J16-L1	FINE ALIGN RELAY CONTROL	
	AA178	56J15-H5	56J20-H4	+28 VDC AGC	
	AA187	56J15-K3	56J16-N4	STRUCTURE GND	
*	AA151	56J15-K3	56J14-H5	STRUCTURE GND	
*	AA471W	56J15-K4	56J21- 95	- DELTA V Z	137B
*	AA472W	56J15-K5	56J21-128	+ DELTA V Z	136B
*	AA470W	56J15-K6	56J21-161	- DELTA V Y	135B
*	AA138	56J15-L1	56J14-H3	PIPA INTERROGATE PULSE	
*	AA148	56J15-L2	56J14-F6	P Z	
*	AA116	56J15-L3	56J13-D3	P Y	
*	AA114	56J15-L4	56J13-D1	P X	
	AA158	56J15-L5	56E 35	COMPUTER RET	
	AA159	56J15-L5	56E 36	COMPUTER RET	
	AA160	56J15-L5	56E 37	COMPUTER RET	
*	AA469W	56J15-L6	56J21-195	+ DELTA V Y	134B
*	AA145	56J15-M1	56J14-H4	GYRO DATA PULSE	
*	AA149	56J15-M2	56J14-G6	N Z	
*	AA117	56J15-M3	56J13-F3	N Y	
*	AA115	56J15-M4	56J13-F1	N X	
*	AA467W	56J15-M5	56J21-126	+ DELTA V X	132B
*	AA468W	56J15-M6	56J21- 93	- DELTA V X	133B
*	AA146	56J15-N1	56J14-K3	PIPA SWITCHING PULSE	
*	AA143	56J15-N2	56J14-C1	+ SET X GYRO CAGE	
*	AA141	56J15-N3	56J14-C3	+ SET Y GYRO CAGE	
*	AA139	56J15-N4	56J14-C5	+ SET Z GYRO CAGE	
*	AA 50R	56J15-N5	56J12-P5	25.6 KC LO IMU	
*	AA 50W	56J15-N6	56J12-N5	25.6 KC HI IMU	
	AA157W	56J15-P1	56J21-102	GYRO RESET PULSE	148B
*	AA147	56J15-P1	56J14-K4	GYRO RESET PULSE	
*	AA144	56J15-P2	56J14-C2	- SET X GYRO CAGE	
*	AA142	56J15-P3	56J14-C4	- SET Y GYRO CAGE	
*	AA140	56J15-P4	56J14-C6	- SET Z GYRO CAGE	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA201R	56J16-D4	56TB2-G 8	MG CDU ERROR SIG RET	
	AA206W	56J16-D5	56TB2-N 1	OG CDU 1/2X ERROR SIG	
	AA206R	56J16-D6	56TB2-R 1	OG CDU ERROR SIG RET	
	AA207R	56J16-D6	56TB2-R 2	OG CDU ERROR SIG RET	
	AA208W	56J16-D6	56TB2-R 3	OG CDU ERROR SIG RET	
	AA209R	56J16-D7	56TB2-W 3	COS AOG 16X S1	
	AA213W	56J16-D8	56TB2-X 3	SIN AOG 16X S2	
	AA213R	56J16-D9	56TB2-W 2	SIN AOG 16X S4	
	AA216	56J16-F2	56TB2-W 1	IG CDU 1X RSVR LOAD	
	AA217	56J16-F4	56TB2-X 1	MG CDU 1X RSVR LOAD	
	AA219	56J16-F5	56TB2-T 1	OG CDU 16X RSVR LOAD	
	AA218	56J16-F6	56TB2-S 1	OG CDU 1X RSVR LOAD	
	AA209W	56J16-F7	56TB2-W 4	COS AOG 16X S3	
	AA209L	56J16-F8	56TB2-X 4	COS AOG 16X TO CDU	
	AA213L	56J16-F9	56TB2-X 2	SIN AOG 16X TO CDU	
	AA230W	56J16-G1	56TB2-W 6	COS AIG 16X S3	
	AA230L	56J16-G2	56TB2-W 7	COS AIG 16X TO CDU	
	AA231W	56J16-G3	56TB2-U 5	COS AMG 16X S3	
	AA231L	56J16-G4	56TB2-U 4	COS AMG 16X TO CDU	
	AA230R	56J16-H1	56TB2-X 7	COS AIG 16X S1	
	AA231R	56J16-H3	56TB2-T 5	COS AMG 16X S1	
	AA220	56J16-L1	56J22-228	FINE ALIGN RELAY CONTROL	
*	AA184	56J16-L1	56J15-H4	FINE ALIGN RELAY CONTROL	
*	AA183	56J16-L2	56J15-S1	ZERO ENCODER RELAY CONTROL	
	AA226W	56J16-L3	56J21- 35	COMPUTER 800 PPS SYNC RET	150B
	AA227W	56J16-L3	56J21- 68	COMPUTER 800 PPS SYNC RET	149A
	AA232W	56J16-L3	56E 31	COMPUTER 800 PPS SYNC RET	
	AA226R	56J16-L4	56J21- 34	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
	AA232L	56J16-L4	56J12-D1	COMPUTER 800 PPS OUT OF PHASE SYNC	
	AA221	56J16-M1	56TB2-R 4	ENTRY RELAY CONTROL	
*	AA 56	56J16-M2	56J12-H5	IG CDU FAILURE INDICATION	
*	AA 57	56J16-M3	56J12-H6	MG CDU FAILURE INDICATION	
	AA227R	56J16-M4	56J21- 69	COMPUTER 800 PPS IN PHASE SYNC	149B
	AA232R	56J16-M4	56J12-D2	COMPUTER 800 PPS IN PHASE SYNC	
	AA215W	56J16-N1	56TB2-K 6	OG CDU MDA OUTPUT	
	AA215R	56J16-N2	56TB2-K 5	OG CDU MDA OUTPUT	
*	AA 58	56J16-N3	56J12-G6	OG CDU FAILURE INDICATION	
	AA234	56J16-N4	56J17-L6	STRUCTURE GND	
*	AA187	56J16-N4	56J15-K3	STRUCTURE GND	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 132W	56E 18	56TB3-L11	TRUNNION CDU 1/2X RSVR P3	
*	A 133	56E 18	56J05- 11	TRUNNION CDU 1/2X RSVR P3	
*	A 149	56E 18	56J05- 25	TRUNNION CDU 1/2X RSVR P3	
	A 556	56E 19	56TB1-S 7	0 VDC IMU	
*	A 194	56E 19	56J08- 31	0 VDC IMU	
*	A 195	56E 19	56J08- 70	0 VDC IMU	
*	A 204	56E 19	56J08- 30	0 VDC IMU	
*	A 205	56E 19	56J08- 28	0 VDC IMU	
*	A 208	56E 19	56J08- 17	0 VDC IMU	
*	A 212	56E 19	56J08- 52	0 VDC IMU	
	A 549	56E 20	56TB2-D 6	0 VDC IMU	
*	A 189	56E 20	56J08- 61	0 VDC IMU	
*	A 191	56E 20	56J08- 84	0 VDC IMU	
*	A 201	56E 20	56J08- 83	0 VDC IMU	
*	A 213	56E 20	56J08- 63	0 VDC IMU	
	A 550	56E 21	56TB2-D 5	0 VDC IMU	
*	A 337	56E 21	56P09- 27	0 VDC IMU	
*	A 339	56E 21	56P09- 37	0 VDC IMU	
*	A 340	56E 21	56P09- 26	0 VDC IMU	
*	A 341	56E 21	56P09- 25	0 VDC IMU	
*	A 347	56E 21	56P09- 36	0 VDC IMU	
*	A 348	56E 21	56P09- 24	0 VDC IMU	
	A 494W	56E 22	56J21-211		214B
	A 495W	56E 22	56J21-176		215B
	A 496W	56E 22	56J21-143		216B
	A 497W	56E 22	56J21-110		217B
	A 498W	56E 22	56J21- 77		218B
	A 499W	56E 22	56J21- 42		219B
	A 500W	56E 22	56J21-213		221B
	A 501W	56E 22	56J21-178		222B
	A 502W	56E 22	56J21-145		223B
	A 505W	56E 22	56J21- 5		220B
*	A 554	56E 22	56E 23		
	A 482W	56E 23	56J21- 81		232B
	A 483W	56E 23	56J21- 7		227B
	A 484W	56E 23	56J21-215		228B
	A 485W	56E 23	56J21-180		229B
	A 486W	56E 23	56J21-147		230B
	A 487W	56E 23	56J21-114		231B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 488W	56E 23	56J21- 46		233B
	A 503W	56E 23	56J21-112		224B
	A 504W	56E 23	56J21- 44		226B
	A 506W	56E 23	56J21- 79		225B
	A 554	56E 23	56E 22		
	A 555	56E 23	56E 24		
	A 470W	56E 24	56J21- 48		244B
	A 471W	56E 24	56J21- 83		242B
	A 489W	56E 24	56J21- 9		234B
	A 490W	56E 24	56J21-217		235B
	A 491W	56E 24	56J21-182		236B
	A 492W	56E 24	56J21-149		237B
	A 493W	56E 24	56J21-116		238B
	A 552	56E 24	56E 26		
*	A 555	56E 24	56E 23		
	A 467W	56E 25	56J21- 85		205B
	A 468R	56E 25	56J21- 13		209B
	A 472W	56E 25	56J21-151		203B
	A 510W	56E 25	56J21- 15		207B
	A 511W	56E 25	56J21-118		204B
	A 514W	56E 25	56J21-184		202B
	A 515W	56E 25	56J21-186		210B
	A 516W	56E 25	56J21-219		201B
	A 517W	56E 25	56J21-221		208B
	A 551	56E 25	56E 26		
*	A 519	56E 26	56J10- 82	COMMONED RETURNS GROUND	330
*	A 551	56E 26	56E 25		
*	A 552	56E 26	56E 24		
	AA 92B	56E 27	SHLD AA 92	0 VDC IMU	
	AA500B	56E 27	SHLD AA500	0 VDC IMU	
*	AA500W	56E 27	56J21-104	0 VDC IMU	155B
*	AA608	56E 27	56TB2-D 4	0 VDC IMU	
	AA503B	56E 28	SHLD AA503	COMPUTER 3200 PPS SYNC RET	
	AA504B	56E 28	SHLD AA504	COMPUTER 3200 PPS SYNC RET	
*	AA 36	56E 28	56J11-M5	COMPUTER 3200 PPS SYNC RET	
*	AA503W	56E 28	56J21-204	COMPUTER 3200 PPS SYNC RET	152B
*	AA504W	56E 28	56J21-242	COMPUTER 3200 PPS SYNC RET	151B
	AA490B	56E 29	SHLD AA490	COMPUTER 25.6 KPPS SYNC RET	
	AA491B	56E 29	SHLD AA491	COMPUTER 25.6 KPPS SYNC RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 53R	56E 9	56J01- 28	400 CPS VAR ILLUM PWR
*	A 77R	56E 9	56J02- 28	400 CPS VAR ILLUM PWR
*	A 98R	56E 9	56J03- 28	400 CPS VAR ILLUM PWR
*	A 123R	56E 9	56J04- 28	400 CPS VAR ILLUM PWR
*	A 146R	56E 9	56J05- 28	400 CPS VAR ILLUM PWR
	A 561W	56E 10	56TB1-S 2	400 CPS 6 V LO
*	A 53W	56E 10	56J01- 29	400 CPS 6 V LO
*	A 77W	56E 10	56J02- 29	400 CPS 6 V LO
*	A 98W	56E 10	56J03- 29	400 CPS 6 V LO
*	A 123W	56E 10	56J04- 29	400 CPS 6 V LO
*	A 146W	56E 10	56J05- 29	400 CPS 6 V LO
	A 567W	56E 11	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 578W	56E 11	56J01- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 579W	56E 11	56J02- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 580W	56E 11	56J03- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 54	56E 12	56J01- 41	STRUCTURE GND
*	A 78	56E 12	56J02- 41	STRUCTURE GND
*	A 99	56E 12	56J03- 41	STRUCTURE GND
*	A 124	56E 12	56J04- 41	STRUCTURE GND
*	A 147	56E 12	56J05- 41	STRUCTURE GND
*	A 548	56E 12	56TB3-B20	STRUCTURE GND
	A 558W	56E 13	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 104W	56E 13	56J04- 14	800 CPS 28 V 1 PCT LO OPTICS
*	A 584R	56E 13	56J04- 25	800 CPS 28 V 1 PCT LO OPTICS
*	A 584W	56E 13	56J04- 11	800 CPS 28 V 1 PCT LO OPTICS
*	A 585R	56E 13	56J05- 4	800 CPS 28 V 1 PCT LO OPTICS
*	A 585W	56E 13	56J05- 18	800 CPS 28 V 1 PCT LO OPTICS
*	A 586W	56E 13	56J05- 14	800 CPS 28 V 1 PCT LO OPTICS
	A 558R	56E 14	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 104R	56E 14	56J04- 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 584L	56E 14	56J04- 12	800 CPS 28 V 1 PCT HI OPTICS
*	A 585L	56E 14	56J05- 17	800 CPS 28 V 1 PCT HI OPTICS
*	A 586R	56E 14	56J05- 1	800 CPS 28 V 1 PCT HI OPTICS
	A 560W	56E 16	56TB1-G 7	25.6 KC LO OPTICS
*	A 117W	56E 16	56J04- 60	25.6 KC LO OPTICS
*	A 583W	56E 16	56J05- 60	25.6 KC LO OPTICS
	A 560R	56E 17	56TB1-H 7	25.6 KC HI OPTICS
*	A 117R	56E 17	56J04- 50	25.6 KC HI OPTICS
*	A 583R	56E 17	56J05- 50	25.6 KC HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA 69	56E 29	56J12-F2	COMPUTER 25.6 KPPS SYNC RET	
*	AA490R	56E 29	56J21-170	COMPUTER 25.6 KPPS SYNC RET	153B
*	AA491W	56E 29	56J21-137	COMPUTER 25.6 KPPS SYNC RET	154B
*	AA226A	56E 30	SHLD AA226	0 VDC IMU	
*	AA227A	56E 30	SHLD AA227	0 VDC IMU	
*	AA232A	56E 30	SHLD AA232	0 VDC IMU	
	AA232B	56E 31	SHLD AA232	0 VDC IMU	
*	AA 67	56E 31	56J12-F1	COMPUTER 800 PPS SYNC RET	
*	AA 91	56E 31	56J12-R4	0 VDC IMU	
*	AA232W	56E 31	56J16-L3	COMPUTER 800 PPS SYNC RET	
	AA129W	56E 33	56J21- 66	0 VDC IMU	142A
	AA130R	56E 33	56J21- 32	0 VDC IMU	143A
	AA131W	56E 33	56J21-239	0 VDC IMU	144A
	AA132W	56E 33	56J21-201	0 VDC IMU	145A
	AA134R	56E 33	56J21-167	0 VDC IMU	146A
	AA135W	56E 33	56J21-134	0 VDC IMU	147A
*	AA137	56E 33	56J14-R6	0 VDC IMU	
*	AA 77	56E 34	56J12-B5	0 VDC IMU	
*	AA125	56E 34	56J13-R6	0 VDC IMU	
*	AA501R	56E 34	56J21-133	0 VDC IMU	139B
*	AA502R	56E 34	56J21-100	0 VDC IMU	140B
*	AA158	56E 35	56J15-L5	COMPUTER RET	
*	AA467R	56E 35	56J21-125	COMPUTER RET	132A
*	AA468R	56E 35	56J21- 92	COMPUTER RET	133A
*	AA159	56E 36	56J15-L5	COMPUTER RET	
*	AA469R	56E 36	56J21-194	COMPUTER RET	134A
*	AA470R	56E 36	56J21-160	COMPUTER RET	135A
*	AA160	56E 37	56J15-L5	COMPUTER RET	
*	AA471R	56E 37	56J21- 94	COMPUTER RET	137A
*	AA472R	56E 37	56J21-127	COMPUTER RET	136A
*	AA164	56E 38	56J15-A5	IG DAC MDA SIG LO	
*	AA475R	56E 38	56J21- 25	IG DAC MDA SIG LO	120B
*	AA476W	56E 38	56J21- 27	IG DAC MDA SIG LO	121B
	AA481B	56E 39	SHLD AA481	IG DAC MDA SIG LO	
	AA482B	56E 39	SHLD AA482	IG DAC MDA SIG LO	
*	AA167	56E 39	56J15-A5	IG DAC MDA SIG LO	
*	AA481R	56E 39	56J21-238	IG DAC MDA SIG LO	128B
*	AA482W	56E 39	56J21-200	IG DAC MDA SIG LO	129B
*	AA165	56E 40	56J15-A7	MG DAC MDA SIG LO	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 11W	56J17-A1	56J11-C3	OG CDU ATTITUDE STEERING ERROR
*	AA571W	56J17-A2	56TB2-N 3	OG CDU 16X ERROR SIG
	AA287W	56J17-A3	56J22- 1	ROLL ERROR BODY OFFSET AXIS HI
	AA244W	56J17-A4	56J22- 3	ROLL ERROR BODY AXIS HI
	AA281W	56J17-A6	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1
	AA281R	56J17-A7	56TB3-T 3	TRUNNION CDU ENCODER COM
	AA281L	56J17-A8	56TB3-T 2	TRUNNION CDU ENCODER PHASE 2
	AA285	56J17-A9	56TB3-M 3	TRUNNION ENCODER PIN 8
*	AA 11R	56J17-B1	56J11-B3	OG CDU ERROR SIG RET
*	AA571R	56J17-B2	56TB2-R 3	OG CDU ERROR SIG RET
	AA287R	56J17-B3	56J22- 39	ROLL ERROR BODY OFFSET AXIS LO
	AA244R	56J17-B4	56J22- 4	ROLL ERROR BODY AXIS LO
	AA268	56J17-B5	56TB3-L 3	IRIG TEMP CONT SENSOR RET
	AA267	56J17-B6	56TB3-L 4	IRIG TEMP CONT SENSOR HI
	AA252	56J17-B7	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
	AA253	56J17-B8	56TB3-G 3	IRIG ZERO DEVIATION CHECK
	AA286	56J17-B9	56TB3-K 4	TRUNNION ENCODER PIN 9
	AA288R	56J17-C1	56J22- 10	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289W	56J17-C1	56TB3-R 1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289R	56J17-C2	56TB3-R 2	PITCH-YAW RSVR S4
	AA246W	56J17-C3	56J22- 45	YAW ERROR BODY OFFSET AXIS HI
	AA245W	56J17-C4	56J22- 6	YAW ERROR BODY AXIS HI
	AA266	56J17-C5	56TB3-K 3	IRIG TEMP IND SENSOR RET
	AA276	56J17-C6	56TB3-H 4	IRIG TEMP IND SENSOR HI
	AA254	56J17-C7	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6
	AA290	56J17-C8	56TB3-L 1	IRIG TEMP GAIN SWITCH NC
	AA284W	56J17-C9	56TB3-T 5	SHAFT CDU ENCODER PHASE 1
	AA288W	56J17-D1	56J22- 48	PITCH ERROR BODY AND BODY OFFSET AXIS HI
	AA247R	56J17-D2	56TB3-R 4	PITCH YAW RSVR S3
	AA246R	56J17-D3	56J22- 46	YAW ERROR BODY OFFSET AXIS LO
	AA247W	56J17-D3	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
	AA245R	56J17-D4	56J22- 43	YAW ERROR BODY AXIS LO
	AA269	56J17-D5	56TB3-M 1	ACCEL TEMP IND SENSOR RET
	AA255	56J17-D6	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
	AA256	56J17-D7	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
	AA251	56J17-D8	56TB3-M 2	IMU TD RELAY C
	AA284R	56J17-D9	56TB3-S 5	SHAFT CDU ENCODER COM
	AA274	56J17-F3	56TB3-D 5	HTR CURRENT (TELEMETRY)
	AA273	56J17-F4	56TB3-C 5	IRIG TEMP (TELEMETRY)

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA272	56J17-F5	56TB3-D 4	ACCEL TEMP (TELEMETRY)
	AA271	56J17-F6	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
	AA257	56J17-F7	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
	AA249	56J17-F8	56TB3-L 2	IMU TD RELAY NO
	AA284L	56J17-F9	56TB3-S 4	SHAFT CDU ENCODER PHASE 2
	AA261	56J17-G1	56TB3-K 5	IMU TEMP ALARM AMP PIN 14
	AA262	56J17-G2	56TB3-H 5	IMU TEMP ALARM AMP PIN 15
	AA242R	56J17-G4	56J18-L1	SHAFT CDU ENCODER + DELTA THETA
	AA243R	56J17-G6	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA
	AA259	56J17-H1	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
	AA260	56J17-H2	56TB3-K 1	IMU TEMP ALARM AMP PIN 5
	AA242W	56J17-H4	56E 53	SHAFT CDU DAC LO
	AA243W	56J17-H6	56E 51	TRUNNION CDU DAC LO
	AA242L	56J17-K4	56J18-K1	SHAFT CDU ENCODER - DELTA THETA
	AA243L	56J17-K6	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA
	AA263	56J17-L1	56TB3-L 5	IMU TEMP CONT K2 PIN 6
	AA293	56J17-L3	56J22-243	IMU TEMP LIGHT (MAIN PANEL)
*	AA188R	56J17-L4	56J15-R5	+120 VDC RET PIP
*	AA188W	56J17-L5	56J15-S5	+120 VDC PIP
	AA241	56J17-L6	56J18-R5	STRUCTURE GND
*	AA234	56J17-L6	56J16-N4	STRUCTURE GND
	AA264	56J17-M1	56TB3-D 1	0 VDC IMU
	AA277	56J17-M2	56TB3-G 5	IMU TEMP SENSOR COM
	AA278	56J17-M3	56TB3-F 1	0 VDC SPACECRAFT
	AA292	56J17-M3	56J22-206	0 VDC SPACECRAFT
*	AA 97	56J17-M3	56J12-F3	0 VDC SPACECRAFT
	AA265W	56J17-M4	56TB3-N 1	IMU EMERGENCY HTR HI
	AA258W	56J17-M5	56TB3-H 2	IMU TEMP CONT K1 PIN 3
	AA258R	56J17-M6	56TB3-H 1	IMU TEMP CONT AMP PIN 5
	AA270W	56J17-N1	56TB3-N 4	IMU CONTROL HTR LO
*	AA 12W	56J17-N2	56J11-P1	3200 CPS 20 V HI
*	AA 94R	56J17-N3	56J12-N6	25.6 KC LO OPTICS
	AA265R	56J17-N4	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY
	AA258L	56J17-N5	56TB3-G 2	IMU TEMP CONT K2 PIN 5
	AA258K	56J17-N6	56TB3-G 1	IMU HTR CURRENT AMP PIN 5
	AA270R	56J17-P1	56TB3-N 5	IMU CONTROL HTR HI
*	AA 12R	56J17-P2	56J11-N1	3200 CPS 20 V CT
*	AA 94W	56J17-P3	56J12-P6	25.6 KC HI OPTICS
	AA250R	56J17-P4	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA191R	56J16-N5	56J20-L3	800 CPS 28 V 1 PCT LO OPTICS
	AA224R	56J16-N5	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
	AA233R	56J16-N5	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA192R	56J16-N6	56J20-M4	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA225R	56J16-N6	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA198R	56J16-P1	56TB2-L 6	IG CDU MDA OUTPUT
	AA223	56J16-P2	56TB2-K 4	0 VDC IMU
	AA203R	56J16-P3	56TB2-K 3	MG CDU MDA OUTPUT
	AA222W	56J16-P4	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
	AA191W	56J16-P5	56J20-K3	800 CPS 28 V 1 PCT HI OPTICS
	AA224W	56J16-P5	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
	AA233W	56J16-P5	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA192W	56J16-P6	56J20-L4	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA225W	56J16-P6	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA198W	56J16-R1	56TB2-L 5	IG CDU MDA OUTPUT
*	AA 59	56J16-R2	56J12-G5	0 VDC IMU
	AA203W	56J16-R3	56TB2-L 3	MG CDU MDA OUTPUT
	AA222K	56J16-R4	56TB2-H 5	ZEROING RSVR 800 CPS
	AA228	56J16-R5	56TB3-L20	0 VDC OPTICS
	AA229	56J16-R6	56TB3-L20	0 VDC OPTICS
	AA210	56J16-S1	56TB2-N 5	+28 VDC IMU FOR IG MDA
	AA193	56J16-S2	56J20-K2	+28 VDC IMU
*	AA186	56J16-S2	56J15-S6	+28 VDC IMU
	AA222L	56J16-S3	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	AA185R	56J16-S3	56J15-P5	800 CPS 28 V 1 PCT LO IMU
	AA222R	56J16-S4	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	AA185W	56J16-S4	56J15-P6	800 CPS 28 V 1 PCT HI IMU
	AA189	56J16-S5	56J20-N5	+28 VDC OPTICS
	AA190	56J16-S6	56J20-N6	+28 VDC OPTICS
	AA211	56J16-T1	56TB2-R 5	+28 VDC IMU FOR MG MDA
	AA212	56J16-T2	56TB2-K 8	+28 VDC IMU FOR OG MDA

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA275	56J17-P5	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI	
	AA235	56J17-P6	56TB3-F 3	CONDITION LAMP TEST	
*	AA 13	56J17-R1	56J11-S3	+28 VDC STBY	
*	AA 12L	56J17-R2	56J11-N2	3200 CPS 20 V LO	
*	AA 92W	56J17-R3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
*	AA500R	56J17-R3	56J21-103	COMPUTER 12.8 KPPS SYNC	155A
	AA250W	56J17-R4	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA280	56J17-R5	56TB3-M21	+28 VDC MDV	
	AA282	56J17-R6	56TB3-L21	0 VDC OPTICS	
	AA283	56J17-R6	56J17-S6	0 VDC OPTICS	
	AA291	56J17-S1	56J17-S2	0 VDC IMU	
	AA296	56J17-S1	56TB3-N 3	0 VDC IMU	
	AA248	56J17-S2	56TB3-S 2	0 VDC IMU	
*	AA291	56J17-S2	56J17-S1	0 VDC IMU	
	AA295	56J17-S3	56TB3-N 3	0 VDC IMU	
	AA297	56J17-S4	56TB3-R 3	0 VDC IMU	
*	AA154R	56J17-S5	56J14-R4	+32 VDC RET PIP	
*	AA283	56J17-S6	56J17-R6	0 VDC OPTICS	
	AA238	56J17-T1	56J20-P3	+28 VDC STBY	
	AA294	56J17-T1	56J17-T2	+28 VDC STBY	
	AA239	56J17-T2	56J20-P4	+28 VDC STBY	
*	AA294	56J17-T2	56J17-T1	+28 VDC STBY	
	AA237	56J17-T3	56J20-M2	+28 VDC IMU	
	AA236	56J17-T4	56J20-M1	+28 VDC IMU	
*	AA154W	56J17-T5	56J14-S4	+32 VDC PIP	
	AA240	56J17-T6	56J18-S1	+28 VDC OPTICS	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA568	56E 46	56E 45	AGC SIG 180 SHLD RET	
*	AA474	56E 47	56J21- 22	AGC SIG 179 SHLD RET	179
*	AA475A	56E 47	SHLD AA475	AGC SIG 179 SHLD RET	
*	AA476A	56E 47	SHLD AA476	AGC SIG 179 SHLD RET	
*	AA477A	56E 47	SHLD AA477	AGC SIG 179 SHLD RET	
*	AA478A	56E 47	SHLD AA478	AGC SIG 179 SHLD RET	
*	AA479A	56E 47	SHLD AA479	AGC SIG 179 SHLD RET	
*	AA480A	56E 47	SHLD AA480	AGC SIG 179 SHLD RET	
	A 64B	56E 48	SHLD A 64	0 VDC IMU	
	A 221B	56E 48	SHLD A221	0 VDC IMU	
	A 358B	56E 48	SHLD A358	0 VDC IMU	
*	A 458	56E 48	56TB2-D 5	0 VDC IMU	
	AA496B	56E 50	SHLD AA496	TRUNNION CDU DAC LO	
	AA497B	56E 50	SHLD AA497	TRUNNION CDU DAC LO	
*	AA348	56E 50	56J18-H3	TRUNNION CDU DAC LO	
*	AA496R	56E 50	56J21-236	TRUNNION CDU DAC LO	114B
*	AA497W	56E 50	56J21-198	TRUNNION CDU DAC LO	115B
*	AA243W	56E 51	56J17-H6	TRUNNION CDU DAC LO	
*	AA349	56E 51	56J18-H3	TRUNNION CDU DAC LO	
*	AA498R	56E 51	56J21-231	TRUNNION CDU DAC LO	108B
*	AA499R	56E 51	56J21-191	TRUNNION CDU DAC LO	109B
	AA492B	56E 52	SHLD AA492	SHAFT CDU DAC LO	
	AA493B	56E 52	SHLD AA493	SHAFT CDU DAC LO	
*	AA346	56E 52	56J18-H2	SHAFT CDU DAC LO	
*	AA492R	56E 52	56J21-164	SHAFT CDU DAC LO	116B
*	AA493W	56E 52	56J21-131	SHAFT CDU DAC LO	117B
*	AA242W	56E 53	56J17-H4	SHAFT CDU DAC LO	
*	AA347	56E 53	56J18-H2	SHAFT CDU DAC LO	
*	AA494R	56E 53	56J21-157	SHAFT CDU DAC LO	110B
*	AA495R	56E 53	56J21-124	SHAFT CDU DAC LO	111B
	A 155R	56E 55	56TB2-F 3		
	A 156R	56E 55	56J21-229		164B
*	A 406	56E 56	56J09- 60	AGC COMMON	
*	A 415	56E 56	56J09- 42	AGC COMMON	
*	A 420	56E 56	56J09- 36	AGC COMMON	
*	A 440W	56E 56	56J21-119	AGC COMMON	101A
	AA561	56E 57	56TB2-D 3	AGC SIG 178 SHLD RET	
*	A 566	56E 57	56E 44	AGC SIG 178 SHLD RET	
*	AA487A	56E 57	SHLD AA487	AGC SIG 178 SHLD RET	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA488A	56E 57	SHLD AA488	AGC SIG 178 SHLD RET	
*	AA489A	56E 57	SHLD AA489	AGC SIG 178 SHLD RET	
*	AA562	56E 57	56J21- 53	AGC SIG 178 SHLD RET	178
	A 407R	56E 58	56J21- 17		105B
	A 433R	56E 58	56J21- 87		102B
	A 434R	56E 58	56J21- 89		103B
	A 437R	56E 58	56J21- 55		104B
	A 449W	56E 58	56J21- 19		106B
*	A 440R	56E 58	56J21-120		101B
	AA176R	56E 59	56TB2-F 3		
*	AA488R	56E 59	56J21-189		160B
*	AA489R	56E 60	56J21-153		158B
*	AA569R	56E 60	56TB2-F 3		
	A 13R	56E 61	56TB2-F 3		
	A 14R	56E 61	56J21-155		159B
	A 15R	56E 61	56J21-223		161B
	A 16R	56E 61	56J21-227		163B
	A 27R	56E 61	56J21-225		162B
*	A 570	56E 62	56J10- 1	GROUP 2 SHIELD	245
*	A 571	56E 63	56J21-107	GROUP 2 SHIELD	245
*	A 568	56E 64	56J21-187	GROUP 3 SHIELD	250
*	A 569	56E 65	56J10- 27	GROUP 3 SHIELD	250
*	AA617	56E 66	56J11-L4	STRUCTURE GND	
*	AA618	56E 67	56J11-L4	STRUCTURE GND	
*	AA619	56E 68	56TB3-B20	STRUCTURE GND	
*	AA620	56E 69	56TB3-B20	STRUCTURE GND	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA477R	56E 40	56J21-233	MG DAC MDA SIG LO	122B
*	AA478W	56E 40	56J21-193	MG DAC MDA SIG LO	123B
	AA483B	56E 41	SHLD AA483	MG DAC MDA SIG LO	
	AA484B	56E 41	SHLD AA484	MG DAC MDA SIG LO	
*	AA168	56E 41	56J15-A7	MG DAC MDA SIG LO	
*	AA483R	56E 41	56J21-166	MG DAC MDA SIG LO	130B
*	AA484W	56E 41	56J21- 98	MG DAC MDA SIG LO	131B
*	AA166	56E 42	56J15-A9	OG DAC MDA SIG LO	
*	AA479R	56E 42	56J21- 57	OG DAC MDA SIG LO	118B
*	AA480W	56E 42	56J21- 59	OG DAC MDA SIG LO	119B
	AA485B	56E 43	SHLD AA485	OG DAC MDA SIG LO	
	AA486B	56E 43	SHLD AA486	OG DAC MDA SIG LO	
*	AA169	56E 43	56J15-A9	OG DAC MDA SIG LO	
*	AA485R	56E 43	56J21- 65	OG DAC MDA SIG LO	126B
*	AA486W	56E 43	56J21- 31	OG DAC MDA SIG LO	127B
	A 14B	56E 44	SHLD A 14	AGC SIG 178 SHLD RET	
	A 15B	56E 44	SHLD A 15	AGC SIG 178 SHLD RET	
	A 16B	56E 44	SHLD A 16	AGC SIG 178 SHLD RET	
	A 27B	56E 44	SHLD A 27	AGC SIG 178 SHLD RET	
	A 156B	56E 44	SHLD A156	AGC SIG 178 SHLD RET	
	A 407B	56E 44	SHLD A407	AGC SIG 178 SHLD RET	
	A 433B	56E 44	SHLD A433	AGC SIG 178 SHLD RET	
	A 434B	56E 44	SHLD A434	AGC SIG 178 SHLD RET	
	A 437B	56E 44	SHLD A437	AGC SIG 178 SHLD RET	
	A 449B	56E 44	SHLD A449	AGC SIG 178 SHLD RET	
	A 566	56E 44	56E 57	AGC SIG 178 SHLD RET	
*	A 440A	56E 44	SHLD A440	AGC SIG 178 SHLD RET	
	AA568	56E 45	56E 46	AGC SIG 180 SHLD RET	
*	AA473	56E 45	56J21- 23	AGC SIG 180 SHLD RET	180
*	AA494A	56E 45	SHLD AA494	AGC SIG 180 SHLD RET	
*	AA495A	56E 45	SHLD AA495	AGC SIG 180 SHLD RET	
*	AA498A	56E 45	SHLD AA498	AGC SIG 180 SHLD RET	
*	AA499A	56E 45	SHLD AA499	AGC SIG 180 SHLD RET	
*	AA467A	56E 46	SHLD AA467	AGC SIG 180 SHLD RET	
*	AA468A	56E 46	SHLD AA468	AGC SIG 180 SHLD RET	
*	AA469A	56E 46	SHLD AA469	AGC SIG 180 SHLD RET	
*	AA470A	56E 46	SHLD AA470	AGC SIG 180 SHLD RET	
*	AA471A	56E 46	SHLD AA471	AGC SIG 180 SHLD RET	
*	AA472A	56E 46	SHLD AA472	AGC SIG 180 SHLD RET	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 572R	56J01- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 578W	56J01- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 578R	56J01- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 40W	56J01- 6	56TB3-F13	COS AIG 1X RET P1
A 41W	56J01- 7	56TB3-D14	SIN AIG 1X P2
A 573L	56J01- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 573W	56J01- 12	56E 5	ZEROING RSVR 800 CPS
A 572W	56J01- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 50	56J01- 15	56E 8	+28 VDC CDU NOT LOCK
A 48	56J01- 16	56E 6	+28 VDC IMU
A 40R	56J01- 20	56TB3-F14	COS AIG 1X P3
A 41R	56J01- 21	56TB3-D13	SIN AIG 1X RET P4
A 573R	56J01- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 53R	56J01- 28	56E 9	400 CPS VAR ILLUM PWR
A 53W	56J01- 29	56E 10	400 CPS 6 V LO
A 56	56J01- 30	56TB2-N 5	+28 VDC IMU FOR IG MDA
A 52L	56J01- 31	56TB2-L 5	IG CDU MDA OUTPUT
A 52W	56J01- 32	56TB2-L 6	IG CDU MDA OUTPUT
A 55	56J01- 34	56TB2-W 1	IG CDU 1X RSVR LOAD S1
A 39R	56J01- 35	56TB2-H 2	IG CDU 1X ERROR SIG S2
A 54	56J01- 41	56E 12	STRUCTURE GND
A 52R	56J01- 43	56TB2-K 4	0 VDC IMU
A 39W	56J01- 45	56TB2-G 2	IG CDU ERROR SIG RET
A 46R	56J01- 50	56E 4	25.6 KC HI IMU
A 38W	56J01- 57	56TB2-G 3	IG CDU ERROR SIG RET S1
A 46W	56J01- 60	56E 3	25.6 KC LO IMU
A 38R	56J01- 67	56TB2-H 3	IG CDU 1/2X ERROR SIG S3
A 43W	56J01- 86	56TB2-W 7	COS AIG 16X TO CDU
A 44W	56J01- 87	56TB2-C 8	SIN AIG 16X TO CDU
A 42W	56J01- 90	56TB2-G 1	IG CDU ERROR SIG RET
A 51W	56J01- 92	56TB2-T 7	IG CDU MDA INPUT RET
A 45R	56J01- 94	56TB2-A 5	IG CDU ENCODER COM
A 43R	56J01-100	56TB2-W 6	COS AIG 16X S3
A 44R	56J01-101	56TB2-B 8	SIN AIG 16X S4
A 42R	56J01-104	56TB2-H 1	IG CDU 16X ERROR SIG
A 51L	56J01-105	56TB2-T 6	IG CDU MDA SLEW SIG
A 51R	56J01-106	56TB2-U 6	IG CDU MDA TACH SIG
A 45W	56J01-107	56TB2-B 5	IG CDU ENCODER PHASE 1
A 45L	56J01-108	56TB2-C 5	IG CDU ENCODER PHASE 2

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA336W	56J18-F6	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
	AA336R	56J18-F7	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
	AA326R	56J18-F8	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
	AA326L	56J18-F9	56TB3-M11	RSVR DRIVE AMP INPUT LO	
	AA332W	56J18-G1	56TB3-K10	SHAFT CDU 1/2X SIN HI S1	
	AA345W	56J18-G2	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
	AA344W	56J18-G3	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
	AA302K	56J18-G5	56J19-H6	COSECANT AMP FEEDBACK SIG HI	
	AA302W	56J18-G6	56J19-G6	COSECANT AMP OUTPUT HI	
	AA332R	56J18-H1	56TB3-K11	SHAFT CDU 1/2X SIN LO S3	
	AA345R	56J18-H2	56TB3-F 8	SHAFT CDU DAC LO	
	AA346	56J18-H2	56E 52	SHAFT CDU DAC LO	
	AA347	56J18-H2	56E 53	SHAFT CDU DAC LO	
	AA344R	56J18-H3	56TB3-F 7	TRUNNION CDU DAC LO	
	AA348	56J18-H3	56E 50	TRUNNION CDU DAC LO	
	AA349	56J18-H3	56E 51	TRUNNION CDU DAC LO	
	AA302L	56J18-H5	56J19-H5	SHAFT CDU MDA COSECANT SIG	
	AA302R	56J18-H6	56J19-G5	COSECANT AMP FEEDRACK SIG LO	
*	AA242L	56J18-K1	56J17-K4	SHAFT CDU ENCODER - DELTA THETA	
*	AA495W	56J18-K1	56J21-123	SHAFT CDU ENCODER - DELTA THETA	111A
*	AA492W	56J18-K2	56J21-163	SHAFT CDU + DELTA THETA COMMAND	116A
*	AA496W	56J18-K3	56J21-235	TRUNNION CDU + DELTA THETA COMMAND	114A
*	AA243L	56J18-K4	56J17-K6	TRUNNION CDU ENCODER - DELTA THETA	
*	AA499W	56J18-K4	56J21-190	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA328W	56J18-K6	56TB3-T12	SHAFT CDU 1X P1 (S1)	
*	AA242R	56J18-L1	56J17-G4	SHAFT CDU ENCODER + DELTA THETA	
*	AA494W	56J18-L1	56J21-156	SHAFT CDU ENCODER + DELTA THETA	110A
*	AA493R	56J18-L2	56J21-130	SHAFT CDU - DELTA THETA COMMAND	117A
*	AA497R	56J18-L3	56J21-197	TRUNNION CDU - DELTA THETA COMMAND	115A
*	AA243R	56J18-L4	56J17-G6	TRUNNION CDU ENCODER + DELTA THETA	
*	AA498W	56J18-L4	56J21-230	TRUNNION CDU ENCODER + DELTA THETA	108A
	AA328R	56J18-L5	56TB3-S12	SHAFT CDU 1X P2 (S2)	
	AA328L	56J18-L6	56TB3-R12	SHAFT CDU 1X P3 (S3)	
	AA340W	56J18-M1	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)	
	AA350	56J18-M1	56J18-P3	0 VDC OPTICS	
	AA351	56J18-M1	56J18-M2	0 VDC OPTICS	
	AA352	56J18-M2	56J18-M3	0 VDC OPTICS	
*	AA351	56J18-M2	56J18-M1	0 VDC OPTICS	
	AA341W	56J18-M3	56TB3-C 8	TRUNNION CDU MDA LO (TEST)	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA353	56J18-M3	56J18-M4	0 VDC OPTICS
*	AA352	56J18-M3	56J18-M2	0 VDC OPTICS
	AA342W	56J18-M4	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
	AA354	56J18-M4	56J18-M5	0 VDC OPTICS
*	AA353	56J18-M4	56J18-M3	0 VDC OPTICS
	AA355	56J18-M5	56J18-M6	0 VDC OPTICS
*	AA354	56J18-M5	56J18-M4	0 VDC OPTICS
	AA343W	56J18-M6	56TB3-D10	SHAFT CDU MDA (TEST) LO
*	AA355	56J18-M6	56J18-M5	0 VDC OPTICS
	AA340R	56J18-N1	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
	AA341R	56J18-N3	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
	AA342R	56J18-N4	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
	AA343R	56J18-N6	56TB3-D 9	SHAFT CDU MDA (TEST) HI
	AA319	56J18-P1	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
	AA322	56J18-P2	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
	AA303	56J18-P3	56J19-R4	0 VDC OPTICS
*	AA350	56J18-P3	56J18-M1	0 VDC OPTICS
	AA320	56J18-R1	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
	AA321	56J18-R2	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
	AA333	56J18-R3	56TB3-K20	0 VDC OPTICS
	AA337	56J18-R4	56TB3-B11	ZERO OPTICS RELAY CONTROL
	AA616	56J18-R4	56J19-M4	ZERO OPTICS RELAY CONTROL
	AA306	56J18-R5	56J19-P3	STRUCTURE GND
*	AA241	56J18-R5	56J17-L6	STRUCTURE GND
	AA298	56J18-S1	56J19-T1	+28 VDC OPTICS
*	AA240	56J18-S1	56J17-T6	+28 VDC OPTICS
	AA323	56J18-S3	56J18-S4	0 VDC OPTICS
	AA325	56J18-S3	56TB3-K20	0 VDC OPTICS
*	AA323	56J18-S4	56J18-S3	0 VDC OPTICS
	AA305	56J18-S5	56J19-P5	0 VDC OPTICS
	AA339	56J18-S5	56J18-T5	0 VDC OPTICS
	AA304R	56J18-S6	56J19-N6	800 CPS 28 V 1 PCT LO OPTICS
*	AA233R	56J18-S6	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
	AA324	56J18-T3	56J18-T4	0 VDC OPTICS
	AA327	56J18-T3	56TB3-K20	0 VDC OPTICS
*	AA324	56J18-T4	56J18-T3	0 VDC OPTICS
*	AA339	56J18-T5	56J18-S5	0 VDC OPTICS
	AA304W	56J18-T6	56J19-P6	800 CPS 28 V 1 PCT HI OPTICS
*	AA233W	56J18-T6	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
AA308W	56J18-A1	56TB3-S 8	SXT AT 64X RSVR COS HI
AA309W	56J18-A2	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
AA309R	56J18-A3	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
AA313W	56J18-A4	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
AA313R	56J18-A5	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
AA317W	56J18-A6	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
AA316R	56J18-A7	56TB3-L 8	SHAFT CDU TACH LO
AA316W	56J18-A8	56TB3-L 7	SHAFT CDU TACH HI
AA315W	56J18-A9	56TB3-M 8	TRUNION CDU TACH HI
AA308R	56J18-B1	56TB3-S 7	SXT AT 64X RSVR COS LO
AA307R	56J18-B2	56TB3-T 7	SXT AT 64X RSVR SIN HI
AA310W	56J18-B3	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
AA310R	56J18-B4	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
AA314W	56J18-B5	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
AA317R	56J18-B6	56TB3-L11	TRUNNION CDU 1/2X RSVR P3
AA300W	56J18-B8	56J19-C1	TRUNNION CDU 16X ERROR SIG HI
AA315R	56J18-B9	56TB3-M 7	TRUNION CDU TACH LO
AA312R	56J18-C1	56TB3-R11	SXT AS 16X RSVR COS HI
AA307W	56J18-C2	56TB3-T 8	SXT AT 64X RSVR SIN LO
AA314R	56J18-C5	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
AA334W	56J18-C6	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
AA335W	56J18-C7	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI
AA300R	56J18-C8	56J19-B2	TRUNNION CDU 16X ERROR SIG LO
AA301W	56J18-C9	56J19-A4	SHAFT CDU 16X ERROR SIG HI
AA312W	56J18-D1	56TB3-R10	SXT AS 16X RSVR COS LO
AA311W	56J18-D2	56TB3-R 8	SXT AS 16X RSVR SIN HI
AA311R	56J18-D3	56TB3-R 7	SXT AS 16X RSVR SIN LO
AA338R	56J18-D4	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
AA338W	56J18-D5	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
AA334R	56J18-D6	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
AA335R	56J18-D7	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
AA326W	56J18-D8	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
AA301R	56J18-D9	56J19-B3	SHAFT CDU 16X ERROR SIG LO
AA299W	56J18-F1	56J19-D4	TRUNNION CDU 1/4X SIN HI
AA330W	56J18-F1	56TB3-G10	TRUNNION CDU 1/4X SIN HI
AA299R	56J18-F2	56J19-F4	TRUNNION CDU 1/4X SIN LO
AA330R	56J18-F2	56TB3-F10	TRUNNION CDU 1/4X SIN LO
AA318W	56J18-F3	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI
AA318R	56J18-F4	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA370W	56J19-A1	56TB3-T16	SXT TRUNNION TACH HI
	AA371R	56J19-A2	56TB3-S16	SXT SHAFT TACH LO
	AA371W	56J19-A3	56TB3-S17	SXT SHAFT TACH HI
*	AA301W	56J19-A4	56J18-C9	SHAFT CDU 16X ERROR SIG HI
	AA375W	56J19-A5	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
	AA378	56J19-A7	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
	AA372R	56J19-A8	56TB3-R16	SCT TRUNNION TACH LO
	AA372W	56J19-A9	56TB3-R17	SCT TRUNNION TACH HI
	AA370R	56J19-B1	56TB3-T17	SXT TRUNNION TACH LO
	AA329R	56J19-B2	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
*	AA300R	56J19-B2	56J18-C8	TRUNNION CDU 16X ERROR SIG LO
	AA331R	56J19-B3	56TB3-H11	SHAFT CDU 16X ERROR SIG LO
*	AA301R	56J19-B3	56J18-D9	SHAFT CDU 16X ERROR SIG LO
	AA331W	56J19-B4	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
	AA375R	56J19-B5	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
	AA377W	56J19-B7	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
	AA377R	56J19-B8	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
	AA373W	56J19-B9	56TB3-N16	SCT SHAFT TACH HI
*	AA300W	56J19-C1	56J18-B8	TRUNNION CDU 16X ERROR SIG HI
	AA329W	56J19-C2	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
	AA384	56J19-C3	56TB3-N18	TRUNNION CDU 16X LOAD
	AA385	56J19-C4	56TB3-M18	SHAFT CDU 16X LOAD
	AA376	56J19-C5	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
	AA380	56J19-C7	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
	AA379R	56J19-C8	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
	AA373R	56J19-C9	56TB3-N17	SCT SHAFT TACH LO
	AA374W	56J19-D1	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
	AA374R	56J19-D2	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
*	AA299W	56J19-D4	56J18-F1	TRUNNION CDU 1/4X SIN HI
	AA396W	56J19-D5	56TB3-N14	SHAFT CDU 1/2X COS HI S2
	AA396R	56J19-D6	56TB3-N13	SHAFT CDU 1/2X COS LO S4
	AA379W	56J19-D8	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
*	AA299R	56J19-F4	56J18-F2	TRUNNION CDU 1/4X SIN LO
	AA381W	56J19-F5	56TB3-F16	TRUNNION CDU 1/4X COS HI
	AA381R	56J19-F6	56TB3-G16	TRUNNION CDU 1/4X COS LO
	AA386R	56J19-F8	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	AA386W	56J19-F9	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
	AA382R	56J19-G1	56TB3-T13	SCT TRUNNION 1X COS LO
	AA383R	56J19-G2	56TB3-S14	SCT TRUNNION 1X SIN HI

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 84R	56J03- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 580W	56J03- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 580R	56J03- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 87W	56J03- 6	56TB2-N 7	COS AOG 1X S1
A 88W	56J03- 7	56TB2-U 8	SIN AOG 1X S4
A 576L	56J03- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 576W	56J03- 12	56E 5	ZEROING RSVR 800 CPS
A 84W	56J03- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 582	56J03- 15	56E 8	+28 VDC CDU NOT LOCK
A 581	56J03- 16	56E 6	+28 VDC IMU
A 87R	56J03- 20	56TB2-R 8	COS AOG 1X TO CDU
A 88R	56J03- 21	56TB2-T 8	SIN AOG 1X TO CDU
A 576R	56J03- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 98R	56J03- 28	56E 9	400 CPS VAR ILLUM PWR
A 98W	56J03- 29	56E 10	400 CPS 6 V LO
A 102	56J03- 30	56TB2-K 8	+28 VDC IMU FOR OG MDA
A 97L	56J03- 31	56TB2-K 6	OG CDU MDA OUTPUT
A 97W	56J03- 32	56TB2-K 5	OG CDU MDA OUTPUT
A 100	56J03- 34	56TB2-S 1	OG CDU 1X RSVR LOAD
A 86R	56J03- 35	56TB2-N 2	OG CDU 1X ERROR SIG
A 99	56J03- 41	56E 12	STRUCTURE GND
A 97R	56J03- 43	56TB2-K 4	0 VDC IMU
A 86W	56J03- 45	56TB2-R 2	OG CDU ERROR SIG RET
A 93R	56J03- 50	56E 4	25.6 KC HI IMU
A 85W	56J03- 57	56TB2-R 1	OG CDU ERROR SIG RET
A 93W	56J03- 60	56E 3	25.6 KC LO IMU
A 85R	56J03- 67	56TB2-N 1	OG CDU 1/2X ERROR SIG
A 90W	56J03- 86	56TB2-X 4	COS AOG 16X TO CDU
A 91W	56J03- 87	56TB2-W 2	SIN AOG 16X S4
A 101	56J03- 89	56TB2-T 1	OG CDU 16X RSVR LOAD
A 89W	56J03- 90	56TB2-R 3	OG CDU ERROR SIG RET
A 96W	56J03- 92	56TB2-R 7	OG CDU MDA INPUT RET
A 92R	56J03- 94	56TB2-A 4	OG CDU ENCODER COM
A 90R	56J03-100	56TB2-W 4	COS AOG 16X S3
A 91R	56J03-101	56TB2-X 2	SIN AOG 16X TO CDU
A 89R	56J03-104	56TB2-N 3	OG CDU 16X ERROR SIG
A 96L	56J03-105	56TB2-R 6	OG CDU MDA SLEW SIG
A 96R	56J03-106	56TB2-N 6	OG CDU MDA TACH SIG
A 92W	56J03-107	56TB2-B 4	OG CDU ENCODER PHASE 1

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 92L	56J03-108	56TB2-C 4	OG CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 574R	56J02- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 579W	56J02- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 579R	56J02- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 64W	56J02- 6	56TB3-N21	COS AMG 1X S1
A 65W	56J02- 7	56TB3-C14	SIN AMG 1X
A 575L	56J02- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 575W	56J02- 12	56E 5	ZEROING RSVR 800 CPS
A 574W	56J02- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 74	56J02- 15	56E 8	+28 VDC CDU NOT LOCK
A 72	56J02- 16	56E 6	+28 VDC IMU
A 64R	56J02- 20	56TB3-N20	COS AMG 1X S3
A 65R	56J02- 21	56TB3-C13	SIN AMG 1X RET
A 575R	56J02- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 77R	56J02- 28	56E 9	400 CPS VAR ILLUM PWR
A 77W	56J02- 29	56E 10	400 CPS 6 V LO
A 80	56J02- 30	56TB2-R 5	+28 VDC IMU FOR MG MDA
A 76L	56J02- 31	56TB2-L 3	MG CDU MDA OUTPUT
A 76W	56J02- 32	56TB2-K 3	MG CDU MDA OUTPUT
A 79	56J02- 34	56TB2-X 1	MG CDU 1X RSVR LOAD
A 63R	56J02- 35	56TB2-H 7	MG CDU 1X ERROR SIG
A 78	56J02- 41	56E 12	STRUCTURE GND
A 76R	56J02- 43	56TB2-K 4	0 VDC IMU
A 63W	56J02- 45	56TB2-G 7	MG CDU ERROR SIG RET
A 70R	56J02- 50	56E 4	25.6 KC HI IMU
A 62W	56J02- 57	56TB2-G 6	MG CDU ERROR SIG RET
A 70W	56J02- 60	56E 3	25.6 KC LO IMU
A 62R	56J02- 67	56TB2-H 6	MG CDU 1/2X ERROR SIG
A 67W	56J02- 86	56TB2-U 4	COS AMG 16X TO CDU
A 68W	56J02- 87	56TB2-C 7	SIN AMG 16X TO CDU
A 66W	56J02- 90	56TB2-G 8	MG CDU ERROR SIG RET
A 75W	56J02- 92	56TB2-X 6	MG CDU MDA INPUT RET
A 69R	56J02- 94	56TB2-C 6	MG CDU ENCODER COM
A 67R	56J02-100	56TB2-U 5	COS AMG 16X S3
A 68R	56J02-101	56TB2-B 7	SIN AMG 16X S4
A 66R	56J02-104	56TB2-H 8	MG CDU 16X ERROR SIG
A 75L	56J02-105	56TB2-X 5	MG CDU MDA SLEW SIG
A 75R	56J02-106	56TB2-W 5	MG CDU MDA TACH SIG
A 69W	56J02-107	56TB2-B 6	MG CDU ENCODER PHASE 1
A 69L	56J02-108	56TB2-A 6	MG CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 104R	56J04- 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 599W	56J04- 2	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 599R	56J04- 3	56TB2-V 1	SHAFT CDU MOTOR EXC
A 110R	56J04- 6	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
A 111R	56J04- 7	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
A 584W	56J04- 11	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 584L	56J04- 12	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 104W	56J04- 14	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 110W	56J04- 20	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
A 111W	56J04- 21	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
A 584R	56J04- 25	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 123R	56J04- 28	56E 9	400 CPS VAR ILLUM PWR
A 123W	56J04- 29	56E 10	400 CPS 6 V LO
A 122L	56J04- 31	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
A 122W	56J04- 32	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
A 109L	56J04- 34	56TB3-T12	SHAFT CDU 1X P1 (S1)
A 109W	56J04- 35	56TB3-S12	SHAFT CDU 1X P2 (S2)
A 124	56J04- 41	56E 12	STRUCTURE GND
A 122R	56J04- 43	56TB3-M20	+28 VDC OPTICS
A 109R	56J04- 45	56TB3-R12	SHAFT CDU 1X P3 (S3)
A 117R	56J04- 50	56E 17	25.6 KC HI OPTICS
A 108W	56J04- 56	56TB3-N14	SHAFT CDU 1/2X COS HI S2
A 107R	56J04- 57	56TB3-K11	SHAFT CDU 1/2X SIN LO S3
A 117W	56J04- 60	56E 16	25.6 KC LO OPTICS
A 108R	56J04- 66	56TB3-N13	SHAFT CDU 1/2X COS LO S4
A 107W	56J04- 67	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 114W	56J04- 86	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
A 115W	56J04- 87	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
A 113	56J04- 89	56TB3-M18	SHAFT CDU 16X LOAD
A 112W	56J04- 90	56TB3-H11	SHAFT CDU 16X ERROR SIG LO
A 121W	56J04- 92	56TB3-L 8	SHAFT CDU TACH LO
A 116R	56J04- 94	56TB3-S 5	SHAFT CDU ENCODER COM
A 114R	56J04-100	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
A 115R	56J04-101	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
A 112R	56J04-104	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
A 121R	56J04-106	56TB3-L 7	SHAFT CDU TACH HI
A 116W	56J04-107	56TB3-T 5	SHAFT CDU ENCODER PHASE 1
A 116L	56J04-108	56TB3-S 4	SHAFT CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 150R	56J06- 1	56P01- 1	PITCH ATTITUDE ERROR METER +
A 150W	56J06- 2	56P01- 2	PITCH ATTITUDE ERROR METER -
A 161	56J06- 6	56P01- 6	ENTRY RELAY CONTROL RESET
A 160	56J06- 9	56P01- 9	MODE SWITCH INTERLOCK
A 154	56J06- 12	56TB1-K 7	MODE RELAY COMMON TO AGC
A 151R	56J06- 14	56P01- 14	YAW ATTITUDE ERROR METER +
A 151W	56J06- 15	56P01- 15	YAW ATTITUDE ERROR METER -
A 157	56J06- 18	56P01- 18	MODE RELAY COMMON TO D AND C ELECT
A 175	56J06- 22	56P01- 22	ATTITUDE CONTROL MODE LIGHT
A 165	56J06- 23	56P01- 23	FINE ALIGN RELAY CONTROL
A 166	56J06- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
A 167	56J06- 25	56P01- 25	ENTRY RELAY CONTROL
A 152W	56J06- 28	56P01- 28	ROLL ATTITUDE ERROR METER -
A 152R	56J06- 29	56P01- 29	ROLL ATTITUDE ERROR METER +
A 162	56J06- 34	56P01- 34	ZERO ENCODER RELAY CONTROL
A 163	56J06- 35	56P01- 35	COARSE ALIGN RELAY CONTROL
A 164	56J06- 36	56P01- 36	CDU MANUAL RELAY CONTROL
A 159	56J06- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL
A 177	56J06- 46	56P01- 46	ATTITUDE CONTROL MODE INTERLOCK
A 170	56J06- 56	56P01- 56	MANUAL ALIGN
A 155W	56J06- 68	56TB2-D 2	AGC COM
A 156W	56J06- 69	56J21-228	TRANSFER SWITCH INDICATION TO AGC 164A
A 169	56J06- 78	56TB2-L 4	0 VDC IMU
A 176	56J06- 79	56P01- 79	ENTRY MODE LIGHT
A 158	56J05- 81	56TB1-F 8	ATTIT CONT MODE COMMAND FROM AGC
A 178	56J06- 91	56TB3-B21	STRUCTURE GND
A 172	56J06- 92	56P01- 92	COARSE ALIGN MODE LIGHT
A 168	56J06- 93	56P01- 93	MODE RELAY COMMON
A 174	56J06- 94	56P01- 94	FINE ALIGN MODE LIGHT
A 171	56J06-104	56P01-104	ZERO ENCODER MODE LIGHT
A 173	56J06-105	56P01-105	CDU MANUAL MODE LIGHT
A 153W	56J06-107	56TB1-S 2	400 CPS 6 V LO
A 153R	56J06-108	56TB1-S 1	400 CPS VAR ILLUM PWR

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 208	56J08- 17	56E 19	0 VDC IMU
A 202	56J08- 18	56TB2-S 8	GIMBAL LOCK LIGHT HI
A 180K	56J08- 19	56TB1-R 2	400 CPS 6 V LO
A 205	56J08- 28	56E 19	0 VDC IMU
A 215	56J08- 29	56TB3-B21	STRUCTURE GND
A 204	56J08- 30	56E 19	0 VDC IMU
A 194	56J08- 31	56E 19	0 VDC IMU
A 207	56J08- 32	56J22- 71	MASTER WARNING LIGHT LO
A 210R	56J08- 35	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
A 180W	56J08- 36	56TB1-R 2	400 CPS 6 V LO
A 203	56J08- 41	56TB3-B 4	ZERO ENCODER LIGHT HI
A 193	56J08- 42	56TB1-U 2	IMU DELAY LIGHT HI
A 206	56J08- 43	56J22- 72	MASTER WARNING LIGHT HI
A 210W	56J08- 45	56TB3-L 6	400 CPS 0.5 V PI PHASE
A 180L	56J08- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY
A 565	56J08- 50	56TB1-F 1	SPARE FAIL LIGHT HI
A 187	56J08- 51	56TB1-H 8	ERROR DETECT LIGHT HI
A 212	56J08- 52	56E 19	0 VDC IMU
A 196	56J08- 53	56J22- 38	MASTER ALARM LIGHT HI
A 197	56J08- 54	56J22- 37	MASTER ALARM LIGHT LO
A 180R	56J08- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY
A 188	56J08- 60	56TB3-S 6	IMU FAIL LIGHT HI
A 189	56J08- 61	56E 20	0 VDC IMU
A 192	56J08- 62	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 213	56J08- 63	56E 20	0 VDC IMU
A 209R	56J08- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED
A 181	56J08- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 400 CPS
A 179	56J08- 67	56TB1-G 1	+28 VDC MDV
A 182R	56J08- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC
A 195	56J08- 70	56E 19	0 VDC IMU
A 198	56J08- 71	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 200	56J08- 72	56TB3-B 3	CDU FAIL LIGHT HI
A 190	56J08- 73	56TB3-B 2	ACCEL FAIL LIGHT HI
A 209W	56J08- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED
A 184	56J08- 78	56TB2-S 7	STEP-UP-C
A 186	56J08- 79	56TB2-S 5	STEP-DOWN-C
A 182W	56J08- 81	56TB3-B12	400 CPS 26 V SLEW
A 214	56J08- 82	56TB2-D 6	0 VDC IMU
A 201	56J08- 83	56E 20	0 VDC IMU

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 586R	56J05- 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 600W	56J05- 2	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 600R	56J05- 3	56TB2-U 1	TRUNNION CDU MOTOR EXC
A 585R	56J05- 4	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130R	56J05- 8	56TB3-G10	TRUNNION CDU 1/4X SIN HI
A 131R	56J05- 9	56TB3-F16	TRUNNION CDU 1/4X COS HI
A 131W	56J05- 10	56TB3-G16	TRUNNION CDU 1/4X COS LO
A 133	56J05- 11	56E 18	TRUNNION CDU 1/2X RSVR P3
A 132R	56J05- 12	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
A 586W	56J05- 14	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 585L	56J05- 17	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 585W	56J05- 18	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130W	56J05- 22	56TB3-F10	TRUNNION CDU 1/4X SIN LO
A 149	56J05- 25	56E 18	TRUNNION CDU 1/2X RSVR P3
A 146R	56J05- 28	56E 9	400 CPS VAR ILLUM PWR
A 146W	56J05- 29	56E 10	400 CPS 6 V LO
A 145L	56J05- 31	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
A 145W	56J05- 32	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
A 147	56J05- 41	56E 12	STRUCTURE GND
A 145R	56J05- 43	56TB3-M20	+28 VDC OPTICS
A 583R	56J05- 50	56E 17	25.6 KC HI OPTICS
A 148R	56J05- 56	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI
A 583W	56J05- 60	56E 16	25.6 KC LO OPTICS
A 148W	56J05- 66	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO
A 134W	56J05- 67	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
A 134R	56J05- 68	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
A 137W	56J05- 86	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
A 138W	56J05- 87	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
A 136	56J05- 89	56TB3-N18	TRUNNION CDU 16X LOAD
A 135W	56J05- 90	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
A 144W	56J05- 92	56TB3-M 7	TRUNION CDU TACH LO
A 139R	56J05- 94	56TB3-T 3	TRUNNION CDU ENCODER COM
A 137R	56J05-100	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
A 138R	56J05-101	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
A 135R	56J05-104	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
A 144R	56J05-106	56TB3-M 8	TRUNION CDU TACH HI
A 139W	56J05-107	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1
A 139L	56J05-108	56TB3-T 2	TRUNNION CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 191	56J08- 84	56E 20	0 VDC IMU
A 211	56J08- 92	56TB1-S 5	0 VDC IMU
A 185	56J08- 93	56TB2-S 4	STEP-DOWN-R
A 199	56J08- 95	56TB3-B14	400 CPS 26 V LO
A 183	56J08-106	56TB2-S 6	STEP-UP-R

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA397	56J19-R4	56J19-K1	0 VDC OPTICS
	AA362	56J19-R5	56J19-S4	0 VDC OPTICS
	AA363	56J19-R6	56J19-T4	0 VDC OPTICS
	AA358R	56J19-S2	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING
	AA358W	56J19-S3	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING
	AA364	56J19-S4	56TB3-K22	0 VDC OPTICS
*	AA362	56J19-S4	56J19-R5	0 VDC OPTICS
	AA366	56J19-S5	56J19-S6	0 VDC OPTICS
	AA369	56J19-S5	56TB3-K22	0 VDC OPTICS
*	AA366	56J19-S6	56J19-S5	0 VDC OPTICS
	AA357	56J19-T1	56J20-M6	+28 VDC OPTICS
*	AA298	56J19-T1	56J18-S1	+28 VDC OPTICS
	AA360R	56J19-T2	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
	AA360W	56J19-T3	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
	AA365	56J19-T4	56TB3-L22	0 VDC OPTICS
*	AA363	56J19-T4	56J19-R6	0 VDC OPTICS
	AA368	56J19-T5	56J19-T6	0 VDC OPTICS
	AA367	56J19-T6	56TB3-L22	0 VDC OPTICS
*	AA368	56J19-T6	56J19-T5	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA416	56J20-A1	56TB3-G19	AGC TEMP MONITOR NO 1
	AA417	56J20-A2	56TB3-F19	AGC TEMP MONITOR NO 2
	AA419W	56J20-A3	56TB3-N20	COS AMG 1X S3
	AA414	56J20-A4	56TB3-K19	IMU PRESSURE MONITOR HI
	AA464R	56J20-A6	56TB3-L13	PRESSURE SENSOR +28 VDC HI
	AA418	56J20-B1	56TB3-D19	AGC TEMP MONITOR NO 3
	AA419R	56J20-B3	56TB3-N21	COS AMG 1X S1
	AA415	56J20-B4	56TB3-H19	IMU PRESSURE MONITOR LO
	AA427R	56J20-B5	56TB3-T19	+20 VDC CONDITIONING
	AA464W	56J20-B6	56TB3-K13	PRESSURE SENSOR +28 VDC LO
	AA427W	56J20-C5	56TB3-S19	0 VDC CONDITIONING
	AA425	56J20-C6	56TB3-L19	+13 VDC AGC
	AA463R	56J20-D4	56TB3-S20	+2.5 VDC CONDITIONING LO
	AA463W	56J20-D5	56TB3-R19	+2.5 VDC CONDITIONING HI
	AA426	56J20-D6	56TB3-M19	+3 VDC AGC
	AA409W	56J20-F5	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
	AA410W	56J20-F5	56TB3-R22	800 CPS 28 V 1 PCT HI IMU
	AA409R	56J20-F6	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
	AA410R	56J20-F6	56TB3-R21	800 CPS 28 V 1 PCT LO IMU
	AA458	56J20-G1	56J20-H1	0 VDC IMU
	AA460	56J20-G1	56TB2-M 7	0 VDC IMU
	AA465W	56J20-G3	56TB3-K14	400 CPS 115 V LO
	AA462	56J20-G4	56TB3-F22	STRUCTURE GND
*	AA356	56J20-G4	56J19-P3	STRUCTURE GND
	AA411	56J20-G5	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA 52W	56J20-G5	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA413	56J20-G6	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	AA 52R	56J20-G6	56J12-K4	800 CPS 28 V 5 PCT L-90 DEG LO IMU
	AA459	56J20-H1	56J20-H2	0 VDC IMU
*	AA458	56J20-H1	56J20-G1	0 VDC IMU
	AA461	56J20-H2	56TB2-M 1	0 VDC IMU
*	AA459	56J20-H2	56J20-H1	0 VDC IMU
	AA465R	56J20-H3	56TB3-L14	400 CPS 115 V HI
	AA422	56J20-H4	56TB3-R20	+28 VDC AGC
	AA423	56J20-H4	56J21-234	+28 VDC AGC 166
*	AA178	56J20-H4	56J15-H5	+28 VDC AGC
	AA412W	56J20-H5	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA411	56J20-H5	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA412R	56J20-H6	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA383W	56J19-G3	56TB3-S13	SCT TRUNNION 1X SIN LO
*	AA302R	56J19-G5	56J18-H6	COSECANT AMP FEEDBACK SIG LO
*	AA302W	56J19-G6	56J18-G6	COSECANT AMP OUTPUT HI
	AA382W	56J19-H1	56TB3-T14	SCT TRUNNION 1X COS HI
*	AA302L	56J19-H5	56J18-H5	SHAFT CDU MDA COSECANT SIG
*	AA302K	56J19-H6	56J18-G5	COSECANT AMP FEEDBACK SIG HI
	AA391W	56J19-K1	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
	AA397	56J19-K1	56J19-R4	0 VDC OPTICS
	AA398	56J19-K1	56J19-K2	0 VDC OPTICS
	AA399	56J19-K2	56J19-K3	0 VDC OPTICS
*	AA398	56J19-K2	56J19-K1	0 VDC OPTICS
	AA392W	56J19-K3	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
	AA400	56J19-K3	56J19-K4	0 VDC OPTICS
*	AA399	56J19-K3	56J19-K2	0 VDC OPTICS
	AA401	56J19-K4	56J19-K5	0 VDC OPTICS
*	AA400	56J19-K4	56J19-K3	0 VDC OPTICS
	AA402	56J19-K5	56J19-K6	0 VDC OPTICS
*	AA401	56J19-K5	56J19-K4	0 VDC OPTICS
*	AA402	56J19-K6	56J19-K5	0 VDC OPTICS
	AA391R	56J19-L1	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
	AA392R	56J19-L3	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
*	AA616	56J19-M4	56J18-R4	ZERO OPTICS RELAY CONTROL
	AA388	56J19-M5	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA387	56J19-M6	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA389	56J19-N5	56TB3-L18	COSECANT RELAY CONTROL
*	AA304R	56J19-N6	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA359R	56J19-P1	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING
	AA361R	56J19-P2	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
	AA356	56J19-P3	56J20-G4	STRUCTURE GND
*	AA306	56J19-P3	56J18-R5	STRUCTURE GND
	AA394	56J19-P4	56J19-P5	0 VDC OPTICS
	AA393	56J19-P5	56TB3-K21	0 VDC OPTICS
*	AA305	56J19-P5	56J18-S5	0 VDC OPTICS
*	AA394	56J19-P5	56J19-P4	0 VDC OPTICS
*	AA304W	56J19-P6	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA359W	56J19-R1	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING
	AA361W	56J19-R2	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
	AA390	56J19-R4	56TB3-K21	0 VDC OPTICS
*	AA303	56J19-R4	56J18-P3	0 VDC OPTICS

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA413	56J20-H6	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
	AA454	56J20-K1	56TB3-T20	+28 VDC IMU
	AA455	56J20-K1	56TB3-T21	+28 VDC IMU
*	AA179	56J20-K1	56J15-S2	+28 VDC IMU
	AA456	56J20-K2	56TB3-S21	+28 VDC IMU
*	AA 4	56J20-K2	56J11-S5	+28 VDC IMU
*	AA193	56J20-K2	56J16-S2	+28 VDC IMU
*	AA191W	56J20-K3	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS
	AA424	56J20-K4	56TB3-N19	0 VDC AGC
	AA420	56J20-K5	56TB3-G21	+28 VDC AGC BUSS A
	AA421	56J20-K6	56TB3-G22	+28 VDC AGC BUSS B
	AA438	56J20-L1	56J20-M1	+28 VDC IMU
	AA439	56J20-L1	56J20-L2	+28 VDC IMU
*	AA 2	56J20-L1	56J11-S1	+28 VDC IMU
	AA440	56J20-L2	56J20-M2	+28 VDC IMU
*	AA 3	56J20-L2	56J11-S2	+28 VDC IMU
*	AA439	56J20-L2	56J20-L1	+28 VDC IMU
*	AA191R	56J20-L3	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
*	AA192W	56J20-L4	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA403	56J20-L5	56J21- 37	+28 VDC MDV 157B
	AA404	56J20-L5	56TB3-M22	+28 VDC MDV
*	AA 53	56J20-L6	56J12-G4	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP
*	AA 54	56J20-M1	56J12-S1	+28 VDC IMU
*	AA236	56J20-M1	56J17-T4	+28 VDC IMU
*	AA438	56J20-M1	56J20-L1	+28 VDC IMU
*	AA 55	56J20-M2	56J12-S2	+28 VDC IMU
*	AA237	56J20-M2	56J17-T3	+28 VDC IMU
*	AA440	56J20-M2	56J20-L2	+28 VDC IMU
*	AA192R	56J20-M4	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA405	56J20-M5	56TB3-M21	+28 VDC MDV
	AA457	56J20-M6	56TB3-M20	+28 VDC OPTICS
*	AA357	56J20-M6	56J19-T1	+28 VDC OPTICS
	AA428	56J20-N1	56TB3-C20	+28 VDC IMU BUSS A
	AA429	56J20-N1	56J20-P1	+28 VDC IMU BUSS A
	AA433	56J20-N2	56TB3-D20	+28 VDC IMU BUSS B
	AA434	56J20-N2	56J20-P2	+28 VDC IMU BUSS B
	AA408	56J20-N3	56TB3-K22	0 VDC OPTICS
	AA407	56J20-N4	56TB3-L21	0 VDC OPTICS
*	AA 51	56J20-N5	56J12-S6	+28 VDC OPTICS

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 432L	56J09- 53	56P10-107	400 CPS 6 V HI	
A 430R	56J09- 54	56TB1-R 1	400 CPS VAR ILLUM PWR	
A 419R	56J09- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY	
A 421R	56J09- 56	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
A 422W	56J09- 57	56TB3-F 8	SHAFT CDU DAC LO	
A 405	56J09- 58	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 404	56J09- 59	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 406	56J09- 60	56E 56	AGC COMMON	
A 432R	56J09- 61	56P10-106	400 CPS 6 V HI	
A 432W	56J09- 62	56P10- 93	400 CPS 6 V HI	
A 430K	56J09- 63	56TB1-M 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
A 430L	56J09- 64	56TB1-N 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
A 448R	56J09- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED	
A 408	56J09- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 400 CPS	
A 410	56J09- 67	56TB1-G 1	+28 VDC MDV	
A 409R	56J09- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC	
A 416W	56J09- 69	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS	
A 407W	56J09- 70	56J21- 16	SXT PWR ON INDICATION TO AGC	105A
A 445	56J09- 71	56TB3-M20	+28 VDC OPTICS	
A 394	56J09- 72	56TB3-B11	ZERO OPTICS RELAY CONTROL	
A 390	56J09- 73	56TB3-F 3	CONDITION LAMP TEST	
A 403	56J09- 74	56TB3-H 5	IMU TEMP ALARM AMP PIN 15	
A 444	56J09- 75	56TB3-K 5	IMU TEMP ALARM AMP PIN 14	
A 400	56J09- 76	56TB3-L 5	IMU TEMP CONT K2 PIN 6	
A 448W	56J09- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED	
A 414	56J09- 78	56TB2-S 7	STEP-UP-C	
A 412	56J09- 79	56TB2-S 5	STEP-DOWN-C	
A 416R	56J09- 80	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS	
A 409W	56J09- 81	56TB3-B12	400 CPS 26 V SLEW	
A 597L	56J09- 82	56TB2-U 2	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD	
A 436	56J09- 83	56TB3-L15	0 VDC OPTICS	
A 430W	56J09- 84	56TB1-K 1	MODE LAMP TEST PWR	
A 442	56J09- 85	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6	
A 398	56J09- 86	56TB3-L 1	IRIG TEMP GAIN SWITCH NC	
A 401L	56J09- 87	56TB3-H 1	IMU TEMP CONT AMP PIN 5	
A 401K	56J09- 88	56TB3-G 2	IMU TEMP CONT K2 PIN 5	
A 443	56J09- 89	56TB3-G 3	IRIG ZERO DEVIATION CHECK	
A 402	56J09- 90	56TB3-N 6	EMERG HTR CONT MODULE LO	
A 451	56J09- 91	56TB3-F22	STRUCTURE GND	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 438	56J09- 92	56TB3-K 1	IMU TEMP ALARM AMP PIN 5
A 411	56J09- 93	56TB2-S 4	STEP-DOWN-R
A 439	56J09- 94	56TB3-D 1	0 VDC IMU
A 447	56J09- 95	56P10- 48	400 CPS 26 V HI
A 597K	56J09- 96	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 395	56J09- 97	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 396	56J09- 98	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
A 428	56J09- 99	56TB3-L18	COSECANT RELAY CONTROL
A 401R	56J09-100	56TB3-G 1	IMU HTR CURRENT AMP PIN 5
A 401W	56J09-101	56TB3-H 2	IMU TEMP CONT K1 PIN 3
A 399	56J09-102	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
A 441	56J09-103	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
A 397	56J09-104	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
A 446	56J09-105	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
A 413	56J09-106	56TB2-S 6	STEP-UP-R

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 429	56J09- 1	56TB3-N15	0 VDC OPTICS	
A 392	56J09- 2	56TB3-M 3	TRUNNION ENCODER PIN 8	
A 389W	56J09- 3	56J22-193	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 387W	56J09- 4	56J22-233	PITCH ATTIT IMPULSE CONTR OUTPUT UP	
A 387L --	56J09- 5	56J22-232	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN --	
A 388L	56J09- 6	56J22-197	YAW ATTIT IMPULSE CONTR OUTPUT LEFT	
A 388R	56J09- 7	56J22-235	YAW ATTIT IMPULSE CONTR INPUT	
A 425R	56J09- 10	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI	
A 389R	56J09- 16	56J22-230	ROLL ATTIT IMPULSE CONTR INPUT	
A 389L	56J09- 17	56J22-192	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT	
A 387R	56J09- 18	56J22-195	PITCH ATTIT IMPULSE CONTR INPUT	
A 426R	56J09- 19	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI	
A 388W	56J09- 20	56J22-198	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 391	56J09- 21	56TB3-K 4	TRUNNION ENCODER PIN 9	
A 425W	56J09- 23	56TB3-M11	RSVR DRIVE AMP INPUT LO	
A 425L	56J09- 24	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
A 437W	56J09- 25	56J21- 54	OPTICS ZERO ENCODER	104A
A 450	56J09- 26	56TB2-D 6	0 VDC IMU	
* A 453	56J09- 29	56P10- 10	GIMBAL LOCK LIGHT CONDITION LAMP TEST	
A 433W	56J09- 30	56J21- 86	MARK	102A
A 434W	56J09- 31	56J21- 88	NOT MARK	103A
A 431R	56J09- 32	56TB2-A 2	PANEL BRIGHTNESS CONTROL	
A 426W	56J09- 33	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO	
A 427W	56J09- 34	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
A 427R	56J09- 35	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
A 420	56J09- 36	56E 56	AGC COMMON	
A 449R	56J09- 37	56J21- 18	OPTICS MODE SW COMPUTER INDICATION	106A
A 597W	56J09- 38	56TB2-V 1	SHAFT CDU MOTOR EXC	
A 393W	56J09- 40	56J22-200	0 VDC FROM NAA	
A 393R	56J09- 41	56J22-237	+28 VDC FROM NAA	
A 415	56J09- 42	56E 56	AGC COMMON	
A 431W	56J09- 44	56TB2-A 1	PANEL BRIGHTNESS CONTROL	
A 419W	56J09- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY	
A 421W	56J09- 47	56TB3-F 7	TRUNNION CDU DAC LO	
A 422R	56J09- 48	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
A 597R	56J09- 49	56TB2-U 1	TRUNNION CDU MOTOR EXC	
A 393L	56J09- 50	56J22-238	ATTITUDE DISABLE SIG TO NAA	
A 435	56J09- 51	56TB3-M22	+28 VDC MDV	
A 432K	56J09- 52	56P10-108	400 CPS 6 V LO	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 570	56J10- 1	56E 62	GROUP 2 SHIELD	245
A 464	56J10- 2	56TB3-F 3	CONDITION LAMP TEST	328
A 474W	56J10- 3	56TB3-B 4	ZERO ENCODER LIGHT HI	301
A 474R	56J10- 4	56TB3-B 3	CDU FAIL LIGHT HI	302
A 474L	56J10- 5	56TB3-B 2	ACCEL FAIL LIGHT HI	303
A 465	56J10- 6	56TB3-S 6	IMU FAIL LIGHT HI	304
A 466	56J10- 7	56TB1-F 1	SPARE FAIL LIGHT HI	305
A 507	56J10- 8	56TB3-M22	+28 VDC MDV	306
A 478	56J10- 9	56TB1-H 5	AGC FAIL SIG	326
A 508	56J10- 10	56TB1-G 5	+28 VDC TO COMPUTER RELAY	327
A 475	56J10- 12	56TB1-F 8	ATTIT CONT MODE COMMAND FROM AGC	314
A 521	56J10- 13	56TB1-K 7	MODE RELAY COMMON TO AGC	315
A 503R	56J10- 14	56J21-111	OUT 0 11	224A
A 506R	56J10- 15	56J21- 78	OUT 0 12	225A
A 504R	56J10- 16	56J21- 43	OUT 0 13	226A
A 483R	56J10- 17	56J21- 6	OUT 0 14	227A
A 484R	56J10- 18	56J21-214	OUT 0 15	228A
A 487R	56J10- 19	56J21-113	ALARM 3	231A
A 471R	56J10- 20	56J21- 82	POWER SYNC	242A
A 479W	56J10- 21	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC	307
A 479L	56J10- 22	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC	308
A 480L	56J10- 23	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC	309
A 479R	56J10- 24	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC	310
A 480R	56J10- 25	56TB1-K 6	ENTRY MODE COMMAND FROM AGC	311
A 480W	56J10- 26	56TB1-K 7	MODE RELAY COMMON TO AGC	312
A 569	56J10- 27	56E 65	GROUP 3 SHIELD	250
A 497R	56J10- 28	56J21-109	OUT 0 4	217A
A 498R	56J10- 29	56J21- 76	OUT 0 5	218A
A 499R	56J10- 30	56J21- 41	OUT 0 6	219A
A 505R	56J10- 31	56J21- 4	OUT 0 7	220A
A 482R	56J10- 32	56J21- 80	ALARM 4	232A
A 488R	56J10- 33	56J21- 45	ALARM 5	233A
A 516R	56J10- 34	56J21-218	KEY CODE 1	201A
A 514R	56J10- 35	56J21-183	KEY CODE 2	202A
A 472R	56J10- 36	56J21-150	KEY CODE 3	203A
A 511R	56J10- 37	56J21-117	KEY CODE 4	204A
A 467R	56J10- 38	56J21- 84	KEY CODE 5	205A
A 510R	56J10- 39	56J21- 14	TEST ALARM	207A
A 485R	56J10- 40	56J21-179	ALARM 1	229A

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
AA 15W	56J11-A1	56TB2-H 2	IG CDU 1X ERROR SIG
AA 19W	56J11-A2	56TB2-H 7	MG CDU 1X ERROR SIG
AA 21W	56J11-A3	56TB2-N 2	OG CDU 1X ERROR SIG
AA 10R	56J11-A5	56J12-A2	IMU MG ERROR SIG
AA 29R	56J11-A5	56TB1-A 7	IMU MG ERROR SIG
AA 10L	56J11-A6	56J12-B1	IMU OG ERROR SIG
AA 29L	56J11-A6	56TB1-A 8	IMU OG ERROR SIG
AA 15R	56J11-B1	56TB2-G 2	IG CDU ERROR SIG RET
AA 16W	56J11-B1	56TB1-B 5	IG CDU ERROR SIG RET
AA 19R	56J11-B2	56TB2-G 7	MG CDU ERROR SIG RET
AA 20W	56J11-B2	56TB1-A 6	MG CDU ERROR SIG RET
AA 11R	56J11-B3	56J17-B1	OG CDU ERROR SIG RET
AA 21R	56J11-B3	56TB2-R 2	OG CDU ERROR SIG RET
AA 10K	56J11-B5	56J12-B2	IMU GIMBAL AND GYRO ERROR SIG LO
AA 29K	56J11-B5	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
AA 10W	56J11-B6	56J12-A1	IMU IG AND Y GYRO ERROR SIG
AA 29W	56J11-B6	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
AA 16R	56J11-C1	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR
AA 20R	56J11-C2	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR
AA 11W	56J11-C3	56J17-A1	OG CDU ATTITUDE STEERING ERROR
AA 30W	56J11-D5	56TB1-D 4	IG TORQUE MOTOR RET
AA 30R	56J11-D6	56TB1-D 3	IG TORQUE MOTOR HI
AA 23R	56J11-F1	56TB1-C 4	IG ADA
AA 42W	56J11-F3	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
AA 32R	56J11-F6	56TB1-A 4	MG TORQUE MOTOR HI
AA 23K	56J11-G1	56TB1-C 3	OG ADA
AA 23W	56J11-G2	56TB1-B 3	0 VDC IMU
AA 24	56J11-G2	56J11-P6	0 VDC IMU
AA 42R	56J11-G3	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
AA 32W	56J11-G6	56TB1-A 3	MG TORQUE MOTOR RET
AA 23L	56J11-H1	56TB1-B 4	MG ADA
AA 34W	56J11-H5	56TB1-B 2	OG TORQUE MOTOR RET
AA 34R	56J11-H6	56TB1-A 2	OG TORQUE MOTOR HI
AA 9W	56J11-L1	56J12-H2	3200 CPS 2 V HI
AA 28W	56J11-L1	56TB1-D 2	3200 CPS 2 V HI
AA 9R	56J11-L2	56J12-K2	3200 CPS 2 V LO
AA 28K	56J11-L2	56TB1-C 2	3200 CPS 2 V LO
AA 35	56J11-L3	56TB1-D 6	COARSE ALIGN RELAY CONTROL
AA 7	56J11-L4	56J12-K3	STRUCTURE GND

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA617	56J11-L4	56E 66	STRUCTURE GND
	AA618	56J11-L4	56E 67	STRUCTURE GND
*	AA503R	56J11-L6	56J21-203	COMPUTER 3200 PPS OUT OF PHASE SYNC 152A
	AA 28R	56J11-M1	56TB1-D 2	3200 CPS 2 V HI
	AA 28L	56J11-M2	56TB1-C 2	3200 CPS 2 V LO
	AA 36	56J11-M5	56E 28	COMPUTER 3200 PPS SYNC RET
	AA 37	56J11-M5	56J11-P3	0 VDC IMU
*	AA504R	56J11-M6	56J21-241	COMPUTER 3200 PPS IN PHASE SYNC 151A
	AA 12R	56J11-N1	56J17-P2	3200 CPS 20 V CT
	AA 12L	56J11-N2	56J17-R2	3200 CPS 20 V LO
	AA610	56J11-N3	56J12-P4	COMPUTER 12.8 KPPS SYNC
	AA 5R	56J11-N4	56J12-P3	800 CPS 28 V 1 PCT LO IMU
	AA 5W	56J11-N5	56J12-N3	800 CPS 28 V 1 PCT HI IMU
	AA 14	56J11-N6	56J13-P6	-28 VDC
	AA 27	56J11-N6	56TB1-D 5	-28 VDC
	AA 12W	56J11-P1	56J17-N2	3200 CPS 20 V HI
	AA 38	56J11-P2	56J11-R3	0 VDC IMU
	AA 39	56J11-P3	56J11-R3	0 VDC IMU
*	AA 37	56J11-P3	56J11-M5	0 VDC IMU
	AA 18	56J11-P4	56J11-R4	0 VDC IMU
	AA 22	56J11-P4	56J11-P5	0 VDC IMU
*	AA 22	56J11-P5	56J11-P4	0 VDC IMU
	AA 26	56J11-P6	56J11-R6	0 VDC IMU
	AA 46	56J11-P6	56TB1-S 3	0 VDC IMU
*	AA 24	56J11-P6	56J11-G2	0 VDC IMU
	AA 41	56J11-R1	56J11-R2	0 VDC IMU
	AA 44	56J11-R1	56TB2-M 2	0 VDC IMU
	AA 45	56J11-R2	56TB2-M 3	0 VDC IMU
*	AA 41	56J11-R2	56J11-R1	0 VDC IMU
	AA 43	56J11-R3	56TB2-M 1	0 VDC IMU
*	AA 38	56J11-R3	56J11-P2	0 VDC IMU
*	AA 39	56J11-R3	56J11-P3	0 VDC IMU
	AA 17	56J11-R4	56J11-R5	0 VDC IMU
*	AA 18	56J11-R4	56J11-P4	0 VDC IMU
	AA 31	56J11-R5	56J11-R6	0 VDC IMU
*	AA 17	56J11-R5	56J11-R4	0 VDC IMU
	AA 33	56J11-R6	56J11-S6	0 VDC IMU
*	AA 26	56J11-R6	56J11-P6	0 VDC IMU
*	AA 31	56J11-R6	56J11-R5	0 VDC IMU

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 486R	56J10- 41	56J21-146	ALARM 2	230A
A 470R	56J10- 42	56J21- 47	TIMING (1.5 CPS)	244A
A 490R	56J10- 43	56J21-216	ALARM 7	235A
A 489R	56J10- 44	56J21- 8	ALARM 6	234A
A 522	56J10- 45	56J21- 10	SPARE	248
A 523	56J10- 46	56J21- 11	SPARE	249
A 515R	56J10- 47	56J21-185	OR OF C1 THRU C33	210A
A 517R	56J10- 48	56J21-220	ERROR RESET	208A
A 468W	56J10- 49	56J21- 12	KEY RESET NAV	209A
A 492R	56J10- 51	56J21-148	ALARM 9	237A
A 491R	56J10- 53	56J21-181	ALARM 8	236A
A 513	56J10- 55	56J21-174	+3 V B	240
A 512	56J10- 56	56J21-173	GND	239
A 477	56J10- 57	56J21-108	+13 V B	241
A 509	56J10- 58	56J21- 39	GND	239
A 481	56J10- 59	56J21- 40	+28 VDC AGC	243
A 496R	56J10- 60	56J21-142	OUT 0 3	216A
A 500R	56J10- 61	56J21-212	OUT 0 8	221A
A 501R	56J10- 62	56J21-177	OUT 0 9	222A
A 502R	56J10- 63	56J21-144	OUT 0 10	223A
A 493R	56J10- 64	56J21-115	ALARM 10	238A
A 476	56J10- 70	56J21- 3	SPARE	211
A 473	56J10- 71	56J21- 75	SPARE	212
A 469	56J10- 72	56J21-141	SPARE	213
A 494R	56J10- 73	56J21-210	OUT 0 1	214A
A 495R	56J10- 74	56J21-175	OUT 0 2	215A
A 520	56J10- 75	56J21-209	SPARE	247
A 519	56J10- 82	56E 26	COMMONED RETURNS GROUND	330

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA 2	56J11-S1	56J20-L1	+28 VDC IMU
	AA 40	56J11-S1	56J11-S2	+28 VDC IMU
	AA 3	56J11-S2	56J20-L2	+28 VDC IMU
*	AA 40	56J11-S2	56J11-S1	+28 VDC IMU
	AA 13	56J11-S3	56J17-R1	+28 VDC STBY
	AA 1	56J11-S4	56J15-S6	+28 VDC IMU
	AA 6	56J11-S4	56J12-S5	+28 VDC IMU
	AA 25	56J11-S4	56J11-S5	+28 VDC IMU
	AA 4	56J11-S5	56J20-K2	+28 VDC IMU
*	AA 25	56J11-S5	56J11-S4	+28 VDC IMU
*	AA 33	56J11-S6	56J11-R6	0 VDC IMU

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0 1 2
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA519	56J21- 1	56TB3-G21	+28 VDC AGC BUSS A	167
*	AA520	56J21- 2	56TB3-G20	0 VDC AGC	169
*	A 476	56J21- 3	56J10- 70	SPARE	211
*	A 505R	56J21- 4	56J10- 31	OUT 0 7	220A
*	A 505W	56J21- 5	56E 22		220B
*	A 483R	56J21- 6	56J10- 17	OUT 0 14	227A
*	A 483W	56J21- 7	56E 23		227B
*	A 489R	56J21- 8	56J10- 44	ALARM 6	234A
*	A 489W	56J21- 9	56E 24		234B
*	A 522	56J21- 10	56J10- 45	SPARE	248
*	A 523	56J21- 11	56J10- 46	SPARE	249
*	A 468W	56J21- 12	56J10- 49	KEY RESET NAV	209A
*	A 468R	56J21- 13	56E 25		209B
*	A 510R	56J21- 14	56J10- 39	TEST ALARM	207A
*	A 510W	56J21- 15	56E 25		207B
*	A 407W	56J21- 16	56J09- 70	SXT PWR ON INDICATION TO AGC	105A
*	A 407R	56J21- 17	56E 58		105B
*	A 449R	56J21- 18	56J09- 37	OPTICS MODE SW COMPUTER INDICATION	106A
*	A 449W	56J21- 19	56E 58		106B
	AA474	56J21- 22	56E 47	AGC SIG 179 SHLD RET	179
	AA473	56J21- 23	56E 45	AGC SIG 180 SHLD RET	180
	AA475W	56J21- 24	56J15-B4	IG ENCODER + DELTA THETA	120A
	AA475R	56J21- 25	56E 38	IG DAC MDA SIG LO	120B
	AA476R	56J21- 26	56J15-C4	IG ENCODER - DELTA THETA	121A
	AA476W	56J21- 27	56E 38	IG DAC MDA SIG LO	121B
*	AA 84W	56J21- 28	56J12-D6	IMU FAIL	141A
*	AA 84R	56J21- 29	56J12-F6	IMU FAIL RET	141B
	AA486R	56J21- 30	56J15-C9	OG CDU - DELTA THETA COMMAND	127A
	AA486W	56J21- 31	56E 43	OG DAC MDA SIG LO	127B
*	AA130R	56J21- 32	56E 33	0 VDC IMU	143A
*	AA130W	56J21- 33	56J14-D2	- DX GYRO RATE	143B
*	AA226R	56J21- 34	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
*	AA226W	56J21- 35	56J16-L3	COMPUTER 800 PPS SYNC RET	150B
*	AA 81	56J21- 36	56J12-M1	AGC POWER SUPPLY FAIL SIG HI	157A
*	AA403	56J21- 37	56J20-L5	+28 VDC MDV	157B
*	A 509	56J21- 39	56J10- 58	GND	239
*	A 481	56J21- 40	56J10- 59	+28 VDC AGC	243
*	A 499R	56J21- 41	56J10- 30	OUT 0 6	219A
*	A 499W	56J21- 42	56E 22		219B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 504R	56J21- 43	56J10- 16	OUT 0 13	226A
*	A 504W	56J21- 44	56E 23		226B
*	A 488R	56J21- 45	56J10- 33	ALARM 5	233A
*	A 488W	56J21- 46	56E 23		233B
*	A 470R	56J21- 47	56J10- 42	TIMING (1.5 CPS)	244A
*	A 470W	56J21- 48	56E 24		244B
	AA562	56J21- 53	56E 57	AGC SIG 178 SHLD RET	178
*	A 437W	56J21- 54	56J09- 25	OPTICS ZERO ENCODER	104A
*	A 437R	56J21- 55	56E 58		104B
	AA479W	56J21- 56	56J15-B8	OG ENCODER + DELTA THETA	118A
	AA479R	56J21- 57	56E 42	OG DAC MDA SIG LO	118B
	AA480R	56J21- 58	56J15-C8	OG ENCODER - DELTA THETA	119A
	AA480W	56J21- 59	56E 42	OG DAC MDA SIG LO	119B
*	AA 86W	56J21- 60	56J12-D4	ACCEL FAIL	138A
*	AA 86R	56J21- 61	56J12-F4	ACCEL FAIL RET	138B
*	AA521	56J21- 62	56TB3-L19	+13 VDC AGC	176
*	AA522	56J21- 63	56TB3-N19	0 VDC AGC	177
	AA485W	56J21- 64	56J15-B9	OG CDU + DELTA THETA COMMAND	126A
	AA485R	56J21- 65	56E 43	OG DAC MDA SIG LO	126B
*	AA129W	56J21- 66	56E 33	0 VDC IMU	142A
*	AA129R	56J21- 67	56J14-D1	+ DX GYRO RATE	142B
*	AA227W	56J21- 68	56J16-L3	COMPUTER 800 PPS SYNC RET	149A
*	AA227R	56J21- 69	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	149B
*	AA 70W	56J21- 70	56J12-K1	COMPUTER 102.4 KPPS SYNC	156A
*	AA 70R	56J21- 71	56J12-H1	COMPUTER 102.4 KPPS SYNC RET	156B
*	AA523	56J21- 73	56TB3-G21	+28 VDC AGC BUSS A	167
*	AA524	56J21- 74	56TB3-G20	0 VDC AGC	169
*	A 473	56J21- 75	56J10- 71	SPARE	212
*	A 498R	56J21- 76	56J10- 29	OUT 0 5	218A
*	A 498W	56J21- 77	56E 22		218B
*	A 506R	56J21- 78	56J10- 15	OUT 0 12	225A
*	A 506W	56J21- 79	56E 23		225B
*	A 482R	56J21- 80	56J10- 32	ALARM 4	232A
*	A 482W	56J21- 81	56E 23		232B
*	A 471R	56J21- 82	56J10- 20	POWER SYNC	242A
*	A 471W	56J21- 83	56E 24		242B
*	A 467R	56J21- 84	56J10- 38	KEY CODE 5	205A
*	A 467W	56J21- 85	56E 25		205B
*	A 433W	56J21- 86	56J09- 30	MARK	102A

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA189	56J20-N5	56J16-S5	+28 VDC OPTICS
	AA406	56J20-N6	56TB3-H20	+28 VDC OPTICS
*	AA190	56J20-N6	56J16-S6	+28 VDC OPTICS
	AA430	56J20-P1	56J20-R1	+28 VDC IMU BUSS A
*	AA429	56J20-P1	56J20-N1	+28 VDC IMU BUSS A
	AA435	56J20-P2	56J20-R2	+28 VDC IMU BUSS B
*	AA434	56J20-P2	56J20-N2	+28 VDC IMU BUSS B
	AA445	56J20-P3	56TB3-N22	+28 VDC STBY
*	AA238	56J20-P3	56J17-T1	+28 VDC STBY
*	AA239	56J20-P4	56J17-T2	+28 VDC STBY
	AA446	56J20-P5	56TB3-H21	+28 VDC OPTICS BUSS A
	AA447	56J20-P5	56J20-R5	+28 VDC OPTICS BUSS A
	AA450	56J20-P6	56TB3-H22	+28 VDC OPTICS BUSS B
	AA451	56J20-P6	56J20-R6	+28 VDC OPTICS BUSS B
	AA431	56J20-R1	56J20-S1	+28 VDC IMU BUSS A
*	AA430	56J20-R1	56J20-P1	+28 VDC IMU BUSS A
	AA436	56J20-R2	56J20-S2	+28 VDC IMU BUSS B
*	AA435	56J20-R2	56J20-P2	+28 VDC IMU BUSS B
	AA441	56J20-R3	56TB3-D22	+28 VDC STBY BUSS A
	AA442	56J20-R3	56J20-S3	+28 VDC STBY BUSS A
	AA443	56J20-R4	56TB3-C22	+28 VDC STBY BUSS B
	AA444	56J20-R4	56J20-S4	+28 VDC STBY BUSS B
	AA448	56J20-R5	56J20-S5	+28 VDC OPTICS BUSS A
*	AA447	56J20-R5	56J20-P5	+28 VDC OPTICS BUSS A
	AA452	56J20-R6	56J20-S6	+28 VDC OPTICS BUSS B
*	AA451	56J20-R6	56J20-P6	+28 VDC OPTICS BUSS B
	AA432	56J20-S1	56TB3-C21	+28 VDC IMU BUSS A
*	AA431	56J20-S1	56J20-R1	+28 VDC IMU BUSS A
	AA437	56J20-S2	56TB3-D21	+28 VDC IMU BUSS B
*	AA436	56J20-S2	56J20-R2	+28 VDC IMU BUSS B
*	AA442	56J20-S3	56J20-R3	+28 VDC STBY BUSS A
*	AA444	56J20-S4	56J20-R4	+28 VDC STBY BUSS B
	AA449	56J20-S5	56TB3-H21	+28 VDC OPTICS BUSS A
*	AA448	56J20-S5	56J20-R5	+28 VDC OPTICS BUSS A
	AA453	56J20-S6	56TB3-H22	+28 VDC OPTICS BUSS B
*	AA452	56J20-S6	56J20-R6	+28 VDC OPTICS BUSS B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 433R	56J21- 87	56E 58		102B
*	A 434W	56J21- 88	56J09- 31	NOT MARK	103A
*	A 434R	56J21- 89	56E 58		103B
	AA468R	56J21- 92	56E 35	COMPUTER RET	133A
	AA468W	56J21- 93	56J15-M6	- DELTA V X	133B
	AA471R	56J21- 94	56E 37	COMPUTER RET	137A
	AA471W	56J21- 95	56J15-K4	- DELTA V Z	137B
*	AA525	56J21- 96	56TB3-M19	+3 VDC AGC	175
	AA484R	56J21- 97	56J15-C7	MG CDU - DELTA THETA COMMAND	131A
	AA484W	56J21- 98	56E 41	MG DAC MDA SIG LO	131B
	AA502W	56J21- 99	56J13-N6	PIPA SWITCHING PULSE	140A
	AA502R	56J21-100	56E 34	0 VDC IMU	140B
*	AA157R	56J21-101	56J15-R2	0 VDC IMU	148A
*	AA157W	56J21-102	56J15-P1	GYRO RESET PULSE	148B
	AA500R	56J21-103	56J17-R3	COMPUTER 12.8 KPPS SYNC	155A
	AA500W	56J21-104	56E 27	0 VDC IMU	155B
	A 571	56J21-107	56E 63	GROUP 2 SHIELD	245
*	A 477	56J21-108	56J10- 57	+13 V B	241
*	A 497R	56J21-109	56J10- 28	OUT 0 4	217A
*	A 497W	56J21-110	56E 22		217B
*	A 503R	56J21-111	56J10- 14	OUT 0 11	224A
*	A 503W	56J21-112	56E 23		224B
*	A 487R	56J21-113	56J10- 19	ALARM 3	231A
*	A 487W	56J21-114	56E 23		231B
*	A 493R	56J21-115	56J10- 64	ALARM 10	238A
*	A 493W	56J21-116	56E 24		238B
*	A 511R	56J21-117	56J10- 37	KEY CODE 4	204A
*	A 511W	56J21-118	56E 25		204B
	A 440W	56J21-119	56E 56	AGC COMMON	101A
	A 440R	56J21-120	56E 58		101B
	AA487W	56J21-121	56TB2-D 2	AGC COM	165A
	AA487R	56J21-122	56TB2-F 3		165B
	AA495W	56J21-123	56J18-K1	SHAFT CDU ENCODER - DELTA THETA	111A
	AA495R	56J21-124	56E 53	SHAFT CDU DAC LO	111B
	AA467R	56J21-125	56E 35	COMPUTER RET	132A
	AA467W	56J21-126	56J15-M5	+ DELTA V X	132B
	AA472R	56J21-127	56E 37	COMPUTER RET	136A
	AA472W	56J21-128	56J15-K5	+ DELTA V Z	136B
*	AA526	56J21-129	56TB3-D19	AGC TEMP MONITOR NO 3	173

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INCHES
0 1 2
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA583	56TB2-M 3	56TB2-M 4	0 VDC IMU
*	AA 45	56TB2-M 3	56J11-R2	0 VDC IMU
*	AA582	56TB2-M 3	56TB2-M 2	0 VDC IMU
	AA584	56TB2-M 4	56TB2-M 5	0 VDC IMU
*	A 533	56TB2-M 4	56P11-F	0 VDC IMU
*	AA583	56TB2-M 4	56TB2-M 3	0 VDC IMU
*	AA591	56TB2-M 4	56TB1-S 3	0 VDC IMU
	AA585	56TB2-M 5	56TB2-M 6	0 VDC IMU
*	AA584	56TB2-M 5	56TB2-M 4	0 VDC IMU
*	AA589	56TB2-M 5	56TB1-N 4	0 VDC IMU
	AA586	56TB2-M 6	56TB2-M 7	0 VDC IMU
	AA592	56TB2-M 6	56TB3-S 2	0 VDC IMU
*	AA585	56TB2-M 6	56TB2-M 5	0 VDC IMU
*	A 534	56TB2-M 7	56P11-E	0 VDC IMU
*	AA460	56TB2-M 7	56J20-G1	0 VDC IMU
*	AA539	56TB2-M 7	56TB2-M 8	0 VDC IMU
*	AA586	56TB2-M 7	56TB2-M 6	0 VDC IMU
	A 87B	56TB2-M 8	SHLD A 87	0 VDC IMU
	A 232B	56TB2-M 8	SHLD A232	0 VDC IMU
	A 360B	56TB2-M 8	SHLD A360	0 VDC IMU
	AA506B	56TB2-M 8	SHLD AA506	0 VDC IMU
	AA539	56TB2-M 8	56TB2-M 7	0 VDC IMU
*	A 85R	56TB2-N 1	56J03- 67	OG CDU 1/2X ERROR SIG
*	AA206W	56TB2-N 1	56J16-D5	OG CDU 1/2X ERROR SIG
*	A 23R	56TB2-N 2	56P01- 96	OG CDU 1X ERROR SIG
*	A 86R	56TB2-N 2	56J03- 35	OG CDU 1X ERROR SIG
*	A 366R	56TB2-N 2	56P09- 72	OG CDU 1X ERROR SIG
*	AA 21W	56TB2-N 2	56J11-A3	OG CDU 1X ERROR SIG
*	AA207W	56TB2-N 2	56J16-C6	OG CDU 1X ERROR SIG
	AA571W	56TB2-N 3	56J17-A2	OG CDU 16X ERROR SIG
*	A 89R	56TB2-N 3	56J03-104	OG CDU 16X ERROR SIG
*	A 338R	56TB2-N 3	56P09- 39	OG CDU 16X ERROR SIG
*	AA208R	56TB2-N 3	56J16-C5	OG CDU 16X ERROR SIG
*	A 56	56TB2-N 5	56J01- 30	+28 VDC IMU FOR IG MDA
*	AA210	56TB2-N 5	56J16-S1	+28 VDC IMU FOR IG MDA
*	A 96R	56TB2-N 6	56J03-106	OG CDU MDA TACH SIG
*	AA214R	56TB2-N 6	56J16-A5	OG CDU MDA TACH SIG
*	A 87W	56TB2-N 7	56J03- 6	COS AOG 1X S1
*	A 232W	56TB2-N 7	56P03-E	COS AOG 1X S1

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 360W	56TB2-N 7	56P09- 31	COS AOG 1X S1
*	AA204R	56TB2-N 7	56J16-C8	COS AOG 1X S1
*	AA506R	56TB2-N 7	56J22-142	COS AOG 1X S1
*	A 232R	56TB2-N 8	56P03-D	COS AOG 1X S3
*	A 360R	56TB2-N 8	56P09- 30	COS AOG 1X S3
*	AA204W	56TB2-N 8	56J16-B8	COS AOG 1X S3
*	AA506W	56TB2-N 8	56J22-141	COS AOG 1X S3
*	A 85W	56TB2-R 1	56J03- 57	OG CDU ERROR SIG RET
*	AA206R	56TB2-R 1	56J16-D6	OG CDU ERROR SIG RET
*	A 23W	56TB2-R 2	56P01- 97	OG CDU ERROR SIG RET
*	A 86W	56TB2-R 2	56J03- 45	OG CDU ERROR SIG RET
*	A 366W	56TB2-R 2	56P09- 83	OG CDU ERROR SIG RET
*	AA 21R	56TB2-R 2	56J11-B3	OG CDU ERROR SIG RET
*	AA207R	56TB2-R 2	56J16-D6	OG CDU ERROR SIG RET
*	AA578	56TB2-R 2	56TB2-S 2	OG CDU ERROR SIG RET
	AA571R	56TB2-R 3	56J17-B2	OG CDU ERROR SIG RET
	AA615	56TB2-R 3	56TB2-S 3	OG CDU ERROR SIG RET
*	A 89W	56TB2-R 3	56J03- 90	OG CDU ERROR SIG RET
*	A 338W	56TB2-R 3	56P09- 38	OG CDU ERROR SIG RET
*	AA208W	56TB2-R 3	56J16-D6	OG CDU ERROR SIG RET
*	A 9	56TB2-R 4	56P01- 57	ENTRY RELAY CONTROL
*	AA221	56TB2-R 4	56J16-M1	ENTRY RELAY CONTROL
*	A 80	56TB2-R 5	56J02- 30	+28 VDC IMU FOR MG MDA
*	AA211	56TB2-R 5	56J16-T1	+28 VDC IMU FOR MG MDA
*	A 96L	56TB2-R 6	56J03-105	OG CDU MDA SLEW SIG
*	AA214W	56TB2-R 6	56J16-A6	OG CDU MDA SLEW SIG
	A 96B	56TB2-R 7	SHLD A 96	OG CDU MDA INPUT RET
*	A 96W	56TB2-R 7	56J03- 92	OG CDU MDA INPUT RET
*	AA214L	56TB2-R 7	56J16-B5	OG CDU MDA INPUT RET
*	A 87R	56TB2-R 8	56J03- 20	COS AOG 1X TO CDU
*	AA204L	56TB2-R 8	56J16-C9	COS AOG 1X TO CDU
*	A 100	56TB2-S 1	56J03- 34	OG CDU 1X RSVR LOAD
*	AA218	56TB2-S 1	56J16-F6	OG CDU 1X RSVR LOAD
	A 23B	56TB2-S 2	SHLD A 23	OG CDU ERROR SIG RET
	A 86B	56TB2-S 2	SHLD A 86	OG CDU ERROR SIG RET
	A 366B	56TB2-S 2	SHLD A366	OG CDU ERROR SIG RET
	AA578	56TB2-S 2	56TB2-R 2	OG CDU ERROR SIG RET
	A 89B	56TB2-S 3	SHLD A 89	OG CDU ERROR SIG RET
	A 338B	56TB2-S 3	SHLD A338	OG CDU ERROR SIG RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 265R	56TB2-K 2	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS
*	A 301R	56TB2-K 2	56P08-J	800 CPS 28 V 1 PCT HI OPTICS
*	A 76W	56TB2-K 3	56J02- 32	MG CDU MDA OUTPUT
*	AA203R	56TB2-K 3	56J16-P3	MG CDU MDA OUTPUT
	AA555	56TB2-K 4	56TB2-L 4	0 VDC IMU
*	A 52R	56TB2-K 4	56J01- 43	0 VDC IMU
*	A 76R	56TB2-K 4	56J02- 43	0 VDC IMU
*	A 97R	56TB2-K 4	56J03- 43	0 VDC IMU
*	AA223	56TB2-K 4	56J16-P2	0 VDC IMU
*	A 97W	56TB2-K 5	56J03- 32	OG CDU MDA OUTPUT
*	AA215R	56TB2-K 5	56J16-N2	OG CDU MDA OUTPUT
*	A 97L	56TB2-K 6	56J03- 31	OG CDU MDA OUTPUT
*	AA215W	56TB2-K 6	56J16-N1	OG CDU MDA OUTPUT
*	A 102	56TB2-K 8	56J03- 30	+28 VDC IMU FOR OG MDA
*	AA212	56TB2-K 8	56J16-T2	+28 VDC IMU FOR OG MDA
*	A 321W	56TB2-L 1	56P09- 55	800 CPS 28 V 1 PCT LO OPTICS
*	A 416W	56TB2-L 1	56J09- 69	800 CPS 28 V 1 PCT LO OPTICS
*	A 558W	56TB2-L 1	56E 13	800 CPS 28 V 1 PCT LO OPTICS
*	AA224R	56TB2-L 1	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
*	AA556	56TB2-L 1	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
	AA556	56TB2-L 2	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 265W	56TB2-L 2	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
*	A 301W	56TB2-L 2	56P08-K	800 CPS 28 V 1 PCT LO OPTICS
*	A 76L	56TB2-L 3	56J02- 31	MG CDU MDA OUTPUT
*	AA203W	56TB2-L 3	56J16-R3	MG CDU MDA OUTPUT
*	A 20	56TB2-L 4	56P01- 78	0 VDC IMU
*	A 169	56TB2-L 4	56J06- 78	0 VDC IMU
*	AA555	56TB2-L 4	56TB2-K 4	0 VDC IMU
*	A 52L	56TB2-L 5	56J01- 31	IG CDU MDA OUTPUT
*	AA198W	56TB2-L 5	56J16-R1	IG CDU MDA OUTPUT
*	A 52W	56TB2-L 6	56J01- 32	IG CDU MDA OUTPUT
*	AA198R	56TB2-L 6	56J16-P1	IG CDU MDA OUTPUT
	AA581	56TB2-M 1	56TB2-M 2	0 VDC IMU
*	A 546	56TB2-M 1	56P12-F	0 VDC IMU
*	AA 43	56TB2-M 1	56J11-R3	0 VDC IMU
*	AA461	56TB2-M 1	56J20-H2	0 VDC IMU
	AA582	56TB2-M 2	56TB2-M 3	0 VDC IMU
*	AA 44	56TB2-M 2	56J11-R1	0 VDC IMU
*	AA581	56TB2-M 2	56TB2-M 1	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA571A	56TB2-S 3	SHLD AA571	OG CDU ERROR SIG RET
*	AA615	56TB2-S 3	56TB2-R 3	OG CDU ERROR SIG RET
*	A 185	56TB2-S 4	56J08- 93	STEP-DOWN-R
*	A 411	56TB2-S 4	56J09- 93	STEP-DOWN-R
*	A 186	56TB2-S 5	56J08- 79	STEP-DOWN-C
*	A 412	56TB2-S 5	56J09- 79	STEP-DOWN-C
*	A 183	56TB2-S 6	56J08-106	STEP-UP-R
*	A 413	56TB2-S 6	56J09-106	STEP-UP-R
*	A 184	56TB2-S 7	56J08- 78	STEP-UP-C
*	A 414	56TB2-S 7	56J09- 78	STEP-UP-C
*	A 202	56TB2-S 8	56J08- 18	GIMBAL LOCK LIGHT HI
*	A 455	56TB2-S 8	56P10- 24	GIMBAL LOCK LIGHT HI
*	A 101	56TB2-T 1	56J03- 89	OG CDU 16X RSVR LOAD
*	AA219	56TB2-T 1	56J16-F5	OG CDU 16X RSVR LOAD
	AA621	56TB2-T 2	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 299W	56TB2-T 2	56P08-B	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 599W	56TB2-T 2	56J04- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 600W	56TB2-T 2	56J05- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	AA225R	56TB2-T 2	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 322W	56TB2-T 3	56P09- 57	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 598W	56TB2-T 3	56P05-E	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	AA621	56TB2-T 3	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 219W	56TB2-T 5	56P02-H	COS AMG 16X S1
*	AA231R	56TB2-T 5	56J16-H3	COS AMG 16X S1
*	A 51L	56TB2-T 6	56J01-105	IG CDU MDA SLEW SIG
*	AA197W	56TB2-T 6	56J16-A2	IG CDU MDA SLEW SIG
	A 51B	56TB2-T 7	SHLD A 51	IG CDU MDA INPUT RET
*	A 51W	56TB2-T 7	56J01- 92	IG CDU MDA INPUT RET
*	AA197L	56TB2-T 7	56J16-B1	IG CDU MDA INPUT RET
*	A 88R	56TB2-T 8	56J03- 21	SIN AOG 1X TO CDU
*	AA205L	56TB2-T 8	56J16-B9	SIN AOG 1X TO CDU
*	A 597R	56TB2-U 1	56J09- 49	TRUNNION CDU MOTOR EXC
*	A 600R	56TB2-U 1	56J05- 3	TRUNNION CDU MOTOR EXC
*	A 597L	56TB2-U 2	56J09- 82	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
*	A 598R	56TB2-U 2	56P05-D	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
*	A 299R	56TB2-U 3	56P08-A	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 322R	56TB2-U 3	56P09- 56	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 597K	56TB2-U 3	56J09- 96	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	AA225W	56TB2-U 3	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS

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REV LTR D
SHEET 96

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA490R	56J21-170	56E 29	COMPUTER 25.6 KPPS SYNC RET	153B
*	A 512	56J21-173	56J10- 56	GND	239
*	A 513	56J21-174	56J10- 55	+3 V B	240
*	A 495R	56J21-175	56J10- 74	OUT 0 2	215A
*	A 495W	56J21-176	56E 22		215B
*	A 501R	56J21-177	56J10- 62	OUT 0 9	222A
*	A 501W	56J21-178	56E 22		222B
*	A 485R	56J21-179	56J10- 40	ALARM 1	229A
*	A 485W	56J21-180	56E 23		229B
*	A 491R	56J21-181	56J10- 53	ALARM 8	236A
*	A 491W	56J21-182	56E 24		236B
*	A 514R	56J21-183	56J10- 35	KEY CODE 2	202A
*	A 514W	56J21-184	56E 25		202B
*	A 515R	56J21-185	56J10- 47	OR OF C1 THRU C33	210A
*	A 515W	56J21-186	56E 25		210B
	A 568	56J21-187	56E 64	GROUP 3 SHIELD	250
	AA488W	56J21-188	56J15-A3	MANUAL CDU MODE INDICATION TO AGC	160A
	AA488R	56J21-189	56E 59		160B
	AA499W	56J21-190	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA499R	56J21-191	56E 51	TRUNNION CDU DAC LO	109B
	AA478R	56J21-192	56J15-C6	MG ENCODER - DELTA THETA	123A
	AA478W	56J21-193	56E 40	MG DAC MDA SIG LO	123B
	AA469R	56J21-194	56E 36	COMPUTER RET	134A
	AA469W	56J21-195	56J15-L6	+ DELTA V Y	134B
*	AA530	56J21-196	56TB3-G19	AGC TEMP MONITOR NO 1	171
	AA497R	56J21-197	56J18-L3	TRUNNION CDU - DELTA THETA COMMAND	115A
	AA497W	56J21-198	56E 50	TRUNNION CDU DAC LO	115B
	AA482R	56J21-199	56J15-C5	IG CDU - DELTA THETA COMMAND	129A
	AA482W	56J21-200	56E 39	IG DAC MDA SIG LO	129B
*	AA132W	56J21-201	56E 33	0 VDC IMU	145A
*	AA132R	56J21-202	56J14-D4	- DY GYRO RATE	145B
	AA503R	56J21-203	56J11-L6	COMPUTER 3200 PPS OUT OF PHASE SYNC	152A
	AA503W	56J21-204	56E 28	COMPUTER 3200 PPS SYNC RET	152B
*	AA531	56J21-207	56TB3-G22	+28 VDC AGC BUSS B	168
*	AA532	56J21-208	56TB3-F20	0 VDC AGC	170
*	A 520	56J21-209	56J10- 75	SPARE	247
*	A 494R	56J21-210	56J10- 73	OUT 0 1	214A
*	A 494W	56J21-211	56E 22		214B
*	A 500R	56J21-212	56J10- 61	OUT 0 8	221A

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 500W	56J21-213	56E 22		221B
*	A 484R	56J21-214	56J10- 18	OUT 0 15	228A
*	A 484W	56J21-215	56E 23		228B
*	A 490R	56J21-216	56J10- 43	ALARM 7	235A
*	A 490W	56J21-217	56E 24		235B
*	A 516R	56J21-218	56J10- 34	KEY CODE 1	201A
*	A 516W	56J21-219	56E 25		201B
*	A 517R	56J21-220	56J10- 48	ERROR RESET	208A
*	A 517W	56J21-221	56E 25		208B
*	A 15W	56J21-222	56P01- 49	FINE ALIGN MODE INDICATION TO AGC	161A
*	A 15R	56J21-223	56E 61		161B
*	A 27W	56J21-224	56P01- 76	ATTIT CONT MODE INDICATION TO AGC	162A
*	A 27R	56J21-225	56E 61		162B
*	A 16W	56J21-226	56P01- 39	ENTRY MODE INDICATION TO AGC	163A
*	A 16R	56J21-227	56E 61		163B
*	A 156W	56J21-228	56J06- 69	TRANSFER SWITCH INDICATION TO AGC	164A
*	A 156R	56J21-229	56E 55		164B
	AA498W	56J21-230	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA	108A
	AA498R	56J21-231	56E 51	TRUNNION CDU DAC LO	108B
	AA477W	56J21-232	56J15-B6	MG ENCODER + DELTA THETA	122A
	AA477R	56J21-233	56E 40	MG DAC MDA SIG LO	122B
*	AA423	56J21-234	56J20-H4	+28 VDC AGC	166
	AA496W	56J21-235	56J18-K3	TRUNNION CDU + DELTA THETA COMMAND	114A
	AA496R	56J21-236	56E 50	TRUNNION CDU DAC LO	114B
	AA481W	56J21-237	56J15-B5	IG CDU + DELTA THETA COMMAND	128A
	AA481R	56J21-238	56E 39	IG DAC MDA SIG LO	128B
*	AA131W	56J21-239	56E 33	0 VDC IMU	144A
*	AA131R	56J21-240	56J14-D3	+ DY GYRO RATE	144B
	AA504R	56J21-241	56J11-M6	COMPUTER 3200 PPS IN PHASE SYNC	151A
	AA504W	56J21-242	56E 28	COMPUTER 3200 PPS SYNC RET	151B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA493R	56J21-130	56J18-L2	SHAFT CDU - DELTA THETA COMMAND	117A
	AA493W	56J21-131	56E 52	SHAFT CDU DAC LO	117B
	AA501W	56J21-132	56J13-N5	PIPA INTERROGATE PULSE	139A
	AA501R	56J21-133	56E 34	0 VDC IMU	139B
*	AA135W	56J21-134	56E 33	0 VDC IMU	147A
*	AA135R	56J21-135	56J14-D6	- DZ GYRO RATE	147B
	AA491R	56J21-136	56J12-G2	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA491W	56J21-137	56E 29	COMPUTER 25.6 KPPS SYNC RET	154B
*	AA527	56J21-139	56TB3-G22	+28 VDC AGC BUSS B	168
*	AA528	56J21-140	56TB3-F20	0 VDC AGC	170
*	A 469	56J21-141	56J10- 72	SPARE	213
*	A 496R	56J21-142	56J10- 60	OUT 0 3	216A
*	A 496W	56J21-143	56E 22		216B
*	A 502R	56J21-144	56J10- 63	OUT 0 10	223A
*	A 502W	56J21-145	56E 22		223B
*	A 486R	56J21-146	56J10- 41	ALARM 2	230A
*	A 486W	56J21-147	56E 23		230B
*	A 492R	56J21-148	56J10- 51	ALARM 9	237A
*	A 492W	56J21-149	56E 24		237B
*	A 472R	56J21-150	56J10- 36	KEY CODE 3	203A
*	A 472W	56J21-151	56E 25		203B
	AA489W	56J21-152	56J16-A7	ZERO ENCODER MODE INDICATION TO AGC	158A
	AA489R	56J21-153	56E 60		158B
*	A 14W	56J21-154	56P01- 59	COARSE ALIGN MODE INDICATION TO AGC	159A
*	A 14R	56J21-155	56E 61		159B
	AA494W	56J21-156	56J18-L1	SHAFT CDU ENCODER + DELTA THETA	110A
	AA494R	56J21-157	56E 53	SHAFT CDU DAC LO	110B
*	AA 85W	56J21-158	56J12-D5	CDU FAIL	124A
*	AA 85R	56J21-159	56J12-F5	CDU FAIL RET	124B
	AA470R	56J21-160	56E 36	COMPUTER RET	135A
	AA470W	56J21-161	56J15-K6	- DELTA V Y	135B
*	AA529	56J21-162	56TB3-F19	AGC TEMP MONITOR NO 2	172
	AA492W	56J21-163	56J18-K2	SHAFT CDU + DELTA THETA COMMAND	116A
	AA492R	56J21-164	56E 52	SHAFT CDU DAC LO	116B
	AA483W	56J21-165	56J15-B7	MG CDU + DELTA THETA COMMAND	130A
	AA483R	56J21-166	56E 41	MG DAC MDA SIG LO	130B
*	AA134R	56J21-167	56E 33	0 VDC IMU	146A
*	AA134W	56J21-168	56J14-D5	+ DZ GYRO RATE	146B
	AA490W	56J21-169	56J12-G1	COMPUTER 25.6 KPPS IN PHASE SYNC	153A

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA287W	56J22- 1	56J17-A3	ROLL ERROR BODY OFFSET AXIS HI
	AA287B	56J22- 2	SHLD AA287	
*	AA244W	56J22- 3	56J17-A4	ROLL ERROR BODY AXIS HI
*	AA244R	56J22- 4	56J17-B4	ROLL ERROR BODY AXIS LO
	AA245B	56J22- 5	SHLD AA245	
*	AA245W	56J22- 6	56J17-C4	YAW ERROR BODY AXIS HI
	AA246B	56J22- 8	SHLD AA246	
*	AA288R	56J22- 10	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA288B	56J22- 11	SHLD AA288	
*	A 197	56J22- 37	56J08- 54	MASTER ALARM LIGHT LO
*	A 196	56J22- 38	56J08- 53	MASTER ALARM LIGHT HI
*	AA287R	56J22- 39	56J17-B3	ROLL ERROR BODY OFFSET AXIS LO
	AA244B	56J22- 41	SHLD AA244	
*	AA245R	56J22- 43	56J17-D4	YAW ERROR BODY AXIS LO
*	AA246W	56J22- 45	56J17-C3	YAW ERROR BODY OFFSET AXIS HI
*	AA246R	56J22- 46	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	AA288W	56J22- 48	56J17-D1	PITCH ERROR BODY AND BODY OFFSET AXIS HI
*	A 207	56J22- 71	56J08- 32	MASTER WARNING LIGHT LO
*	A 206	56J22- 72	56J08- 43	MASTER WARNING LIGHT HI
	AA505R	56J22-107	56TB2-U 7	SIN AOG 1X S2
	AA507R	56J22-111	56TB3-C14	SIN AMG 1X
	AA508W	56J22-113	56TB3-N20	COS AMG 1X S3
	AA508R	56J22-114	56TB3-N21	COS AMG 1X S1
	AA509W	56J22-116	56TB3-D13	SIN AIG 1X RET
*	AA517R	56J22-120	56TB3-R21	800 CPS 28 V 1 PCT LO IMU
	AA505W	56J22-139	56TB2-U 8	SIN AOG 1X S4
	AA506W	56J22-141	56TB2-N 8	COS AOG 1X S3
	AA506R	56J22-142	56TB2-N 7	COS AOG 1X S1
	AA507W	56J22-144	56TB3-C13	SIN AMG 1X RET
	AA509R	56J22-148	56TB3-D14	SIN AIG 1X
	AA510W	56J22-150	56TB3-F13	COS AIG 1X RET
	AA510R	56J22-151	56TB3-F14	COS AIG 1X
*	AA517W	56J22-153	56TB3-R22	800 CPS 28 V 1 PCT HI IMU
*	A 461	56J22-171	56P10- 8	MAIN PANEL GIMBAL LOCK LIGHT
*	AA518	56J22-190	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
*	A 389L	56J22-192	56J09- 17	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT
*	A 389W	56J22-193	56J09- 3	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 387R	56J22-195	56J09- 18	PITCH ATTIT IMPULSE CONTR INPUT
*	A 388L	56J22-197	56J09- 6	YAW ATTIT IMPULSE CONTR OUTPUT LEFT

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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 359B	56TB2-V 8	SHLD A359	0 VDC IMU
	AA505B	56TB2-V 8	SHLD AA505	0 VDC IMU
*	AA599	56TB2-V 8	56TB2-V 6	0 VDC IMU
*	A 55	56TB2-W 1	56J01- 34	IG CDU 1X RSVR LOAD S1
*	AA216	56TB2-W 1	56J16-F2	IG CDU 1X RSVR LOAD
*	A 91W	56TB2-W 2	56J03- 87	SIN AOG 16X S4
*	A 218W	56TB2-W 2	56P02-F	SIN AOG 16X S4
*	AA213R	56TB2-W 2	56J16-D9	SIN AOG 16X S4
*	A 217W	56TB2-W 3	56P02-D	COS AOG 16X S1
*	AA209R	56TB2-W 3	56J16-D7	COS AOG 16X S1
*	A 90R	56TB2-W 4	56J03-100	COS AOG 16X S3
*	A 217R	56TB2-W 4	56P02-C	COS AOG 16X S3
*	AA209W	56TB2-W 4	56J16-F7	COS AOG 16X S3
*	A 75R	56TB2-W 5	56J02-106	MG CDU MDA TACH SIG
*	AA202R	56TB2-W 5	56J16-A3	MG CDU MDA TACH SIG
*	A 43R	56TB2-W 6	56J01-100	COS AIG 16X S3
*	A 225R	56TB2-W 6	56P02-W	COS AIG 16X S3
*	AA230W	56TB2-W 6	56J16-G1	COS AIG 16X S3
*	A 43W	56TB2-W 7	56J01- 86	COS AIG 16X TO CDU
*	AA230L	56TB2-W 7	56J16-G2	COS AIG 16X TO CDU
*	A 79	56TB2-X 1	56J02- 34	MG CDU 1X RSVR LOAD
*	AA217	56TB2-X 1	56J16-F4	MG CDU 1X RSVR LOAD
*	A 91R	56TB2-X 2	56J03-101	SIN AOG 16X TO CDU
*	AA213L	56TB2-X 2	56J16-F9	SIN AOG 16X TO CDU
*	A 218R	56TB2-X 3	56P02-E	SIN AOG 16X S2
*	AA213W	56TB2-X 3	56J16-D8	SIN AOG 16X S2
*	A 90W	56TB2-X 4	56J03- 86	COS AOG 16X TO CDU
*	AA209L	56TB2-X 4	56J16-F8	COS AOG 16X TO CDU
*	A 75L	56TB2-X 5	56J02-105	MG CDU MDA SLEW SIG
*	AA202W	56TB2-X 5	56J16-A4	MG CDU MDA SLEW SIG
	A 75B	56TB2-X 6	SHLD A 75	MG CDU MDA INPUT RET
*	A 75W	56TB2-X 6	56J02- 92	MG CDU MDA INPUT RET
*	AA202L	56TB2-X 6	56J16-B3	MG CDU MDA INPUT RET
*	A 225W	56TB2-X 7	56P02-X	COS AIG 16X S1
*	AA230R	56TB2-X 7	56J16-H1	COS AIG 16X S1

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 190	56TB3-B 2	56J08- 73	ACCEL FAIL LIGHT HI	
*	A 333	56TB3-B 2	56P09- 49	ACCEL FAIL LIGHT HI	
*	A 474L	56TB3-B 2	56J10- 5	ACCEL FAIL LIGHT HI	303
*	A 200	56TB3-B 3	56J08- 72	CDU FAIL LIGHT HI	
*	A 335	56TB3-B 3	56P09- 47	CDU FAIL LIGHT HI	
*	A 474R	56TB3-B 3	56J10- 4	CDU FAIL LIGHT HI	302
*	A 203	56TB3-B 4	56J08- 41	ZERO ENCODER LIGHT HI	
*	A 346	56TB3-B 4	56P09- 35	ZERO ENCODER LIGHT HI	
*	A 474W	56TB3-B 4	56J10- 3	ZERO ENCODER LIGHT HI	301
*	A 209W	56TB3-B 6	56J08- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 448W	56TB3-B 6	56J09- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 374R	56TB3-B 7	56P09- 89	DIRECT SHAFT CONTROLLER HI (TEST)	
*	AA342R	56TB3-B 7	56J18-N4	DIRECT SHAFT CONTROLLER HI (TEST)	
*	A 374W	56TB3-B 8	56P09-102	DIRECT SHAFT CONTROLLER LO (TEST)	
*	AA342W	56TB3-B 8	56J18-M4	DIRECT SHAFT CONTROLLER LO (TEST)	
*	A 377R	56TB3-B 9	56P09-104	SXT SHAFT MDA OUTPUT HI (TEST)	
*	AA392R	56TB3-B 9	56J19-L3	SXT SHAFT MDA OUTPUT HI (TEST)	
*	A 377W	56TB3-B10	56P09-105	SXT SHAFT MDA OUTPUT LO (TEST)	
*	AA392W	56TB3-B10	56J19-K3	SXT SHAFT MDA OUTPUT LO (TEST)	
*	A 394	56TB3-B11	56J09- 72	ZERO OPTICS RELAY CONTROL	
*	AA337	56TB3-B11	56J18-R4	ZERO OPTICS RELAY CONTROL	
*	A 182W	56TB3-B12	56J08- 81	400 CPS 26 V SLEW	
*	A 409W	56TB3-B12	56J09- 81	400 CPS 26 V SLEW	
*	A 182R	56TB3-B13	56J08- 68	400 CPS 26 V MDV RSVR EXC	
*	A 409R	56TB3-B13	56J09- 68	400 CPS 26 V MDV RSVR EXC	
*	A 199	56TB3-B14	56J08- 95	400 CPS 26 V LO	
*	A 460	56TB3-B14	56P10- 49	400 CPS 26 V LO	
	AA514	56TB3-B15	56TB3-D15	0 VDC OPTICS	
*	AA537	56TB3-B15	56TB3-T15	0 VDC OPTICS	
*	AA538	56TB3-B15	56TB3-G 9	0 VDC OPTICS	
	A 548	56TB3-B20	56E 12	STRUCTURE GND	
	AA613	56TB3-B20	56TB3-B21	STRUCTURE GND	
	AA619	56TB3-B20	56E 68	STRUCTURE GND	
	AA620	56TB3-B20	56E 69	STRUCTURE GND	
*	A 33	56TB3-B20	56P01- 84	STRUCTURE GND	
	AA614	56TB3-B21	56TB3-F21	STRUCTURE GND	
*	A 178	56TB3-B21	56J06- 91	STRUCTURE GND	
*	A 215	56TB3-B21	56J08- 29	STRUCTURE GND	
*	AA613	56TB3-B21	56TB3-B20	STRUCTURE GND	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 67W	56TB2-U 4	56J02- 86	COS AMG 16X TO CDU
*	AA231L	56TB2-U 4	56J16-G4	COS AMG 16X TO CDU
*	A 67R	56TB2-U 5	56J02-100	COS AMG 16X S3
*	A 219R	56TB2-U 5	56P02-G	COS AMG 16X S3
*	AA231W	56TB2-U 5	56J16-G3	COS AMG 16X S3
*	A 51R	56TB2-U 6	56J01-106	IG CDU MDA TACH SIG
*	AA197R	56TB2-U 6	56J16-A1	IG CDU MDA TACH SIG
*	A 233W	56TB2-U 7	56P03-G	SIN AOG 1X S2
*	A 359R	56TB2-U 7	56P09- 16	SIN AOG 1X S2
*	AA205W	56TB2-U 7	56J16-A8	SIN AOG 1X S2
*	AA505R	56TB2-U 7	56J22-107	SIN AOG 1X S2
*	A 88W	56TB2-U 8	56J03- 7	SIN AOG 1X S4
*	A 233R	56TB2-U 8	56P03-F	SIN AOG 1X S4
*	A 359W	56TB2-U 8	56P09- 17	SIN AOG 1X S4
*	AA205R	56TB2-U 8	56J16-A9	SIN AOG 1X S4
*	AA505W	56TB2-U 8	56J22-139	SIN AOG 1X S4
*	A 597W	56TB2-V 1	56J09- 38	SHAFT CDU MOTOR EXC
*	A 599R	56TB2-V 1	56J04- 3	SHAFT CDU MOTOR EXC
	A 91B	56TB2-V 2	SHLD A 91	0 VDC IMU
	A 218B	56TB2-V 2	SHLD A218	0 VDC IMU
	AA540	56TB2-V 2	56TB2-V 3	0 VDC IMU
*	AA590	56TB2-V 2	56TB1-D 7	0 VDC IMU
	A 217B	56TB2-V 3	SHLD A217	0 VDC IMU
	AA596	56TB2-V 3	56TB2-V 4	0 VDC IMU
*	AA540	56TB2-V 3	56TB2-V 2	0 VDC IMU
*	AA594	56TB2-V 3	56TB3-S 2	0 VDC IMU
	A 90B	56TB2-V 4	SHLD A 90	0 VDC IMU
	AA597	56TB2-V 4	56TB2-V 5	0 VDC IMU
*	AA596	56TB2-V 4	56TB2-V 3	0 VDC IMU
	A 67B	56TB2-V 5	SHLD A 67	0 VDC IMU
	A 219B	56TB2-V 5	SHLD A219	0 VDC IMU
	AA598	56TB2-V 5	56TB2-V 6	0 VDC IMU
*	AA597	56TB2-V 5	56TB2-V 4	0 VDC IMU
	A 43B	56TB2-V 6	SHLD A 43	0 VDC IMU
	A 225B	56TB2-V 6	SHLD A225	0 VDC IMU
	AA599	56TB2-V 6	56TB2-V 8	0 VDC IMU
*	AA598	56TB2-V 6	56TB2-V 5	0 VDC IMU
	A 88B	56TB2-V 8	SHLD A 88	0 VDC IMU
	A 233B	56TB2-V 8	SHLD A233	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 396	56TB3-C 1	56J09- 98	ACCEL BRIDGE AMP PIN 6
*	AA257	56TB3-C 1	56J17-F7	ACCEL BRIDGE AMP PIN 6
*	A 281R	56TB3-C 2	56P06-F*	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA250R	56TB3-C 2	56J17-P4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 281W	56TB3-C 3	56P06-G*	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 320W	56TB3-C 3	56P09- 34	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 567W	56TB3-C 3	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	AA412R	56TB3-C 3	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 370	56TB3-C 4	56P09- 73	BLOWER CURRENT SENSOR (TELEMETERY)
*	AA271	56TB3-C 4	56J17-F6	BLOWER CURRENT SENSOR (TELEMETERY)
*	A 368	56TB3-C 5	56P09- 85	IRIG TEMP (TELEMETRY)
*	AA273	56TB3-C 5	56J17-F4	IRIG TEMP (TELEMETRY)
*	A 209R	56TB3-C 6	56J08- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 448R	56TB3-C 6	56J09- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 373W	56TB3-C 7	56P09-101	DIRECT TRUNNION CONTROLLER LO (TEST)
*	AA340W	56TB3-C 7	56J18-M1	DIRECT TRUNNION CONTROLLER LO (TEST)
*	A 383W	56TB3-C 8	56P09- 99	TRUNNION CDU MDA LO (TEST)
*	AA341W	56TB3-C 8	56J18-M3	TRUNNION CDU MDA LO (TEST)
*	A 375R	56TB3-C 9	56P09- 90	SXT TRUNNION MDA OUTPUT HI (TEST)
*	AA391R	56TB3-C 9	56J19-L1	SXT TRUNNION MDA OUTPUT HI (TEST)
*	A 375W	56TB3-C10	56P09-103	SXT TRUNNION MDA OUTPUT LO (TEST)
*	AA391W	56TB3-C10	56J19-K1	SXT TRUNNION MDA OUTPUT LO (TEST)
*	A 122W	56TB3-C11	56J04- 32	SHAFT CDU MOTOR CONTROL WINDING
*	AA321	56TB3-C11	56J18-R2	SHAFT CDU MOTOR CONTROL WINDING
*	A 145W	56TB3-C12	56J05- 32	TRUNNION CDU MOTOR CONTROL WINDING
*	AA320	56TB3-C12	56J18-R1	TRUNNION CDU MOTOR CONTROL WINDING
*	A 65R	56TB3-C13	56J02- 21	SIN AMG 1X RET
*	A 222W	56TB3-C13	56P02-N	SIN AMG 1X RET S2
*	A 357R	56TB3-C13	56P09- 15	SIN AMG 1X RET
*	AA507W	56TB3-C13	56J22-144	SIN AMG 1X RET
*	A 65W	56TB3-C14	56J02- 7	SIN AMG 1X
*	A 222R	56TB3-C14	56P02-P	SIN AMG 1X S4
*	A 357W	56TB3-C14	56P09- 29	SIN AMG 1X
*	AA507R	56TB3-C14	56J22-111	SIN AMG 1X
	AA609	56TB3-C15	56TB3-D15	0 VDC OPTICS
*	A 540	56TB3-C15	56P12-G	0 VDC OPTICS
*	A 595	56TB3-C15	56TB3-K20	0 VDC OPTICS
*	A 596	56TB3-C15	56TB3-K22	0 VDC OPTICS
*	AA566	56TB3-C15	56TB3-K21	0 VDC OPTICS

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014607
SCALE-NONE
REV LTR D
SHEET 100

MIL 2084 4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 150R	56P01- 1	56J06- 1	PITCH ATTITUDE ERROR METER +	
*	A 150W	56P01- 2	56J06- 2	PITCH ATTITUDE ERROR METER -	
	A 26	56P01- 4	56TB1-D 6	COARSE ALIGN RELAY CONTROL	
	A 10	56P01- 5	56TB2-C 1	FINE ALIGN RELAY CONTROL	
*	A 161	56P01- 6	56J06- 6	ENTRY RELAY CONTROL RESET	
	A 21	56P01- 7	56TB3-S21	+28 VDC IMU	
*	A 160	56P01- 9	56J06- 9	MODE SWITCH INTERLOCK	
	A 19W	56P01- 10	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU	
	A 19R	56P01- 11	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU	
	A 8	56P01- 12	56TB2-B 2	ZERO ENCODER RELAY CONTROL	
	A 5	56P01- 13	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC	
*	A 151R	56P01- 14	56J06- 14	YAW ATTITUDE ERROR METER +	
*	A 151W	56P01- 15	56J06- 15	YAW ATTITUDE ERROR METER -	
*	A 157	56P01- 18	56J06- 18	MODE RELAY COMMON TO D AND C ELECT	
*	A 175	56P01- 22	56J06- 22	ATTITUDE CONTROL MODE LIGHT	
*	A 165	56P01- 23	56J06- 23	FINE ALIGN RELAY CONTROL	
	A 12	56P01- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL	
*	A 167	56P01- 25	56J06- 25	ENTRY RELAY CONTROL	
	A 22	56P01- 26	56TB1-U 2	IMU DELAY LIGHT HI	
	A 6	56P01- 27	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC	
*	A 152W	56P01- 28	56J06- 28	ROLL ATTITUDE ERROR METER -	
*	A 152R	56P01- 29	56J06- 29	ROLL ATTITUDE ERROR METER +	
*	A 162	56P01- 34	56J06- 34	ZERO ENCODER RELAY CONTROL	
*	A 163	56P01- 35	56J06- 35	COARSE ALIGN RELAY CONTROL	
*	A 164	56P01- 36	56J06- 36	CDU MANUAL RELAY CONTROL	
	A 30	56P01- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL	
	A 3	56P01- 38	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC	
	A 16W	56P01- 39	56J21-226	ENTRY MODE INDICATION TO AGC	163A
	A 31	56P01- 45	56TB3-M 2	IMU TD RELAY C	
*	A 177	56P01- 46	56J06- 46	ATTITUDE CONTROL MODE INTERLOCK	
	A 4	56P01- 48	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC	
	A 15W	56P01- 49	56J21-222	FINE ALIGN MODE INDICATION TO AGC	161A
	A 32	56P01- 55	56TB3-L 2	IMU TD RELAY NO	
*	A 170	56P01- 56	56J06- 56	MANUAL ALIGN	
	A 9	56P01- 57	56TB2-R 4	ENTRY RELAY CONTROL	
	A 7	56P01- 58	56TB1-K 6	ENTRY MODE COMMAND FROM AGC	
	A 14W	56P01- 59	56J21-154	COARSE ALIGN MODE INDICATION TO AGC	159A
	A 2	56P01- 65	56TB3-L 1	IRIG TEMP GAIN SWITCH NC	
	A 13W	56P01- 68	56TB2-D 2	AGC COM	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 11	56P01- 69	56TB2-B 1	LOCK CDU RELAY CONTROL	
	A 24R	56P01- 70	56TB2-H 2	IG CDU 1X ERROR SIG	
	A 24W	56P01- 71	56TB2-G 2	IG CDU ERROR SIG RET	
	A 27W	56P01- 76	56J21-224	ATTIT CONT MODE INDICATION TO AGC	162A
	A 20	56P01- 78	56TB2-L 4	0 VDC IMU	
*	A 176	56P01- 79	56J06- 79	ENTRY MODE LIGHT	
	A 1R	56P01- 80	56TB2-A 2	PANEL BRIGHTNESS CONTROL	
	A 25R	56P01- 82	56TB2-H 7	MG CDU 1X ERROR SIG	
	A 25W	56P01- 83	56TB2-G 7	MG CDU ERROR SIG RET	
	A 33	56P01- 84	56TB3-B20	STRUCTURE GND	
	A 28	56P01- 88	56TB3-F 3	CONDITION LAMP TEST	
	A 29	56P01- 89	56TB3-M21	+28 VDC MDV	
	A 17K	56P01- 90	56TB1-M 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
	A 18	56P01- 91	56TB1-K 1	MODE LAMP TEST PWR	
*	A 172	56P01- 92	56J06- 92	COARSE ALIGN MODE LIGHT	
*	A 168	56P01- 93	56J06- 93	MODE RELAY COMMON	
*	A 174	56P01- 94	56J06- 94	FINE ALIGN MODE LIGHT	
	A 1W	56P01- 95	56TB2-A 1	PANEL BRIGHTNESS CONTROL	
	A 23R	56P01- 96	56TB2-N 2	OG CDU 1X ERROR SIG	
	A 23W	56P01- 97	56TB2-R 2	OG CDU ERROR SIG RET	
	A 17R	56P01-103	56TB1-R 1	400 CPS VAR ILLUM PWR	
*	A 171	56P01-104	56J06-104	ZERO ENCODER MODE LIGHT	
*	A 173	56P01-105	56J06-105	CDU MANUAL MODE LIGHT	
	A 17L	56P01-106	56TB1-N 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
	A 17W	56P01-108	56TB1-R 1	400 CPS VAR ILLUM PWR	

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SHEET 67

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 388W	56J22-198	56J09- 20	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 393W	56J22-200	56J09- 40	0 VDC FROM NAA
*	AA292	56J22-206	56J17-M3	0 VDC SPACECRAFT
*	AA175	56J22-227	56J15-S3	LOCK CDU RELAY CONTROL
*	AA220	56J22-228	56J16-L1	FINE ALIGN RELAY CONTROL
*	A 389R	56J22-230	56J09- 16	ROLL ATTIT IMPULSE CONTR INPUT
*	A 387L	56J22-232	56J09- 5	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN
*	A 387W	56J22-233	56J09- 4	PITCH ATTIT IMPULSE CONTR OUTPUT UP
*	A 388R	56J22-235	56J09- 7	YAW ATTIT IMPULSE CONTR INPUT
*	A 393R	56J22-237	56J09- 41	+28 VDC FROM NAA
*	A 393L	56J22-238	56J09- 50	ATTITUDE DISABLE SIG TO NAA
*	AA293	56J22-243	56J17-L3	IMU TEMP LIGHT (MAIN PANEL)
*	AA 74	56J22-244	56J12-G3	ERROR DETECT LIGHT MAIN PANEL

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 216R	56P02-A	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
A 227R	56P02-A*	56TB3-F14	COS AIG 1X S3
A 216W	56P02-B	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
A 227W	56P02-B*	56TB3-F13	COS AIG 1X RET S1
A 217R	56P02-C	56TB2-W 4	COS AOG 16X S3
A 217W	56P02-D	56TB2-W 3	COS AOG 16X S1
A 218R	56P02-E	56TB2-X 3	SIN AOG 16X S2
A 218W	56P02-F	56TB2-W 2	SIN AOG 16X S4
A 228R	56P02-F*	56TB3-D13	SIN AIG 1X RET S2
A 219R	56P02-G	56TB2-U 5	COS AMG 16X S3
A 228W	56P02-G*	56TB3-D14	SIN AIG 1X S4
A 219W	56P02-H	56TB2-T 5	COS AMG 16X S1
A 220R	56P02-J	56TB2-A 7	SIN AMG 16X S2
A 220W	56P02-K	56TB2-B 7	SIN AMG 16X S4
A 221R	56P02-L	56TB3-N20	COS AMG 1X S3
A 221W	56P02-M	56TB3-N21	COS AMG 1X S1
A 222W	56P02-N	56TB3-C13	SIN AMG 1X RET S2
A 222R	56P02-P	56TB3-C14	SIN AMG 1X S4
A 223R	56P02-R	56TB1-D 2	3200 CPS 2 V HI
A 223W	56P02-S	56TB1-C 2	3200 CPS 2 V LO
A 224R	56P02-T	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
A 224W	56P02-U	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
A 225R	56P02-W	56TB2-W 6	COS AIG 16X S3
A 225W	56P02-X	56TB2-X 7	COS AIG 16X S1
A 226R	56P02-Y	56TB2-A 8	SIN AIG 16X S2
A 226W	56P02-Z	56TB2-B 8	SIN AIG 16X S4

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SHEET 68

INCHES
0 1 2
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 122L	56TB3-D11	56J04- 31	SHAFT CDU MOTOR CONTROL WINDING	
*	AA322	56TB3-D11	56J18-P2	SHAFT CDU MOTOR CONTROL WINDING	
*	A 145L	56TB3-D12	56J05- 31	TRUNNION CDU MOTOR CONTROL WINDING	
*	AA319	56TB3-D12	56J18-P1	TRUNNION CDU MOTOR CONTROL WINDING	
*	A 41R	56TB3-D13	56J01- 21	SIN AIG 1X RET P4	
*	A 228R	56TB3-D13	56P02-F*	SIN AIG 1X RET S2	
*	A 355R	56TB3-D13	56P09- 1	SIN AIG 1X RET	
*	AA509W	56TB3-D13	56J22-116	SIN AIG 1X RET	
*	A 41W	56TB3-D14	56J01- 7	SIN AIG 1X P2	
*	A 228W	56TB3-D14	56P02-G*	SIN AIG 1X S4	
*	A 355W	56TB3-D14	56P09- 14	SIN AIG 1X	
*	AA509R	56TB3-D14	56J22-148	SIN AIG 1X	
	A 593	56TB3-D15	56TB3-L20	0 VDC OPTICS	
*	A 529	56TB3-D15	56P11-G	0 VDC OPTICS	
*	A 594	56TB3-D15	56TB3-L22	0 VDC OPTICS	
*	AA514	56TB3-D15	56TB3-B15	0 VDC OPTICS	
*	AA563	56TB3-D15	56TB3-L21	0 VDC OPTICS	
*	AA609	56TB3-D15	56TB3-C15	0 VDC OPTICS	
*	A 246L	56TB3-D16	56P05-J*	SXT TRUNNION MOTOR CONTROL WINDING BLK	
*	AA358W	56TB3-D16	56J19-S3	SXT TRUNNION MOTOR CONTROL WINDING	
*	A 246W	56TB3-D17	56P05-I*	SXT TRUNNION MOTOR CONTROL WINDING RED	
*	AA358R	56TB3-D17	56J19-S2	SXT TRUNNION MOTOR CONTROL WINDING	
*	A 259W	56TB3-D18	56P05-A	SXT SHAFT MOTOR CONTROL WINDING RED	
*	AA359R	56TB3-D18	56J19-P1	SXT SHAFT MOTOR CONTROL WINDING	
	AA526	56TB3-D19	56J21-129	AGC TEMP MONITOR NO 3	173
*	A 371W	56TB3-D19	56P09- 75	AGC TEMP MONITOR NO 3	
*	AA418	56TB3-D19	56J20-B1	AGC TEMP MONITOR NO 3	
*	A 537	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	AA433	56TB3-D20	56J20-N2	+28 VDC IMU BUSS B	
*	A 538	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	AA437	56TB3-D21	56J20-S2	+28 VDC IMU BUSS B	
*	A 524	56TB3-D22	56P11-M	+28 VDC STBY BUSS A	
*	AA441	56TB3-D22	56J20-R3	+28 VDC STBY BUSS A	
*	A 462	56TB3-F 1	56P10- 9	0 VDC SPACECRAFT	
*	AA278	56TB3-F 1	56J17-M3	0 VDC SPACECRAFT	
*	A 28	56TB3-F 3	56P01- 88	CONDITION LAMP TEST	
*	A 390	56TB3-F 3	56J09- 73	CONDITION LAMP TEST	
*	A 464	56TB3-F 3	56J10- 2	CONDITION LAMP TEST	328
*	AA235	56TB3-F 3	56J17-P6	CONDITION LAMP TEST	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA518	56TB3-F 4	56J22-190	ATTITUDE CONTROL RELAY CONTROL	
*	A 12	56TB3-F 4	56P01- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 166	56TB3-F 4	56J06- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 243	56TB3-F 5	56P03-J*	GIMBAL LOCK SIGNAL	
*	A 342	56TB3-F 5	56P09- 10	GIMBAL LOCK SIGNAL	
*	A 454	56TB3-F 5	56P10- 12	GIMBAL LOCK SIGNAL	
	A 421B	56TB3-F 7	SHLD A421	TRUNNION CDU DAC LO	
*	A 421W	56TB3-F 7	56J09- 47	TRUNNION CDU DAC LO	
*	AA344R	56TB3-F 7	56J18-H3	TRUNNION CDU DAC LO	
	A 422B	56TB3-F 8	SHLD A422	SHAFT CDU DAC LO	
*	A 422W	56TB3-F 8	56J09- 57	SHAFT CDU DAC LO	
*	AA345R	56TB3-F 8	56J18-H2	SHAFT CDU DAC LO	
*	A 130W	56TB3-F10	56J05- 22	TRUNNION CDU 1/4X SIN LO	
*	A 256W	56TB3-F10	56P05-H*	TRUNNION CDU 1/4X SIN LO	
*	AA330R	56TB3-F10	56J18-F2	TRUNNION CDU 1/4X SIN LO	
*	A 427R	56TB3-F11	56J09- 35	SHAFT CDU MDA CONTROLLER SIG HI	
*	AA336W	56TB3-F11	56J18-F6	SHAFT CDU MDA CONTROLLER SIG HI	
	A 427B	56TB3-F12	SHLD A427	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 427W	56TB3-F12	56J09- 34	SHAFT CDU MDA CONTROLLER SIG LO	
*	AA336R	56TB3-F12	56J18-F7	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 40W	56TB3-F13	56J01- 6	COS AIG 1X RET P1	
*	A 227W	56TB3-F13	56P02-B*	COS AIG 1X RET S1	
*	A 356R	56TB3-F13	56P09- 2	COS AIG 1X RET	
*	AA510W	56TB3-F13	56J22-150	COS AIG 1X RET	
*	A 40R	56TB3-F14	56J01- 20	COS AIG 1X P3	
*	A 227R	56TB3-F14	56P02-A*	COS AIG 1X S3	
*	A 356W	56TB3-F14	56P09- 3	COS AIG 1X	
*	AA510R	56TB3-F14	56J22-151	COS AIG 1X	
*	A 131R	56TB3-F16	56J05- 9	TRUNNION CDU 1/4X COS HI	
*	A 255W	56TB3-F16	56P05-F*	TRUNNION CDU 1/4X COS HI	
*	AA381W	56TB3-F16	56J19-F5	TRUNNION CDU 1/4X COS HI	
*	A 308L	56TB3-F17	56P08-D*	SCT SHAFT MOTOR CONTROL WINDING BLK	
*	A 378W	56TB3-F17	56P09- 77	SCT SHAFT MOTOR CONTROL WINDING	
*	AA361W	56TB3-F17	56J19-R2	SCT SHAFT MOTOR CONTROL WINDING	
*	A 259L	56TB3-F18	56P05-C	SXT SHAFT MOTOR CONTROL WINDING BLK	
*	AA359W	56TB3-F18	56J19-R1	SXT SHAFT MOTOR CONTROL WINDING	
	AA529	56TB3-F19	56J21-162	AGC TEMP MONITOR NO 2	172
*	A 371R	56TB3-F19	56P09- 74	AGC TEMP MONITOR NO 2	
*	AA417	56TB3-F19	56J20-A2	AGC TEMP MONITOR NO 2	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 300L	56TB3-C16	56P08-G	SCT TRUNNION MOTOR CONTROL WINDING BLK
*	A 376W	56TB3-C16	56P09- 92	SCT TRUNNION MOTOR CONTROL WINDING
*	AA360W	56TB3-C16	56J19-T3	SCT TRUNNION MOTOR CONTROL WINDING
*	A 300W	56TB3-C17	56P08-E	SCT TRUNNION MOTOR CONTROL WINDING RED
*	A 376R	56TB3-C17	56P09- 91	SCT TRUNNION MOTOR CONTROL WINDING
*	AA360R	56TB3-C17	56J19-T2	SCT TRUNNION MOTOR CONTROL WINDING
*	A 246R	56TB3-C18	56P05-P	+28 VDC OPTICS
*	A 259R	56TB3-C18	56P05-B	+28 VDC OPTICS
*	AA515	56TB3-C18	56TB3-M20	+28 VDC OPTICS
*	A 300R	56TB3-C19	56P08-F	+28 VDC OPTICS
*	A 308R	56TB3-C19	56P08-H	+28 VDC OPTICS
*	AA558	56TB3-C19	56TB3-M20	+28 VDC OPTICS
*	A 525	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	AA428	56TB3-C20	56J20-N1	+28 VDC IMU BUSS A
*	A 526	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	AA432	56TB3-C21	56J20-S1	+28 VDC IMU BUSS A
*	A 536	56TB3-C22	56P12-M	+28 VDC STBY BUSS B
*	AA443	56TB3-C22	56J20-R4	+28 VDC STBY BUSS B
*	A 439	56TB3-D 1	56J09- 94	0 VDC IMU
*	AA264	56TB3-D 1	56J17-M1	0 VDC IMU
*	A 320R	56TB3-D 2	56P09- 22	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 567R	56TB3-D 2	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA250W	56TB3-D 2	56J17-R4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA412W	56TB3-D 2	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 192	56TB3-D 3	56J08- 62	IMU TEMP CONT FAIL LIGHT HI
*	A 344	56TB3-D 3	56P09- 11	IMU TEMP CONT FAIL LIGHT HI
*	AA275	56TB3-D 3	56J17-P5	IMU TEMP CONT FAIL LIGHT HI
*	A 367	56TB3-D 4	56P09- 98	ACCEL TEMP (TELEMETRY)
*	AA272	56TB3-D 4	56J17-F5	ACCEL TEMP (TELEMETRY)
*	A 369	56TB3-D 5	56P09- 97	HTR CURRENT (TELEMETERY)
*	AA274	56TB3-D 5	56J17-F3	HTR CURRENT (TELEMETRY)
*	A 373R	56TB3-D 7	56P09-100	DIRECT TRUNNION CONTROLLER HI (TEST)
*	AA340R	56TB3-D 7	56J18-N1	DIRECT TRUNNION CONTROLLER HI (TEST)
*	A 383R	56TB3-D 8	56P09- 86	TRUNNION CDU MDA HI (TEST)
*	AA341R	56TB3-D 8	56J18-N3	TRUNNION CDU MDA HI (TEST)
*	A 372R	56TB3-D 9	56P09- 87	SHAFT CDU MDA (TEST) HI
*	AA343R	56TB3-D 9	56J18-N6	SHAFT CDU MDA (TEST) HI
*	A 372W	56TB3-D10	56P09- 88	SHAFT CDU MDA (TEST) LO
*	AA343W	56TB3-D10	56J18-M6	SHAFT CDU MDA (TEST) LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA528	56TB3-F20	56J21-140	0 VDC AGC	170
	AA532	56TB3-F20	56J21-208	0 VDC AGC	170
*	A 542	56TB3-F20	56P12-J	0 VDC AGC	
*	A 270	56TB3-F21	56P05-R	STRUCTURE GND	
*	A 288	56TB3-F21	56P06-G	STRUCTURE GND	
*	A 535	56TB3-F21	56P11-L	STRUCTURE GND	
*	AA607	56TB3-F21	56TB3-F22	STRUCTURE GND	
*	AA614	56TB3-F21	56TB3-B21	STRUCTURE GND	
	AA607	56TB3-F22	56TB3-F21	STRUCTURE GND	
*	A 316	56TB3-F22	56P08-T*	STRUCTURE GND	
*	A 451	56TB3-F22	56J09- 91	STRUCTURE GND	
*	A 545	56TB3-F22	56P12-L	STRUCTURE GND	
*	AA462	56TB3-F22	56J20-G4	STRUCTURE GND	
*	A 401R	56TB3-G 1	56J09-100	IMU HTR CURRENT AMP PIN 5	
*	AA258K	56TB3-G 1	56J17-N6	IMU HTR CURRENT AMP PIN 5	
*	A 401K	56TB3-G 2	56J09- 88	IMU TEMP CONT K2 PIN 5	
*	AA258L	56TB3-G 2	56J17-N5	IMU TEMP CONT K2 PIN 5	
*	A 443	56TB3-G 3	56J09- 89	IRIG ZERO DEVIATION CHECK	
*	AA253	56TB3-G 3	56J17-B8	IRIG ZERO DEVIATION CHECK	
*	A 442	56TB3-G 4	56J09- 85	IRIG TEMP BRIDGE AMP PIN 6	
*	AA254	56TB3-G 4	56J17-C7	IRIG TEMP BRIDGE AMP PIN 6	
*	A 274	56TB3-G 5	56P06-K	IMU TEMP SENSOR COM	
*	AA277	56TB3-G 5	56J17-M2	IMU TEMP SENSOR COM	
*	A 421R	56TB3-G 7	56J09- 56	TRUNNION CDU DAC OUTPUT HI	
*	AA344W	56TB3-G 7	56J18-G3	TRUNNION CDU DAC OUTPUT HI	
*	A 422R	56TB3-G 8	56J09- 48	SHAFT CDU DAC OUTPUT HI	
*	AA345W	56TB3-G 8	56J18-G2	SHAFT CDU DAC OUTPUT HI	
	A 130B	56TB3-G 9	SHLD A130	0 VDC OPTICS	
	A 256B	56TB3-G 9	SHLD A256	0 VDC OPTICS	
	AA538	56TB3-G 9	56TB3-B15	0 VDC OPTICS	
	AA541	56TB3-G 9	56TB3-H 9	0 VDC OPTICS	
*	A 130R	56TB3-G10	56J05- 8	TRUNNION CDU 1/4X SIN HI	
*	A 256R	56TB3-G10	56P05-G*	TRUNNION CDU 1/4X SIN HI	
*	AA330W	56TB3-G10	56J18-F1	TRUNNION CDU 1/4X SIN HI	
*	A 426R	56TB3-G11	56J09- 19	TRUNNION CDU MDA CONTROLLER SIG HI	
*	AA335W	56TB3-G11	56J18-C7	TRUNNION CDU MDA CONTROLLER SIG HI	
	A 426B	56TB3-G12	SHLD A426	TRUNNION CDU MDA CONTROLLER SIG LO	
*	A 426W	56TB3-G12	56J09- 33	TRUNNION CDU MDA CONTROLLER SIG LO	
*	AA335R	56TB3-G12	56J18-D7	TRUNNION CDU MDA CONTROLLER SIG LO	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607	
SCALE-NONE	REV LTR D		SHEET 104

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 268W	56P04-A	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
*	A 268R	56P04-C	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
*	A 251W	56P04-F	56P05-FF	AS 16X RSVR P4 TRIM
*	A 251R	56P04-H	56P05-EE	AS 16X RSVR P2 TRIM
*	A 267W	56P04-J	56P05-W	AT 64X RSVR P4 TRIM
*	A 267R	56P04-K	56P05-X	AT 64X RSVR P2 TRIM

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607	
SCALE - NONE	REV LTR D		SHEET 70

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 259W	56P05-A	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING RED
	A 264	56P05-AA	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
	A 253R	56P05-A*	56TB3-S 8	SXT AT 64X RSVR COS HI
	A 259R	56P05-B	56TB3-C18	+28 VDC OPTICS
	A 263W	56P05-BB	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
	A 253W	56P05-B*	56TB3-S 7	SXT AT 64X RSVR COS LO
	A 259L	56P05-C	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING BLK
	A 265R	56P05-CC	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
*	A 247R	56P05-CC	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
	A 254R	56P05-C*	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
	A 598R	56P05-D	56TB2-U 2	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
	A 265W	56P05-DD	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
*	A 247W	56P05-DD	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
	A 254W	56P05-D*	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
	A 598W	56P05-E	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	A 251R	56P05-EE	56P04-H	AS 16X RSVR P2 TRIM
	A 255R	56P05-E*	56TB3-G16	TRUNNION CDU 1/4X COS LO
	A 251W	56P05-FF	56P04-F	AS 16X RSVR P4 TRIM
	A 255W	56P05-F*	56TB3-F16	TRUNNION CDU 1/4X COS HI
	A 256R	56P05-G*	56TB3-G10	TRUNNION CDU 1/4X SIN HI
	A 263R	56P05-HH	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
	A 256W	56P05-H*	56TB3-F10	TRUNNION CDU 1/4X SIN LO
	A 246W	56P05-I*	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING RED
	A 247W	56P05-J	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
	A 268R	56P05-J	56P04-C	800 CPS 28 V 1 PCT LO OPTICS
	A 246L	56P05-J*	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING BLK
	A 247R	56P05-K	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS
	A 268W	56P05-K	56P04-A	800 CPS 28 V 1 PCT HI OPTICS
	A 257R	56P05-K*	56TB3-T16	SXT TRUNNION TACH HI
	A 266R	56P05-L	56TB1-T 1	400 CPS VAR ILLUM PWR
	A 266W	56P05-M	56TB1-T 2	400 CPS 6 V LO
	A 257W	56P05-M*	56TB3-T17	SXT TRUNNION TACH LO
	A 248R	56P05-N*	56TB3-R 8	SXT AS 16X RSVR SIN HI
	A 246R	56P05-P	56TB3-C18	+28 VDC OPTICS
	A 248W	56P05-P*	56TB3-R 7	SXT AS 16X RSVR SIN LO
	A 258R	56P05-Q*	56TB3-R10	SXT AS 16X RSVR COS LO
	A 270	56P05-R	56TB3-F21	STRUCTURE GND
	A 258W	56P05-R*	56TB3-R11	SXT AS 16X RSVR COS HI
	A 249	56P05-S	56TB3-K21	0 VDC OPTICS

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607	
SCALE - NONE	REV LTR D		SHEET 71

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 229W	56P03-A	56TB1-C 7	X GYRO ERROR SIG
A 239W	56P03-A*	56TB1-A 3	MG TORQUE MOTOR RET
A 230W	56P03-B	56TB1-C 8	Z GYRO ERROR SIG
A 240R	56P03-B*	56TB1-A 3	MG TORQUE MOTOR RET
A 231R	56P03-C	56TB1-A 8	IMU OG ERROR SIG
A 240W	56P03-C*	56TB1-A 4	MG TORQUE MOTOR HI
A 232R	56P03-D	56TB2-N 8	COS AOG 1X S3
A 241R	56P03-D*	56TB1-D 3	IG TORQUE MOTOR HI
A 232W	56P03-E	56TB2-N 7	COS AOG 1X S1
A 241W	56P03-E*	56TB1-D 4	IG TORQUE MOTOR RET
A 233R	56P03-F	56TB2-U 8	SIN AOG 1X S4
A 242R	56P03-F*	56TB1-D 4	IG TORQUE MOTOR RET
A 233W	56P03-G	56TB2-U 7	SIN AOG 1X S2
A 242W	56P03-G*	56TB1-D 3	IG TORQUE MOTOR HI
A 234W	56P03-H	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR
A 244	56P03-H*	56TB3-T20	+28 VDC IMU
A 234R	56P03-J	56TB1-B 5	IG CDU ERROR SIG RET
A 243	56P03-J*	56TB3-F 5	GIMBAL LOCK SIGNAL
A 235R	56P03-K	56TB1-A 6	MG CDU ERROR SIG RET
A 235W	56P03-L	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR
A 236W	56P03-M	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
A 236R	56P03-N	56TB3-R 4	PITCH YAW RSVR S3
A 237W	56P03-P	56TB3-R 1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
A 237R	56P03-R	56TB3-R 2	PITCH-YAW RSVR S4
A 231L	56P03-U	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 231W	56P03-V	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 231K	56P03-W	56TB1-A 7	IMU MG ERROR SIG
A 238R	56P03-X	56TB1-B 2	OG TORQUE MOTOR RET
A 238W	56P03-Y	56TB1-A 2	OG TORQUE MOTOR HI
A 239R	56P03-Z	56TB1-A 4	MG TORQUE MOTOR HI

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607	
SCALE - NONE	REV LTR D		SHEET 69

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 250	56P05-T	56TB3-K21	0 VDC OPTICS
A 260R	56P05-U*	56TB3-S17	SXT SHAFT TACH HI
A 260W	56P05-V*	56TB3-S16	SXT SHAFT TACH LO
A 267W	56P05-W	56P04-J	AT 64X RSVR P4 TRIM
A 261R	56P05-W*	56TB3-N13	SHAFT CDU 1/2X COS LO P4
A 267R	56P05-X	56P04-K	AT 64X RSVR P2 TRIM
A 261W	56P05-X*	56TB3-N14	SHAFT CDU 1/2X COS HI P2
A 252R	56P05-Y	56TB3-T 8	SXT AT 64X RSVR SIN LO
A 262R	56P05-Y*	56TB3-K10	SHAFT CDU 1/2X SIN HI P1
A 252W	56P05-Z	56TB3-T 7	SXT AT 64X RSVR SIN HI
A 262W	56P05-Z*	56TB3-K11	SHAFT CDU 1/2X SIN LO P3

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607	
SCALE - NONE	REV LTR D		SHEET 72

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 181	56TB3-H 6	56J08- 66	MDV SLEW CONTROL 0.5 V 400 CPS
*	A 408	56TB3-H 6	56J09- 66	MDV SLEW CONTROL 0.5 V 400 CPS
*	A 135W	56TB3-H 7	56J05- 90	TRUNNION CDU 16X ERROR SIG LO
*	AA329R	56TB3-H 7	56J19-B2	TRUNNION CDU 16X ERROR SIG LO
*	A 135R	56TB3-H 8	56J05-104	TRUNNION CDU 16X ERROR SIG HI
*	AA329W	56TB3-H 8	56J19-C2	TRUNNION CDU 16X ERROR SIG HI
	A 107B	56TB3-H 9	SHLD A107	0 VDC OPTICS
	A 112B	56TB3-H 9	SHLD A112	0 VDC OPTICS
	A 135B	56TB3-H 9	SHLD A135	0 VDC OPTICS
	AA329B	56TB3-H 9	SHLD AA329	0 VDC OPTICS
	AA542	56TB3-H 9	56TB3-K 9	0 VDC OPTICS
*	AA541	56TB3-H 9	56TB3-G 9	0 VDC OPTICS
*	A 112R	56TB3-H10	56J04-104	SHAFT CDU 16X ERROR SIG HI
*	AA331W	56TB3-H10	56J19-B4	SHAFT CDU 16X ERROR SIG HI
*	A 112W	56TB3-H11	56J04- 90	SHAFT CDU 16X ERROR SIG LO
*	AA331R	56TB3-H11	56J19-B3	SHAFT CDU 16X ERROR SIG LO
	A 65B	56TB3-H12	SHLD A 65	0 VDC IMU
	A 222B	56TB3-H12	SHLD A222	0 VDC IMU
	A 357B	56TB3-H12	SHLD A357	0 VDC IMU
	AA466	56TB3-H12	56TB3-R 3	0 VDC IMU
	AA507B	56TB3-H12	SHLD AA507	0 VDC IMU
	AA513	56TB3-H12	56TB3-H13	0 VDC IMU
	A 41B	56TB3-H13	SHLD A 41	0 VDC IMU
	A 228B	56TB3-H13	SHLD A228	0 VDC IMU
	A 355B	56TB3-H13	SHLD A355	0 VDC IMU
	AA509B	56TB3-H13	SHLD AA509	0 VDC IMU
	AA554	56TB3-H13	56TB3-H14	0 VDC IMU
*	AA513	56TB3-H13	56TB3-H12	0 VDC IMU
	A 40B	56TB3-H14	SHLD A 40	0 VDC IMU
	A 227B	56TB3-H14	SHLD A227	0 VDC IMU
	A 356B	56TB3-H14	SHLD A356	0 VDC IMU
	AA508B	56TB3-H14	SHLD AA508	0 VDC IMU
	AA510B	56TB3-H14	SHLD AA510	0 VDC IMU
*	AA554	56TB3-H14	56TB3-H13	0 VDC IMU
	A 255B	56TB3-H15	SHLD A255	0 VDC OPTICS
	A 263B	56TB3-H15	SHLD A263	0 VDC OPTICS
	A 304B	56TB3-H15	SHLD A304	0 VDC OPTICS
	AA551	56TB3-H15	56TB3-K15	0 VDC OPTICS
*	AA550	56TB3-H15	56TB3-G15	0 VDC OPTICS

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SIZE A
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SCALE-NONE
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 263R	56TB3-H16	56P05-HH	SXT SHAFT 1/2X RSVR ERROR HI
*	AA375W	56TB3-H16	56J19-A5	SXT SHAFT 1/2X RSVR ERROR HI
*	A 263W	56TB3-H17	56P05-BB	SXT SHAFT 1/2X RSVR ERROR LO
*	AA375R	56TB3-H17	56J19-B5	SXT SHAFT 1/2X RSVR ERROR LO
*	A 283W	56TB3-H19	56P06-E*	IMU PRESSURE MONITOR LO
*	A 379W	56TB3-H19	56P09- 53	IMU PRESSURE MONITOR LO
*	AA415	56TB3-H19	56J20-B4	IMU PRESSURE MONITOR LO
*	A 328	56TB3-H20	56P09- 65	+28 VDC OPTICS
*	AA406	56TB3-H20	56J20-N6	+28 VDC OPTICS
*	A 528	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	AA446	56TB3-H21	56J20-P5	+28 VDC OPTICS BUSS A
*	AA449	56TB3-H21	56J20-S5	+28 VDC OPTICS BUSS A
*	A 539	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B
*	AA450	56TB3-H22	56J20-P6	+28 VDC OPTICS BUSS B
*	AA453	56TB3-H22	56J20-S6	+28 VDC OPTICS BUSS B
*	A 438	56TB3-K 1	56J09- 92	IMU TEMP ALARM AMP PIN 5
*	AA260	56TB3-K 1	56J17-H2	IMU TEMP ALARM AMP PIN 5
*	A 446	56TB3-K 2	56J09-105	IMU TEMP ALARM BIAS RESISTOR
*	AA259	56TB3-K 2	56J17-H1	IMU TEMP ALARM BIAS RESISTOR
*	A 286	56TB3-K 3	56P06-A*	IRIG TEMP IND SENSOR RET
*	AA266	56TB3-K 3	56J17-C5	IRIG TEMP IND SENSOR RET
*	A 391	56TB3-K 4	56J09- 21	TRUNNION ENCODER PIN 9
*	AA286	56TB3-K 4	56J17-B9	TRUNNION ENCODER PIN 9
*	A 444	56TB3-K 5	56J09- 75	IMU TEMP ALARM AMP PIN 14
*	AA261	56TB3-K 5	56J17-G1	IMU TEMP ALARM AMP PIN 14
*	A 210R	56TB3-K 6	56J08- 35	400 CPS 0.5 V ZERO PHASE
*	A 459R	56TB3-K 6	56P10- 38	400 CPS 0.5 V ZERO PHASE
*	A 110W	56TB3-K 7	56J04- 20	SHAFT CDU 1X COS OUTPUT HI
*	AA338R	56TB3-K 7	56J18-D4	SHAFT CDU 1X COS OUTPUT HI
*	A 110R	56TB3-K 8	56J04- 6	SHAFT CDU 1X COS OUTPUT LO
*	AA338W	56TB3-K 8	56J18-D5	SHAFT CDU 1X COS OUTPUT LO
	A 110B	56TB3-K 9	SHLD A110	0 VDC OPTICS
	A 262B	56TB3-K 9	SHLD A262	0 VDC OPTICS
	A 312B	56TB3-K 9	SHLD A312	0 VDC OPTICS
	AA331B	56TB3-K 9	SHLD AA331	0 VDC OPTICS
	AA543	56TB3-K 9	56TB3-L 9	0 VDC OPTICS
*	AA542	56TB3-K 9	56TB3-H 9	0 VDC OPTICS
*	A 107W	56TB3-K10	56J04- 67	SHAFT CDU 1/2X SIN HI S1
*	A 262R	56TB3-K10	56P05-Y*	SHAFT CDU 1/2X SIN HI P1

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 111W	56TB3-G13	56J04- 21	SHAFT CDU 1X SIN OUTPUT LO	
*	AA334R	56TB3-G13	56J18-D6	SHAFT CDU 1X SIN OUTPUT LO	
*	A 111R	56TB3-G14	56J04- 7	SHAFT CDU 1X SIN OUTPUT HI	
*	AA334W	56TB3-G14	56J18-C6	SHAFT CDU 1X SIN OUTPUT HI	
	A 111B	56TB3-G15	SHLD A111	0 VDC OPTICS	
	AA550	56TB3-G15	56TB3-H15	0 VDC OPTICS	
*	AA549	56TB3-G15	56TB3-T 9	0 VDC OPTICS	
*	A 131W	56TB3-G16	56J05- 10	TRUNNION CDU 1/4X COS LO	
*	A 255R	56TB3-G16	56P05-E*	TRUNNION CDU 1/4X COS LO	
*	AA381R	56TB3-G16	56J19-F6	TRUNNION CDU 1/4X COS LO	
*	A 308W	56TB3-G17	56P08-C*	SCT SHAFT MOTOR CONTROL WINDING RED	
*	A 378R	56TB3-G17	56P09- 76	SCT SHAFT MOTOR CONTROL WINDING	
*	AA361R	56TB3-G17	56J19-P2	SCT SHAFT MOTOR CONTROL WINDING	
*	A 404	56TB3-G18	56J09- 59	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
*	AA387	56TB3-G18	56J19-M6	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
	AA530	56TB3-G19	56J21-196	AGC TEMP MONITOR NO 1	171
*	A 371L	56TB3-G19	56P09- 64	AGC TEMP MONITOR NO 1	
*	AA416	56TB3-G19	56J20-A1	AGC TEMP MONITOR NO 1	
	AA520	56TB3-G20	56J21- 2	0 VDC AGC	169
	AA524	56TB3-G20	56J21- 74	0 VDC AGC	169
*	A 531	56TB3-G20	56P11-J	0 VDC AGC	
	AA519	56TB3-G21	56J21- 1	+28 VDC AGC BUSS A	167
	AA523	56TB3-G21	56J21- 73	+28 VDC AGC BUSS A	167
*	A 530	56TB3-G21	56P11-A	+28 VDC AGC BUSS A	
*	AA420	56TB3-G21	56J20-K5	+28 VDC AGC BUSS A	
	AA527	56TB3-G22	56J21-139	+28 VDC AGC BUSS B	168
	AA531	56TB3-G22	56J21-207	+28 VDC AGC BUSS B	168
*	A 541	56TB3-G22	56P12-A	+28 VDC AGC BUSS B	
*	AA421	56TB3-G22	56J20-K6	+28 VDC AGC BUSS B	
*	A 401L	56TB3-H 1	56J09- 87	IMU TEMP CONT AMP PIN 5	
*	AA258R	56TB3-H 1	56J17-M6	IMU TEMP CONT AMP PIN 5	
*	A 401W	56TB3-H 2	56J09-101	IMU TEMP CONT K1 PIN 3	
*	AA258W	56TB3-H 2	56J17-M5	IMU TEMP CONT K1 PIN 3	
*	A 399	56TB3-H 3	56J09-102	IMU TEMP CONT -5 DEG GAIN CHECK	
*	AA252	56TB3-H 3	56J17-B7	IMU TEMP CONT -5 DEG GAIN CHECK	
*	A 280	56TB3-H 4	56P06-Z	IRIG TEMP IND SENSOR HI	
*	AA276	56TB3-H 4	56J17-C6	IRIG TEMP IND SENSOR HI	
*	A 403	56TB3-H 5	56J09- 74	IMU TEMP ALARM AMP PIN 15	
*	AA262	56TB3-H 5	56J17-G2	IMU TEMP ALARM AMP PIN 15	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014607
SCALE-NONE
REV LTR D
SHEET 105

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 312W	56TB3-K10	56P08-J*	SHAFT CDU 1/2X SIN HI S1
*	AA332W	56TB3-K10	56J18-G1	SHAFT CDU 1/2X SIN HI S1
*	A 107R	56TB3-K11	56J04- 57	SHAFT CDU 1/2X SIN LO S3
*	A 262W	56TB3-K11	56P05-Z*	SHAFT CDU 1/2X SIN LO P3
*	A 312R	56TB3-K11	56P08-K*	SHAFT CDU 1/2X SIN LO P1
*	AA332R	56TB3-K11	56J18-H1	SHAFT CDU 1/2X SIN LO S3
*	A 148W	56TB3-K12	56J05- 66	TRUNNION CDU 1/2X RSVR LOAD LO
*	AA318R	56TB3-K12	56J18-F4	TRUNNION CDU 1/2X RSVR LOAD LO
*	A 282W	56TB3-K13	56P06-C*	PRESSURE SENSOR +28 VDC LO
*	AA464W	56TB3-K13	56J20-B6	PRESSURE SENSOR +28 VDC LO
*	A 456W	56TB3-K14	56P10- 68	400 CPS 115 V LO
*	A 532W	56TB3-K14	56P11-K	400 CPS 115 V LO
*	AA465W	56TB3-K14	56J20-G3	400 CPS 115 V LO
	A 131B	56TB3-K15	SHLD A131	0 VDC OPTICS
	AA552	56TB3-K15	56TB3-L15	0 VDC OPTICS
*	AA551	56TB3-K15	56TB3-H15	0 VDC OPTICS
*	A 304W	56TB3-K16	56P08-S	SCT TRUNNION 1X RSVR ERROR HI
*	AA377W	56TB3-K16	56J19-B7	SCT TRUNNION 1X RSVR ERROR HI
*	A 304R	56TB3-K17	56P08-T	SCT TRUNNION 1X RSVR ERROR LO
*	AA377R	56TB3-K17	56J19-B8	SCT TRUNNION 1X RSVR ERROR LO
*	A 405	56TB3-K18	56J09- 58	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	AA388	56TB3-K18	56J19-M5	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	A 283R	56TB3-K19	56P06-D*	IMU PRESSURE MONITOR HI
*	A 379R	56TB3-K19	56P09- 42	IMU PRESSURE MONITOR HI
*	AA414	56TB3-K19	56J20-A4	IMU PRESSURE MONITOR HI
	A 595	56TB3-K20	56TB3-C15	0 VDC OPTICS
*	A 303	56TB3-K20	56P08-R	0 VDC OPTICS
*	A 315	56TB3-K20	56P08-B*	0 VDC OPTICS
*	AA325	56TB3-K20	56J18-S3	0 VDC OPTICS
*	AA327	56TB3-K20	56J18-T3	0 VDC OPTICS
*	AA333	56TB3-K20	56J18-R3	0 VDC OPTICS
	AA566	56TB3-K21	56TB3-C15	0 VDC OPTICS
*	A 249	56TB3-K21	56P05-S	0 VDC OPTICS
*	A 250	56TB3-K21	56P05-T	0 VDC OPTICS
*	AA390	56TB3-K21	56J19-R4	0 VDC OPTICS
*	AA393	56TB3-K21	56J19-P5	0 VDC OPTICS
	A 596	56TB3-K22	56TB3-C15	0 VDC OPTICS
*	AA364	56TB3-K22	56J19-S4	0 VDC OPTICS
*	AA369	56TB3-K22	56J19-S5	0 VDC OPTICS

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014607
SCALE-NONE
REV LTR D
SHEET 108

MIL 2084 4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 289R	56P07-A	56TB1-T 8	Z GYRO TORQUE +
A 296W	56P07-A*	56TB1-N 2	Y PIP ERROR LO
A 289W	56P07-B	56TB1-U 7	Z GYRO TORQUE RET
A 297R	56P07-B*	56TB1-T 5	Z PIP ERROR HI
A 289L	56P07-C	56TB1-U 8	Z GYRO TORQUE -
A 297W	56P07-C*	56TB1-T 4	Z PIP ERROR LO
A 290R	56P07-D	56TB1-M 8	X GYRO TORQUE +
A 290W	56P07-E	56TB1-L 8	X GYRO TORQUE RET
A 290L	56P07-F	56TB1-L 7	X GYRO TORQUE -
A 298R	56P07-F*	56TB1-C 3	OG ADA
A 291R	56P07-G	56TB1-T 6	Y GYRO TORQUE +
A 298L	56P07-G*	56TB1-B 4	MG ADA
A 291W	56P07-H	56TB1-U 5	Y GYRO TORQUE RET
A 298K	56P07-H*	56TB1-C 4	IG ADA
A 291L	56P07-J	56TB1-U 6	Y GYRO TORQUE -
A 298W	56P07-J*	56TB1-B 3	0 VDC IMU
A 292R	56P07-K	56TB1-U 4	Z PIP TORQUE +
A 292W	56P07-L	56TB1-T 3	Z PIP TORQUE RET
A 292L	56P07-M	56TB1-U 3	Z PIP TORQUE -
A 293R	56P07-N	56TB1-L 4	Y PIP TORQUE +
A 293W	56P07-P	56TB1-L 3	Y PIP TORQUE RET
A 293L	56P07-R	56TB1-M 4	Y PIP TORQUE -
A 294R	56P07-U	56TB1-M 5	X PIP TORQUE +
A 294W	56P07-V	56TB1-L 6	X PIP TORQUE RET
A 294L	56P07-W	56TB1-L 5	X PIP TORQUE -
A 295R	56P07-X	56TB1-M 7	X PIP ERROR HI
A 295W	56P07-Y	56TB1-M 6	X PIP ERROR LO
A 296R	56P07-Z	56TB1-M 3	Y PIP ERROR HI

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 299R	56P08-A	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 299W	56P08-B	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 315	56P08-B*	56TB3-K20	0 VDC OPTICS
A 308W	56P08-C*	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING RED
A 308L	56P08-D*	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING BLK
A 300W	56P08-E	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING RED
A 309R	56P08-E*	56TB3-N16	SCT SHAFT TACH HI
A 300R	56P08-F	56TB3-C19	+28 VDC OPTICS
A 309W	56P08-F*	56TB3-N17	SCT SHAFT TACH LO
A 300L	56P08-G	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING BLK
A 310R	56P08-G*	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
A 308R	56P08-H	56TB3-C19	+28 VDC OPTICS
A 311	56P08-H*	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
A 310W	56P08-I*	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
A 301R	56P08-J	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
A 312W	56P08-J*	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 301W	56P08-K	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
A 312R	56P08-K*	56TB3-K11	SHAFT CDU 1/2X SIN LO P1
A 313W	56P08-M*	56TB3-N13	SHAFT CDU 1/2X COS LO P2
A 302R	56P08-N	56TB3-R17	SCT TRUNNION TACH HI
A 313R	56P08-N*	56TB3-N14	SHAFT CDU 1/2X COS HI P4
A 302W	56P08-P	56TB3-R16	SCT TRUNNION TACH LO
A 303	56P08-R	56TB3-K20	0 VDC OPTICS
A 314R	56P08-R*	56TB1-T 1	400 CPS VAR ILLUM PWR
A 304W	56P08-S	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
A 314W	56P08-S*	56TB1-T 2	400 CPS 6 V LO
A 304R	56P08-T	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
A 316	56P08-T*	56TB3-F22	STRUCTURE GND
A 305	56P08-U	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
A 306R	56P08-V	56TB3-S13	SCT TRUNNION 1X SIN LO
A 306W	56P08-W	56TB3-S14	SCT TRUNNION 1X SIN HI
A 307R	56P08-X	56TB3-T14	SCT TRUNNION 1X COS HI
A 307W	56P08-Y	56TB3-T13	SCT TRUNNION 1X COS LO

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 271R	56P06-A	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 286	56P06-A*	56TB3-K 3	IRIG TEMP IND SENSOR RET
A 271W	56P06-B	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO
A 282R	56P06-B*	56TB3-L13	PRESSURE SENSOR +28 VDC HI
A 271L	56P06-C	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 282W	56P06-C*	56TB3-K13	PRESSURE SENSOR +28 VDC LO
A 284	56P06-D	56TB3-T20	+28 VDC IMU
A 283R	56P06-D*	56TB3-K19	IMU PRESSURE MONITOR HI
A 287	56P06-E	56TB2-D 4	0 VDC IMU
A 283W	56P06-E*	56TB3-H19	IMU PRESSURE MONITOR LO
A 272	56P06-F	56TB1-D 5	-28 VDC
A 281R	56P06-F*	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 288	56P06-G	56TB3-F21	STRUCTURE GND
A 281W	56P06-G*	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 273R	56P06-H	56TB1-A 2	OG TORQUE MOTOR HI
A 273W	56P06-J	56TB1-B 2	OG TORQUE MOTOR RET
A 274	56P06-K	56TB3-G 5	IMU TEMP SENSOR COM
A 275W	56P06-L	56TB3-L 3	IRIG TEMP CONT SENSOR RET
A 275R	56P06-M	56TB3-L 4	IRIG TEMP CONT SENSOR HI
A 276	56P06-N	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 285	56P06-P	56TB3-M 1	ACCEL TEMP IND SENSOR RET
A 279W	56P06-R	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY
A 278R	56P06-V	56TB3-N 5	IMU CONTROL HTR HI
A 278W	56P06-W	56TB3-N 4	IMU CONTROL HTR LO
A 279R	56P06-X	56TB3-N 1	IMU EMERGENCY HTR HI
A 277	56P06-Y	56TB3-N 6	EMERG HTR CONT MODULE LO
A 280	56P06-Z	56TB3-H 4	IRIG TEMP IND SENSOR HI

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 355R	56P09- 1	56TB3-D13	SIN AIG 1X RET
A 356R	56P09- 2	56TB3-F13	COS AIG 1X RET
A 356W	56P09- 3	56TB3-F14	COS AIG 1X
A 330	56P09- 4	56TB3-R20	+28 VDC AGC
A 317R	56P09- 5	56TB3-T19	+20 VDC CONDITIONING
A 317W	56P09- 6	56TB3-S19	0 VDC CONDITIONING
A 386W	56P09- 7	56TB3-R19	+2.5 VDC CONDITIONING HI
A 318W	56P09- 8	56TB3-R21	800 CPS 28 V 1 PCT LO IMU
A 318R	56P09- 9	56TB3-R22	800 CPS 28 V 1 PCT HI IMU
A 342	56P09- 10	56TB3-F 5	GIMBAL LOCK SIGNAL
A 344	56P09- 11	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 336	56P09- 12	56TB1-H 8	ERROR DETECT LIGHT HI
A 332	56P09- 13	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 355W	56P09- 14	56TB3-D14	SIN AIG 1X
A 357R	56P09- 15	56TB3-C13	SIN AMG 1X RET
A 359R	56P09- 16	56TB2-U 7	SIN AOG 1X S2
A 359W	56P09- 17	56TB2-U 8	SIN AOG 1X S4
A 331	56P09- 18	56TB3-N19	0 VDC AGC
A 327	56P09- 19	56TB3-T21	+28 VDC IMU
A 326	56P09- 20	56TB3-N22	+28 VDC STBY
A 386R	56P09- 21	56TB3-S20	+2.5 VDC CONDITIONING LO
A 320R	56P09- 22	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 343	56P09- 23	56TB1-S 5	0 VDC IMU
A 348	56P09- 24	56E 21	0 VDC IMU
A 341	56P09- 25	56E 21	0 VDC IMU
A 340	56P09- 26	56E 21	0 VDC IMU
A 337	56P09- 27	56E 21	0 VDC IMU
A 358R	56P09- 28	56TB3-N20	COS AMG 1X S3
A 357W	56P09- 29	56TB3-C14	SIN AMG 1X
A 360R	56P09- 30	56TB2-N 8	COS AOG 1X S3
A 360W	56P09- 31	56TB2-N 7	COS AOG 1X S1
A 385	56P09- 32	56TB2-F 4	0 VDC IMU
A 349	56P09- 33	56TB1-L 2	X PIP ERROR MONITOR
A 320W	56P09- 34	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 346	56P09- 35	56TB3-B 4	ZERO ENCODER LIGHT HI
A 347	56P09- 36	56E 21	0 VDC IMU
A 339	56P09- 37	56E 21	0 VDC IMU
A 338W	56P09- 38	56TB2-R 3	OG CDU ERROR SIG RET
A 338R	56P09- 39	56TB2-N 3	OG CDU 16X ERROR SIG

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 310W	56TB3-L17	56P08-I*	SCT SHAFT 1/2X RSVR ERROR HI	
*	AA379W	56TB3-L17	56J19-D8	SCT SHAFT 1/2X RSVR ERROR HI	
*	A 428	56TB3-L18	56J09- 99	COSECANT RELAY CONTROL	
*	AA389	56TB3-L18	56J19-N5	COSECANT RELAY CONTROL	
	AA521	56TB3-L19	56J21- 62	+13 VDC AGC	176
*	A 380	56TB3-L19	56P09- 62	+13 VDC AGC	
*	AA425	56TB3-L19	56J20-C6	+13 VDC AGC	
*	A 593	56TB3-L20	56TB3-D15	0 VDC OPTICS	
*	AA 66	56TB3-L20	56J12-R6	0 VDC OPTICS	
*	AA228	56TB3-L20	56J16-R5	0 VDC OPTICS	
*	AA229	56TB3-L20	56J16-R6	0 VDC OPTICS	
	AA563	56TB3-L21	56TB3-D15	0 VDC OPTICS	
*	A 329	56TB3-L21	56P09- 66	0 VDC OPTICS	
*	AA282	56TB3-L21	56J17-R6	0 VDC OPTICS	
*	AA407	56TB3-L21	56J20-N4	0 VDC OPTICS	
	A 594	56TB3-L22	56TB3-D15	0 VDC OPTICS	
*	AA365	56TB3-L22	56J19-T4	0 VDC OPTICS	
*	AA367	56TB3-L22	56J19-T6	0 VDC OPTICS	
*	A 285	56TB3-M 1	56P06-P	ACCEL TEMP IND SENSOR RET	
*	AA269	56TB3-M 1	56J17-D5	ACCEL TEMP IND SENSOR RET	
*	A 31	56TB3-M 2	56P01- 45	IMU TD RELAY C	
*	AA251	56TB3-M 2	56J17-D8	IMU TD RELAY C	
*	A 392	56TB3-M 3	56J09- 2	TRUNNION ENCODER PIN 8	
*	AA285	56TB3-M 3	56J17-A9	TRUNNION ENCODER PIN 8	
*	A 397	56TB3-M 4	56J09-104	ACCEL ZERO DEVIATION CHECK	
*	AA256	56TB3-M 4	56J17-D7	ACCEL ZERO DEVIATION CHECK	
*	A 441	56TB3-M 5	56J09-103	IMU IMU TEMP CONT +5 DEG GAIN CHECK	
*	AA255	56TB3-M 5	56J17-D6	IMU IMU TEMP CONT +5 DEG GAIN CHECK	
*	A 144W	56TB3-M 7	56J05- 92	TRUNION CDU TACH LO	
*	AA315R	56TB3-M 7	56J18-B9	TRUNION CDU TACH LO	
*	A 144R	56TB3-M 8	56J05-106	TRUNION CDU TACH HI	
*	AA315W	56TB3-M 8	56J18-A9	TRUNION CDU TACH HI	
	A 144B	56TB3-M 9	SHLD A144	0 VDC OPTICS	
	A 425B	56TB3-M 9	SHLD A425	0 VDC OPTICS	
	AA315B	56TB3-M 9	SHLD AA315	0 VDC OPTICS	
	AA545	56TB3-M 9	56TB3-N 9	0 VDC OPTICS	
*	AA544	56TB3-M 9	56TB3-L 9	0 VDC OPTICS	
*	A 425R	56TB3-M10	56J09- 10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI	
*	AA326W	56TB3-M10	56J18-D8	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 425W	56TB3-M11	56J09- 23	RSVR DRIVE AMP INPUT LO	
*	AA326L	56TB3-M11	56J18-F9	RSVR DRIVE AMP INPUT LO	
*	A 425L	56TB3-M12	56J09- 24	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
*	AA326R	56TB3-M12	56J18-F8	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
	A 254B	56TB3-M15	SHLD A254	0 VDC OPTICS	
	A 309B	56TB3-M15	SHLD A309	0 VDC OPTICS	
	A 310B	56TB3-M15	SHLD A310	0 VDC OPTICS	
	AA534	56TB3-M15	56TB3-N15	0 VDC OPTICS	
*	AA533	56TB3-M15	56TB3-L15	0 VDC OPTICS	
*	A 254R	56TB3-M16	56P05-C*	SXT TRUNNION 1X RSVR ERROR HI	
*	AA374W	56TB3-M16	56J19-D1	SXT TRUNNION 1X RSVR ERROR HI	
*	A 254W	56TB3-M17	56P05-D*	SXT TRUNNION 1X RSVR ERROR LO	
*	AA374R	56TB3-M17	56J19-D2	SXT TRUNNION 1X RSVR ERROR LO	
*	A 113	56TB3-M18	56J04- 89	SHAFT CDU 16X LOAD	
*	AA385	56TB3-M18	56J19-C4	SHAFT CDU 16X LOAD	
	AA525	56TB3-M19	56J21- 96	+3 VDC AGC	175
*	A 381	56TB3-M19	56P09- 54	+3 VDC AGC	
*	AA426	56TB3-M19	56J20-D6	+3 VDC AGC	
	AA515	56TB3-M20	56TB3-C18	+28 VDC OPTICS	
	AA558	56TB3-M20	56TB3-C19	+28 VDC OPTICS	
*	A 122R	56TB3-M20	56J04- 43	+28 VDC OPTICS	
*	A 145R	56TB3-M20	56J05- 43	+28 VDC OPTICS	
*	A 445	56TB3-M20	56J09- 71	+28 VDC OPTICS	
*	AA457	56TB3-M20	56J20-M6	+28 VDC OPTICS	
*	A 29	56TB3-M21	56P01- 89	+28 VDC MDV	
*	AA280	56TB3-M21	56J17-R5	+28 VDC MDV	
*	AA405	56TB3-M21	56J20-M5	+28 VDC MDV	
*	A 435	56TB3-M22	56J09- 51	+28 VDC MDV	
*	A 507	56TB3-M22	56J10- 8	+28 VDC MDV	306
*	AA 82	56TB3-M22	56J12-L1	+28 VDC MDV	
*	AA404	56TB3-M22	56J20-L5	+28 VDC MDV	
*	A 279R	56TB3-N 1	56P06-X	IMU EMERGENCY HTR HI	
*	AA265W	56TB3-N 1	56J17-M4	IMU EMERGENCY HTR HI	
*	A 279W	56TB3-N 2	56P06-R	EMERGENCY HTR LO-OPER AND STBY	
*	AA265R	56TB3-N 2	56J17-N4	EMERGENCY HTR LO-OPER AND STBY	
	A 278B	56TB3-N 3	SHLD A278	0 VDC IMU	
	A 279B	56TB3-N 3	SHLD A279	0 VDC IMU	
	AA270B	56TB3-N 3	SHLD AA270	0 VDC IMU	
*	A 592	56TB3-N 3	56TB3-R 3	0 VDC IMU	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA408	56TB3-K22	56J20-N3	0 VDC OPTICS
*	A 2	56TB3-L 1	56P01- 65	IRIG TEMP GAIN SWITCH NC
*	A 398	56TB3-L 1	56J09- 86	IRIG TEMP GAIN SWITCH NC
*	AA290	56TB3-L 1	56J17-C8	IRIG TEMP GAIN SWITCH NC
*	A 32	56TB3-L 2	56P01- 55	IMU TD RELAY NO
*	AA249	56TB3-L 2	56J17-F8	IMU TD RELAY NO
*	A 275W	56TB3-L 3	56P06-L	IRIG TEMP CONT SENSOR RET
*	AA268	56TB3-L 3	56J17-B5	IRIG TEMP CONT SENSOR RET
*	A 275R	56TB3-L 4	56P06-M	IRIG TEMP CONT SENSOR HI
*	AA267	56TB3-L 4	56J17-B6	IRIG TEMP CONT SENSOR HI
*	A 400	56TB3-L 5	56J09- 76	IMU TEMP CONT K2 PIN 6
*	AA263	56TB3-L 5	56J17-L1	IMU TEMP CONT K2 PIN 6
*	A 210W	56TB3-L 6	56J08- 45	400 CPS 0.5 V PI PHASE
*	A 459W	56TB3-L 6	56P10- 39	400 CPS 0.5 V PI PHASE
*	A 121R	56TB3-L 7	56J04-106	SHAFT CDU TACH HI
*	AA316W	56TB3-L 7	56J18-A8	SHAFT CDU TACH HI
*	A 121W	56TB3-L 8	56J04- 92	SHAFT CDU TACH LO
*	AA316R	56TB3-L 8	56J18-A7	SHAFT CDU TACH LO
	A 121B	56TB3-L 9	SHLD A121	0 VDC OPTICS
	A 132B	56TB3-L 9	SHLD A132	0 VDC OPTICS
	AA316B	56TB3-L 9	SHLD AA316	0 VDC OPTICS
	AA544	56TB3-L 9	56TB3-M 9	0 VDC OPTICS
*	AA543	56TB3-L 9	56TB3-K 9	0 VDC OPTICS
*	A 132R	56TB3-L10	56J05- 12	TRUNNION CDU 1/2X RSVR P2
*	AA317W	56TB3-L10	56J18-A6	TRUNNION CDU 1/2X RSVR P2
*	A 132W	56TB3-L11	56E 18	TRUNNION CDU 1/2X RSVR P3
*	AA317R	56TB3-L11	56J18-B6	TRUNNION CDU 1/2X RSVR P3
*	A 148R	56TB3-L12	56J05- 56	TRUNNION CDU 1/2X RSVR LOAD HI
*	AA318W	56TB3-L12	56J18-F3	TRUNNION CDU 1/2X RSVR LOAD HI
*	A 282R	56TB3-L13	56P06-B*	PRESSURE SENSOR +28 VDC HI
*	AA464R	56TB3-L13	56J20-A6	PRESSURE SENSOR +28 VDC HI
*	A 456R	56TB3-L14	56P10- 69	400 CPS 115 V HI
*	A 532R	56TB3-L14	56P11-N	400 CPS 115 V HI
*	AA465R	56TB3-L14	56J20-H3	400 CPS 115 V HI
	AA533	56TB3-L15	56TB3-M15	0 VDC OPTICS
*	A 436	56TB3-L15	56J09- 83	0 VDC OPTICS
*	AA552	56TB3-L15	56TB3-K15	0 VDC OPTICS
*	A 310R	56TB3-L16	56P08-G*	SCT SHAFT 1/2X RSVR ERROR LO
*	AA379R	56TB3-L16	56J19-C8	SCT SHAFT 1/2X RSVR ERROR LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA295	56TB3-N 3	56J17-S3	0 VDC IMU
*	AA296	56TB3-N 3	56J17-S1	0 VDC IMU
*	A 278W	56TB3-N 4	56P06-W	IMU CONTROL HTR LO
*	AA270W	56TB3-N 4	56J17-N1	IMU CONTROL HTR LO
*	A 278R	56TB3-N 5	56P06-V	IMU CONTROL HTR HI
*	AA270R	56TB3-N 5	56J17-P1	IMU CONTROL HTR HI
*	A 277	56TB3-N 6	56P06-Y	EMERG HTR CONT MODULE LO
*	A 402	56TB3-N 6	56J09- 90	EMERG HTR CONT MODULE LO
*	A 114R	56TB3-N 7	56J04-100	SHAFT CDU 16X RSVR COS LO P3
*	AA313R	56TB3-N 7	56J18-A5	SHAFT CDU 16X RSVR COS LO P3
*	A 114W	56TB3-N 8	56J04- 86	SHAFT CDU 16X RSVR COS HI P1
*	AA313W	56TB3-N 8	56J18-A4	SHAFT CDU 16X RSVR COS HI P1
	A 114B	56TB3-N 9	SHLD A114	0 VDC OPTICS
	A 115B	56TB3-N 9	SHLD A115	0 VDC OPTICS
	AA308B	56TB3-N 9	SHLD AA308	0 VDC OPTICS
	AA546	56TB3-N 9	56TB3-R 9	0 VDC OPTICS
*	AA545	56TB3-N 9	56TB3-M 9	0 VDC OPTICS
*	A 115W	56TB3-N10	56J04- 87	SHAFT CDU 16X RSVR SIN HI P2
*	AA314W	56TB3-N10	56J18-B5	SHAFT CDU 16X RSVR SIN HI P2
*	A 115R	56TB3-N11	56J04-101	SHAFT CDU 16X RSVR SIN LO P4
*	AA314R	56TB3-N11	56J18-C5	SHAFT CDU 16X RSVR SIN LO P4
*	A 108R	56TB3-N13	56J04- 66	SHAFT CDU 1/2X COS LO S4
*	A 261R	56TB3-N13	56P05-W*	SHAFT CDU 1/2X COS LO P4
*	A 313W	56TB3-N13	56P08-M*	SHAFT CDU 1/2X COS LO P2
*	AA396R	56TB3-N13	56J19-D6	SHAFT CDU 1/2X COS LO S4
*	A 108W	56TB3-N14	56J04- 56	SHAFT CDU 1/2X COS HI S2
*	A 261W	56TB3-N14	56P05-X*	SHAFT CDU 1/2X COS HI P2
*	A 313R	56TB3-N14	56P08-N*	SHAFT CDU 1/2X COS HI P4
*	AA396W	56TB3-N14	56J19-D5	SHAFT CDU 1/2X COS HI S2
	A 108B	56TB3-N15	SHLD A108	0 VDC OPTICS
	AA535	56TB3-N15	56TB3-R15	0 VDC OPTICS
*	A 429	56TB3-N15	56J09- 1	0 VDC OPTICS
*	AA534	56TB3-N15	56TB3-M15	0 VDC OPTICS
*	A 309R	56TB3-N16	56P08-E*	SCT SHAFT TACH HI
*	AA373W	56TB3-N16	56J19-B9	SCT SHAFT TACH HI
*	A 309W	56TB3-N17	56P08-F*	SCT SHAFT TACH LO
*	AA373R	56TB3-N17	56J19-C9	SCT SHAFT TACH LO
*	A 136	56TB3-N18	56J05- 89	TRUNNION CDU 16X LOAD
*	AA384	56TB3-N18	56J19-C3	TRUNNION CDU 16X LOAD

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SCALE-NONE
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INCHES
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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 319W	56P09- 79	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 325W	56P09- 80	56TB1-G 7	25.6 KC LO OPTICS
A 324W	56P09- 81	56TB1-G 4	25.6 KC LO IMU
A 364W	56P09- 82	56TB2-G 2	IG CDU ERROR SIG RET
A 366W	56P09- 83	56TB2-R 2	OG CDU ERROR SIG RET
A 384	56P09- 84	56TB2-D 5	0 VDC IMU
A 368	56P09- 85	56TB3-C 5	IRIG TEMP (TELEMETRY)
A 383R	56P09- 86	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
A 372R	56P09- 87	56TB3-D 9	SHAFT CDU MDA (TEST) HI
A 372W	56P09- 88	56TB3-D10	SHAFT CDU MDA (TEST) LO
A 374R	56P09- 89	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
A 375R	56P09- 90	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
A 376R	56P09- 91	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
A 376W	56P09- 92	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
A 352R	56P09- 93	56TB1-D 4	IG TORQUE MOTOR RET
A 354R	56P09- 94	56TB1-B 2	OG TORQUE MOTOR RET
A 354W	56P09- 95	56TB1-A 2	OG TORQUE MOTOR HI
A 364R	56P09- 96	56TB2-H 2	IG CDU 1X ERROR SIG
A 369	56P09- 97	56TB3-D 5	HTR CURRENT (TELEMETERY)
A 367	56P09- 98	56TB3-D 4	ACCEL TEMP (TELEMETRY)
A 383W	56P09- 99	56TB3-C 8	TRUNNION CDU MDA LO (TEST)
A 373R	56P09-100	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
A 373W	56P09-101	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)
A 374W	56P09-102	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
A 375W	56P09-103	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
A 377R	56P09-104	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
A 377W	56P09-105	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
A 352W	56P09-106	56TB1-D 3	IG TORQUE MOTOR HI
A 353R	56P09-107	56TB1-A 3	MG TORQUE MOTOR RET
A 353W	56P09-108	56TB1-A 4	MG TORQUE MOTOR HI

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 461	56P10- 8	56J22-171	MAIN PANEL GIMBAL LOCK LIGHT
	A 462	56P10- 9	56TB3-F 1	0 VDC SPACECRAFT
	A 453	56P10- 10	56J09- 29	GIMBAL LOCK LIGHT CONDITION LAMP TEST
	A 454	56P10- 12	56TB3-F 5	GIMBAL LOCK SIGNAL
	A 452	56P10- 13	56TB1-S 5	0 VDC IMU
	A 455	56P10- 24	56TB2-S 8	GIMBAL LOCK LIGHT HI
	A 459R	56P10- 38	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
	A 459W	56P10- 39	56TB3-L 6	400 CPS 0.5 V PI PHASE
*	A 447	56P10- 48	56J09- 95	400 CPS 26 V HI
	A 460	56P10- 49	56TB3-B14	400 CPS 26 V LO
	A 456W	56P10- 68	56TB3-K14	400 CPS 115 V LO
	A 456R	56P10- 69	56TB3-L14	400 CPS 115 V HI
	A 457L	56P10- 81	56TB1-T 2	400 CPS 6 V LO
*	A 432W	56P10- 93	56J09- 62	400 CPS 6 V HI
	A 457R	56P10- 94	56TB1-R 2	400 CPS 6 V LO
	A 457W	56P10- 95	56TB1-S 2	400 CPS 6 V LO
*	A 432R	56P10-106	56J09- 61	400 CPS 6 V HI
*	A 432L	56P10-107	56J09- 53	400 CPS 6 V HI
*	A 432K	56P10-108	56J09- 52	400 CPS 6 V LO

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 358W	56P09- 40	56TB3-N21	COS AMG 1X S1
A 361	56P09- 41	56TB1-C 8	Z GYRO ERROR SIG
A 379R	56P09- 42	56TB3-K19	IMU PRESSURE MONITOR HI
A 350	56P09- 43	56TB1-M 2	Y PIP ERROR MONITOR
A 351	56P09- 44	56TB1-T 7	Z PIP ERROR MONITOR
A 321R	56P09- 45	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
A 345	56P09- 46	56TB1-U 2	IMU DELAY LIGHT HI
A 335	56P09- 47	56TB3-B 3	CDU FAIL LIGHT HI
A 334	56P09- 48	56TB3-S 6	IMU FAIL LIGHT HI
A 333	56P09- 49	56TB3-B 2	ACCEL FAIL LIGHT HI
A 363W	56P09- 50	56TB1-A 8	IMU OG ERROR SIG
A 363K	56P09- 51	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 362	56P09- 52	56TB1-C 7	X GYRO ERROR SIG
A 379W	56P09- 53	56TB3-H19	IMU PRESSURE MONITOR LO
A 381	56P09- 54	56TB3-M19	+3 VDC AGC
A 321W	56P09- 55	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
A 322R	56P09- 56	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 322W	56P09- 57	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 323W	56P09- 58	56TB1-C 2	3200 CPS 2 V LO
A 323R	56P09- 59	56TB1-D 2	3200 CPS 2 V HI
A 363R	56P09- 60	56TB1-A 7	IMU MG ERROR SIG
A 363L	56P09- 61	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 380	56P09- 62	56TB3-L19	+13 VDC AGC
A 382	56P09- 63	56TB3-N19	0 VDC AGC
A 371L	56P09- 64	56TB3-G19	AGC TEMP MONITOR NO 1
A 328	56P09- 65	56TB3-H20	+28 VDC OPTICS
A 329	56P09- 66	56TB3-L21	0 VDC OPTICS
A 319R	56P09- 67	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 325R	56P09- 68	56TB1-H 7	25.6 KC HI OPTICS
A 324R	56P09- 69	56TB1-H 4	25.6 KC HI IMU
A 365R	56P09- 70	56TB2-H 7	MG CDU 1X ERROR SIG
A 365W	56P09- 71	56TB2-G 7	MG CDU ERROR SIG RET
A 366R	56P09- 72	56TB2-N 2	OG CDU 1X ERROR SIG
A 370	56P09- 73	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
A 371R	56P09- 74	56TB3-F19	AGC TEMP MONITOR NO 2
A 371W	56P09- 75	56TB3-D19	AGC TEMP MONITOR NO 3
A 378R	56P09- 76	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
A 378W	56P09- 77	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
A 319L	56P09- 78	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 530	56P11-A	56TB3-G21	+28 VDC AGC BUSS A
A 525	56P11-B	56TB3-C20	+28 VDC IMU BUSS A
A 526	56P11-C	56TB3-C21	+28 VDC IMU BUSS A
A 527	56P11-D	56TB1-D 8	0 VDC IMU
A 534	56P11-E	56TB2-M 7	0 VDC IMU
A 533	56P11-F	56TB2-M 4	0 VDC IMU
A 529	56P11-G	56TB3-D15	0 VDC OPTICS
A 528	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A
A 531	56P11-J	56TB3-G20	0 VDC AGC
A 532W	56P11-K	56TB3-K14	400 CPS 115 V LO
A 535	56P11-L	56TB3-F21	STRUCTURE GND
A 524	56P11-M	56TB3-D22	+28 VDC STBY BUSS A
A 532R	56P11-N	56TB3-L14	400 CPS 115 V HI

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0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 238W	56TB1-A 2	56P03-Y	OG TORQUE MOTOR HI
*	A 273R	56TB1-A 2	56P06-H	OG TORQUE MOTOR HI
*	A 354W	56TB1-A 2	56P09- 95	OG TORQUE MOTOR HI
*	AA 34R	56TB1-A 2	56J11-H6	OG TORQUE MOTOR HI
*	A 239W	56TB1-A 3	56P03-A*	MG TORQUE MOTOR RET
*	A 240R	56TB1-A 3	56P03-B*	MG TORQUE MOTOR RET
*	A 353R	56TB1-A 3	56P09-107	MG TORQUE MOTOR RET
*	AA 32W	56TB1-A 3	56J11-G6	MG TORQUE MOTOR RET
*	A 239R	56TB1-A 4	56P03-Z	MG TORQUE MOTOR HI
*	A 240W	56TB1-A 4	56P03-C*	MG TORQUE MOTOR HI
*	A 353W	56TB1-A 4	56P09-108	MG TORQUE MOTOR HI
*	AA 32R	56TB1-A 4	56J11-F6	MG TORQUE MOTOR HI
*	A 235W	56TB1-A 5	56P03-L	MG CDU ATTITUDE STEERING ERROR
*	AA 20R	56TB1-A 5	56J11-C2	MG CDU ATTITUDE STEERING ERROR
	A 235B	56TB1-A 6	SHLD A235	MG CDU ERROR SIG RET
*	A 235R	56TB1-A 6	56P03-K	MG CDU ERROR SIG RET
*	AA 20W	56TB1-A 6	56J11-B2	MG CDU ERROR SIG RET
*	A 231K	56TB1-A 7	56P03-W	IMU MG ERROR SIG
*	A 363R	56TB1-A 7	56P09- 60	IMU MG ERROR SIG
*	AA 29R	56TB1-A 7	56J11-A5	IMU MG ERROR SIG
*	A 231R	56TB1-A 8	56P03-C	IMU OG ERROR SIG
*	A 363W	56TB1-A 8	56P09- 50	IMU OG ERROR SIG
*	AA 29L	56TB1-A 8	56J11-A6	IMU OG ERROR SIG
*	A 238R	56TB1-B 2	56P03-X	OG TORQUE MOTOR RFT
*	A 273W	56TB1-B 2	56P06-J	OG TORQUE MOTOR RFT
*	A 354R	56TB1-B 2	56P09- 94	OG TORQUE MOTOR RET
*	AA 34W	56TB1-B 2	56J11-H5	OG TORQUE MOTOR RET
*	A 298W	56TB1-B 3	56P07-J*	0 VDC IMU
*	AA 23W	56TB1-B 3	56J11-G2	0 VDC IMU
*	A 298L	56TB1-B 4	56P07-G*	MG ADA
*	AA 23L	56TB1-B 4	56J11-H1	MG ADA
	A 234B	56TB1-B 5	SHLD A234	IG CDU ERROR SIG RET
*	A 234R	56TB1-B 5	56P03-J	IG CDU ERROR SIG RET
*	AA 16W	56TB1-B 5	56J11-B1	IG CDU ERROR SIG RET
*	A 224W	56TB1-B 6	56P02-U	3200 CPS 2 V FEEDBACK LO
*	AA 42R	56TB1-B 6	56J11-G3	3200 CPS 2 V FEEDBACK LO
*	A 231W	56TB1-B 7	56P03-V	IMU GIMBAL AND GYRO ERROR SIG LO
*	A 363K	56TB1-B 7	56P09- 51	IMU GIMBAL AND GYRO ERROR SIG LO
*	AA 29K	56TB1-B 7	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA155K	56TB1-B 7	56J15-B2	IMU GIMBAL AND GYRO ERROR SIG LO
*	A 231L	56TB1-B 8	56P03-U	IMU IG AND Y GYRO ERROR SIG
*	A 363L	56TB1-B 8	56P09- 61	IMU IG AND Y GYRO ERROR SIG
*	AA 29W	56TB1-B 8	56J11-B6	IMU IG AND Y GYRO ERROR SIG
*	AA155R	56TB1-B 8	56J15-A2	IMU IG AND Y GYRO ERROR SIG
*	A 223W	56TB1-C 2	56P02-S	3200 CPS 2 V LO
*	A 323W	56TB1-C 2	56P09- 58	3200 CPS 2 V LO
*	AA 28K	56TB1-C 2	56J11-L2	3200 CPS 2 V LO
*	AA 28L	56TB1-C 2	56J11-M2	3200 CPS 2 V LO
*	A 298R	56TB1-C 3	56P07-F*	OG ADA
*	AA 23K	56TB1-C 3	56J11-G1	OG ADA
*	A 298K	56TB1-C 4	56P07-H*	IG ADA
*	AA 23R	56TB1-C 4	56J11-F1	IG ADA
*	A 234W	56TB1-C 5	56P03-H	IG CDU ATTITUDE STFERING ERROR
*	AA 16R	56TB1-C 5	56J11-C1	IG CDU ATTITUDE STEERING ERROR
*	A 224R	56TB1-C 6	56P02-T	3200 CPS 2 V FEEDBACK HI
*	AA 42W	56TB1-C 6	56J11-F3	3200 CPS 2 V FEEDBACK HI
*	A 229W	56TB1-C 7	56P03-A	X GYRO ERROR SIG
*	A 362	56TB1-C 7	56P09- 52	X GYRO ERROR SIG
*	AA155L	56TB1-C 7	56J15-B1	X GYRO ERROR SIG
*	A 230W	56TB1-C 8	56P03-B	Z GYRO ERROR SIG
*	A 361	56TB1-C 8	56P09- 41	Z GYRO ERROR SIG
*	AA155W	56TB1-C 8	56J15-A1	Z GYRO ERROR SIG
*	A 223R	56TB1-D 2	56P02-R	3200 CPS 2 V HI
*	A 323R	56TB1-D 2	56P09- 59	3200 CPS 2 V HI
*	AA 28R	56TB1-D 2	56J11-M1	3200 CPS 2 V HI
*	AA 28W	56TB1-D 2	56J11-L1	3200 CPS 2 V HI
*	A 241R	56TB1-D 3	56P03-D*	IG TORQUE MOTOR HI
*	A 242W	56TB1-D 3	56P03-G*	IG TORQUE MOTOR HI
*	A 352W	56TB1-D 3	56P09-106	IG TORQUE MOTOR HI
*	AA 30R	56TB1-D 3	56J11-D6	IG TORQUE MOTOR HI
*	A 241W	56TB1-D 4	56P03-E*	IG TORQUE MOTOR RET
*	A 242R	56TB1-D 4	56P03-F*	IG TORQUE MOTOR RET
*	A 352R	56TB1-D 4	56P09- 93	IG TORQUE MOTOR RET
*	AA 30W	56TB1-D 4	56J11-D5	IG TORQUE MOTOR RET
*	A 272	56TB1-D 5	56P06-F	-28 VDC
*	AA 27	56TB1-D 5	56J11-N6	-28 VDC
*	A 26	56TB1-D 6	56P01- 4	COARSE ALIGN RELAY CONTROL
*	AA 35	56TB1-D 6	56J11-L3	COARSE ALIGN RELAY CONTROL

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 541	56P12-A	56TB3-G22	+28 VDC AGC BUSS B
A 537	56P12-B	56TB3-D20	+28 VDC IMU BUSS B
A 538	56P12-C	56TB3-D21	+28 VDC IMU BUSS B
A 543	56P12-D	56TB1-N 4	0 VDC IMU
A 544	56P12-E	56TB3-S 2	0 VDC IMU
A 546	56P12-F	56TB2-M 1	0 VDC IMU
A 540	56P12-G	56TB3-C15	0 VDC OPTICS
A 539	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B
A 542	56P12-J	56TB3-F20	0 VDC AGC
A 545	56P12-L	56TB3-F22	STRUCTURE GND
A 536	56P12-M	56TB3-C22	+28 VDC STBY BUSS B

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SCALE - NONE	REV LTR D	SHEET 81

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 224B	56TB1-D 7	SHLD A224	0 VDC IMU	
	A 229B	56TB1-D 7	SHLD A229	0 VDC IMU	
	AA572	56TB1-D 7	56TB1-D 8	0 VDC IMU	
	AA590	56TB1-D 7	56TB2-V 2	0 VDC IMU	
	A 230B	56TB1-D 8	SHLD A230	0 VDC IMU	
	AA587	56TB1-D 8	56TB1-N 8	0 VDC IMU	
*	A 527	56TB1-D 8	56P11-D	0 VDC IMU	
*	AA572	56TB1-D 8	56TB1-D 7	0 VDC IMU	
*	A 466	56TB1-F 1	56J10- 7	SPARE FAIL LIGHT HI	305
*	A 565	56TB1-F 1	56J08- 50	SPARE FAIL LIGHT HI	
*	A 158	56TB1-F 8	56J06- 81	ATTIT CONT MODE COMMAND FROM AGC	
*	A 475	56TB1-F 8	56J10- 12	ATTIT CONT MODE COMMAND FROM AGC	314
*	A 179	56TB1-G 1	56J08- 67	+28 VDC MDV	
*	A 410	56TB1-G 1	56J09- 67	+28 VDC MDV	
*	A 271L	56TB1-G 2	56P06-C	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 319R	56TB1-G 2	56P09- 67	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	AA 60W	56TB1-G 2	56J12-P2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 324W	56TB1-G 4	56P09- 81	25.6 KC LO IMU	
*	A 564R	56TB1-G 4	56E 3	25.6 KC LO IMU	
*	AA 64R	56TB1-G 4	56J12-P5	25.6 KC LO IMU	
*	A 508	56TB1-G 5	56J10- 10	+28 VDC TO COMPUTER RELAY	327
*	AA 79	56TB1-G 5	56J12-M4	+28 VDC TO COMPUTER RELAY	
*	A 325W	56TB1-G 7	56P09- 80	25.6 KC LO OPTICS	
*	A 560W	56TB1-G 7	56E 16	25.6 KC LO OPTICS	
*	AA 63R	56TB1-G 7	56J12-N6	25.6 KC LO OPTICS	
*	A 271W	56TB1-H 2	56P06-B	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 319L	56TB1-H 2	56P09- 78	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	AA 60R	56TB1-H 2	56J12-R1	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 271R	56TB1-H 3	56P06-A	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 319W	56TB1-H 3	56P09- 79	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 60L	56TB1-H 3	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 324R	56TB1-H 4	56P09- 69	25.6 KC HI IMU	
*	A 564W	56TB1-H 4	56E 4	25.6 KC HI IMU	
*	AA 64W	56TB1-H 4	56J12-N4	25.6 KC HI IMU	
*	A 478	56TB1-H 5	56J10- 9	AGC FAIL SIG	326
*	AA 78	56TB1-H 5	56J12-M3	AGC FAIL SIG	
*	A 198	56TB1-H 6	56J08- 71	AGC POWER SUPPLY FAIL SIG HI	
*	A 332	56TB1-H 6	56P09- 13	AGC POWER SUPPLY FAIL SIG HI	
*	AA 80	56TB1-H 6	56J12-M1	AGC POWER SUPPLY FAIL SIG HI	

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INCHES
0 1 2
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA547	56TB3-R 9	56TB3-S 9	0 VDC OPTICS
*	AA546	56TB3-R 9	56TB3-N 9	0 VDC OPTICS
*	A 258R	56TB3-R10	56P05-Q*	SXT AS 16X RSVR COS LO
*	AA312W	56TB3-R10	56J18-D1	SXT AS 16X RSVR COS LO
*	A 258W	56TB3-R11	56P05-R*	SXT AS 16X RSVR COS HI
*	AA312R	56TB3-R11	56J18-C1	SXT AS 16X RSVR COS HI
*	A 109R	56TB3-R12	56J04- 45	SHAFT CDU 1X P3 (S3)
*	AA328L	56TB3-R12	56J18-L6	SHAFT CDU 1X P3 (S3)
*	A 134W	56TB3-R13	56J05- 67	TRUNNION CDU 1/2X RSVR S3
*	AA386W	56TB3-R13	56J19-F9	TRUNNION CDU 1/2X RSVR S3
*	A 134R	56TB3-R14	56J05- 68	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
*	AA386R	56TB3-R14	56J19-F8	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	A 134B	56TB3-R15	SHLD A134	0 VDC OPTICS
	A 261B	56TB3-R15	SHLD A261	0 VDC OPTICS
	A 313B	56TB3-R15	SHLD A313	0 VDC OPTICS
	AA553	56TB3-R15	56TB3-S15	0 VDC OPTICS
*	AA535	56TB3-R15	56TB3-N15	0 VDC OPTICS
*	A 302W	56TB3-R16	56P08-P	SCT TRUNNION TACH LO
*	AA372R	56TB3-R16	56J19-A8	SCT TRUNNION TACH LO
*	A 302R	56TB3-R17	56P08-N	SCT TRUNNION TACH HI
*	AA372W	56TB3-R17	56J19-A9	SCT TRUNNION TACH HI
*	A 305	56TB3-R18	56P08-U	SCT TRUNNION 1X RSVR LOAD
*	AA378	56TB3-R18	56J19-A7	SCT TRUNNION 1X RSVR LOAD
*	A 386W	56TB3-R19	56P09- 7	+2.5 VDC CONDITIONING HI
*	AA463W	56TB3-R19	56J20-D5	+2.5 VDC CONDITIONING HI
*	A 330	56TB3-R20	56P09- 4	+28 VDC AGC
*	AA422	56TB3-R20	56J20-H4	+28 VDC AGC
	AA517R	56TB3-R21	56J22-120	800 CPS 28 V 1 PCT LO IMU
*	A 318W	56TB3-R21	56P09- 8	800 CPS 28 V 1 PCT LO IMU
*	AA410R	56TB3-R21	56J20-F6	800 CPS 28 V 1 PCT LO IMU
	AA517W	56TB3-R22	56J22-153	800 CPS 28 V 1 PCT HI IMU
*	A 318R	56TB3-R22	56P09- 9	800 CPS 28 V 1 PCT HI IMU
*	AA410W	56TB3-R22	56J20-F5	800 CPS 28 V 1 PCT HI IMU
	A 237B	56TB3-S 2	SHLD A237	0 VDC IMU
	A 591	56TB3-S 2	56TB3-R 3	0 VDC IMU
	AA594	56TB3-S 2	56TB2-V 3	0 VDC IMU
*	A 544	56TB3-S 2	56P12-E	0 VDC IMU
*	AA248	56TB3-S 2	56J17-S2	0 VDC IMU
*	AA592	56TB3-S 2	56TB2-M 6	0 VDC IMU

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INTERCONNECT LIST

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 116L	56TB3-S 4	56J04-108	SHAFT CDU ENCODER PHASE 2
*	AA284L	56TB3-S 4	56J17-F9	SHAFT CDU ENCODER PHASE 2
	A 116B	56TB3-S 5	SHLD A116	SHAFT CDU ENCODER COM
*	A 116R	56TB3-S 5	56J04- 94	SHAFT CDU ENCODER COM
*	AA284R	56TB3-S 5	56J17-D9	SHAFT CDU ENCODER COM
*	A 188	56TB3-S 6	56J08- 60	IMU FAIL LIGHT HI
*	A 334	56TB3-S 6	56P09- 48	IMU FAIL LIGHT HI
*	A 465	56TB3-S 6	56J10- 6	IMU FAIL LIGHT HI
*	A 253W	56TB3-S 7	56P05-B*	SXT AT 64X RSVR COS LO
*	AA308R	56TB3-S 7	56J18-B1	SXT AT 64X RSVR COS LO
*	A 253R	56TB3-S 8	56P05-A*	SXT AT 64X RSVR COS HI
*	AA308W	56TB3-S 8	56J18-A1	SXT AT 64X RSVR COS HI
	A 138B	56TB3-S 9	SHLD A138	0 VDC OPTICS
	A 253B	56TB3-S 9	SHLD A253	0 VDC OPTICS
	AA310B	56TB3-S 9	SHLD AA310	0 VDC OPTICS
	AA548	56TB3-S 9	56TB3-T 9	0 VDC OPTICS
*	AA547	56TB3-S 9	56TB3-R 9	0 VDC OPTICS
*	A 138W	56TB3-S10	56J05- 87	TRUNNION CDU 16X RSVR SIN HI P2
*	AA310W	56TB3-S10	56J18-B3	TRUNNION CDU 16X RSVR SIN HI P2
*	A 138R	56TB3-S11	56J05-101	TRUNNION CDU 16X RSVR SIN LO P4
*	AA310R	56TB3-S11	56J18-B4	TRUNNION CDU 16X RSVR SIN LO P4
*	A 109W	56TB3-S12	56J04- 35	SHAFT CDU 1X P2 (S2)
*	AA328R	56TB3-S12	56J18-L5	SHAFT CDU 1X P2 (S2)
*	A 306R	56TB3-S13	56P08-V	SCT TRUNNION 1X SIN LO
*	AA383W	56TB3-S13	56J19-G3	SCT TRUNNION 1X SIN LO
*	A 306W	56TB3-S14	56P08-W	SCT TRUNNION 1X SIN HI
*	AA383R	56TB3-S14	56J19-G2	SCT TRUNNION 1X SIN HI
	A 257B	56TB3-S15	SHLD A257	0 VDC OPTICS
	A 260B	56TB3-S15	SHLD A260	0 VDC OPTICS
	A 302B	56TB3-S15	SHLD A302	0 VDC OPTICS
	AA536	56TB3-S15	56TB3-T15	0 VDC OPTICS
*	AA553	56TB3-S15	56TB3-R15	0 VDC OPTICS
*	A 260W	56TB3-S16	56P05-V*	SXT SHAFT TACH LO
*	AA371R	56TB3-S16	56J19-A2	SXT SHAFT TACH LO
*	A 260R	56TB3-S17	56P05-U*	SXT SHAFT TACH HI
*	AA371W	56TB3-S17	56J19-A3	SXT SHAFT TACH HI
*	A 264	56TB3-S18	56P05-AA	SXT SHAFT 1/2X RSVR LOAD
*	AA376	56TB3-S18	56J19-C5	SXT SHAFT 1/2X RSVR LOAD
*	A 317W	56TB3-S19	56P09- 6	0 VDC CONDITIONING

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INTERCONNECT LIST

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA522	56TB3-N19	56J21- 63	0 VDC AGC
*	A 331	56TB3-N19	56P09- 18	0 VDC AGC
*	A 382	56TB3-N19	56P09- 63	0 VDC AGC
*	AA424	56TB3-N19	56J20-K4	0 VDC AGC
*	A 64R	56TB3-N20	56J02- 20	COS AMG 1X S3
*	A 221R	56TB3-N20	56P02-L	COS AMG 1X S3
*	A 358R	56TB3-N20	56P09- 28	COS AMG 1X S3
*	AA419W	56TB3-N20	56J20-A3	COS AMG 1X S3
*	AA508W	56TB3-N20	56J22-113	COS AMG 1X S3
*	A 64W	56TB3-N21	56J02- 6	COS AMG 1X S1
*	A 221W	56TB3-N21	56P02-M	COS AMG 1X S1
*	A 358W	56TB3-N21	56P09- 40	COS AMG 1X S1
*	AA419R	56TB3-N21	56J20-B3	COS AMG 1X S1
*	AA508R	56TB3-N21	56J22-114	COS AMG 1X S1
*	A 326	56TB3-N22	56P09- 20	+28 VDC STBY
*	AA445	56TB3-N22	56J20-P3	+28 VDC STBY
*	A 237W	56TB3-R 1	56P03-P	PITCH ERROR BODY AND BODY OFFSET AXIS LO
*	AA289W	56TB3-R 1	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
*	A 237R	56TB3-R 2	56P03-R	PITCH-YAW RSVR S4
*	AA289R	56TB3-R 2	56J17-C2	PITCH-YAW RSVR S4
	A 236B	56TB3-R 3	SHLD A236	0 VDC IMU
	A 592	56TB3-R 3	56TB3-N 3	0 VDC IMU
	AA265B	56TB3-R 3	SHLD AA265	0 VDC IMU
*	A 591	56TB3-R 3	56TB3-S 2	0 VDC IMU
*	AA297	56TB3-R 3	56J17-S4	0 VDC IMU
*	AA466	56TB3-R 3	56TB3-H12	0 VDC IMU
*	A 236R	56TB3-R 4	56P03-N	PITCH YAW RSVR S3
*	AA247R	56TB3-R 4	56J17-D2	PITCH YAW RSVR S3
*	A 236W	56TB3-R 5	56P03-M	YAW ERROR BODY OFFSET AXIS LO
*	AA247W	56TB3-R 5	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	A 276	56TB3-R 6	56P06-N	ACCEL INDICATING SENSOR HI
*	A 395	56TB3-R 6	56J09- 97	ACCEL INDICATING SENSOR HI
*	A 248W	56TB3-R 7	56P05-P*	SXT AS 16X RSVR SIN LO
*	AA311R	56TB3-R 7	56J18-D3	SXT AS 16X RSVR SIN LO
*	A 248R	56TB3-R 8	56P05-N*	SXT AS 16X RSVR SIN HI
*	AA311W	56TB3-R 8	56J18-D2	SXT AS 16X RSVR SIN HI
	A 248B	56TB3-R 9	SHLD A248	0 VDC OPTICS
	A 258B	56TB3-R 9	SHLD A258	0 VDC OPTICS
	AA307B	56TB3-R 9	SHLD AA307	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA427W	56TB3-S19	56J20-C5	0 VDC CONDITIONING
*	A 386R	56TB3-S20	56P09- 21	+2.5 VDC CONDITIONING LO
*	AA463R	56TB3-S20	56J20-D4	+2.5 VDC CONDITIONING LO
	A 559	56TB3-S21	56E 6	+28 VDC IMU
	AA560	56TB3-S21	56TB3-T21	+28 VDC IMU
*	A 21	56TB3-S21	56P01- 7	+28 VDC IMU
*	AA456	56TB3-S21	56J20-K2	+28 VDC IMU
*	A 139L	56TB3-T 2	56J05-108	TRUNNION CDU ENCODER PHASE 2
*	AA281L	56TB3-T 2	56J17-A8	TRUNNION CDU ENCODER PHASE 2
	A 139B	56TB3-T 3	SHLD A139	TRUNNION CDU ENCODER COM
*	A 139R	56TB3-T 3	56J05- 94	TRUNNION CDU ENCODER COM
*	AA281R	56TB3-T 3	56J17-A7	TRUNNION CDU ENCODER COM
*	A 139W	56TB3-T 4	56J05-107	TRUNNION CDU ENCODER PHASE 1
*	AA281W	56TB3-T 4	56J17-A6	TRUNNION CDU ENCODER PHASE 1
*	A 116W	56TB3-T 5	56J04-107	SHAFT CDU ENCODER PHASE 1
*	AA284W	56TB3-T 5	56J17-C9	SHAFT CDU ENCODER PHASE 1
*	A 252W	56TB3-T 7	56P05-Z	SXT AT 64X RSVR SIN HI
*	AA307R	56TB3-T 7	56J18-B2	SXT AT 64X RSVR SIN HI
*	A 252R	56TB3-T 8	56P05-Y	SXT AT 64X RSVR SIN LO
*	AA307W	56TB3-T 8	56J18-C2	SXT AT 64X RSVR SIN LO
	A 137B	56TB3-T 9	SHLD A137	0 VDC OPTICS
	A 252B	56TB3-T 9	SHLD A252	0 VDC OPTICS
	AA309B	56TB3-T 9	SHLD AA309	0 VDC OPTICS
	AA549	56TB3-T 9	56TB3-G15	0 VDC OPTICS
*	AA548	56TB3-T 9	56TB3-S 9	0 VDC OPTICS
*	A 137W	56TB3-T10	56J05- 86	TRUNNION CDU 16X RSVR COS HI P1
*	AA309W	56TB3-T10	56J18-A2	TRUNNION CDU 16X RSVR COS HI P1
*	A 137R	56TB3-T11	56J05-100	TRUNNION CDU 16X RSVR COS LO P3
*	AA309R	56TB3-T11	56J18-A3	TRUNNION CDU 16X RSVR COS LO P3
*	A 109L	56TB3-T12	56J04- 34	SHAFT CDU 1X P1 (S1)
*	AA328W	56TB3-T12	56J18-K6	SHAFT CDU 1X P1 (S1)
*	A 307W	56TB3-T13	56P08-Y	SCT TRUNNION 1X COS LO
*	AA382R	56TB3-T13	56J19-G1	SCT TRUNNION 1X COS LO
*	A 307R	56TB3-T14	56P08-X	SCT TRUNNION 1X COS HI
*	AA382W	56TB3-T14	56J19-H1	SCT TRUNNION 1X COS HI
	A 306B	56TB3-T15	SHLD A306	0 VDC OPTICS
	A 307B	56TB3-T15	SHLD A307	0 VDC OPTICS
	AA537	56TB3-T15	56TB3-B15	0 VDC OPTICS
*	AA536	56TB3-T15	56TB3-S15	0 VDC OPTICS

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 296R	56TB1-M 3	56P07-Z	Y PIP ERROR HI
*	AA121W	56TB1-M 3	56J13-A3	Y PIP ERROR HI
*	A 293L	56TB1-M 4	56P07-R	Y PIP TORQUE -
*	AA122L	56TB1-M 4	56J13-N3	Y PIP TORQUE -
*	A 294R	56TB1-M 5	56P07-U	X PIP TORQUE +
*	AA119R	56TB1-M 5	56J13-H1	X PIP TORQUE +
*	A 295W	56TB1-M 6	56P07-Y	X PIP ERROR LO
*	AA118R	56TB1-M 6	56J13-B1	X PIP ERROR LO
*	A 295R	56TB1-M 7	56P07-X	X PIP ERROR HI
*	AA118W	56TB1-M 7	56J13-A1	X PIP ERROR HI
*	A 290R	56TB1-M 8	56P07-D	X GYRO TORQUE +
*	AA124R	56TB1-M 8	56J13-D6	X GYRO TORQUE +
*	A 17L	56TB1-N 1	56P01-106	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
*	A 430L	56TB1-N 1	56J09- 64	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
*	A 296W	56TB1-N 2	56P07-A*	Y PIP ERROR LO
*	AA121R	56TB1-N 2	56J13-B3	Y PIP ERROR LO
*	A 180R	56TB1-N 3	56J08- 55	PROJECTION LAMP HI INTENSITY
*	A 419R	56TB1-N 3	56J09- 55	PROJECTION LAMP HI INTENSITY
	A 293B	56TB1-N 4	SHLD A293	0 VDC IMU
	A 587	56TB1-N 4	56TB1-N 5	0 VDC IMU
	AA122B	56TB1-N 4	SHLD AA122	0 VDC IMU
	AA588	56TB1-N 4	56TB1-S 8	0 VDC IMU
	AA589	56TB1-N 4	56TB2-M 5	0 VDC IMU
*	A 543	56TB1-N 4	56P12-D	0 VDC IMU
	A 294B	56TB1-N 5	SHLD A294	0 VDC IMU
	A 588	56TB1-N 5	56TB1-N 8	0 VDC IMU
	AA119B	56TB1-N 5	SHLD AA119	0 VDC IMU
*	A 587	56TB1-N 5	56TB1-N 4	0 VDC IMU
*	AA 99	56TB1-N 5	56J12-R2	0 VDC IMU
	A 290B	56TB1-N 8	SHLD A290	0 VDC IMU
	AA124B	56TB1-N 8	SHLD AA124	0 VDC IMU
*	A 588	56TB1-N 8	56TB1-N 5	0 VDC IMU
*	AA100	56TB1-N 8	56J12-R4	0 VDC IMU
*	AA587	56TB1-N 8	56TB1-D 8	0 VDC IMU
	AA611	56TB1-R 1	56TB1-S 1	400 CPS VAR ILLUM PWR
*	A 17R	56TB1-R 1	56P01-103	400 CPS VAR ILLUM PWR
*	A 17W	56TB1-R 1	56P01-108	400 CPS VAR ILLUM PWR
*	A 430R	56TB1-R 1	56J09- 54	400 CPS VAR ILLUM PWR
	AA512	56TB1-R 2	56TB1-S 2	400 CPS 6 V LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 180K	56TB1-R 2	56J08- 19	400 CPS 6 V LO
*	A 180W	56TB1-R 2	56J08- 36	400 CPS 6 V LO
*	A 457R	56TB1-R 2	56P10- 94	400 CPS 6 V LO
*	A 180L	56TB1-R 3	56J08- 46	PROJECTION LAMP LO INTENSITY
*	A 419W	56TB1-R 3	56J09- 46	PROJECTION LAMP LO INTENSITY
	AA612	56TB1-S 1	56TB1-T 1	400 CPS VAR ILLUM PWR
*	A 153R	56TB1-S 1	56J06-108	400 CPS VAR ILLUM PWR
*	A 561R	56TB1-S 1	56E 9	400 CPS VAR ILLUM PWR
*	AA611	56TB1-S 1	56TB1-R 1	400 CPS VAR ILLUM PWR
	AA511	56TB1-S 2	56TB1-T 2	400 CPS 6 V LO
*	A 153W	56TB1-S 2	56J06-107	400 CPS 6 V LO
*	A 457W	56TB1-S 2	56P10- 95	400 CPS 6 V LO
*	A 561W	56TB1-S 2	56E 10	400 CPS 6 V LO
*	AA512	56TB1-S 2	56TB1-R 2	400 CPS 6 V LO
	A 292B	56TB1-S 3	SHLD A292	0 VDC IMU
	A 589	56TB1-S 3	56TB1-S 6	0 VDC IMU
	AA127B	56TB1-S 3	SHLD AA127	0 VDC IMU
	AA591	56TB1-S 3	56TB2-M 4	0 VDC IMU
*	AA 46	56TB1-S 3	56J11-P6	0 VDC IMU
*	A 211	56TB1-S 5	56J08- 92	0 VDC IMU
*	A 343	56TB1-S 5	56P09- 23	0 VDC IMU
*	A 452	56TB1-S 5	56P10- 13	0 VDC IMU
*	AA601	56TB1-S 5	56TB1-S 7	0 VDC IMU
	A 291B	56TB1-S 6	SHLD A291	0 VDC IMU
	A 590	56TB1-S 6	56TB1-S 8	0 VDC IMU
	AA133B	56TB1-S 6	SHLD AA133	0 VDC IMU
*	A 589	56TB1-S 6	56TB1-S 3	0 VDC IMU
*	AA 98	56TB1-S 6	56J12-R5	0 VDC IMU
	AA601	56TB1-S 7	56TB1-S 5	0 VDC IMU
	AA602	56TB1-S 7	56TB2-D 8	0 VDC IMU
*	A 556	56TB1-S 7	56E 19	0 VDC IMU
*	AA600	56TB1-S 7	56TB1-S 8	0 VDC IMU
	A 289B	56TB1-S 8	SHLD A289	0 VDC IMU
	AA136B	56TB1-S 8	SHLD AA136	0 VDC IMU
	AA600	56TB1-S 8	56TB1-S 7	0 VDC IMU
*	A 590	56TB1-S 8	56TB1-S 6	0 VDC IMU
*	AA588	56TB1-S 8	56TB1-N 4	0 VDC IMU
*	A 266R	56TB1-T 1	56P05-L	400 CPS VAR ILLUM PWR
*	A 314R	56TB1-T 1	56P08-R*	400 CPS VAR ILLUM PWR

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 325R	56TB1-H 7	56P09- 68	25.6 KC HI OPTICS	
*	A 560R	56TB1-H 7	56E 17	25.6 KC HI OPTICS	
*	AA 63W	56TB1-H 7	56J12-P6	25.6 KC HI OPTICS	
*	A 187	56TB1-H 8	56J08- 51	ERROR DETECT LIGHT HI	
*	A 336	56TB1-H 8	56P09- 12	ERROR DETECT LIGHT HI	
*	AA 83	56TB1-H 8	56J12-L2	ERROR DETECT LIGHT HI	
*	A 18	56TB1-K 1	56P01- 91	MODE LAMP TEST PWR	
*	A 430W	56TB1-K 1	56J09- 84	MODE LAMP TEST PWR	
*	A 4	56TB1-K 3	56P01- 48	COARSE ALIGN MODE COMMAND FROM AGC	
*	A 479L	56TB1-K 3	56J10- 22	COARSE ALIGN MODE COMMAND FROM AGC	308
*	A 3	56TB1-K 4	56P01- 38	ZERO ENCODER MODE COMMAND FROM AGC	
*	A 479W	56TB1-K 4	56J10- 21	ZERO ENCODER MODE COMMAND FROM AGC	307
*	A 5	56TB1-K 5	56P01- 13	FINE ALIGN MODE COMMAND FROM AGC	
*	A 479R	56TB1-K 5	56J10- 24	FINE ALIGN MODE COMMAND FROM AGC	310
*	A 7	56TB1-K 6	56P01- 58	ENTRY MODE COMMAND FROM AGC	
*	A 480R	56TB1-K 6	56J10- 25	ENTRY MODE COMMAND FROM AGC	311
*	A 154	56TB1-K 7	56J06- 12	MODE RELAY COMMON TO AGC	
*	A 480W	56TB1-K 7	56J10- 26	MODE RELAY COMMON TO AGC	312
*	A 521	56TB1-K 7	56J10- 13	MODE RELAY COMMON TO AGC	315
*	A 6	56TB1-K 8	56P01- 27	CDU MANUAL MODE COMMAND FROM AGC	
*	A 480L	56TB1-K 8	56J10- 23	CDU MANUAL MODE COMMAND FROM AGC	309
*	A 349	56TB1-L 2	56P09- 33	X PIP ERROR MONITOR	
*	AA120	56TB1-L 2	56J13-D2	X PIP ERROR MONITOR	
*	A 293W	56TB1-L 3	56P07-P	Y PIP TORQUE RET	
*	AA122W	56TB1-L 3	56J13-M3	Y PIP TORQUE RET	
*	A 293R	56TB1-L 4	56P07-N	Y PIP TORQUE +	
*	AA122R	56TB1-L 4	56J13-L3	Y PIP TORQUE +	
*	A 294L	56TB1-L 5	56P07-W	X PIP TORQUE -	
*	AA119L	56TB1-L 5	56J13-L1	X PIP TORQUE -	
*	A 294W	56TB1-L 6	56P07-V	X PIP TORQUE RET	
*	AA119W	56TB1-L 6	56J13-K1	X PIP TORQUE RET	
*	A 290L	56TB1-L 7	56P07-F	X GYRO TORQUE -	
*	AA124L	56TB1-L 7	56J13-G6	X GYRO TORQUE -	
*	A 290W	56TB1-L 8	56P07-E	X GYRO TORQUE RET	
*	AA124W	56TB1-L 8	56J13-F6	X GYRO TORQUE RET	
*	A 17K	56TB1-M 1	56P01- 90	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
*	A 430K	56TB1-M 1	56J09- 63	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
*	A 350	56TB1-M 2	56P09- 43	Y PIP ERROR MONITOR	
*	AA123	56TB1-M 2	56J13-F2	Y PIP ERROR MONITOR	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA612	56TB1-T 1	56TB1-S 1	400 CPS VAR ILLUM PWR
*	A 266W	56TB1-T 2	56P05-M	400 CPS 6 V LO
*	A 314W	56TB1-T 2	56P08-S*	400 CPS 6 V LO
*	A 457L	56TB1-T 2	56P10- 81	400 CPS 6 V LO
*	AA511	56TB1-T 2	56TB1-S 2	400 CPS 6 V LO
*	A 292W	56TB1-T 3	56P07-L	Z PIP TORQUE RET
*	AA127W	56TB1-T 3	56J14-P3	Z PIP TORQUE RET
*	A 297W	56TB1-T 4	56P07-C*	Z PIP ERROR LO
*	AA126R	56TB1-T 4	56J14-A2	Z PIP ERROR LO
*	A 297R	56TB1-T 5	56P07-B*	Z PIP ERROR HI
*	AA126W	56TB1-T 5	56J14-A1	Z PIP ERROR HI
*	A 291R	56TB1-T 6	56P07-G	Y GYRO TORQUE +
*	AA133R	56TB1-T 6	56J14-M1	Y GYRO TORQUE +
*	A 351	56TB1-T 7	56P09- 44	Z PIP ERROR MONITOR
*	AA128	56TB1-T 7	56J14-H6	Z PIP ERROR MONITOR
*	A 289R	56TB1-T 8	56P07-A	Z GYRO TORQUE +
*	AA136R	56TB1-T 8	56J14-L6	Z GYRO TORQUE +
*	A 22	56TB1-U 2	56P01- 26	IMU DELAY LIGHT HI
*	A 193	56TB1-U 2	56J08- 42	IMU DELAY LIGHT HI
*	A 345	56TB1-U 2	56P09- 46	IMU DELAY LIGHT HI
*	A 292L	56TB1-U 3	56P07-M	Z PIP TORQUE -
*	AA127L	56TB1-U 3	56J14-P2	Z PIP TORQUE -
*	A 292R	56TB1-U 4	56P07-K	Z PIP TORQUE +
*	AA127R	56TB1-U 4	56J14-P1	Z PIP TORQUE +
*	A 291W	56TB1-U 5	56P07-H	Y GYRO TORQUE RET
*	AA133W	56TB1-U 5	56J14-M3	Y GYRO TORQUE RET
*	A 291L	56TB1-U 6	56P07-J	Y GYRO TORQUE -
*	AA133L	56TB1-U 6	56J14-M2	Y GYRO TORQUE -
*	A 289W	56TB1-U 7	56P07-B	Z GYRO TORQUE RET
*	AA136W	56TB1-U 7	56J14-N6	Z GYRO TORQUE RET
*	A 289L	56TB1-U 8	56P07-C	Z GYRO TORQUE -
*	AA136L	56TB1-U 8	56J14-M6	Z GYRO TORQUE -

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014607
SCALE-NONE
REV LTR D
SHEET 88

MIL 2084 4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 45L	56TB2-C 5	56J01-108	IG CDU ENCODER PHASE 2
*	AA161L	56TB2-C 5	56J15-D1	IG CDU ENCODER PHASE 2
	A 69B	56TB2-C 6	SHLD A 69	MG CDU ENCODER COM
*	A 69R	56TB2-C 6	56J02- 94	MG CDU ENCODER COM
*	AA162L	56TB2-C 6	56J15-F2	MG CDU ENCODER COM
*	A 68W	56TB2-C 7	56J02- 87	SIN AMG 16X TO CDU
*	AA172L	56TB2-C 7	56J15-D9	SIN AMG 16X TO CDU
*	A 44W	56TB2-C 8	56J01- 87	SIN AIG 16X TO CDU
*	AA171L	56TB2-C 8	56J15-F7	SIN AIG 16X TO CDU
*	A 557	56TB2-D 1	56E 8	+28 VDC CDU NOT LOCK
*	AA177	56TB2-D 1	56J15-R6	+28 VDC CDU NOT LOCK
	AA569W	56TB2-D 2	56J16-B7	AGC COM
*	A 13W	56TB2-D 2	56P01- 68	AGC COM
*	A 155W	56TB2-D 2	56J06- 68	AGC COM
*	AA176W	56TB2-D 2	56J15-B3	AGC COM
*	AA487W	56TB2-D 2	56J21-121	AGC COM
	A 13B	56TB2-D 3	SHLD A 13	AGC SIG 178 SHLD RET
	A 155B	56TB2-D 3	SHLD A155	AGC SIG 178 SHLD RET
	AA176B	56TB2-D 3	SHLD AA176	AGC SIG 178 SHLD RET
*	AA561	56TB2-D 3	56E 57	AGC SIG 178 SHLD RET
*	AA569A	56TB2-D 3	SHLD AA569	AGC SIG 178 SHLD RET
	AA606	56TB2-D 4	56TB2-F 4	0 VDC IMU
	AA608	56TB2-D 4	56E 27	0 VDC IMU
*	A 287	56TB2-D 4	56P06-E	0 VDC IMU
*	AA605	56TB2-D 4	56TB2-D 5	0 VDC IMU
	A 458	56TB2-D 5	56E 48	0 VDC IMU
	AA605	56TB2-D 5	56TB2-D 4	0 VDC IMU
*	A 384	56TB2-D 5	56P09- 84	0 VDC IMU
*	A 550	56TB2-D 5	56E 21	0 VDC IMU
*	AA604	56TB2-D 5	56TB2-D 6	0 VDC IMU
	AA604	56TB2-D 6	56TB2-D 5	0 VDC IMU
*	A 214	56TB2-D 6	56J08- 82	0 VDC IMU
*	A 450	56TB2-D 6	56J09- 26	0 VDC IMU
*	A 549	56TB2-D 6	56E 20	0 VDC IMU
*	AA603	56TB2-D 6	56TB2-D 7	0 VDC IMU
	A 68B	56TB2-D 7	SHLD A 68	0 VDC IMU
	A 220B	56TB2-D 7	SHLD A220	0 VDC IMU
	AA577	56TB2-D 7	56TB2-D 8	0 VDC IMU
	AA603	56TB2-D 7	56TB2-D 6	0 VDC IMU

165A

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR D	SHEET 90

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 44B	56TB2-D 8	SHLD A 44	0 VDC IMU
	A 226B	56TB2-D 8	SHLD A226	0 VDC IMU
*	AA577	56TB2-D 8	56TB2-D 7	0 VDC IMU
*	AA602	56TB2-D 8	56TB1-S 7	0 VDC IMU
	A 24B	56TB2-F 2	SHLD A 24	IG CDU ERROR SIG RET
	A 39B	56TB2-F 2	SHLD A 39	IG CDU ERROR SIG RET
	A 364B	56TB2-F 2	SHLD A364	IG CDU ERROR SIG RET
	AA580	56TB2-F 2	56TB2-G 2	IG CDU ERROR SIG RET
	AA569R	56TB2-F 3	56E 60	
*	A 13R	56TB2-F 3	56E 61	
*	A 155R	56TB2-F 3	56E 55	
*	AA176R	56TB2-F 3	56E 59	
*	AA487R	56TB2-F 3	56J21-122	
*	A 385	56TB2-F 4	56P09- 32	0 VDC IMU
*	AA606	56TB2-F 4	56TB2-D 4	0 VDC IMU
	A 25B	56TB2-F 7	SHLD A 25	MG CDU ERROR SIG RET
	A 63B	56TB2-F 7	SHLD A 63	MG CDU ERROR SIG RET
	A 365B	56TB2-F 7	SHLD A365	MG CDU ERROR SIG RET
	AA579	56TB2-F 7	56TB2-G 7	MG CDU ERROR SIG RET
	A 42B	56TB2-G 1	SHLD A 42	IG CDU ERROR SIG RET
*	A 42W	56TB2-G 1	56J01- 90	IG CDU ERROR SIG RET
*	AA196R	56TB2-G 1	56J16-D2	IG CDU ERROR SIG RET
*	A 24W	56TB2-G 2	56P01- 71	IG CDU ERROR SIG RET
*	A 39W	56TB2-G 2	56J01- 45	IG CDU ERROR SIG RET
*	A 364W	56TB2-G 2	56P09- 82	IG CDU ERROR SIG RET
*	AA 15R	56TB2-G 2	56J11-B1	IG CDU ERROR SIG RET
*	AA195R	56TB2-G 2	56J16-D2	IG CDU ERROR SIG RET
*	AA580	56TB2-G 2	56TB2-F 2	IG CDU ERROR SIG RET
*	A 38W	56TB2-G 3	56J01- 57	IG CDU ERROR SIG RET S1
*	AA194R	56TB2-G 3	56J16-D2	IG CDU ERROR SIG RET
*	A 19R	56TB2-G 4	56P01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 216R	56TB2-G 4	56P02-A	800 CPS 28 V 1 PCT HI IMU
*	A 577R	56TB2-G 4	56E 1	800 CPS 28 V 1 PCT HI IMU
*	AA222R	56TB2-G 4	56J16-S4	800 CPS 28 V 1 PCT HI IMU
*	AA409W	56TB2-G 4	56J20-F5	800 CPS 28 V 1 PCT HI IMU
*	A 216W	56TB2-G 5	56P02-B	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	AA222W	56TB2-G 5	56J16-P4	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	A 62W	56TB2-G 6	56J02- 57	MG CDU ERROR SIG RET
*	AA199R	56TB2-G 6	56J16-D4	MG CDU ERROR SIG RET

165B

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR D	SHEET 91

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 1W	56TB2-A 1	56P01- 95	PANEL BRIGHTNESS CONTROL
*	A 431W	56TB2-A 1	56J09- 44	PANEL BRIGHTNESS CONTROL
*	A 1R	56TB2-A 2	56P01- 80	PANEL BRIGHTNESS CONTROL
*	A 431R	56TB2-A 2	56J09- 32	PANEL BRIGHTNESS CONTROL
	A 92B	56TB2-A 4	SHLD A 92	OG CDU ENCODER COM
*	A 92R	56TB2-A 4	56J03- 94	OG CDU ENCODER COM
*	AA163R	56TB2-A 4	56J15-D3	OG CDU ENCODER COM
	A 45B	56TB2-A 5	SHLD A 45	IG CDU ENCODER COM
*	A 45R	56TB2-A 5	56J01- 94	IG CDU ENCODER COM
*	AA161R	56TB2-A 5	56J15-C1	IG CDU ENCODER COM
*	A 69L	56TB2-A 6	56J02-108	MG CDU ENCODER PHASE 2
*	AA162R	56TB2-A 6	56J15-D2	MG CDU ENCODER PHASE 2
*	A 220R	56TB2-A 7	56P02-J	SIN AMG 16X S2
*	AA172W	56TB2-A 7	56J15-F8	SIN AMG 16X S2
*	A 226R	56TB2-A 8	56P02-Y	SIN AIG 16X S2
*	AA171W	56TB2-A 8	56J15-D8	SIN AIG 16X S2
*	A 11	56TB2-B 1	56P01- 69	LOCK CDU RELAY CONTROL
*	AA174	56TB2-B 1	56J15-S3	LOCK CDU RELAY CONTROL
*	A 8	56TB2-B 2	56P01- 12	ZERO ENCODER RELAY CONTROL
*	AA173	56TB2-B 2	56J15-S1	ZERO ENCODER RELAY CONTROL
*	A 92W	56TB2-B 4	56J03-107	OG CDU ENCODER PHASE 1
*	AA163W	56TB2-B 4	56J15-D4	OG CDU ENCODER PHASE 1
*	A 45W	56TB2-B 5	56J01-107	IG CDU ENCODER PHASE 1
*	AA161W	56TB2-B 5	56J15-C2	IG CDU ENCODER PHASE 1
*	A 69W	56TB2-B 6	56J02-107	MG CDU ENCODER PHASE 1
*	AA162W	56TB2-B 6	56J15-F1	MG CDU ENCODER PHASE 1
*	A 68R	56TB2-B 7	56J02-101	SIN AMG 16X S4
*	A 220W	56TB2-B 7	56P02-K	SIN AMG 16X S4
*	AA172R	56TB2-B 7	56J15-F9	SIN AMG 16X S4
*	A 44R	56TB2-B 8	56J01-101	SIN AIG 16X S4
*	A 226W	56TB2-B 8	56P02-Z	SIN AIG 16X S4
*	AA171R	56TB2-B 8	56J15-D7	SIN AIG 16X S4
*	A 10	56TB2-C 1	56P01- 5	FINE ALIGN RELAY CONTROL
*	AA170	56TB2-C 1	56J15-H4	FINE ALIGN RELAY CONTROL
*	A 30	56TB2-C 2	56P01- 37	BACKUP MODE RELAY CONTROL
*	A 159	56TB2-C 2	56J06- 37	BACKUP MODE RELAY CONTROL
*	AA156	56TB2-C 2	56J15-R1	BACKUP MODE RELAY CONTROL
*	A 92L	56TB2-C 4	56J03-108	OG CDU ENCODER PHASE 2
*	AA163L	56TB2-C 4	56J15-C3	OG CDU ENCODER PHASE 2

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR D	SHEET 89

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 25W	56TB2-G 7	56P01- 83	MG CDU ERROR SIG RET
*	A 63W	56TB2-G 7	56J02- 45	MG CDU ERROR SIG RET
*	A 365W	56TB2-G 7	56P09- 71	MG CDU ERROR SIG RET
*	AA 19R	56TB2-G 7	56J11-B2	MG CDU ERROR SIG RET
*	AA200R	56TB2-G 7	56J16-D4	MG CDU ERROR SIG RET
*	AA579	56TB2-G 7	56TB2-F 7	MG CDU ERROR SIG RET
	A 66B	56TB2-G 8	SHLD A 66	MG CDU ERROR SIG RET
*	A 66W	56TB2-G 8	56J02- 90	MG CDU ERROR SIG RET
*	AA201R	56TB2-G 8	56J16-D4	MG CDU ERROR SIG RET
*	A 42R	56TB2-H 1	56J01-104	IG CDU 16X ERROR SIG
*	AA196W	56TB2-H 1	56J16-C1	IG CDU 16X ERROR SIG
*	A 24R	56TB2-H 2	56P01- 70	IG CDU 1X ERROR SIG
*	A 39R	56TB2-H 2	56J01- 35	IG CDU 1X ERROR SIG S2
*	A 364R	56TB2-H 2	56P09- 96	IG CDU 1X ERROR SIG
*	AA 15W	56TB2-H 2	56J11-A1	IG CDU 1X ERROR SIG
*	AA195W	56TB2-H 2	56J16-C2	IG CDU 1X ERROR SIG
*	A 38R	56TB2-H 3	56J01- 67	IG CDU 1/2X ERROR SIG S3
*	AA194W	56TB2-H 3	56J16-D1	IG CDU 1/2X ERROR SIG
*	A 19W	56TB2-H 4	56P01- 10	800 CPS 28 V 1 PCT LO IMU
*	A 577W	56TB2-H 4	56E 2	800 CPS 28 V 1 PCT LO IMU
*	AA222L	56TB2-H 4	56J16-S3	800 CPS 28 V 1 PCT LO IMU
*	AA409R	56TB2-H 4	56J20-F6	800 CPS 28 V 1 PCT LO IMU
	A 577L	56TB2-H 5	56E 5	ZEROING RSVR 800 CPS
*	AA222K	56TB2-H 5	56J16-R4	ZEROING RSVR 800 CPS
*	A 62R	56TB2-H 6	56J02- 67	MG CDU 1/2X ERROR SIG
*	AA199W	56TB2-H 6	56J16-D3	MG CDU 1/2X ERROR SIG
*	A 25R	56TB2-H 7	56P01- 82	MG CDU 1X ERROR SIG
*	A 63R	56TB2-H 7	56J02- 35	MG CDU 1X ERROR SIG
*	A 365R	56TB2-H 7	56P09- 70	MG CDU 1X ERROR SIG
*	AA 19W	56TB2-H 7	56J11-A2	MG CDU 1X ERROR SIG
*	AA200W	56TB2-H 7	56J16-C4	MG CDU 1X ERROR SIG
*	A 66R	56TB2-H 8	56J02-104	MG CDU 16X ERROR SIG
*	AA201W	56TB2-H 8	56J16-C3	MG CDU 16X ERROR SIG
*	A 321R	56TB2-K 1	56P09- 45	800 CPS 28 V 1 PCT HI OPTICS
*	A 416R	56TB2-K 1	56J09- 80	800 CPS 28 V 1 PCT HI OPTICS
*	A 558R	56TB2-K 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
*	AA224W	56TB2-K 1	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS
*	AA557	56TB2-K 1	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
	AA557	56TB2-K 2	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR D	SHEET 92

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 257R	56TB3-T16	56P05-K*	SXT TRUNNION TACH HI
*	AA370W	56TB3-T16	56J19-A1	SXT TRUNNION TACH HI
*	A 257W	56TB3-T17	56P05-M*	SXT TRUNNION TACH LO
*	AA370R	56TB3-T17	56J19-B1	SXT TRUNNION TACH LO
*	A 311	56TB3-T18	56P08-H*	SCT SHAFT 1/2X RSVR LOAD
*	AA380	56TB3-T18	56J19-C7	SCT SHAFT 1/2X RSVR LOAD
*	A 317R	56TB3-T19	56P09- 5	+20 VDC CONDITIONING
*	AA427R	56TB3-T19	56J20-B5	+20 VDC CONDITIONING
	AA559	56TB3-T20	56TB3-T21	+28 VDC IMU
*	A 244	56TB3-T20	56P03-H*	+28 VDC IMU
*	A 284	56TB3-T20	56P06-D	+28 VDC IMU
*	AA454	56TB3-T20	56J20-K1	+28 VDC IMU
*	A 327	56TB3-T21	56P09- 19	+28 VDC IMU
*	AA455	56TB3-T21	56J20-K1	+28 VDC IMU
*	AA559	56TB3-T21	56TB3-T20	+28 VDC IMU
*	AA560	56TB3-T21	56TB3-S21	+28 VDC IMU

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE-NONE	REV LTR D	SHEET 117

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA 72	56J12-K3	56J13-C6	STRUCTURE GND	
*	AA 7	56J12-K3	56J11-L4	STRUCTURE GND	
	AA 52R	56J12-K4	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
	AA 73L	56J12-K6	56J14-R2	+12, +120 VDC RET GYRO	
	AA 82	56J12-L1	56TB3-M22	+28 VDC MDV	
	AA 83	56J12-L2	56TB1-H 8	ERROR DETECT LIGHT HI	
	AA 95R	56J12-L5	56J13-R3	+32 VDC RET GYRO	
	AA 73R	56J12-L6	56J14-S2	+120 VDC GYRO	
	AA 80	56J12-M1	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI	
	AA 81	56J12-M1	56J21- 36	AGC POWER SUPPLY FAIL SIG HI	157A
	AA 78	56J12-M3	56TB1-H 5	AGC FAIL SIG	
	AA 79	56J12-M4	56TB1-G 5	+28 VDC TO COMPUTER RELAY	
	AA 95W	56J12-M5	56J13-S3	+32 VDC GYRO	
	AA 73W	56J12-M6	56J14-S3	+12 VDC GYRO	
	AA 61	56J12-N1	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 62	56J12-N2	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 49W	56J12-N3	56J15-P6	800 CPS 28 V 1 PCT HI IMU	
*	AA 5W	56J12-N3	56J11-N5	800 CPS 28 V 1 PCT HI IMU	
	AA 64W	56J12-N4	56TB1-H 4	25.6 KC HI IMU	
	AA 65	56J12-N4	56J12-N5	25.6 KC HI IMU	
	AA 50W	56J12-N5	56J15-N6	25.6 KC HI IMU	
*	AA 65	56J12-N5	56J12-N4	25.6 KC HI IMU	
	AA 63R	56J12-N6	56TB1-G 7	25.6 KC LO OPTICS	
	AA 94R	56J12-N6	56J17-N3	25.6 KC LO OPTICS	
	AA 60L	56J12-P1	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 61	56J12-P1	56J12-N1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
	AA 60W	56J12-P2	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
	AA 49R	56J12-P3	56J15-P5	800 CPS 28 V 1 PCT LO IMU	
*	AA 5R	56J12-P3	56J11-N4	800 CPS 28 V 1 PCT LO IMU	
	AA 92L	56J12-P4	56J17-R3	COMPUTER 12.8 KPPS SYNC	
	AA 92R	56J12-P4	56J17-R3	COMPUTER 12.8 KPPS SYNC	
*	AA610	56J12-P4	56J11-N3	COMPUTER 12.8 KPPS SYNC	
	AA 50R	56J12-P5	56J15-N5	25.6 KC LO IMU	
	AA 64R	56J12-P5	56TB1-G 4	25.6 KC LO IMU	
	AA 63W	56J12-P6	56TB1-H 7	25.6 KC HI OPTICS	
	AA 94W	56J12-P6	56J17-P3	25.6 KC HI OPTICS	
	AA 60R	56J12-R1	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO	
	AA 89	56J12-R2	56J12-R3	0 VDC IMU	
	AA 99	56J12-R2	56TB1-N 5	0 VDC IMU	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
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SCALE-NONE
REV LTR F
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA 90	56J12-R3	56J12-R4	0 VDC IMU
*	AA 89	56J12-R3	56J12-R2	0 VDC IMU
	AA 91	56J12-R4	56E 31	0 VDC IMU
	AA100	56J12-R4	56TB1-N 8	0 VDC IMU
*	AA 90	56J12-R4	56J12-R3	0 VDC IMU
	AA 96	56J12-R5	56J13-R6	0 VDC IMU
	AA 98	56J12-R5	56TB1-S 6	0 VDC IMU
*	AA 71	56J12-R5	56J12-G5	0 VDC IMU
	AA 66	56J12-R6	56TB3-L20	0 VDC OPTICS
	AA 54	56J12-S1	56J20-M1	+28 VDC IMU
	AA 87	56J12-S1	56J12-S3	+28 VDC IMU
	AA 55	56J12-S2	56J20-M2	+28 VDC IMU
	AA 88	56J12-S2	56J12-S4	+28 VDC IMU
*	AA 87	56J12-S3	56J12-S1	+28 VDC IMU
*	AA 88	56J12-S4	56J12-S2	+28 VDC IMU
*	AA 6	56J12-S5	56J11-S4	+28 VDC IMU
	AA 51	56J12-S6	56J20-N5	+28 VDC OPTICS

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014607
SCALE-NONE
REV LTR F
SHEET 35

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA 10W	56J12-A1	56J11-B6	IMU IG AND Y GYRO ERROR SIG	
*	AA 10R	56J12-A2	56J11-A5	IMU MG ERROR SIG	
	AA 75	56J12-A5	56J13-D2	X PIP ERROR MONITOR	
	AA 76	56J12-A6	56J13-F2	Y PIP ERROR MONITOR	
*	AA 10L	56J12-B1	56J11-A6	IMU OG ERROR SIG	
*	AA 10K	56J12-B2	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA 77	56J12-B5	56E 34	0 VDC IMU	
	AA 47	56J12-B6	56J14-H6	Z PIP ERROR MONITOR	
*	AA232L	56J12-D1	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	
*	AA232R	56J12-D2	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	
	AA 86W	56J12-D4	56J21- 60	ACCEL FAIL	138A
	AA 85W	56J12-D5	56J21-158	CDU FAIL	124A
	AA 84W	56J12-D6	56J21- 28	IMU FAIL	141A
	AA 67	56J12-F1	56E 31	COMPUTER 800 PPS SYNC RET	
	AA 68	56J12-F1	56J12-F2	COMPUTER 800 PPS SYNC RET	
	AA 69	56J12-F2	56E 29	COMPUTER 25.6 KPPS SYNC RET	
*	AA 68	56J12-F2	56J12-F1	COMPUTER 800 PPS SYNC RET	
	AA 97	56J12-F3	56J17-M3	0 VDC SPACECRAFT	
	AA 86R	56J12-F4	56J21- 61	ACCEL FAIL RET	138B
	AA 85R	56J12-F5	56J21-159	CDU FAIL RET	124B
	AA 84R	56J12-F6	56J21- 29	IMU FAIL RET	141B
*	AA490L	56J12-G1	56J21-169	COMPUTER 25.6 KPPS IN PHASE SYNC	153A
*	AA491R	56J12-G2	56J21-136	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA 74	56J12-G3	56J22-244	ERROR DETECT LIGHT MAIN PANEL	
	AA 53	56J12-G4	56J20-L6	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP	
	AA 59	56J12-G5	56J16-R2	0 VDC IMU	
	AA 71	56J12-G5	56J12-R5	0 VDC IMU	
	AA 58	56J12-G6	56J16-N3	OG CDU FAILURE INDICATION	
	AA 70R	56J12-H1	56J21- 71	COMPUTER 102.4 KPPS SYNC RET	156B
*	AA 70A	56J12-H1	SHLD AA 70	COMPUTER 102.4 KPPS SYNC RET	
	AA 48W	56J12-H2	56J15-S4	3200 CPS 2 V HI	
*	AA 9W	56J12-H2	56J11-L1	3200 CPS 2 V HI	
	AA 52W	56J12-H4	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 62	56J12-H4	56J12-N2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 56	56J12-H5	56J16-M2	IG CDU FAILURE INDICATION	
	AA 57	56J12-H6	56J16-M3	MG CDU FAILURE INDICATION	
	AA 70L	56J12-K1	56J21- 70	COMPUTER 102.4 KPPS SYNC	156A
	AA 48R	56J12-K2	56J15-R4	3200 CPS 2 V LO	
*	AA 9R	56J12-K2	56J11-L2	3200 CPS 2 V LO	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA118W	56J13-A1	56TB1-M 7	X PIP ERROR HI	
	AA121W	56J13-A3	56TB1-M 3	Y PIP ERROR HI	
	AA104	56J13-A6	56J14-A6	X GYRO DC DIFF AMP OUTPUT	
	AA118R	56J13-B1	56TB1-M 6	X PIP ERROR LO	
	AA121R	56J13-B3	56TB1-N 2	Y PIP ERROR LO	
	AA106	56J13-C6	56J14-H5	STRUCTURE GND	
*	AA 72	56J13-C6	56J12-K3	STRUCTURE GND	
	AA114	56J13-D1	56J15-L4	P X	
	AA120	56J13-D2	56TB1-L 2	X PIP ERROR MONITOR	
*	AA 75	56J13-D2	56J12-A5	X PIP ERROR MONITOR	
	AA116	56J13-D3	56J15-L3	P Y	
	AA124R	56J13-D6	56TB1-M 8	X GYRO TORQUE +	
	AA115	56J13-F1	56J15-M4	N X	
	AA123	56J13-F2	56TB1-M 2	Y PIP ERROR MONITOR	
*	AA 76	56J13-F2	56J12-A6	Y PIP ERROR MONITOR	
	AA117	56J13-F3	56J15-M3	N Y	
	AA124W	56J13-F6	56TB1-L 8	X GYRO TORQUE RET	
	AA124L	56J13-G6	56TB1-L 7	X GYRO TORQUE -	
	AA119R	56J13-H1	56TB1-M 5	X PIP TORQUE +	
	AA103	56J13-H6	56J14-G1	X GYRO CAL DUMMY	
	AA119W	56J13-K1	56TB1-L 6	X PIP TORQUE RET	
	AA105W	56J13-K6	56J14-H1	X GYRO TERNARY CUR SW TORQUE +	
	AA119L	56J13-L1	56TB1-L 5	X PIP TORQUE -	
	AA122R	56J13-L3	56TB1-L 4	Y PIP TORQUE +	
	AA105R	56J13-L6	56J14-K1	X GYRO TERNARY CUR SW TORQUE -	
	AA122W	56J13-M3	56TB1-L 3	Y PIP TORQUE RET	
	AA122L	56J13-N3	56TB1-M 4	Y PIP TORQUE -	
	AA101	56J13-N5	56J14-H3	PIPA INTERROGATE PULSE	
*	AA501W	56J13-N5	56J21-132	PIPA INTERROGATE PULSE	139A
	AA102	56J13-N6	56J14-K3	PIPA SWITCHING PULSE	
*	AA502W	56J13-N6	56J21- 99	PIPA SWITCHING PULSE	140A
	AA113	56J13-P6	56J14-P6	-28 VDC	
*	AA 14	56J13-P6	56J11-N6	-28 VDC	
	AA112R	56J13-R1	56J14-R2	+12, +120 VDC RET GYRO	
	AA109R	56J13-R2	56J14-R1	+120 VDC RET PIP	
	AA110R	56J13-R3	56J14-R5	+32 VDC RET GYRO	
*	AA 95R	56J13-R3	56J12-L5	+32 VDC RET GYRO	
	AA111R	56J13-R4	56J14-R4	+32 VDC RET PIP	
	AA108	56J13-R6	56J14-R6	0 VDC IMU	

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INTERCONNECT LIST

CONDUCTOR FROM TO SIGNAL DESCRIPTION

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV
1	F	31	F	61	F	91	F
2	F	32	F	62	F	92	F
3	F	33	F	63	F	93	F
4	F	34	F	64	F	94	F
5	F	35	F	65	F	95	F
6	F	36	F	66	F	96	F
7	F	37	F	67	F	97	F
8	F	38	F	68	F	98	F
9	F	39	F	69	F	99	F
10	F	40	F	70	F	100	F
11	F	41	F	71	F	101	F
12	F	42	F	72	F	102	F
13	F	43	F	73	F	103	F
14	F	44	F	74	F	104	F
15	F	45	F	75	F	105	F
16	F	46	F	76	F	106	F
17	F	47	F	77	F	107	F
18	F	48	F	78	F	108	F
19	F	49	F	79	F	109	F
20	F	50	F	80	F	110	F
21	F	51	F	81	F	111	F
22	F	52	F	82	F	112	F
23	F	53	F	83	F	113	F
24	F	54	F	84	F	114	F
25	F	55	F	85	F	115	F
26	F	56	F	86	F	116	F
27	F	57	F	87	F	117	F
28	F	58	F	88	F	118	F
29	F	59	F	89	F	119	F
30	F	60	F	90	F		

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 13B	SHLD A 13	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 14B	SHLD A 14	56E 44	AGC SIG 178 SHLD RET
*	A 15B	SHLD A 15	56E 44	AGC SIG 178 SHLD RET
*	A 16B	SHLD A 16	56E 44	AGC SIG 178 SHLD RET
*	A 23B	SHLD A 23	56TB2-S 2	OG CDU ERROR SIG RET
*	A 24B	SHLD A 24	56TB2-F 2	IG CDU ERROR SIG RET
*	A 25B	SHLD A 25	56TB2-F 7	MG CDU ERROR SIG RET
*	A 27B	SHLD A 27	56E 44	AGC SIG 178 SHLD RET
*	A 39B	SHLD A 39	56TB2-F 2	IG CDU ERROR SIG RET
*	A 40B	SHLD A 40	56TB3-H14	0 VDC IMU
*	A 41B	SHLD A 41	56TB3-H13	0 VDC IMU
*	A 42B	SHLD A 42	56TB2-G 1	IG CDU ERROR SIG RET
*	A 43B	SHLD A 43	56TB2-V 6	0 VDC IMU
*	A 44B	SHLD A 44	56TB2-D 8	0 VDC IMU
*	A 45B	SHLD A 45	56TB2-A 5	IG CDU ENCODER COM
*	A 51B	SHLD A 51	56TB2-T 7	IG CDU MDA INPUT RET
*	A 63B	SHLD A 63	56TB2-F 7	MG CDU ERROR SIG RET
*	A 64B	SHLD A 64	56E 48	0 VDC IMU
*	A 65B	SHLD A 65	56TB3-H12	0 VDC IMU
*	A 66B	SHLD A 66	56TB2-G 8	MG CDU ERROR SIG RET
*	A 67B	SHLD A 67	56TB2-V 5	0 VDC IMU
*	A 68B	SHLD A 68	56TB2-D 7	0 VDC IMU
*	A 69B	SHLD A 69	56TB2-C 6	MG CDU ENCODER COM
*	A 75B	SHLD A 75	56TB2-X 6	MG CDU MDA INPUT RET
*	A 86B	SHLD A 86	56TB2-S 2	OG CDU ERROR SIG RET
*	A 87B	SHLD A 87	56TB2-M 8	0 VDC IMU
*	A 88B	SHLD A 88	56TB2-V 8	0 VDC IMU
*	A 89B	SHLD A 89	56TB2-S 3	OG CDU ERROR SIG RET
*	A 90B	SHLD A 90	56TB2-V 4	0 VDC IMU
*	A 91B	SHLD A 91	56TB2-V 2	0 VDC IMU
*	A 92B	SHLD A 92	56TB2-A 4	OG CDU ENCODER COM
*	A 96B	SHLD A 96	56TB2-R 7	OG CDU MDA INPUT RET
*	A 107B	SHLD A 107	56TB3-H 9	0 VDC OPTICS
*	A 108B	SHLD A 108	56TB3-N15	0 VDC OPTICS
*	A 110B	SHLD A 110	56TB3-K 9	0 VDC OPTICS
*	A 111B	SHLD A 111	56TB3-G15	0 VDC OPTICS
*	A 112B	SHLD A 112	56TB3-H 9	0 VDC OPTICS
*	A 114B	SHLD A 114	56TB3-N 9	0 VDC OPTICS
*	A 115B	SHLD A 115	56TB3-N 9	0 VDC OPTICS

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APPLICATION	
NEXT ASSY	USED ON

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
F_2	F_1 REPLACES REV E WITH CHANGE F_2 CHANGED PER TDRR 05588	3 Mar 63	WK.

(F_1) REPLACES REV E WITH CHANGE

SEE SHEET 2 FOR REVISION STATUS OF SHEETS

REV
SHEET
REV STATUS OF SHEETS
REV
SHEET

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

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HOUSTON, TEXAS

ACSP PN

DRAWN A. Alderson DATE 12-30-63
CHECKED 12-30-63
APPROVAL 12/30/63
APPROVAL
NASA APPROVAL 12/
MIT APPROVAL WK 31 Mar
CONTRACT

INTERCONNECTION LIST OF AGE INTERCONNECT HARNESS AND PSA END CONNECTOR ASSY

CODE IDENT NO.
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 116B	SHLD A 116	56TB3-S 5	SHAFT CDU ENCODER COM
*	A 121B	SHLD A 121	56TB3-L 9	0 VDC OPTICS
*	A 130B	SHLD A 130	56TB3-G 9	0 VDC OPTICS
*	A 131B	SHLD A 131	56TB3-K15	0 VDC OPTICS
*	A 132B	SHLD A 132	56TB3-L 9	0 VDC OPTICS
*	A 134B	SHLD A 134	56TB3-R15	0 VDC OPTICS
*	A 135B	SHLD A 135	56TB3-H 9	0 VDC OPTICS
*	A 137B	SHLD A 137	56TB3-T 9	0 VDC OPTICS
*	A 138B	SHLD A 138	56TB3-S 9	0 VDC OPTICS
*	A 139B	SHLD A 139	56TB3-T 5	TRUNNION CDU ENCODER COM
*	A 144B	SHLD A 144	56TB3-M 9	0 VDC OPTICS
*	A 155B	SHLD A 155	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 156B	SHLD A 156	56E 44	AGC SIG 178 SHLD RET
*	A 217B	SHLD A 217	56TB2-V 3	0 VDC IMU
*	A 218B	SHLD A 218	56TB2-V 2	0 VDC IMU
*	A 219B	SHLD A 219	56TB2-V 5	0 VDC IMU
*	A 220B	SHLD A 220	56TB2-D 7	0 VDC IMU
*	A 221B	SHLD A 221	56E 48	0 VDC IMU
*	A 222B	SHLD A 222	56TB3-H12	0 VDC IMU
*	A 224B	SHLD A 224	56TB1-D 7	0 VDC IMU
*	A 225B	SHLD A 225	56TB2-V 6	0 VDC IMU
*	A 226B	SHLD A 226	56TB2-D 8	0 VDC IMU
*	A 227B	SHLD A 227	56TB3-H14	0 VDC IMU
*	A 228B	SHLD A 228	56TB3-H13	0 VDC IMU
*	A 229B	SHLD A 229	56TB1-D 7	0 VDC IMU
*	A 230B	SHLD A 230	56TB1-D 8	0 VDC IMU
*	A 232B	SHLD A 232	56TB2-M 8	0 VDC IMU
*	A 233B	SHLD A 233	56TB2-V 8	0 VDC IMU
*	A 234B	SHLD A 234	56TB1-B 5	IG CDU ERROR SIG RET
*	A 235B	SHLD A 235	56TB1-A 6	MG CDU ERROR SIG RET
*	A 236B	SHLD A 236	56TB3-S 3	0 VDC IMU
*	A 237B	SHLD A 237	56TB3-T 3	0 VDC IMU
*	A 248B	SHLD A 248	56TB3-R 9	0 VDC OPTICS
*	A 252B	SHLD A 252	56TB3-T 9	0 VDC OPTICS
*	A 253B	SHLD A 253	56TB3-S 9	0 VDC OPTICS
*	A 254B	SHLD A 254	56TB3-M15	0 VDC OPTICS
*	A 255B	SHLD A 255	56TB3-H15	0 VDC OPTICS
*	A 256B	SHLD A 256	56TB3-G 9	0 VDC OPTICS
*	A 257B	SHLD A 257	56TB3-S15	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA126W	56J14-A1	56TB1-T 5	Z PIP ERROR HI	
	AA126R	56J14-A2	56TB1-T 4	Z PIP ERROR LO	
*	AA104	56J14-A6	56J13-A6	X GYRO DC DIFF AMP OUTPUT	
	AA143	56J14-C1	56J15-N2	+ SET X GYRO CAGE	
	AA144	56J14-C2	56J15-P2	- SET X GYRO CAGE	
	AA141	56J14-C3	56J15-N3	+ SET Y GYRO CAGE	
	AA142	56J14-C4	56J15-P3	- SET Y GYRO CAGE	
	AA139	56J14-C5	56J15-N4	+ SET Z GYRO CAGE	
	AA140	56J14-C6	56J15-P4	- SET Z GYRO CAGE	
	AA129R	56J14-D1	56J21- 67	+ DX GYRO RATE	142B
	AA130W	56J14-D2	56J21- 33	- DX GYRO RATE	143B
	AA131R	56J14-D3	56J21-240	+ DY GYRO RATE	144B
	AA132R	56J14-D4	56J21-202	- DY GYRO RATE	145B
	AA134W	56J14-D5	56J21-168	+ DZ GYRO RATE	146B
	AA135R	56J14-D6	56J21-135	- DZ GYRO RATE	147B
	AA148	56J14-F6	56J15-L2	P Z	
*	AA103	56J14-G1	56J13-H6	X GYRO CAL DUMMY	
	AA149	56J14-G6	56J15-M2	N Z	
*	AA105W	56J14-H1	56J13-K6	X GYRO TERNARY CUR SW TORQUE +	
	AA138	56J14-H3	56J15-L1	PIPA INTERROGATE PULSE	
*	AA101	56J14-H3	56J13-N5	PIPA INTERROGATE PULSE	
	AA145	56J14-H4	56J15-M1	GYRO DATA PULSE	
	AA151	56J14-H5	56J15-K3	STRUCTURE GND	
*	AA106	56J14-H5	56J13-C6	STRUCTURE GND	
	AA128	56J14-H6	56TB1-T 7	Z PIP ERROR MONITOR	
*	AA 47	56J14-H6	56J12-B6	Z PIP ERROR MONITOR	
*	AA105R	56J14-K1	56J13-L6	X GYRO TERNARY CUR SW TORQUE -	
	AA146	56J14-K3	56J15-N1	PIPA SWITCHING PULSE	
*	AA102	56J14-K3	56J13-N6	PIPA SWITCHING PULSE	
	AA147	56J14-K4	56J15-P1	GYRO RESET PULSE	
	AA136R	56J14-L6	56TB1-T 8	Z GYRO TORQUE +	
	AA133R	56J14-M1	56TB1-T 6	Y GYRO TORQUE +	
	AA133L	56J14-M2	56TB1-U 6	Y GYRO TORQUE -	
	AA133W	56J14-M3	56TB1-U 5	Y GYRO TORQUE RET	
	AA136L	56J14-M6	56TB1-U 8	Z GYRO TORQUE -	
	AA136W	56J14-N6	56TB1-U 7	Z GYRO TORQUE RET	
	AA127R	56J14-P1	56TB1-U 4	Z PIP TORQUE +	
	AA127L	56J14-P2	56TB1-U 3	Z PIP TORQUE -	
	AA127W	56J14-P3	56TB1-T 3	Z PIP TORQUE RET	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA113	56J14-P6	56J13-P6	-28 VDC
	AA150R	56J14-R1	56J15-R5	+120 VDC RET PIP
*	AA109R	56J14-R1	56J13-R2	+120 VDC RET PIP
*	AA 73L	56J14-R2	56J12-K6	+12, +120 VDC RET GYRO
*	AA112R	56J14-R2	56J13-R1	+12, +120 VDC RET GYRO
	AA154R	56J14-R4	56J17-S5	+32 VDC RET PIP
*	AA111R	56J14-R4	56J13-R4	+32 VDC RET PIP
*	AA110R	56J14-R5	56J13-R3	+32 VDC RET GYRO
	AA137	56J14-R6	56E 33	0 VDC IMU
	AA153	56J14-R6	56J15-R2	0 VDC IMU
*	AA108	56J14-R6	56J13-R6	0 VDC IMU
	AA150W	56J14-S1	56J15-S5	+120 VDC PIP
*	AA109W	56J14-S1	56J13-S2	+120 VDC PIP
*	AA 73R	56J14-S2	56J12-L6	+120 VDC GYRO
*	AA112W	56J14-S2	56J13-S1	+120 VDC GYRO
*	AA 73W	56J14-S3	56J12-M6	+12 VDC GYRO
	AA154W	56J14-S4	56J17-T5	+32 VDC PIP
*	AA111W	56J14-S4	56J13-S4	+32 VDC PIP
*	AA110W	56J14-S5	56J13-S3	+32 VDC GYRO
	AA152	56J14-S6	56J15-S2	+28 VDC IMU
*	AA107	56J14-S6	56J13-S6	+28 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA125	56J13-R6	56E 34	0 VDC IMU
*	AA 96	56J13-R6	56J12-R5	0 VDC IMU
	AA112W	56J13-S1	56J14-S2	+120 VDC GYRO
	AA109W	56J13-S2	56J14-S1	+120 VDC PIP
	AA110W	56J13-S3	56J14-S5	+32 VDC GYRO
*	AA 95W	56J13-S3	56J12-M5	+32 VDC GYRO
	AA111W	56J13-S4	56J14-S4	+32 VDC PIP
	AA107	56J13-S6	56J14-S6	+28 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA155W	56J15-A1	56TB1-C 8	Z GYRO ERROR SIG	
	AA155R	56J15-A2	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG	
*	AA488L	56J15-A3	56J21-188	MANUAL CDU MODE INDICATION TO AGC	160A
	AA180R	56J15-A4	56J16-B2	IG DAC MDA SIG HI	
	AA164	56J15-A5	56E 38	IG DAC MDA SIG LO	
	AA167	56J15-A5	56E 39	IG DAC MDA SIG LO	
	AA180W	56J15-A5	56J16-B1	IG DAC MDA SIG LO	
	AA181R	56J15-A6	56J16-B4	MG DAC MDA SIG HI	
	AA165	56J15-A7	56E 40	MG DAC MDA SIG LO	
	AA168	56J15-A7	56E 41	MG DAC MDA SIG LO	
	AA181W	56J15-A7	56J16-B3	MG DAC MDA SIG LO	
	AA182R	56J15-A8	56J16-B6	OG DAC MDA SIG HI	
	AA166	56J15-A9	56E 42	OG DAC MDA SIG LO	
	AA169	56J15-A9	56E 43	OG DAC MDA SIG LO	
	AA182W	56J15-A9	56J16-B5	OG DAC MDA SIG LO	
	AA155L	56J15-B1	56TB1-C 7	X GYRO ERROR SIG	
	AA155K	56J15-B2	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA176L	56J15-B3	56TB2-D 2	AGC COM	
*	AA475L	56J15-B4	56J21- 24	IG ENCODER + DELTA THETA	120A
*	AA481L	56J15-B5	56J21-237	IG CDU + DELTA THETA COMMAND	128A
*	AA477L	56J15-B6	56J21-232	MG ENCODER + DELTA THETA	122A
*	AA483L	56J15-B7	56J21-165	MG CDU + DELTA THETA COMMAND	130A
*	AA479L	56J15-B8	56J21- 56	OG ENCODER + DELTA THETA	118A
*	AA485L	56J15-B9	56J21- 64	OG CDU + DELTA THETA COMMAND	126A
	AA161R	56J15-C1	56TB2-A 5	IG CDU ENCODER COM	
	AA161W	56J15-C2	56TB2-B 5	IG CDU ENCODER PHASE 1	
	AA163L	56J15-C3	56TB2-C 4	OG CDU ENCODER PHASE 2	
*	AA476R	56J15-C4	56J21- 26	IG ENCODER - DELTA THETA	121A
*	AA482R	56J15-C5	56J21-199	IG CDU - DELTA THETA COMMAND	129A
*	AA478R	56J15-C6	56J21-192	MG ENCODER - DELTA THETA	123A
*	AA484R	56J15-C7	56J21- 97	MG CDU - DELTA THETA COMMAND	131A
*	AA480R	56J15-C8	56J21- 58	OG ENCODER - DELTA THETA	119A
*	AA486R	56J15-C9	56J21- 30	OG CDU - DELTA THETA COMMAND	127A
	AA161L	56J15-D1	56TB2-C 5	IG CDU ENCODER PHASE 2	
	AA162R	56J15-D2	56TB2-A 6	MG CDU ENCODER PHASE 2	
	AA163R	56J15-D3	56TB2-A 4	OG CDU ENCODER COM	
	AA163W	56J15-D4	56TB2-B 4	OG CDU ENCODER PHASE 1	
	AA171R	56J15-D7	56TB2-B 8	SIN AIG 16X S4	
	AA171W	56J15-D8	56TB2-A 8	SIN AIG 16X S2	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 437B	SHLD A 437	56E 44	AGC SIG 178 SHLD RET
	A 440A	SHLD A 440	56E 44	AGC SIG 178 SHLD RET
*	A 449B	SHLD A 449	56E 44	AGC SIG 178 SHLD RET
	AA 70A	SHLD AA 70	56J12-H1	COMPUTER 102.4 KPPS SYNC RET
*	AA 92B	SHLD AA 92	56E 27	0 VDC IMU
*	AA119B	SHLD AA119	56TB1-N 5	0 VDC IMU
*	AA122B	SHLD AA122	56TB1-N 4	0 VDC IMU
*	AA124B	SHLD AA124	56TB1-N 8	0 VDC IMU
*	AA127B	SHLD AA127	56TB1-S 4	0 VDC IMU
*	AA133B	SHLD AA133	56TB1-S 5	0 VDC IMU
*	AA136B	SHLD AA136	56TB1-S 8	0 VDC IMU
*	AA176B	SHLD AA176	56TB2-D 3	AGC SIG 178 SHLD RET
	AA197A	SHLD AA197	56J16-B1	IG CDU MDA INPUT RET
	AA202A	SHLD AA202	56J16-B3	MG CDU MDA INPUT RET
	AA214A	SHLD AA214	56J16-B5	OG CDU MDA INPUT RET
	AA226A	SHLD AA226	56E 30	0 VDC IMU
	AA227A	SHLD AA227	56E 30	0 VDC IMU
	AA232A	SHLD AA232	56E 30	0 VDC IMU
*	AA232B	SHLD AA232	56E 31	0 VDC IMU
*	AA244B	SHLD AA244	56J22- 41	
*	AA245B	SHLD AA245	56J22- 5	
*	AA246B	SHLD AA246	56J22- 8	
*	AA265B	SHLD AA265	56TB3-S 3	0 VDC IMU
*	AA270B	SHLD AA270	56TB3-N 3	0 VDC IMU
*	AA287B	SHLD AA287	56J22- 2	
*	AA288B	SHLD AA288	56J22- 11	
*	AA307B	SHLD AA307	56TB3-R 9	0 VDC OPTICS
*	AA308B	SHLD AA308	56TB3-N 9	0 VDC OPTICS
*	AA309B	SHLD AA309	56TB3-T 9	0 VDC OPTICS
*	AA310B	SHLD AA310	56TB3-S 9	0 VDC OPTICS
*	AA315B	SHLD AA315	56TB3-M 9	0 VDC OPTICS
*	AA316B	SHLD AA316	56TB3-L 9	0 VDC OPTICS
*	AA329B	SHLD AA329	56TB3-H 9	0 VDC OPTICS
*	AA331B	SHLD AA331	56TB3-K 9	0 VDC OPTICS
	AA467A	SHLD AA467	56E 46	AGC SIG 180 SHLD RET
	AA468A	SHLD AA468	56E 46	AGC SIG 180 SHLD RET
	AA469A	SHLD AA469	56E 46	AGC SIG 180 SHLD RET
	AA470A	SHLD AA470	56E 46	AGC SIG 180 SHLD RET
	AA471A	SHLD AA471	56E 46	AGC SIG 180 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA472A	SHLD AA472	56E 46	AGC SIG 180 SHLD RET
	AA475A	SHLD AA475	56E 47	AGC SIG 179 SHLD RET
	AA476A	SHLD AA476	56E 47	AGC SIG 179 SHLD RET
	AA477A	SHLD AA477	56E 47	AGC SIG 179 SHLD RET
	AA478A	SHLD AA478	56E 47	AGC SIG 179 SHLD RET
	AA479A	SHLD AA479	56E 47	AGC SIG 179 SHLD RET
	AA480A	SHLD AA480	56E 47	AGC SIG 179 SHLD RET
*	AA481B	SHLD AA481	56E 39	IG DAC MDA SIG LO
*	AA482B	SHLD AA482	56E 39	IG DAC MDA SIG LO
*	AA483B	SHLD AA483	56E 41	MG DAC MDA SIG LO
*	AA484B	SHLD AA484	56E 41	MG DAC MDA SIG LO
*	AA485B	SHLD AA485	56E 43	OG DAC MDA SIG LO
*	AA486B	SHLD AA486	56E 43	OG DAC MDA SIG LO
	AA487A	SHLD AA487	56E 57	AGC SIG 178 SHLD RET
*	AA487B	SHLD AA487	56TB2-D 3	AGC SIG 178 SHLD RET
	AA488A	SHLD AA488	56E 57	AGC SIG 178 SHLD RET
	AA489A	SHLD AA489	56E 57	AGC SIG 178 SHLD RET
*	AA490B	SHLD AA490	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA491B	SHLD AA491	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA492B	SHLD AA492	56E 52	SHAFT CDU DAC LO
*	AA493B	SHLD AA493	56E 52	SHAFT CDU DAC LO
	AA494A	SHLD AA494	56E 45	AGC SIG 180 SHLD RET
	AA495A	SHLD AA495	56E 45	AGC SIG 180 SHLD RET
*	AA496B	SHLD AA496	56E 50	TRUNNION CDU DAC LO
*	AA497B	SHLD AA497	56E 50	TRUNNION CDU DAC LO
	AA498A	SHLD AA498	56E 45	AGC SIG 180 SHLD RET
	AA499A	SHLD AA499	56E 45	AGC SIG 180 SHLD RET
*	AA500B	SHLD AA500	56E 27	0 VDC IMU
*	AA503B	SHLD AA503	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA504B	SHLD AA504	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA505B	SHLD AA505	56TB2-V 8	0 VDC IMU
*	AA506B	SHLD AA506	56TB2-M 8	0 VDC IMU
*	AA507B	SHLD AA507	56TB3-H12	0 VDC IMU
*	AA508B	SHLD AA508	56TB3-H14	0 VDC IMU
*	AA509B	SHLD AA509	56TB3-H13	0 VDC IMU
*	AA510B	SHLD AA510	56TB3-H14	0 VDC IMU
	AA569A	SHLD AA569	56TB2-D 3	AGC SIG 178 SHLD RET
	AA571A	SHLD AA571	56TB2-S 3	OG CDU ERROR SIG RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 258B	SHLD A 258	56TB3-R 9	0 VDC OPTICS
*	A 260B	SHLD A 260	56TB3-S15	0 VDC OPTICS
*	A 261B	SHLD A 261	56TB3-R15	0 VDC OPTICS
*	A 262B	SHLD A 262	56TB3-K 9	0 VDC OPTICS
*	A 263B	SHLD A 263	56TB3-H15	0 VDC OPTICS
*	A 278B	SHLD A 278	56TB3-R 3	0 VDC IMU
*	A 279B	SHLD A 279	56TB3-N 3	0 VDC IMU
*	A 289B	SHLD A 289	56TB1-S 8	0 VDC IMU
*	A 290B	SHLD A 290	56TB1-N 8	0 VDC IMU
*	A 291B	SHLD A 291	56TB1-S 6	0 VDC IMU
*	A 292B	SHLD A 292	56TB1-S 3	0 VDC IMU
*	A 293B	SHLD A 293	56TB1-N 4	0 VDC IMU
*	A 294B	SHLD A 294	56TB1-N 5	0 VDC IMU
*	A 302B	SHLD A 302	56TB3-S15	0 VDC OPTICS
*	A 304B	SHLD A 304	56TB3-H15	0 VDC OPTICS
*	A 306B	SHLD A 306	56TB3-T15	0 VDC OPTICS
*	A 307B	SHLD A 307	56TB3-T15	0 VDC OPTICS
*	A 309B	SHLD A 309	56TB3-M15	0 VDC OPTICS
*	A 310B	SHLD A 310	56TB3-M15	0 VDC OPTICS
*	A 312B	SHLD A 312	56TB3-K 9	0 VDC OPTICS
*	A 313B	SHLD A 313	56TB3-R15	0 VDC OPTICS
*	A 338B	SHLD A 338	56TB2-S 3	OG CDU ERROR SIG RET
*	A 355B	SHLD A 355	56TB3-H13	0 VDC IMU
*	A 356B	SHLD A 356	56TB3-H14	0 VDC IMU
*	A 357B	SHLD A 357	56TB3-H12	0 VDC IMU
*	A 358B	SHLD A 358	56E 48	0 VDC IMU
*	A 359B	SHLD A 359	56TB2-V 8	0 VDC IMU
*	A 360B	SHLD A 360	56TB2-M 8	0 VDC IMU
*	A 364B	SHLD A 364	56TB2-F 2	IG CDU ERROR SIG RET
*	A 365B	SHLD A 365	56TB2-F 7	MG CDU ERROR SIG RET
*	A 366B	SHLD A 366	56TB2-S 2	OG CDU ERROR SIG RET
*	A 407B	SHLD A 407	56E 44	AGC SIG 178 SHLD RET
*	A 421B	SHLD A 421	56TB3-F 7	TRUNNION CDU DAC LO
*	A 422B	SHLD A 422	56TB3-F 8	SHAFT CDU DAC LO
*	A 425B	SHLD A 425	56TB3-M 9	0 VDC OPTICS
*	A 426B	SHLD A 426	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
*	A 427B	SHLD A 427	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO
*	A 433B	SHLD A 433	56E 44	AGC SIG 178 SHLD RET
*	A 434B	SHLD A 434	56E 44	AGC SIG 178 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 577R	56E 1	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	A 84R	56E 1	56J03- 1	800 CPS 28 V 1 PCT HI IMU
*	A 572R	56E 1	56J01- 1	800 CPS 28 V 1 PCT HI IMU
*	A 573L	56E 1	56J01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 573R	56E 1	56J01- 25	800 CPS 28 V 1 PCT HI IMU
*	A 574R	56E 1	56J02- 1	800 CPS 28 V 1 PCT HI IMU
*	A 575L	56E 1	56J02- 11	800 CPS 28 V 1 PCT HI IMU
*	A 575R	56E 1	56J02- 25	800 CPS 28 V 1 PCT HI IMU
*	A 576L	56E 1	56J03- 11	800 CPS 28 V 1 PCT HI IMU
*	A 576R	56E 1	56J03- 25	800 CPS 28 V 1 PCT HI IMU
	A 577W	56E 2	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	A 84W	56E 2	56J03- 14	800 CPS 28 V 1 PCT LO IMU
*	A 572W	56E 2	56J01- 14	800 CPS 28 V 1 PCT LO IMU
*	A 574W	56E 2	56J02- 14	800 CPS 28 V 1 PCT LO IMU
	A 564R	56E 3	56TB1-G 4	25.6 KC LO IMU
*	A 46W	56E 3	56J01- 60	25.6 KC LO IMU
*	A 70W	56E 3	56J02- 60	25.6 KC LO IMU
*	A 93W	56E 3	56J03- 60	25.6 KC LO IMU
	A 564W	56E 4	56TB1-H 4	25.6 KC HI IMU
*	A 46R	56E 4	56J01- 50	25.6 KC HI IMU
*	A 70R	56E 4	56J02- 50	25.6 KC HI IMU
*	A 93R	56E 4	56J03- 50	25.6 KC HI IMU
	A 577L	56E 5	56TB2-H 5	ZEROING RSVR 800 CPS
*	A 573W	56E 5	56J01- 12	ZEROING RSVR 800 CPS
*	A 575W	56E 5	56J02- 12	ZEROING RSVR 800 CPS
*	A 576W	56E 5	56J03- 12	ZEROING RSVR 800 CPS
*	A 48	56E 6	56J01- 16	+28 VDC IMU
*	A 72	56E 6	56J02- 16	+28 VDC IMU
*	A 559	56E 6	56TB3-S21	+28 VDC IMU
*	A 581	56E 6	56J03- 16	+28 VDC IMU
	A 567R	56E 7	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 578R	56E 7	56J01- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 579R	56E 7	56J02- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 580R	56E 7	56J03- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	A 557	56E 8	56TB2-D 1	+28 VDC CDU NOT LOCK
*	A 50	56E 8	56J01- 15	+28 VDC CDU NOT LOCK
*	A 74	56E 8	56J02- 15	+28 VDC CDU NOT LOCK
*	A 582	56E 8	56J03- 15	+28 VDC CDU NOT LOCK
	A 561R	56E 9	56TB1-S 1	400 CPS VAR ILLUM PWR

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA185R	56J15-P5	56J16-S3	800 CPS 28 V 1 PCT LO IMU	
*	AA 49R	56J15-P5	56J12-P3	800 CPS 28 V 1 PCT LO IMU	
	AA185W	56J15-P6	56J16-S4	800 CPS 28 V 1 PCT HI IMU	
*	AA 49W	56J15-P6	56J12-N3	800 CPS 28 V 1 PCT HI IMU	
	AA156	56J15-R1	56TB2-C 2	BACKUP MODE RELAY CONTROL	
	AA157R	56J15-R2	56J21-101	0 VDC IMU	148A
*	AA153	56J15-R2	56J14-R6	0 VDC IMU	
*	AA 48R	56J15-R4	56J12-K2	3200 CPS 2 V LO	
	AA188R	56J15-R5	56J17-L4	+120 VDC RET PIP	
*	AA150R	56J15-R5	56J14-R1	+120 VDC RET PIP	
	AA177	56J15-R6	56TB2-D 1	+28 VDC CDU NOT LOCK	
	AA173	56J15-S1	56TB2-B 2	ZERO ENCODER RELAY CONTROL	
	AA183	56J15-S1	56J16-L2	ZERO ENCODER RELAY CONTROL	
	AA179	56J15-S2	56J20-K1	+28 VDC IMU	
*	AA152	56J15-S2	56J14-S6	+28 VDC IMU	
	AA174	56J15-S3	56TB2-B 1	LOCK CDU RELAY CONTROL	
	AA175	56J15-S3	56J22-227	LOCK CDU RELAY CONTROL	
*	AA 48W	56J15-S4	56J12-H2	3200 CPS 2 V HI	
	AA188W	56J15-S5	56J17-L5	+120 VDC PIP	
*	AA150W	56J15-S5	56J14-S1	+120 VDC PIP	
	AA186	56J15-S6	56J16-S2	+28 VDC IMU	
*	AA 1	56J15-S6	56J11-S4	+28 VDC IMU	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA197R	56J16-A1	56TB2-U 6	IG CDU MDA TACH SIG
	AA197W	56J16-A2	56TB2-T 6	IG CDU MDA SLEW SIG
	AA202R	56J16-A3	56TB2-W 5	MG CDU MDA TACH SIG
	AA202W	56J16-A4	56TB2-X 5	MG CDU MDA SLEW SIG
	AA214R	56J16-A5	56TB2-N 6	OG CDU MDA TACH SIG
	AA214W	56J16-A6	56TB2-R 6	OG CDU MDA SLEW SIG
*	AA489L	56J16-A7	56J21-152	ZERO ENCODER MODE INDICATION TO AGC 158A
	AA205W	56J16-A8	56TB2-U 7	SIN AOG 1X S2
	AA205R	56J16-A9	56TB2-U 8	SIN AOG 1X S4
	AA197L	56J16-B1	56TB2-T 7	IG CDU MDA INPUT RET
*	AA180W	56J16-B1	56J15-A5	IG DAC MDA SIG LO
*	AA197A	56J16-B1	SHLD AA197	IG CDU MDA INPUT RET
*	AA180R	56J16-B2	56J15-A4	IG DAC MDA SIG HI
	AA202L	56J16-B3	56TB2-X 6	MG CDU MDA INPUT RET
*	AA181W	56J16-B3	56J15-A7	MG DAC MDA SIG LO
*	AA202A	56J16-B3	SHLD AA202	MG CDU MDA INPUT RET
*	AA181R	56J16-B4	56J15-A6	MG DAC MDA SIG HI
	AA214L	56J16-B5	56TB2-R 7	OG CDU MDA INPUT RET
*	AA182W	56J16-B5	56J15-A9	OG DAC MDA SIG LO
*	AA214A	56J16-B5	SHLD AA214	OG CDU MDA INPUT RET
*	AA182R	56J16-B6	56J15-A8	OG DAC MDA SIG HI
*	AA569L	56J16-B7	56TB2-D 2	AGC COM
	AA204W	56J16-B8	56TB2-N 8	COS AOG 1X S3
	AA205L	56J16-B9	56TB2-T 8	SIN AOG 1X TO CDU
	AA196W	56J16-C1	56TB2-H 1	IG CDU 16X ERROR SIG
	AA195W	56J16-C2	56TB2-H 2	IG CDU 1X ERROR SIG
	AA201W	56J16-C3	56TB2-H 8	MG CDU 16X ERROR SIG
	AA200W	56J16-C4	56TB2-H 7	MG CDU 1X ERROR SIG
	AA208R	56J16-C5	56TB2-N 3	OG CDU 16X ERROR SIG
	AA207W	56J16-C6	56TB2-N 2	OG CDU 1X ERROR SIG
	AA204R	56J16-C8	56TB2-N 7	COS AOG 1X S1
	AA204L	56J16-C9	56TB2-R 8	COS AOG 1X TO CDU
	AA194W	56J16-D1	56TB2-H 3	IG CDU 1/2X ERROR SIG
	AA194R	56J16-D2	56TB2-G 3	IG CDU ERROR SIG RET
	AA195R	56J16-D2	56TB2-G 2	IG CDU ERROR SIG RET
	AA196R	56J16-D2	56TB2-G 1	IG CDU ERROR SIG RET
	AA199W	56J16-D3	56TB2-H 6	MG CDU 1/2X ERROR SIG
	AA199R	56J16-D4	56TB2-G 6	MG CDU ERROR SIG RET
	AA200R	56J16-D4	56TB2-G 7	MG CDU ERROR SIG RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA172L	56J15-D9	56TB2-C 7	SIN AMG 16X TO CDU	
	AA162W	56J15-F1	56TB2-B 6	MG CDU ENCODER PHASE 1	
	AA162L	56J15-F2	56TB2-C 6	MG CDU ENCODER COM	
	AA171L	56J15-F7	56TB2-C 8	SIN AIG 16X TO CDU	
	AA172W	56J15-F8	56TB2-A 7	SIN AMG 16X S2	
	AA172R	56J15-F9	56TB2-B 7	SIN AMG 16X S4	
	AA170	56J15-H4	56TB2-C 1	FINE ALIGN RELAY CONTROL	
	AA184	56J15-H4	56J16-L1	FINE ALIGN RELAY CONTROL	
	AA178	56J15-H5	56J20-H4	+28 VDC AGC	
	AA187	56J15-K3	56J16-N4	STRUCTURE GND	
*	AA151	56J15-K3	56J14-H5	STRUCTURE GND	
*	AA471L	56J15-K4	56J21- 95	- DELTA V Z	137B
*	AA472L	56J15-K5	56J21-128	+ DELTA V Z	136B
*	AA470L	56J15-K6	56J21-161	- DELTA V Y	135B
*	AA138	56J15-L1	56J14-H3	PIPA INTERROGATE PULSE	
*	AA148	56J15-L2	56J14-F6	P Z	
*	AA116	56J15-L3	56J13-D3	P Y	
*	AA114	56J15-L4	56J13-D1	P X	
	AA158	56J15-L5	56E 35	COMPUTER RET	
	AA159	56J15-L5	56E 36	COMPUTER RET	
	AA160	56J15-L5	56E 37	COMPUTER RET	
*	AA469L	56J15-L6	56J21-195	+ DELTA V Y	134B
*	AA145	56J15-M1	56J14-H4	GYRO DATA PULSE	
*	AA149	56J15-M2	56J14-G6	N Z	
*	AA117	56J15-M3	56J13-F3	N Y	
*	AA115	56J15-M4	56J13-F1	N X	
*	AA467L	56J15-M5	56J21-126	+ DELTA V X	132B
*	AA468L	56J15-M6	56J21- 93	- DELTA V X	133B
*	AA146	56J15-N1	56J14-K3	PIPA SWITCHING PULSE	
*	AA143	56J15-N2	56J14-C1	+ SET X GYRO CAGE	
*	AA141	56J15-N3	56J14-C3	+ SET Y GYRO CAGE	
*	AA139	56J15-N4	56J14-C5	+ SET Z GYRO CAGE	
*	AA 50R	56J15-N5	56J12-P5	25.6 KC LO IMU	
*	AA 50W	56J15-N6	56J12-N5	25.6 KC HI IMU	
	AA157W	56J15-P1	56J21-102	GYRO RESET PULSE	148B
*	AA147	56J15-P1	56J14-K4	GYRO RESET PULSE	
*	AA144	56J15-P2	56J14-C2	- SET X GYRO CAGE	
*	AA142	56J15-P3	56J14-C4	- SET Y GYRO CAGE	
*	AA140	56J15-P4	56J14-C6	- SET Z GYRO CAGE	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA201R	56J16-D4	56TB2-G 8	MG CDU ERROR SIG RET	
	AA206W	56J16-D5	56TB2-N 1	OG CDU 1/2X ERROR SIG	
	AA206R	56J16-D6	56TB2-R 1	OG CDU ERROR SIG RET	
	AA207R	56J16-D6	56TB2-R 2	OG CDU ERROR SIG RET	
	AA208W	56J16-D6	56TB2-R 3	OG CDU ERROR SIG RET	
	AA209R	56J16-D7	56TB2-W 3	COS AOG 16X S1	
	AA213W	56J16-D8	56TB2-X 3	SIN AOG 16X S2	
	AA213R	56J16-D9	56TB2-W 2	SIN AOG 16X S4	
	AA216	56J16-F2	56TB2-W 1	IG CDU 1X RSVR LOAD	
	AA217	56J16-F4	56TB2-X 1	MG CDU 1X RSVR LOAD	
	AA219	56J16-F5	56TB2-T 1	OG CDU 16X RSVR LOAD	
	AA218	56J16-F6	56TB2-S 1	OG CDU 1X RSVR LOAD	
	AA209W	56J16-F7	56TB2-W 4	COS AOG 16X S3	
	AA209L	56J16-F8	56TB2-X 4	COS AOG 16X TO CDU	
	AA213L	56J16-F9	56TB2-X 2	SIN AOG 16X TO CDU	
	AA230W	56J16-G1	56TB2-W 6	COS AIG 16X S3	
	AA230L	56J16-G2	56TB2-W 7	COS AIG 16X TO CDU	
	AA231W	56J16-G3	56TB2-U 5	COS AMG 16X S3	
	AA231L	56J16-G4	56TB2-U 4	COS AMG 16X TO CDU	
	AA230R	56J16-H1	56TB2-X 7	COS AIG 16X S1	
	AA231R	56J16-H3	56TB2-T 5	COS AMG 16X S1	
	AA220	56J16-L1	56J22-228	FINE ALIGN RELAY CONTROL	
*	AA184	56J16-L1	56J15-H4	FINE ALIGN RELAY CONTROL	
*	AA183	56J16-L2	56J15-S1	ZERO ENCODER RELAY CONTROL	
	AA226L	56J16-L3	56J21- 35	COMPUTER 800 PPS SYNC RET	150B
	AA227L	56J16-L3	56J21- 68	COMPUTER 800 PPS SYNC RET	149A
	AA232W	56J16-L3	56E 31	COMPUTER 800 PPS SYNC RET	
	AA226R	56J16-L4	56J21- 34	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
	AA232L	56J16-L4	56J12-D1	COMPUTER 800 PPS OUT OF PHASE SYNC	
	AA221	56J16-M1	56TB2-R 4	ENTRY RELAY CONTROL	
*	AA 56	56J16-M2	56J12-H5	IG CDU FAILURE INDICATION	
*	AA 57	56J16-M3	56J12-H6	MG CDU FAILURE INDICATION	
	AA227R	56J16-M4	56J21- 69	COMPUTER 800 PPS IN PHASE SYNC	149B
	AA232R	56J16-M4	56J12-D2	COMPUTER 800 PPS IN PHASE SYNC	
	AA215W	56J16-N1	56TB2-K 6	OG CDU MDA OUTPUT	
	AA215R	56J16-N2	56TB2-K 5	OG CDU MDA OUTPUT	
*	AA 58	56J16-N3	56J12-G6	OG CDU FAILURE INDICATION	
	AA234	56J16-N4	56J17-L6	STRUCTURE GND	
*	AA187	56J16-N4	56J15-K3	STRUCTURE GND	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 132W	56E 18	56TB3-L11	TRUNNION CDU 1/2X RSVR P3	
*	A 133	56E 18	56J05- 11	TRUNNION CDU 1/2X RSVR P3	
*	A 149	56E 18	56J05- 25	TRUNNION CDU 1/2X RSVR P3	
	A 556	56E 19	56TB1-S 7	0 VDC IMU	
*	A 194	56E 19	56J08- 31	0 VDC IMU	
*	A 195	56E 19	56J08- 70	0 VDC IMU	
*	A 204	56E 19	56J08- 30	0 VDC IMU	
*	A 205	56E 19	56J08- 28	0 VDC IMU	
*	A 208	56E 19	56J08- 17	0 VDC IMU	
*	A 212	56E 19	56J08- 52	0 VDC IMU	
	A 549	56E 20	56TB2-D 6	0 VDC IMU	
*	A 189	56E 20	56J08- 61	0 VDC IMU	
*	A 191	56E 20	56J08- 84	0 VDC IMU	
*	A 201	56E 20	56J08- 83	0 VDC IMU	
*	A 213	56E 20	56J08- 63	0 VDC IMU	
	A 550	56E 21	56TB2-D 5	0 VDC IMU	
*	A 337	56E 21	56P09- 27	0 VDC IMU	
*	A 339	56E 21	56P09- 37	0 VDC IMU	
*	A 340	56E 21	56P09- 26	0 VDC IMU	
*	A 341	56E 21	56P09- 25	0 VDC IMU	
*	A 347	56E 21	56P09- 36	0 VDC IMU	
*	A 348	56E 21	56P09- 24	0 VDC IMU	
	A 494W	56E 22	56J21-211		214B
	A 495W	56E 22	56J21-176		215B
	A 496W	56E 22	56J21-143		216B
	A 497W	56E 22	56J21-110		217B
	A 498W	56E 22	56J21- 77		218B
	A 499W	56E 22	56J21- 42		219B
	A 500W	56E 22	56J21-213		221B
	A 501W	56E 22	56J21-178		222B
	A 502W	56E 22	56J21-145		223B
	A 505W	56E 22	56J21- 5		220B
*	A 554	56E 22	56E 23		
	A 482W	56E 23	56J21- 81		232B
	A 483W	56E 23	56J21- 7		227B
	A 484W	56E 23	56J21-215		228B
	A 485W	56E 23	56J21-180		229B
	A 486W	56E 23	56J21-147		230B
	A 487W	56E 23	56J21-114		231B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 488W	56E 23	56J21- 46		233B
	A 503W	56E 23	56J21-112		224B
	A 504W	56E 23	56J21- 44		226B
	A 506W	56E 23	56J21- 79		225B
	A 554	56E 23	56E 22		
	A 555	56E 23	56E 24		
	A 470W	56E 24	56J21- 48		244B
	A 471W	56E 24	56J21- 83		242B
	A 489W	56E 24	56J21- 9		234B
	A 490W	56E 24	56J21-217		235B
	A 491W	56E 24	56J21-182		236B
	A 492W	56E 24	56J21-149		237B
	A 493W	56E 24	56J21-116		238B
	A 552	56E 24	56E 26		
*	A 555	56E 24	56E 23		
	A 467W	56E 25	56J21- 85		205B
	A 468R	56E 25	56J21- 13		209B
	A 472W	56E 25	56J21-151		203B
	A 510W	56E 25	56J21- 15		207B
	A 511W	56E 25	56J21-118		204B
	A 514W	56E 25	56J21-184		202B
	A 515W	56E 25	56J21-186		210B
	A 516W	56E 25	56J21-219		201B
	A 517W	56E 25	56J21-221		208B
	A 551	56E 25	56E 26		
*	A 519	56E 26	56J10- 82	COMMONED RETURNS GROUND	330
*	A 551	56E 26	56E 25		
*	A 552	56E 26	56E 24		
	AA 92B	56E 27	SHLD AA 92	0 VDC IMU	
	AA500B	56E 27	SHLD AA500	0 VDC IMU	
*	AA500L	56E 27	56J21-104	0 VDC IMU	155B
*	AA608	56E 27	56TB2-D 4	0 VDC IMU	
	AA503B	56E 28	SHLD AA503	COMPUTER 3200 PPS SYNC RET	
	AA504B	56E 28	SHLD AA504	COMPUTER 3200 PPS SYNC RET	
*	AA 36	56E 28	56J11-M5	COMPUTER 3200 PPS SYNC RET	
*	AA503L	56E 28	56J21-204	COMPUTER 3200 PPS SYNC RET	152B
*	AA504L	56E 28	56J21-242	COMPUTER 3200 PPS SYNC RET	151B
	AA490B	56E 29	SHLD AA490	COMPUTER 25.6 KPPS SYNC RET	
	AA491B	56E 29	SHLD AA491	COMPUTER 25.6 KPPS SYNC RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 53R	56E 9	56J01- 28	400 CPS VAR ILLUM PWR
*	A 77R	56E 9	56J02- 28	400 CPS VAR ILLUM PWR
*	A 98R	56E 9	56J03- 28	400 CPS VAR ILLUM PWR
*	A 123R	56E 9	56J04- 28	400 CPS VAR ILLUM PWR
*	A 146R	56E 9	56J05- 28	400 CPS VAR ILLUM PWR
	A 561W	56E 10	56TB1-S 2	400 CPS 6 V LO
*	A 53W	56E 10	56J01- 29	400 CPS 6 V LO
*	A 77W	56E 10	56J02- 29	400 CPS 6 V LO
*	A 98W	56E 10	56J03- 29	400 CPS 6 V LO
*	A 123W	56E 10	56J04- 29	400 CPS 6 V LO
*	A 146W	56E 10	56J05- 29	400 CPS 6 V LO
	A 567W	56E 11	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 578W	56E 11	56J01- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 579W	56E 11	56J02- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 580W	56E 11	56J03- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 54	56E 12	56J01- 41	STRUCTURE GND
*	A 78	56E 12	56J02- 41	STRUCTURE GND
*	A 99	56E 12	56J03- 41	STRUCTURE GND
*	A 124	56E 12	56J04- 41	STRUCTURE GND
*	A 147	56E 12	56J05- 41	STRUCTURE GND
*	A 548	56E 12	56TB3-B20	STRUCTURE GND
	A 558W	56E 13	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 104W	56E 13	56J04- 14	800 CPS 28 V 1 PCT LO OPTICS
*	A 584R	56E 13	56J04- 25	800 CPS 28 V 1 PCT LO OPTICS
*	A 584W	56E 13	56J04- 11	800 CPS 28 V 1 PCT LO OPTICS
*	A 585R	56E 13	56J05- 4	800 CPS 28 V 1 PCT LO OPTICS
*	A 585W	56E 13	56J05- 18	800 CPS 28 V 1 PCT LO OPTICS
*	A 586W	56E 13	56J05- 14	800 CPS 28 V 1 PCT LO OPTICS
	A 558R	56E 14	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 104R	56E 14	56J04- 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 584L	56E 14	56J04- 12	800 CPS 28 V 1 PCT HI OPTICS
*	A 585L	56E 14	56J05- 17	800 CPS 28 V 1 PCT HI OPTICS
*	A 586R	56E 14	56J05- 1	800 CPS 28 V 1 PCT HI OPTICS
	A 560W	56E 16	56TB1-G 7	25.6 KC LO OPTICS
*	A 117W	56E 16	56J04- 60	25.6 KC LO OPTICS
*	A 583W	56E 16	56J05- 60	25.6 KC LO OPTICS
	A 560R	56E 17	56TB1-H 7	25.6 KC HI OPTICS
*	A 117R	56E 17	56J04- 50	25.6 KC HI OPTICS
*	A 583R	56E 17	56J05- 50	25.6 KC HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA 69	56E 29	56J12-F2	COMPUTER 25.6 KPPS SYNC RET	
*	AA490R	56E 29	56J21-170	COMPUTER 25.6 KPPS SYNC RET	153B
*	AA491L	56E 29	56J21-137	COMPUTER 25.6 KPPS SYNC RET	154B
*	AA226A	56E 30	SHLD AA226	0 VDC IMU	
*	AA227A	56E 30	SHLD AA227	0 VDC IMU	
*	AA232A	56E 30	SHLD AA232	0 VDC IMU	
	AA232B	56E 31	SHLD AA232	0 VDC IMU	
*	AA 67	56E 31	56J12-F1	COMPUTER 800 PPS SYNC RET	
*	AA 91	56E 31	56J12-R4	0 VDC IMU	
*	AA232W	56E 31	56J16-L3	COMPUTER 800 PPS SYNC RET	
	AA129W	56E 33	56J21- 66	0 VDC IMU	142A
	AA130R	56E 33	56J21- 32	0 VDC IMU	143A
	AA131W	56E 33	56J21-239	0 VDC IMU	144A
	AA132W	56E 33	56J21-201	0 VDC IMU	145A
	AA134R	56E 33	56J21-167	0 VDC IMU	146A
	AA135W	56E 33	56J21-134	0 VDC IMU	147A
*	AA137	56E 33	56J14-R6	0 VDC IMU	
*	AA 77	56E 34	56J12-B5	0 VDC IMU	
*	AA125	56E 34	56J13-R6	0 VDC IMU	
*	AA501R	56E 34	56J21-133	0 VDC IMU	139B
*	AA502R	56E 34	56J21-100	0 VDC IMU	140B
*	AA158	56E 35	56J15-L5	COMPUTER RET	
*	AA467R	56E 35	56J21-125	COMPUTER RET	132A
*	AA468R	56E 35	56J21- 92	COMPUTER RET	133A
*	AA159	56E 36	56J15-L5	COMPUTER RET	
*	AA469R	56E 36	56J21-194	COMPUTER RET	134A
*	AA470R	56E 36	56J21-160	COMPUTER RET	135A
*	AA160	56E 37	56J15-L5	COMPUTER RET	
*	AA471R	56E 37	56J21- 94	COMPUTER RET	137A
*	AA472R	56E 37	56J21-127	COMPUTER RET	136A
*	AA164	56E 38	56J15-A5	IG DAC MDA SIG LO	
*	AA475R	56E 38	56J21- 25	IG DAC MDA SIG LO	120B
*	AA476L	56E 38	56J21- 27	IG DAC MDA SIG LO	121B
	AA481B	56E 39	SHLD AA481	IG DAC MDA SIG LO	
	AA482B	56E 39	SHLD AA482	IG DAC MDA SIG LO	
*	AA167	56E 39	56J15-A5	IG DAC MDA SIG LO	
*	AA481R	56E 39	56J21-238	IG DAC MDA SIG LO	128B
*	AA482L	56E 39	56J21-200	IG DAC MDA SIG LO	129B
*	AA165	56E 40	56J15-A7	MG DAC MDA SIG LO	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 11W	56J17-A1	56J11-C3	OG CDU ATTITUDE STEERING ERROR
*	AA571L	56J17-A2	56TB2-N 3	OG CDU 16X ERROR SIG
	AA287L	56J17-A3	56J22- 1	ROLL ERROR BODY OFFSET AXIS HI
	AA244L	56J17-A4	56J22- 3	ROLL ERROR BODY AXIS HI
	AA281W	56J17-A6	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1
	AA281R	56J17-A7	56TB3-T 5	TRUNNION CDU ENCODER COM
	AA281L	56J17-A8	56TB3-T 6	TRUNNION CDU ENCODER PHASE 2
	AA285	56J17-A9	56TB3-M 3	TRUNNION ENCODER PIN 8
*	AA 11R	56J17-B1	56J11-B3	OG CDU ERROR SIG RET
*	AA571R	56J17-B2	56TB2-R 3	OG CDU ERROR SIG RET
	AA287R	56J17-B3	56J22- 39	ROLL ERROR BODY OFFSET AXIS LO
	AA244R	56J17-B4	56J22- 4	ROLL ERROR BODY AXIS LO
	AA268	56J17-B5	56TB3-L 3	IRIG TEMP CONT SENSOR RET
	AA267	56J17-B6	56TB3-L 4	IRIG TEMP CONT SENSOR HI
	AA252	56J17-B7	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
	AA253	56J17-B8	56TB3-G 3	IRIG ZERO DEVIATION CHECK
	AA286	56J17-B9	56TB3-K 4	TRUNNION ENCODER PIN 9
	AA288R	56J17-C1	56J22- 10	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289W	56J17-C1	56TB3-M13	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289R	56J17-C2	56TB3-M14	PITCH-YAW RSVR S4
	AA246L	56J17-C3	56J22- 45	YAW ERROR BODY OFFSET AXIS HI
	AA245L	56J17-C4	56J22- 6	YAW ERROR BODY AXIS HI
	AA266	56J17-C5	56TB3-K 3	IRIG TEMP IND SENSOR RET
	AA276	56J17-C6	56TB3-H 4	IRIG TEMP IND SENSOR HI
	AA254	56J17-C7	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6
	AA290	56J17-C8	56TB3-L 1	IRIG TEMP GAIN SWITCH NC
	AA284W	56J17-C9	56TB3-S 6	SHAFT CDU ENCODER PHASE 1
	AA288L	56J17-D1	56J22- 48	PITCH ERROR BODY AND BODY OFFSET AXIS HI
	AA247R	56J17-D2	56TB3-R 4	PITCH YAW RSVR S3
	AA246R	56J17-D3	56J22- 46	YAW ERROR BODY OFFSET AXIS LO
	AA247W	56J17-D3	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
	AA245R	56J17-D4	56J22- 43	YAW ERROR BODY AXIS LO
	AA269	56J17-D5	56TB3-M 1	ACCEL TEMP IND SENSOR RET
	AA255	56J17-D6	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
	AA256	56J17-D7	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
	AA251	56J17-D8	56TB3-M 2	IMU TD RELAY C
	AA284R	56J17-D9	56TB3-S 5	SHAFT CDU ENCODER COM
	AA274	56J17-F3	56TB3-D 5	HTR CURRENT (TELEMETRY)
	AA273	56J17-F4	56TB3-C 5	IRIG TEMP (TELEMETRY)

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA272	56J17-F5	56TB3-D 4	ACCEL TEMP (TELEMETRY)
	AA271	56J17-F6	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
	AA257	56J17-F7	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
	AA249	56J17-F8	56TB3-L 2	IMU TD RELAY NO
	AA284L	56J17-F9	56TB3-S 4	SHAFT CDU ENCODER PHASE 2
	AA261	56J17-G1	56TB3-K 5	IMU TEMP ALARM AMP PIN 14
	AA262	56J17-G2	56TB3-H 5	IMU TEMP ALARM AMP PIN 15
	AA242R	56J17-G4	56J18-L1	SHAFT CDU ENCODER + DELTA THETA
	AA243R	56J17-G6	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA
	AA259	56J17-H1	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
	AA260	56J17-H2	56TB3-K 1	IMU TEMP ALARM AMP PIN 5
	AA242W	56J17-H4	56E 53	SHAFT CDU DAC LO
	AA243W	56J17-H6	56E 51	TRUNNION CDU DAC LO
	AA242L	56J17-K4	56J18-K1	SHAFT CDU ENCODER - DELTA THETA
	AA243L	56J17-K6	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA
	AA263	56J17-L1	56TB3-L 5	IMU TEMP CONT K2 PIN 6
	AA293	56J17-L3	56J22-243	IMU TEMP LIGHT (MAIN PANEL)
*	AA188R	56J17-L4	56J15-R5	+120 VDC RET PIP
*	AA188W	56J17-L5	56J15-S5	+120 VDC PIP
	AA241	56J17-L6	56J18-R5	STRUCTURE GND
*	AA234	56J17-L6	56J16-N4	STRUCTURE GND
	AA264	56J17-M1	56TB3-D 1	0 VDC IMU
	AA277	56J17-M2	56TB3-G 5	IMU TEMP SENSOR COM
	AA278	56J17-M3	56TB3-F 1	0 VDC SPACECRAFT
	AA292	56J17-M3	56J22-206	0 VDC SPACECRAFT
*	AA 97	56J17-M3	56J12-F3	0 VDC SPACECRAFT
	AA265L	56J17-M4	56TB3-N 1	IMU EMERGENCY HTR HI
	AA258W	56J17-M5	56TB3-H 2	IMU TEMP CONT K1 PIN 3
	AA258R	56J17-M6	56TB3-H 1	IMU TEMP CONT AMP PIN 5
	AA270L	56J17-N1	56TB3-N 4	IMU CONTROL HTR LO
*	AA 12W	56J17-N2	56J11-P1	3200 CPS 20 V HI
*	AA 94R	56J17-N3	56J12-N6	25.6 KC LO OPTICS
	AA265R	56J17-N4	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY
	AA258L	56J17-N5	56TB3-G 2	IMU TEMP CONT K2 PIN 5
	AA258K	56J17-N6	56TB3-G 1	IMU HTR CURRENT AMP PIN 5
	AA270R	56J17-P1	56TB3-N 5	IMU CONTROL HTR HI
*	AA 12R	56J17-P2	56J11-N1	3200 CPS 20 V CT
*	AA 94W	56J17-P3	56J12-P6	25.6 KC HI OPTICS
	AA250R	56J17-P4	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA191R	56J16-N5	56J20-L3	800 CPS 28 V 1 PCT LO OPTICS
	AA224R	56J16-N5	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
	AA233R	56J16-N5	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA192R	56J16-N6	56J20-M4	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA225R	56J16-N6	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA198R	56J16-P1	56TB2-L 6	IG CDU MDA OUTPUT
	AA223	56J16-P2	56TB2-K 4	0 VDC IMU
	AA203R	56J16-P3	56TB2-K 3	MG CDU MDA OUTPUT
	AA222W	56J16-P4	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
	AA191W	56J16-P5	56J20-K3	800 CPS 28 V 1 PCT HI OPTICS
	AA224W	56J16-P5	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
	AA233W	56J16-P5	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA192W	56J16-P6	56J20-L4	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA225W	56J16-P6	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA198W	56J16-R1	56TB2-L 5	IG CDU MDA OUTPUT
*	AA 59	56J16-R2	56J12-G5	0 VDC IMU
	AA203W	56J16-R3	56TB2-L 3	MG CDU MDA OUTPUT
	AA222K	56J16-R4	56TB2-H 5	ZEROING RSVR 800 CPS
	AA228	56J16-R5	56TB3-L20	0 VDC OPTICS
	AA229	56J16-R6	56TB3-L20	0 VDC OPTICS
	AA210	56J16-S1	56TB2-N 5	+28 VDC IMU FOR IG MDA
	AA193	56J16-S2	56J20-K2	+28 VDC IMU
*	AA186	56J16-S2	56J15-S6	+28 VDC IMU
	AA222L	56J16-S3	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	AA185R	56J16-S3	56J15-P5	800 CPS 28 V 1 PCT LO IMU
	AA222R	56J16-S4	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	AA185W	56J16-S4	56J15-P6	800 CPS 28 V 1 PCT HI IMU
	AA189	56J16-S5	56J20-N5	+28 VDC OPTICS
	AA190	56J16-S6	56J20-N6	+28 VDC OPTICS
	AA211	56J16-T1	56TB2-R 5	+28 VDC IMU FOR MG MDA
	AA212	56J16-T2	56TB2-K 8	+28 VDC IMU FOR OG MDA

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA275	56J17-P5	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI	
	AA235	56J17-P6	56TB3-F 3	CONDITION LAMP TEST	
*	AA 13	56J17-R1	56J11-S3	+28 VDC STBY	
*	AA 12L	56J17-R2	56J11-N2	3200 CPS 20 V LO	
*	AA 92L	56J17-R3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
*	AA 92R	56J17-R3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
*	AA500R	56J17-R3	56J21-103	COMPUTER 12.8 KPPS SYNC	155A
	AA250W	56J17-R4	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA280	56J17-R5	56TB3-M21	+28 VDC MDV	
	AA282	56J17-R6	56TB3-L21	0 VDC OPTICS	
	AA283	56J17-R6	56J17-S6	0 VDC OPTICS	
	AA291	56J17-S1	56J17-S2	0 VDC IMU	
	AA296	56J17-S1	56TB3-S 3	0 VDC IMU	
	AA248	56J17-S2	56TB3-T 3	0 VDC IMU	
*	AA291	56J17-S2	56J17-S1	0 VDC IMU	
	AA295	56J17-S3	56TB3-N 3	0 VDC IMU	
	AA297	56J17-S4	56TB3-R 3	0 VDC IMU	
*	AA154R	56J17-S5	56J14-R4	+32 VDC RET PIP	
*	AA283	56J17-S6	56J17-R6	0 VDC OPTICS	
	AA238	56J17-T1	56J20-P3	+28 VDC STBY	
	AA294	56J17-T1	56J17-T2	+28 VDC STBY	
	AA239	56J17-T2	56J20-P4	+28 VDC STBY	
*	AA294	56J17-T2	56J17-T1	+28 VDC STBY	
	AA237	56J17-T3	56J20-M2	+28 VDC IMU	
	AA236	56J17-T4	56J20-M1	+28 VDC IMU	
*	AA154W	56J17-T5	56J14-S4	+32 VDC PIP	
	AA240	56J17-T6	56J18-S1	+28 VDC OPTICS	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA568	56E 46	56E 45	AGC SIG 180 SHLD RET	
*	AA474	56E 47	56J21- 22	AGC SIG 179 SHLD RET	179
*	AA475A	56E 47	SHLD AA475	AGC SIG 179 SHLD RET	
*	AA476A	56E 47	SHLD AA476	AGC SIG 179 SHLD RET	
*	AA477A	56E 47	SHLD AA477	AGC SIG 179 SHLD RET	
*	AA478A	56E 47	SHLD AA478	AGC SIG 179 SHLD RET	
*	AA479A	56E 47	SHLD AA479	AGC SIG 179 SHLD RET	
*	AA480A	56E 47	SHLD AA480	AGC SIG 179 SHLD RET	
	A 64B	56E 48	SHLD A 64	0 VDC IMU	
	A 221B	56E 48	SHLD A 221	0 VDC IMU	
	A 358B	56E 48	SHLD A 358	0 VDC IMU	
*	A 458	56E 48	56TB2-D 5	0 VDC IMU	
	AA496B	56E 50	SHLD AA496	TRUNNION CDU DAC LO	
	AA497B	56E 50	SHLD AA497	TRUNNION CDU DAC LO	
*	AA348	56E 50	56J18-H3	TRUNNION CDU DAC LO	
*	AA496R	56E 50	56J21-236	TRUNNION CDU DAC LO	114B
*	AA497L	56E 50	56J21-198	TRUNNION CDU DAC LO	115B
*	AA243W	56E 51	56J17-H6	TRUNNION CDU DAC LO	
*	AA349	56E 51	56J18-H3	TRUNNION CDU DAC LO	
*	AA498R	56E 51	56J21-231	TRUNNION CDU DAC LO	108B
*	AA499R	56E 51	56J21-191	TRUNNION CDU DAC LO	109B
	AA492B	56E 52	SHLD AA492	SHAFT CDU DAC LO	
	AA493B	56E 52	SHLD AA493	SHAFT CDU DAC LO	
*	AA346	56E 52	56J18-H2	SHAFT CDU DAC LO	
*	AA492R	56E 52	56J21-164	SHAFT CDU DAC LO	116B
*	AA493L	56E 52	56J21-131	SHAFT CDU DAC LO	117B
*	AA242W	56E 53	56J17-H4	SHAFT CDU DAC LO	
*	AA347	56E 53	56J18-H2	SHAFT CDU DAC LO	
*	AA494R	56E 53	56J21-157	SHAFT CDU DAC LO	110B
*	AA495R	56E 53	56J21-124	SHAFT CDU DAC LO	111B
	A 155R	56E 55	56TB2-F 3		
	A 156R	56E 55	56J21-229		164B
*	A 406	56E 56	56J09- 60	AGC COMMON	
*	A 415	56E 56	56J09- 42	AGC COMMON	
*	A 420	56E 56	56J09- 36	AGC COMMON	
*	A 440W	56E 56	56J21-119	AGC COMMON	101A
*	A 566	56E 57	56E 44	AGC SIG 178 SHLD RET	
*	AA487A	56E 57	SHLD AA487	AGC SIG 178 SHLD RET	
*	AA488A	56E 57	SHLD AA488	AGC SIG 178 SHLD RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA489A	56E 57	SHLD AA489	AGC SIG 178 SHLD RET	
*	AA562	56E 57	56J21- 53	AGC SIG 178 SHLD RET	178
	A 407R	56E 58	56J21- 17		105B
	A 433R	56E 58	56J21- 87		102B
	A 434R	56E 58	56J21- 89		103B
	A 437R	56E 58	56J21- 55		104B
	A 449W	56E 58	56J21- 19		106B
*	A 440R	56E 58	56J21-120		101B
	AA176R	56E 59	56TB2-F 3		
*	AA488R	56E 59	56J21-189		160B
*	AA489R	56E 60	56J21-153		158B
*	AA569R	56E 60	56TB2-F 3		
	A 13R	56E 61	56TB2-F 3		
	A 14R	56E 61	56J21-155		159B
	A 15R	56E 61	56J21-223		161B
	A 16R	56E 61	56J21-227		163B
	A 27R	56E 61	56J21-225		162B
*	A 570	56E 62	56J10- 1	GROUP 2 SHIELD	245
*	A 571	56E 63	56J21-107	GROUP 2 SHIELD	245
*	A 568	56E 64	56J21-187	GROUP 3 SHIELD	250
*	A 569	56E 65	56J10- 27	GROUP 3 SHIELD	250
*	AA617	56E 66	56J11-L4	STRUCTURE GND	
*	AA618	56E 67	56J11-L4	STRUCTURE GND	
*	AA619	56E 68	56TB3-B20	STRUCTURE GND	
*	AA620	56E 69	56TB3-B20	STRUCTURE GND	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA477R	56E 40	56J21-233	MG DAC MDA SIG LO	122B
*	AA478L	56E 40	56J21-193	MG DAC MDA SIG LO	123B
	AA483B	56E 41	SHLD AA483	MG DAC MDA SIG LO	
	AA484B	56E 41	SHLD AA484	MG DAC MDA SIG LO	
*	AA168	56E 41	56J15-A7	MG DAC MDA SIG LO	
*	AA483R	56E 41	56J21-166	MG DAC MDA SIG LO	130B
*	AA484L	56E 41	56J21- 98	MG DAC MDA SIG LO	131B
*	AA166	56E 42	56J15-A9	OG DAC MDA SIG LO	
*	AA479R	56E 42	56J21- 57	OG DAC MDA SIG LO	118B
*	AA480L	56E 42	56J21- 59	OG DAC MDA SIG LO	119B
	AA485B	56E 43	SHLD AA485	OG DAC MDA SIG LO	
	AA486B	56E 43	SHLD AA486	OG DAC MDA SIG LO	
*	AA169	56E 43	56J15-A9	OG DAC MDA SIG LO	
*	AA485R	56E 43	56J21- 65	OG DAC MDA SIG LO	126B
*	AA486L	56E 43	56J21- 31	OG DAC MDA SIG LO	127B
	A 14B	56E 44	SHLD A 14	AGC SIG 178 SHLD RET	
	A 15B	56E 44	SHLD A 15	AGC SIG 178 SHLD RET	
	A 16B	56E 44	SHLD A 16	AGC SIG 178 SHLD RET	
	A 27B	56E 44	SHLD A 27	AGC SIG 178 SHLD RET	
	A 156B	56E 44	SHLD A 156	AGC SIG 178 SHLD RET	
	A 407B	56E 44	SHLD A 407	AGC SIG 178 SHLD RET	
	A 433B	56E 44	SHLD A 433	AGC SIG 178 SHLD RET	
	A 434B	56E 44	SHLD A 434	AGC SIG 178 SHLD RET	
	A 437B	56E 44	SHLD A 437	AGC SIG 178 SHLD RET	
	A 449B	56E 44	SHLD A 449	AGC SIG 178 SHLD RET	
	A 566	56E 44	56E 57	AGC SIG 178 SHLD RET	
*	A 440A	56E 44	SHLD A 440	AGC SIG 178 SHLD RET	
	AA568	56E 45	56E 46	AGC SIG 180 SHLD RET	
*	AA473	56E 45	56J21- 23	AGC SIG 180 SHLD RET	180
*	AA494A	56E 45	SHLD AA494	AGC SIG 180 SHLD RET	
*	AA495A	56E 45	SHLD AA495	AGC SIG 180 SHLD RET	
*	AA498A	56E 45	SHLD AA498	AGC SIG 180 SHLD RET	
*	AA499A	56E 45	SHLD AA499	AGC SIG 180 SHLD RET	
*	AA467A	56E 46	SHLD AA467	AGC SIG 180 SHLD RET	
*	AA468A	56E 46	SHLD AA468	AGC SIG 180 SHLD RET	
*	AA469A	56E 46	SHLD AA469	AGC SIG 180 SHLD RET	
*	AA470A	56E 46	SHLD AA470	AGC SIG 180 SHLD RET	
*	AA471A	56E 46	SHLD AA471	AGC SIG 180 SHLD RET	
*	AA472A	56E 46	SHLD AA472	AGC SIG 180 SHLD RET	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 572R	56J01- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 578W	56J01- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 578R	56J01- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 40W	56J01- 6	56TB3-F13	COS AIG 1X RET P1
A 41W	56J01- 7	56TB3-D14	SIN AIG 1X P2
A 573L	56J01- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 573W	56J01- 12	56E 5	ZEROING RSVR 800 CPS
A 572W	56J01- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 50	56J01- 15	56E 8	+28 VDC CDU NOT LOCK
A 48	56J01- 16	56E 6	+28 VDC IMU
A 40R	56J01- 20	56TB3-F14	COS AIG 1X P3
A 41R	56J01- 21	56TB3-D13	SIN AIG 1X RET P4
A 573R	56J01- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 53R	56J01- 28	56E 9	400 CPS VAR ILLUM PWR
A 53W	56J01- 29	56E 10	400 CPS 6 V LO
A 56	56J01- 30	56TB2-N 5	+28 VDC IMU FOR IG MDA
A 52L	56J01- 31	56TB2-L 5	IG CDU MDA OUTPUT
A 52W	56J01- 32	56TB2-L 6	IG CDU MDA OUTPUT
A 55	56J01- 34	56TB2-W 1	IG CDU 1X RSVR LOAD S1
A 39R	56J01- 35	56TB2-H 2	IG CDU 1X ERROR SIG S2
A 54	56J01- 41	56E 12	STRUCTURE GND
A 52R	56J01- 43	56TB2-K 4	0 VDC IMU
A 39W	56J01- 45	56TB2-G 2	IG CDU ERROR SIG RET
A 46R	56J01- 50	56E 4	25.6 KC HI IMU
A 38W	56J01- 57	56TB2-G 3	IG CDU ERROR SIG RET S1
A 46W	56J01- 60	56E 3	25.6 KC LO IMU
A 38R	56J01- 67	56TB2-H 3	IG CDU 1/2X ERROR SIG S3
A 43W	56J01- 86	56TB2-W 7	COS AIG 16X TO CDU
A 44W	56J01- 87	56TB2-C 8	SIN AIG 16X TO CDU
A 42W	56J01- 90	56TB2-G 1	IG CDU ERROR SIG RET
A 51W	56J01- 92	56TB2-T 7	IG CDU MDA INPUT RET
A 45R	56J01- 94	56TB2-A 5	IG CDU ENCODER COM
A 43R	56J01-100	56TB2-W 6	COS AIG 16X S3
A 44R	56J01-101	56TB2-B 8	SIN AIG 16X S4
A 42R	56J01-104	56TB2-H 1	IG CDU 16X ERROR SIG
A 51L	56J01-105	56TB2-T 6	IG CDU MDA SLEW SIG
A 51R	56J01-106	56TB2-U 6	IG CDU MDA TACH SIG
A 45W	56J01-107	56TB2-B 5	IG CDU ENCODER PHASE 1
A 45L	56J01-108	56TB2-C 5	IG CDU ENCODER PHASE 2

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA336W	56J18-F6	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
	AA336R	56J18-F7	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
	AA326R	56J18-F8	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
	AA326L	56J18-F9	56TB3-M11	RSVR DRIVE AMP INPUT LO	
	AA332W	56J18-G1	56TB3-K10	SHAFT CDU 1/2X SIN HI S1	
	AA345W	56J18-G2	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
	AA344W	56J18-G3	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
	AA302K	56J18-G5	56J19-H6	COSECANT AMP FEEDBACK SIG HI	
	AA302W	56J18-G6	56J19-G6	COSECANT AMP OUTPUT HI	
	AA332R	56J18-H1	56TB3-K11	SHAFT CDU 1/2X SIN LO S3	
	AA345R	56J18-H2	56TB3-F 8	SHAFT CDU DAC LO	
	AA346	56J18-H2	56E 52	SHAFT CDU DAC LO	
	AA347	56J18-H2	56E 53	SHAFT CDU DAC LO	
	AA344R	56J18-H3	56TB3-F 7	TRUNNION CDU DAC LO	
	AA348	56J18-H3	56E 50	TRUNNION CDU DAC LO	
	AA349	56J18-H3	56E 51	TRUNNION CDU DAC LO	
	AA302L	56J18-H5	56J19-H5	SHAFT CDU MDA COSECANT SIG	
	AA302R	56J18-H6	56J19-G5	COSECANT AMP FEEDBACK SIG LO	
*	AA242L	56J18-K1	56J17-K4	SHAFT CDU ENCODER - DELTA THETA	
*	AA495L	56J18-K1	56J21-123	SHAFT CDU ENCODER - DELTA THETA	111A
*	AA492L	56J18-K2	56J21-163	SHAFT CDU + DELTA THETA COMMAND	116A
*	AA496L	56J18-K3	56J21-235	TRUNNION CDU + DELTA THETA COMMAND	114A
*	AA243L	56J18-K4	56J17-K6	TRUNNION CDU ENCODER - DELTA THETA	
*	AA499L	56J18-K4	56J21-190	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA328W	56J18-K6	56TB3-T12	SHAFT CDU 1X P1 (S1)	
*	AA242R	56J18-L1	56J17-G4	SHAFT CDU ENCODER + DELTA THETA	
*	AA494L	56J18-L1	56J21-156	SHAFT CDU ENCODER + DELTA THETA	110A
*	AA493R	56J18-L2	56J21-130	SHAFT CDU - DELTA THETA COMMAND	117A
*	AA497R	56J18-L3	56J21-197	TRUNNION CDU - DELTA THETA COMMAND	115A
*	AA243R	56J18-L4	56J17-G6	TRUNNION CDU ENCODER + DELTA THETA	
*	AA498L	56J18-L4	56J21-230	TRUNNION CDU ENCODER + DELTA THETA	108A
	AA328R	56J18-L5	56TB3-S12	SHAFT CDU 1X P2 (S2)	
	AA328L	56J18-L6	56TB3-R12	SHAFT CDU 1X P3 (S3)	
	AA340W	56J18-M1	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)	
	AA350	56J18-M1	56J18-P3	0 VDC OPTICS	
	AA351	56J18-M1	56J18-M2	0 VDC OPTICS	
	AA352	56J18-M2	56J18-M3	0 VDC OPTICS	
*	AA351	56J18-M2	56J18-M1	0 VDC OPTICS	
	AA341W	56J18-M3	56TB3-C 8	TRUNNION CDU MDA LO (TEST)	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA353	56J18-M3	56J18-M4	0 VDC OPTICS
*	AA352	56J18-M3	56J18-M2	0 VDC OPTICS
	AA342W	56J18-M4	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
	AA354	56J18-M4	56J18-M5	0 VDC OPTICS
*	AA353	56J18-M4	56J18-M3	0 VDC OPTICS
	AA355	56J18-M5	56J18-M6	0 VDC OPTICS
*	AA354	56J18-M5	56J18-M4	0 VDC OPTICS
	AA343W	56J18-M6	56TB3-D10	SHAFT CDU MDA (TEST) LO
*	AA355	56J18-M6	56J18-M5	0 VDC OPTICS
	AA340R	56J18-N1	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
	AA341R	56J18-N3	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
	AA342R	56J18-N4	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
	AA343R	56J18-N6	56TB3-D 9	SHAFT CDU MDA (TEST) HI
	AA319	56J18-P1	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
	AA322	56J18-P2	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
	AA303	56J18-P3	56J19-R4	0 VDC OPTICS
*	AA350	56J18-P3	56J18-M1	0 VDC OPTICS
	AA320	56J18-R1	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
	AA321	56J18-R2	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
	AA333	56J18-R3	56TB3-K20	0 VDC OPTICS
	AA337	56J18-R4	56TB3-B11	ZERO OPTICS RELAY CONTROL
	AA616	56J18-R4	56J19-M4	ZERO OPTICS RELAY CONTROL
	AA306	56J18-R5	56J19-P3	STRUCTURE GND
*	AA241	56J18-R5	56J17-L6	STRUCTURE GND
	AA298	56J18-S1	56J19-T1	+28 VDC OPTICS
*	AA240	56J18-S1	56J17-T6	+28 VDC OPTICS
	AA323	56J18-S3	56J18-S4	0 VDC OPTICS
	AA325	56J18-S3	56TB3-K20	0 VDC OPTICS
*	AA323	56J18-S4	56J18-S3	0 VDC OPTICS
	AA305	56J18-S5	56J19-P5	0 VDC OPTICS
	AA339	56J18-S5	56J18-T5	0 VDC OPTICS
	AA304R	56J18-S6	56J19-N6	800 CPS 28 V 1 PCT LO OPTICS
*	AA233R	56J18-S6	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
	AA324	56J18-T3	56J18-T4	0 VDC OPTICS
	AA327	56J18-T3	56TB3-K20	0 VDC OPTICS
*	AA324	56J18-T4	56J18-T3	0 VDC OPTICS.
*	AA339	56J18-T5	56J18-S5	0 VDC OPTICS
	AA304W	56J18-T6	56J19-P6	800 CPS 28 V 1 PCT HI OPTICS
*	AA233W	56J18-T6	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
AA308L	56J18-A1	56TB3-S 8	SXT AT 64X RSVR COS HI
AA309L	56J18-A2	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
AA309R	56J18-A3	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
AA313W	56J18-A4	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
AA313R	56J18-A5	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
AA317W	56J18-A6	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
AA316R	56J18-A7	56TB3-L 8	SHAFT CDU TACH LO
AA316L	56J18-A8	56TB3-L 7	SHAFT CDU TACH HI
AA315L	56J18-A9	56TB3-M 8	TRUNNION CDU TACH HI
AA308R	56J18-B1	56TB3-S 7	SXT AT 64X RSVR COS LO
AA307R	56J18-B2	56TB3-T 7	SXT AT 64X RSVR SIN HI
AA310L	56J18-B3	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
AA310R	56J18-B4	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
AA314W	56J18-B5	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
AA317R	56J18-B6	56TB3-L11	TRUNNION CDU 1/2X RSVR P3
AA300W	56J18-B8	56J19-C1	TRUNNION CDU 16X ERROR SIG HI
AA315R	56J18-B9	56TB3-M 7	TRUNNION CDU TACH LO
AA312R	56J18-C1	56TB3-R11	SXT AS 16X RSVR COS HI
AA307L	56J18-C2	56TB3-T 8	SXT AT 64X RSVR SIN LO
AA314R	56J18-C5	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
AA334W	56J18-C6	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
AA335W	56J18-C7	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI
AA300R	56J18-C8	56J19-B2	TRUNNION CDU 16X ERROR SIG LO
AA301W	56J18-C9	56J19-A4	SHAFT CDU 16X ERROR SIG HI
AA312W	56J18-D1	56TB3-R10	SXT AS 16X RSVR COS LO
AA311W	56J18-D2	56TB3-R 8	SXT AS 16X RSVR SIN HI
AA311R	56J18-D3	56TB3-R 7	SXT AS 16X RSVR SIN LO
AA338R	56J18-D4	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
AA338W	56J18-D5	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
AA334R	56J18-D6	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
AA335R	56J18-D7	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
AA326W	56J18-D8	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
AA301R	56J18-D9	56J19-B3	SHAFT CDU 16X ERROR SIG LO
AA299W	56J18-F1	56J19-D4	TRUNNION CDU 1/4X SIN HI
AA330W	56J18-F1	56TB3-G10	TRUNNION CDU 1/4X SIN HI
AA299R	56J18-F2	56J19-F4	TRUNNION CDU 1/4X SIN LO
AA330R	56J18-F2	56TB3-F10	TRUNNION CDU 1/4X SIN LO
AA318W	56J18-F3	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI
AA318R	56J18-F4	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA370W	56J19-A1	56TB3-T16	SXT TRUNNION TACH HI
	AA371R	56J19-A2	56TB3-S16	SXT SHAFT TACH LO
	AA371W	56J19-A3	56TB3-S17	SXT SHAFT TACH HI
*	AA301W	56J19-A4	56J18-C9	SHAFT CDU 16X ERROR SIG HI
	AA375W	56J19-A5	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
	AA378	56J19-A7	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
	AA372R	56J19-A8	56TB3-R16	SCT TRUNNION TACH LO
	AA372W	56J19-A9	56TB3-R17	SCT TRUNNION TACH HI
	AA370R	56J19-B1	56TB3-T17	SXT TRUNNION TACH LO
	AA329R	56J19-B2	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
*	AA300R	56J19-B2	56J18-C8	TRUNNION CDU 16X ERROR SIG LO
	AA331R	56J19-B3	56TB3-H11	SHAFT CDU 16X ERROR SIG LO
*	AA301R	56J19-B3	56J18-D9	SHAFT CDU 16X ERROR SIG LO
	AA331L	56J19-B4	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
	AA375R	56J19-B5	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
	AA377W	56J19-B7	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
	AA377R	56J19-B8	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
	AA373W	56J19-B9	56TB3-N16	SCT SHAFT TACH HI
*	AA300W	56J19-C1	56J18-B8	TRUNNION CDU 16X ERROR SIG HI
	AA329L	56J19-C2	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
	AA384	56J19-C3	56TB3-N18	TRUNNION CDU 16X LOAD
	AA385	56J19-C4	56TB3-M18	SHAFT CDU 16X LOAD
	AA376	56J19-C5	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
	AA380	56J19-C7	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
	AA379R	56J19-C8	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
	AA373R	56J19-C9	56TB3-N17	SCT SHAFT TACH LO
	AA374W	56J19-D1	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
	AA374R	56J19-D2	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
*	AA299W	56J19-D4	56J18-F1	TRUNNION CDU 1/4X SIN HI
	AA396W	56J19-D5	56TB3-N14	SHAFT CDU 1/2X COS HI S2
	AA396R	56J19-D6	56TB3-N13	SHAFT CDU 1/2X COS LO S4
	AA379W	56J19-D8	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
*	AA299R	56J19-F4	56J18-F2	TRUNNION CDU 1/4X SIN LO
	AA381W	56J19-F5	56TB3-F16	TRUNNION CDU 1/4X COS HI
	AA381R	56J19-F6	56TB3-G16	TRUNNION CDU 1/4X COS LO
	AA386R	56J19-F8	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	AA386W	56J19-F9	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
	AA382R	56J19-G1	56TB3-T13	SCT TRUNNION 1X COS LO
	AA383R	56J19-G2	56TB3-S14	SCT TRUNNION 1X SIN HI

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 84R	56J03- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 580W	56J03- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 580R	56J03- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 87W	56J03- 6	56TB2-N 7	COS AOG 1X S1
A 88W	56J03- 7	56TB2-U 8	SIN AOG 1X S4
A 576L	56J03- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 576W	56J03- 12	56E 5	ZEROING RSVR 800 CPS
A 84W	56J03- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 582	56J03- 15	56E 8	+28 VDC CDU NOT LOCK
A 581	56J03- 16	56E 6	+28 VDC IMU
A 87R	56J03- 20	56TB2-R 8	COS AOG 1X TO CDU
A 88R	56J03- 21	56TB2-T 8	SIN AOG 1X TO CDU
A 576R	56J03- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 98R	56J03- 28	56E 9	400 CPS VAR ILLUM PWR
A 98W	56J03- 29	56E 10	400 CPS 6 V LO
A 102	56J03- 30	56TB2-K 8	+28 VDC IMU FOR OG MDA
A 97L	56J03- 31	56TB2-K 6	OG CDU MDA OUTPUT
A 97W	56J03- 32	56TB2-K 5	OG CDU MDA OUTPUT
A 100	56J03- 34	56TB2-S 1	OG CDU 1X RSVR LOAD
A 86R	56J03- 35	56TB2-N 2	OG CDU 1X ERROR SIG
A 99	56J03- 41	56E 12	STRUCTURE GND
A 97R	56J03- 43	56TB2-K 4	0 VDC IMU
A 86W	56J03- 45	56TB2-R 2	OG CDU ERROR SIG RET
A 93R	56J03- 50	56E 4	25.6 KC HI IMU
A 85W	56J03- 57	56TB2-R 1	OG CDU ERROR SIG RET
A 93W	56J03- 60	56E 3	25.6 KC LO IMU
A 85R	56J03- 67	56TB2-N 1	OG CDU 1/2X ERROR SIG
A 90W	56J03- 86	56TB2-X 4	COS AOG 16X TO CDU
A 91W	56J03- 87	56TB2-W 2	SIN AOG 16X S4
A 101	56J03- 89	56TB2-T 1	OG CDU 16X RSVR LOAD
A 89W	56J03- 90	56TB2-R 3	OG CDU ERROR SIG RET
A 96W	56J03- 92	56TB2-R 7	OG CDU MDA INPUT RET
A 92R	56J03- 94	56TB2-A 4	OG CDU ENCODER COM
A 90R	56J03-100	56TB2-W 4	COS AOG 16X S3
A 91R	56J03-101	56TB2-X 2	SIN AOG 16X TO CDU
A 89R	56J03-104	56TB2-N 3	OG CDU 16X ERROR SIG
A 96L	56J03-105	56TB2-R 6	OG CDU MDA SLEW SIG
A 96R	56J03-106	56TB2-N 6	OG CDU MDA TACH SIG
A 92W	56J03-107	56TB2-B 4	OG CDU ENCODER PHASE 1

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 92L	56J03-108	56TB2-C 4	OG CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 574R	56J02- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 579W	56J02- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 579R	56J02- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 64W	56J02- 6	56TB3-N21	COS AMG 1X S1
A 65W	56J02- 7	56TB3-C.+	SIN AMG 1X
A 575L	56J02- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 575W	56J02- 12	56E 5	ZEROING RSVR 800 CPS
A 574W	56J02- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 74	56J02- 15	56E 8	+28 VDC CDU NOT LOCK
A 72	56J02- 16	56E 6	+28 VDC IMU
A 64R	56J02- 20	56TB3-N20	COS AMG 1X S3
A 65R	56J02- 21	56TB3-C13	SIN AMG 1X RET
A 575R	56J02- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 77R	56J02- 28	56E 9	400 CPS VAR ILLUM PWR
A 77W	56J02- 29	56E 10	400 CPS 6 V LO
A 80	56J02- 30	56TB2-R 5	+28 VDC IMU FOR MG MDA
A 76L	56J02- 31	56TB2-L 3	MG CDU MDA OUTPUT
A 76W	56J02- 32	56TB2-K 3	MG CDU MDA OUTPUT
A 79	56J02- 34	56TB2-X 1	MG CDU 1X RSVR LOAD
A 63R	56J02- 35	56TB2-H 7	MG CDU 1X ERROR SIG
A 78	56J02- 41	56E 12	STRUCTURE GND
A 76R	56J02- 43	56TB2-K 4	0 VDC IMU
A 63W	56J02- 45	56TB2-G 7	MG CDU ERROR SIG RET
A 70R	56J02- 50	56E 4	25.6 KC HI IMU
A 62W	56J02- 57	56TB2-G 6	MG CDU ERROR SIG RET
A 70W	56J02- 60	56E 3	25.6 KC LO IMU
A 62R	56J02- 67	56TB2-H 6	MG CDU 1/2X ERROR SIG
A 67W	56J02- 86	56TB2-U 4	COS AMG 16X TO CDU
A 68W	56J02- 87	56TB2-C 7	SIN AMG 16X TO CDU
A 66W	56J02- 90	56TB2-G 8	MG CDU ERROR SIG RET
A 75W	56J02- 92	56TB2-X 6	MG CDU MDA INPUT RET
A 69R	56J02- 94	56TB2-C 6	MG CDU ENCODER COM
A 67R	56J02-100	56TB2-U 5	COS AMG 16X S3
A 68R	56J02-101	56TB2-B 7	SIN AMG 16X S4
A 66R	56J02-104	56TB2-H 8	MG CDU 16X ERROR SIG
A 75L	56J02-105	56TB2-X 5	MG CDU MDA SLEW SIG
A 75R	56J02-106	56TB2-W 5	MG CDU MDA TACH SIG
A 69W	56J02-107	56TB2-B 6	MG CDU ENCODER PHASE 1
A 69L	56J02-108	56TB2-A 6	MG CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 104R	56J04- 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 599W	56J04- 2	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 599R	56J04- 3	56TB2-V 1	SHAFT CDU MOTOR EXC
A 110R	56J04- 6	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
A 111R	56J04- 7	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
A 584W	56J04- 11	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 584L	56J04- 12	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 104W	56J04- 14	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 110W	56J04- 20	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
A 111W	56J04- 21	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
A 584R	56J04- 25	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 123R	56J04- 28	56E 9	400 CPS VAR ILLUM PWR
A 123W	56J04- 29	56E 10	400 CPS 6 V LO
A 122L	56J04- 31	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
A 122W	56J04- 32	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
A 109L	56J04- 34	56TB3-T12	SHAFT CDU 1X P1 (S1)
A 109W	56J04- 35	56TB3-S12	SHAFT CDU 1X P2 (S2)
A 124	56J04- 41	56E 12	STRUCTURE GND
A 122R	56J04- 43	56TB3-M20	+28 VDC OPTICS
A 109R	56J04- 45	56TB3-R12	SHAFT CDU 1X P3 (S3)
A 117R	56J04- 50	56E 17	25.6 KC HI OPTICS
A 107R	56J04- 57	56TB3-K11	SHAFT CDU 1/2X SIN LO S3
A 117W	56J04- 60	56E 16	25.6 KC LO OPTICS
A 108R	56J04- 66	56TB3-N13	SHAFT CDU 1/2X COS LO S4
A 107W	56J04- 67	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 114W	56J04- 86	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
A 115W	56J04- 87	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
A 113	56J04- 89	56TB3-M18	SHAFT CDU 16X LOAD
A 112W	56J04- 90	56TB3-H11	SHAFT CDU 16X ERROR SIG LO
A 121W	56J04- 92	56TB3-L 8	SHAFT CDU TACH LO
A 116R	56J04- 94	56TB3-S 5	SHAFT CDU ENCODER COM
A 114R	56J04-100	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
A 115R	56J04-101	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
A 112R	56J04-104	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
A 121R	56J04-106	56TB3-L 7	SHAFT CDU TACH HI
A 116W	56J04-107	56TB3-S 6	SHAFT CDU ENCODER PHASE 1
A 116L	56J04-108	56TB3-S 4	SHAFT CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 150R	56J06- 1	56P01- 1	PITCH ATTITUDE ERROR METER +
A 150W	56J06- 2	56P01- 2	PITCH ATTITUDE ERROR METER -
A 161	56J06- 6	56P01- 6	ENTRY RELAY CONTROL RESET
A 160	56J06- 9	56P01- 9	MODE SWITCH INTERLOCK
A 154	56J06- 12	56TB1-K 7	MODE RELAY COMMON TO AGC
A 151R	56J06- 14	56P01- 14	YAW ATTITUDE ERROR METER +
A 151W	56J06- 15	56P01- 15	YAW ATTITUDE ERROR METER -
A 157	56J06- 18	56P01- 18	MODE RELAY COMMON TO D AND C ELECT
A 175	56J06- 22	56P01- 22	ATTITUDE CONTROL MODE LIGHT
A 165	56J06- 23	56P01- 23	FINE ALIGN RELAY CONTROL
A 166	56J06- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
A 167	56J06- 25	56P01- 25	ENTRY RELAY CONTROL
A 152W	56J06- 28	56P01- 28	ROLL ATTITUDE ERROR METER -
A 152R	56J06- 29	56P01- 29	ROLL ATTITUDE ERROR METER +
A 162	56J06- 34	56P01- 34	ZERO ENCODER RELAY CONTROL
A 163	56J06- 35	56P01- 35	COARSE ALIGN RELAY CONTROL
A 164	56J06- 36	56P01- 36	CDU MANUAL RELAY CONTROL
A 159	56J06- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL
A 177	56J06- 46	56P01- 46	ATTITUDE CONTROL MODE INTERLOCK
A 170	56J06- 56	56P01- 56	MANUAL ALIGN
A 155W	56J06- 68	56TB2-D 2	AGC COM
A 156W	56J06- 69	56J21-228	TRANSFER SWITCH INDICATION TO AGC 164A
A 169	56J06- 78	56TB2-L 4	0 VDC IMU
A 176	56J06- 79	56P01- 79	ENTRY MODE LIGHT
A 158	56J06- 81	56TB1-F 8	ATTIT CONT MODE COMMAND FROM AGC
A 178	56J06- 91	56TB3-B21	STRUCTURE GND
A 172	56J06- 92	56P01- 92	COARSE ALIGN MODE LIGHT
A 168	56J06- 93	56P01- 93	MODE RELAY COMMON
A 174	56J06- 94	56P01- 94	FINE ALIGN MODE LIGHT
A 171	56J06-104	56P01-104	ZERO ENCODER MODE LIGHT
A 173	56J06-105	56P01-105	CDU MANUAL MODE LIGHT
A 153W	56J06-107	56TB1-S 2	400 CPS 6 V LO
A 153R	56J06-108	56TB1-S 1	400 CPS VAR ILLUM PWR

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 208	56J08- 17	56E 19	0 VDC IMU
A 202	56J08- 18	56TB2-S 8	GIMBAL LOCK LIGHT HI
A 603K	56J08- 19	56TB1-R 2	400 CPS 6 V LO
A 205	56J08- 28	56E 19	0 VDC IMU
A 215	56J08- 29	56TB3-B21	STRUCTURE GND
A 204	56J08- 30	56E 19	0 VDC IMU
A 194	56J08- 31	56E 19	0 VDC IMU
A 207	56J08- 32	56J22- 71	MASTER WARNING LIGHT LO
A 210R	56J08- 35	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
A 603W	56J08- 36	56TB1-R 2	400 CPS 6 V LO
A 203	56J08- 41	56TB3-B 4	ZERO ENCODER LIGHT HI
A 193	56J08- 42	56TB1-U 2	IMU DELAY LIGHT HI
A 206	56J08- 43	56J22- 72	MASTER WARNING LIGHT HI
A 210W	56J08- 45	56TB3-L 6	400 CPS 0.5 V PI PHASE
A 603L	56J08- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY
A 565	56J08- 50	56TB1-F 1	SPARE FAIL LIGHT HI
A 187	56J08- 51	56TB1-H 8	ERROR DETECT LIGHT HI
A 212	56J08- 52	56E 19	0 VDC IMU
A 196	56J08- 53	56J22- 38	MASTER ALARM LIGHT HI
A 197	56J08- 54	56J22- 37	MASTER ALARM LIGHT LO
A 603R	56J08- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY
A 188	56J08- 60	56TB3-M 6	IMU FAIL LIGHT HI
A 189	56J08- 61	56E 20	0 VDC IMU
A 192	56J08- 62	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 213	56J08- 63	56E 20	0 VDC IMU
A 209R	56J08- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED
A 181	56J08- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 400 CPS
A 179	56J08- 67	56TB1-G 1	+28 VDC MDV
A 182R	56J08- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC
A 195	56J08- 70	56E 19	0 VDC IMU
A 198	56J08- 71	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 200	56J08- 72	56TB3-B 3	CDU FAIL LIGHT HI
A 190	56J08- 73	56TB3-B 5	ACCEL FAIL LIGHT HI
A 209W	56J08- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED
A 184	56J08- 78	56TB2-S 7	STEP-UP-C
A 186	56J08- 79	56TB2-S 5	STEP-DOWN-C
A 182W	56J08- 81	56TB3-B12	400 CPS 26 V SLEW
A 214	56J08- 82	56TB2-D 6	0 VDC IMU
A 201	56J08- 83	56E 20	0 VDC IMU

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 586R	56J05- 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 600W	56J05- 2	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 600R	56J05- 3	56TB2-U 1	TRUNNION CDU MOTOR EXC
A 585R	56J05- 4	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130R	56J05- 8	56TB3-G10	TRUNNION CDU 1/4X SIN HI
A 131R	56J05- 9	56TB3-F16	TRUNNION CDU 1/4X COS HI
A 131W	56J05- 10	56TB3-G16	TRUNNION CDU 1/4X COS LO
A 133	56J05- 11	56E 18	TRUNNION CDU 1/2X RSVR P3
A 132R	56J05- 12	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
A 586W	56J05- 14	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 585L	56J05- 17	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 585W	56J05- 18	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130W	56J05- 22	56TB3-F10	TRUNNION CDU 1/4X SIN LO
A 149	56J05- 25	56E 18	TRUNNION CDU 1/2X RSVR P3
A 146R	56J05- 28	56E 9	400 CPS VAR ILLUM PWR
A 146W	56J05- 29	56E 10	400 CPS 6 V LO
A 145L	56J05- 31	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
A 145W	56J05- 32	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
A 147	56J05- 41	56E 12	STRUCTURE GND
A 145R	56J05- 43	56TB3-M20	+28 VDC OPTICS
A 583R	56J05- 50	56E 17	25.6 KC HI OPTICS
A 148R	56J05- 56	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI
A 583W	56J05- 60	56E 16	25.6 KC LO OPTICS
A 148W	56J05- 66	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO
A 134W	56J05- 67	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
A 134R	56J05- 68	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
A 137W	56J05- 86	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
A 138W	56J05- 87	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
A 136	56J05- 89	56TB3-N18	TRUNNION CDU 16X LOAD
A 135W	56J05- 90	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
A 144W	56J05- 92	56TB3-M 7	TRUNNION CDU TACH LO
A 139R	56J05- 94	56TB3-T 5	TRUNNION CDU ENCODER COM
A 137R	56J05-100	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
A 138R	56J05-101	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
A 135R	56J05-104	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
A 144R	56J05-106	56TB3-M 8	TRUNNION CDU TACH HI
A 139W	56J05-107	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1
A 139L	56J05-108	56TB3-T 6	TRUNNION CDU ENCODER PHASE 2

MANNED SPACECRAFT CENTER
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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 191	56J08- 84	56E 20	0 VDC IMU
A 211	56J08- 92	56TB1-S 5	0 VDC IMU
A 185	56J08- 93	56TB2-S 4	STEP-DOWN-R
A 199	56J08- 95	56TB3-B14	400 CPS 26 V LO
A 183	56J08-106	56TB2-S 6	STEP-UP-R

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REV LTR F
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INCHES
0 1 2
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA397	56J19-R4	56J19-K1	0 VDC OPTICS
	AA362	56J19-R5	56J19-S4	0 VDC OPTICS
	AA363	56J19-R6	56J19-T4	0 VDC OPTICS
	AA358R	56J19-S2	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING
	AA358W	56J19-S3	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING
	AA364	56J19-S4	56TB3-K22	0 VDC OPTICS
*	AA362	56J19-S4	56J19-R5	0 VDC OPTICS
	AA366	56J19-S5	56J19-S6	0 VDC OPTICS
	AA369	56J19-S5	56TB3-K22	0 VDC OPTICS
*	AA366	56J19-S6	56J19-S5	0 VDC OPTICS
	AA357	56J19-T1	56J20-M6	+28 VDC OPTICS
*	AA298	56J19-T1	56J18-S1	+28 VDC OPTICS
	AA360R	56J19-T2	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
	AA360W	56J19-T3	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
	AA365	56J19-T4	56TB3-L22	0 VDC OPTICS
*	AA363	56J19-T4	56J19-R6	0 VDC OPTICS
	AA368	56J19-T5	56J19-T6	0 VDC OPTICS
	AA367	56J19-T6	56TB3-L22	0 VDC OPTICS
*	AA368	56J19-T6	56J19-T5	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA416	56J20-A1	56TB3-G19	AGC TEMP MONITOR NO 1
	AA417	56J20-A2	56TB3-F19	AGC TEMP MONITOR NO 2
	AA419W	56J20-A3	56TB3-N20	COS AMG 1X S3
	AA414	56J20-A4	56TB3-K19	IMU PRESSURE MONITOR HI
	AA464R	56J20-A6	56TB3-L13	PRESSURE SENSOR +28 VDC HI
	AA418	56J20-B1	56TB3-D19	AGC TEMP MONITOR NO 3
	AA419R	56J20-B3	56TB3-N21	COS AMG 1X S1
	AA415	56J20-B4	56TB3-H19	IMU PRESSURE MONITOR LO
	AA427R	56J20-B5	56TB3-T19	+20 VDC CONDITIONING
	AA464W	56J20-B6	56TB3-K13	PRESSURE SENSOR +28 VDC LO
	AA427W	56J20-C5	56TB3-S19	0 VDC CONDITIONING
	AA425	56J20-C6	56TB3-L19	+13 VDC AGC
	AA463R	56J20-D4	56TB3-S20	+2.5 VDC CONDITIONING LO
	AA463W	56J20-D5	56TB3-R19	+2.5 VDC CONDITIONING HI
	AA426	56J20-D6	56TB3-M19	+3 VDC AGC
	AA409W	56J20-F5	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
	AA410W	56J20-F5	56TB3-B18	800 CPS 28 V 1 PCT HI IMU
	AA409R	56J20-F6	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
	AA410R	56J20-F6	56TB3-B19	800 CPS 28 V 1 PCT LO IMU
	AA458	56J20-G1	56J20-H1	0 VDC IMU
	AA460	56J20-G1	56TB2-M 7	0 VDC IMU
	AA465W	56J20-G3	56TB3-K14	400 CPS 115 V LO
	AA462	56J20-G4	56TB3-F22	STRUCTURE GND
*	AA356	56J20-G4	56J19-P3	STRUCTURE GND
	AA411	56J20-G5	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA 52W	56J20-G5	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA413	56J20-G6	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	AA 52R	56J20-G6	56J12-K4	800 CPS 28 V 5 PCT L-90 DEG LO IMU
	AA459	56J20-H1	56J20-H2	0 VDC IMU
*	AA458	56J20-H1	56J20-G1	0 VDC IMU
	AA461	56J20-H2	56TB2-M 1	0 VDC IMU
*	AA459	56J20-H2	56J20-H1	0 VDC IMU
	AA465R	56J20-H3	56TB3-L14	400 CPS 115 V HI
	AA422	56J20-H4	56TB3-R20	+28 VDC AGC
	AA423	56J20-H4	56J21-234	+28 VDC AGC
*	AA178	56J20-H4	56J15-H5	+28 VDC AGC
	AA412W	56J20-H5	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA411	56J20-H5	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA412R	56J20-H6	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA383W	56J19-G3	56TB3-S13	SCT TRUNNION 1X SIN LO
*	AA302R	56J19-G5	56J18-H6	COSECANT AMP FEEDBACK SIG LO
*	AA302W	56J19-G6	56J18-G6	COSECANT AMP OUTPUT HI
	AA382W	56J19-H1	56TB3-T14	SCT TRUNNION 1X COS HI
*	AA302L	56J19-H5	56J18-H5	SHAFT CDU MDA COSECANT SIG
*	AA302K	56J19-H6	56J18-G5	COSECANT AMP FEEDBACK SIG HI
	AA391W	56J19-K1	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
	AA397	56J19-K1	56J19-R4	0 VDC OPTICS
	AA398	56J19-K1	56J19-K2	0 VDC OPTICS
	AA399	56J19-K2	56J19-K3	0 VDC OPTICS
*	AA398	56J19-K2	56J19-K1	0 VDC OPTICS
	AA392W	56J19-K3	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
	AA400	56J19-K3	56J19-K4	0 VDC OPTICS
*	AA399	56J19-K3	56J19-K2	0 VDC OPTICS
	AA401	56J19-K4	56J19-K5	0 VDC OPTICS
*	AA400	56J19-K4	56J19-K3	0 VDC OPTICS
	AA402	56J19-K5	56J19-K6	0 VDC OPTICS
*	AA401	56J19-K5	56J19-K4	0 VDC OPTICS
*	AA402	56J19-K6	56J19-K5	0 VDC OPTICS
	AA391R	56J19-L1	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
	AA392R	56J19-L3	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
*	AA616	56J19-M4	56J18-R4	ZERO OPTICS RELAY CONTROL
	AA388	56J19-M5	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA387	56J19-M6	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA389	56J19-N5	56TB3-L18	COSECANT RELAY CONTROL
*	AA304R	56J19-N6	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA359R	56J19-P1	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING
	AA361R	56J19-P2	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
	AA356	56J19-P3	56J20-G4	STRUCTURE GND
*	AA306	56J19-P3	56J18-R5	STRUCTURE GND
	AA394	56J19-P4	56J19-P5	0 VDC OPTICS
	AA393	56J19-P5	56TB3-K21	0 VDC OPTICS
*	AA305	56J19-P5	56J18-S5	0 VDC OPTICS
*	AA394	56J19-P5	56J19-P4	0 VDC OPTICS
*	AA304W	56J19-P6	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA359W	56J19-R1	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING
	AA361W	56J19-R2	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
	AA390	56J19-R4	56TB3-K21	0 VDC OPTICS
*	AA303	56J19-R4	56J18-P3	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA413	56J20-H6	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
	AA454	56J20-K1	56TB3-T20	+28 VDC IMU
	AA455	56J20-K1	56TB3-T21	+28 VDC IMU
*	AA179	56J20-K1	56J15-S2	+28 VDC IMU
	AA456	56J20-K2	56TB3-S21	+28 VDC IMU
*	AA 4	56J20-K2	56J11-S5	+28 VDC IMU
*	AA193	56J20-K2	56J16-S2	+28 VDC IMU
*	AA191W	56J20-K3	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS
	AA424	56J20-K4	56TB3-N19	0 VDC AGC
	AA420	56J20-K5	56TB3-G21	+28 VDC AGC BUSS A
	AA421	56J20-K6	56TB3-G22	+28 VDC AGC BUSS B
	AA438	56J20-L1	56J20-M1	+28 VDC IMU
	AA439	56J20-L1	56J20-L2	+28 VDC IMU
*	AA 2	56J20-L1	56J11-S1	+28 VDC IMU
	AA440	56J20-L2	56J20-M2	+28 VDC IMU
*	AA 3	56J20-L2	56J11-S2	+28 VDC IMU
*	AA439	56J20-L2	56J20-L1	+28 VDC IMU
*	AA191R	56J20-L3	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
*	AA192W	56J20-L4	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA403	56J20-L5	56J21- 37	+28 VDC MDV
	AA404	56J20-L5	56TB3-M22	+28 VDC MDV
*	AA 53	56J20-L6	56J12-G4	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP
*	AA 54	56J20-M1	56J12-S1	+28 VDC IMU
*	AA236	56J20-M1	56J17-T4	+28 VDC IMU
*	AA438	56J20-M1	56J20-L1	+28 VDC IMU
*	AA 55	56J20-M2	56J12-S2	+28 VDC IMU
*	AA237	56J20-M2	56J17-T3	+28 VDC IMU
*	AA440	56J20-M2	56J20-L2	+28 VDC IMU
*	AA192R	56J20-M4	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA405	56J20-M5	56TB3-M21	+28 VDC MDV
	AA457	56J20-M6	56TB3-M20	+28 VDC OPTICS
*	AA357	56J20-M6	56J19-T1	+28 VDC OPTICS
	AA428	56J20-N1	56TB3-C20	+28 VDC IMU BUSS A
	AA429	56J20-N1	56J20-P1	+28 VDC IMU BUSS A
	AA433	56J20-N2	56TB3-D20	+28 VDC IMU BUSS B
	AA434	56J20-N2	56J20-P2	+28 VDC IMU BUSS B
	AA408	56J20-N3	56TB3-K22	0 VDC OPTICS
	AA407	56J20-N4	56TB3-L21	0 VDC OPTICS
*	AA 51	56J20-N5	56J12-S6	+28 VDC OPTICS

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INCHES
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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 606L	56J09- 53	56P10-107	400 CPS 6 V HI	
A 605R	56J09- 54	56TB1-R 1	400 CPS VAR ILLUM PWR	
A 604R	56J09- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY	
A 421R	56J09- 56	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
A 422W	56J09- 57	56TB3-F 8	SHAFT CDU DAC LO	
A 405	56J09- 58	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 404	56J09- 59	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 406	56J09- 60	56E 56	AGC COMMON	
A 606R	56J09- 61	56P10-106	400 CPS 6 V HI	
A 606W	56J09- 62	56P10- 93	400 CPS 6 V HI	
A 605K	56J09- 63	56TB1-M 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
A 605L	56J09- 64	56TB1-N 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
A 448R	56J09- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED	
A 408	56J09- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 400 CPS	
A 410	56J09- 67	56TB1-G 1	+28 VDC MDV	
A 409R	56J09- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC	
A 416W	56J09- 69	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS	
A 407W	56J09- 70	56J21- 16	SXT PWR ON INDICATION TO AGC	105A
A 445	56J09- 71	56TB3-M20	+28 VDC OPTICS	
A 394	56J09- 72	56TB3-B11	ZERO OPTICS RELAY CONTROL	
A 390	56J09- 73	56TB3-F 3	CONDITION LAMP TEST	
A 403	56J09- 74	56TB3-H 5	IMU TEMP ALARM AMP PIN 15	
A 444	56J09- 75	56TB3-K 5	IMU TEMP ALARM AMP PIN 14	
A 400	56J09- 76	56TB3-L 5	IMU TEMP CONT K2 PIN 6	
A 448W	56J09- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED	
A 414	56J09- 78	56TB2-S 7	STEP-UP-C	
A 412	56J09- 79	56TB2-S 5	STEP-DOWN-C	
A 416R	56J09- 80	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS	
A 409W	56J09- 81	56TB3-B12	400 CPS 26 V SLEW	
A 597L	56J09- 82	56TB2-U 2	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD	
A 436	56J09- 83	56TB3-L15	0 VDC OPTICS	
A 605W	56J09- 84	56TB1-K 1	MODE LAMP TEST PWR	
A 442	56J09- 85	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6	
A 398	56J09- 86	56TB3-L 1	IRIG TEMP GAIN SWITCH NC	
A 401L	56J09- 87	56TB3-H 1	IMU TEMP CONT AMP PIN 5	
A 401K	56J09- 88	56TB3-G 2	IMU TEMP CONT K2 PIN 5	
A 443	56J09- 89	56TB3-G 3	IRIG ZERO DEVIATION CHECK	
A 402	56J09- 90	56TB3-N 6	EMERG HTR CONT MODULE LO	
A 451	56J09- 91	56TB3-F22	STRUCTURE GND	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 438	56J09- 92	56TB3-K 1	IMU TEMP ALARM AMP PIN 5
A 411	56J09- 93	56TB2-S 4	STEP-DOWN-R
A 439	56J09- 94	56TB3-D 1	0 VDC IMU
A 447	56J09- 95	56P10- 48	400 CPS 26 V HI
A 597K	56J09- 96	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 395	56J09- 97	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 396	56J09- 98	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
A 428	56J09- 99	56TB3-L18	COSECANT RELAY CONTROL
A 401R	56J09-100	56TB3-G 1	IMU HTR CURRENT AMP PIN 5
A 401W	56J09-101	56TB3-H 2	IMU TEMP CONT K1 PIN 3
A 399	56J09-102	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
A 441	56J09-103	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
A 397	56J09-104	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
A 446	56J09-105	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
A 413	56J09-106	56TB2-S 6	STEP-UP-R

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 429	56J09- 1	56TB3-N15	0 VDC OPTICS	
A 392	56J09- 2	56TB3-M 3	TRUNNION ENCODER PIN 8	
A 389W	56J09- 3	56J22-193	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 387W	56J09- 4	56J22-233	PITCH ATTIT IMPULSE CONTR OUTPUT UP	
A 387L	56J09- 5	56J22-232	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN	
A 388L	56J09- 6	56J22-197	YAW ATTIT IMPULSE CONTR OUTPUT LEFT	
A 388R	56J09- 7	56J22-235	YAW ATTIT IMPULSE CONTR INPUT	
A 425R	56J09- 10	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI	
A 389R	56J09- 16	56J22-230	ROLL ATTIT IMPULSE CONTR INPUT	
A 389L	56J09- 17	56J22-192	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT	
A 387R	56J09- 18	56J22-195	PITCH ATTIT IMPULSE CONTR INPUT	
A 426R	56J09- 19	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI	
A 388W	56J09- 20	56J22-198	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 391	56J09- 21	56TB3-K 4	TRUNNION ENCODER PIN 9	
A 425W	56J09- 23	56TB3-M11	RSVR DRIVE AMP INPUT LO	
A 425L	56J09- 24	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
A 437W	56J09- 25	56J21- 54	OPTICS ZERO ENCODER	104A
A 450	56J09- 26	56TB2-D 6	0 VDC IMU	
* A 453	56J09- 29	56P10- 10	GIMBAL LOCK LIGHT CONDITION LAMP TEST	
A 433W	56J09- 30	56J21- 86	MARK	102A
A 434W	56J09- 31	56J21- 88	NOT MARK	103A
A 431R	56J09- 32	56TB2-A 2	PANEL BRIGHTNESS CONTROL	
A 426W	56J09- 33	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO	
A 427W	56J09- 34	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
A 427R	56J09- 35	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
A 420	56J09- 36	56E 56	AGC COMMON	
A 449R	56J09- 37	56J21- 18	OPTICS MODE SW COMPUTER INDICATION	106A
A 597W	56J09- 38	56TB2-V 1	SHAFT CDU MOTOR EXC	
A 393W	56J09- 40	56J22-200	0 VDC FROM NAA	
A 393R	56J09- 41	56J22-237	+28 VDC FROM NAA	
A 415	56J09- 42	56E 56	AGC COMMON	
A 431W	56J09- 44	56TB2-A 1	PANEL BRIGHTNESS CONTROL	
A 604W	56J09- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY	
A 421W	56J09- 47	56TB3-F 7	TRUNNION CDU DAC LO	
A 422R	56J09- 48	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
A 597R	56J09- 49	56TB2-U 1	TRUNNION CDU MOTOR EXC	
A 393L	56J09- 50	56J22-238	ATTITUDE DISABLE SIG TO NAA	
A 435	56J09- 51	56TB3-M22	+28 VDC MDV	
A 606K	56J09- 52	56P10-108	400 CPS 6 V LO	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 570	56J10- 1	56E 62	GROUP 2 SHIELD	245
A 464	56J10- 2	56TB3-F 3	CONDITION LAMP TEST	328
A 474W	56J10- 3	56TB3-B 4	ZERO ENCODER LIGHT HI	301
A 474R	56J10- 4	56TB3-B 3	CDU FAIL LIGHT HI	302
A 474L	56J10- 5	56TB3-B 5	ACCEL FAIL LIGHT HI	303
A 465	56J10- 6	56TB3-M 6	IMU FAIL LIGHT HI	304
A 466	56J10- 7	56TB1-F 1	SPARE FAIL LIGHT HI	305
A 507	56J10- 8	56TB3-M22	+28 VDC MDV	306
A 478	56J10- 9	56TB1-H 5	AGC FAIL SIG	326
A 508	56J10- 10	56TB1-G 5	+28 VDC TO COMPUTER RELAY	327
A 475	56J10- 12	56TB1-F 8	ATTIT CONT MODE COMMAND FROM AGC	314
A 521	56J10- 13	56TB1-K 7	MODE RELAY COMMON TO AGC	315
A 503R	56J10- 14	56J21-111	OUT 0 11	224A
A 506R	56J10- 15	56J21- 78	OUT 0 12	225A
A 504R	56J10- 16	56J21- 43	OUT 0 13	226A
A 483R	56J10- 17	56J21- 6	OUT 0 14	227A
A 484R	56J10- 18	56J21-214	OUT 0 15	228A
A 487R	56J10- 19	56J21-113	ALARM 3	231A
A 471R	56J10- 20	56J21- 82	POWER SYNC	242A
A 479W	56J10- 21	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC	307
A 479L	56J10- 22	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC	308
A 480L	56J10- 23	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC	309
A 479R	56J10- 24	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC	310
A 480R	56J10- 25	56TB1-K 6	ENTRY MODE COMMAND FROM AGC	311
A 480W	56J10- 26	56TB1-K 7	MODE RELAY COMMON TO AGC	312
A 569	56J10- 27	56E 65	GROUP 3 SHIELD	250
A 497R	56J10- 28	56J21-109	OUT 0 4	217A
A 498R	56J10- 29	56J21- 76	OUT 0 5	218A
A 499R	56J10- 30	56J21- 41	OUT 0 6	219A
A 505R	56J10- 31	56J21- 4	OUT 0 7	220A
A 482R	56J10- 32	56J21- 80	ALARM 4	232A
A 488R	56J10- 33	56J21- 45	ALARM 5	233A
A 516R	56J10- 34	56J21-218	KEY CODE 1	201A
A 514R	56J10- 35	56J21-183	KEY CODE 2	202A
A 472R	56J10- 36	56J21-150	KEY CODE 3	203A
A 511R	56J10- 37	56J21-117	KEY CODE 4	204A
A 467R	56J10- 38	56J21- 84	KEY CODE 5	205A
A 510R	56J10- 39	56J21- 14	TEST ALARM	207A
A 485R	56J10- 40	56J21-179	ALARM 1	229A

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SIZE A
1014607
SCALE - NONE
REV LTR F
SHEET 28

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
AA 15W	56J11-A1	56TB2-H 2	IG CDU 1X ERROR SIG
AA 19W	56J11-A2	56TB2-H 7	MG CDU 1X ERROR SIG
AA 21W	56J11-A3	56TB2-N 2	OG CDU 1X ERROR SIG
AA 10R	56J11-A5	56J12-A2	IMU MG ERROR SIG
AA 29R	56J11-A5	56TB1-A 7	IMU MG ERROR SIG
AA 10L	56J11-A6	56J12-B1	IMU OG ERROR SIG
AA 29L	56J11-A6	56TB1-A 8	IMU OG ERROR SIG
AA 15R	56J11-B1	56TB2-G 2	IG CDU ERROR SIG RET
AA 16W	56J11-B1	56TB1-B 5	IG CDU ERROR SIG RET
AA 19R	56J11-B2	56TB2-G 7	MG CDU ERROR SIG RET
AA 20W	56J11-B2	56TB1-A 6	MG CDU ERROR SIG RET
AA 11R	56J11-B3	56J17-B1	OG CDU ERROR SIG RET
AA 21R	56J11-B3	56TB2-R 2	OG CDU ERROR SIG RET
AA 10K	56J11-B5	56J12-B2	IMU GIMBAL AND GYRO ERROR SIG LO
AA 29K	56J11-B5	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
AA 10W	56J11-B6	56J12-A1	IMU IG AND Y GYRO ERROR SIG
AA 29W	56J11-B6	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
AA 16R	56J11-C1	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR
AA 20R	56J11-C2	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR
AA 11W	56J11-C3	56J17-A1	OG CDU ATTITUDE STEERING ERROR
AA 30W	56J11-D5	56TB1-D 4	IG TORQUE MOTOR RET
AA 30R	56J11-D6	56TB1-D 3	IG TORQUE MOTOR HI
AA 23R	56J11-F1	56TB1-C 4	IG ADA
AA 42W	56J11-F3	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
AA 32R	56J11-F6	56TB1-A 4	MG TORQUE MOTOR HI
AA 23K	56J11-G1	56TB1-C 3	OG ADA
AA 23W	56J11-G2	56TB1-B 3	0 VDC IMU
AA 24	56J11-G2	56J11-P6	0 VDC IMU
AA 42R	56J11-G3	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
AA 32W	56J11-G6	56TB1-A 3	MG TORQUE MOTOR RET
AA 23L	56J11-H1	56TB1-B 4	MG ADA
AA 34W	56J11-H5	56TB1-B 2	OG TORQUE MOTOR RET
AA 34R	56J11-H6	56TB1-A 2	OG TORQUE MOTOR HI
AA 9W	56J11-L1	56J12-H2	3200 CPS 2 V HI
AA 28W	56J11-L1	56TB1-D 2	3200 CPS 2 V HI
AA 9R	56J11-L2	56J12-K2	3200 CPS 2 V LO
AA 28K	56J11-L2	56TB1-C 2	3200 CPS 2 V LO
AA 35	56J11-L3	56TB1-D 6	COARSE ALIGN RELAY CONTROL
AA 7	56J11-L4	56J12-K3	STRUCTURE GND

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607		
SCALE - NONE	REV LTR	F	SHEET	30

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA617	56J11-L4	56E 66	STRUCTURE GND
	AA618	56J11-L4	56E 67	STRUCTURE GND
*	AA503R	56J11-L6	56J21-203	COMPUTER 3200 PPS OUT OF PHASE SYNC 152A
	AA 28R	56J11-M1	56TB1-D 2	3200 CPS 2 V HI
	AA 28L	56J11-M2	56TB1-C 2	3200 CPS 2 V LO
	AA 36	56J11-M5	56E 28	COMPUTER 3200 PPS SYNC RET
	AA 37	56J11-M5	56J11-P3	0 VDC IMU
*	AA504R	56J11-M6	56J21-241	COMPUTER 3200 PPS IN PHASE SYNC 151A
	AA 12R	56J11-N1	56J17-P2	3200 CPS 20 V CT
	AA 12L	56J11-N2	56J17-R2	3200 CPS 20 V LO
	AA610	56J11-N3	56J12-P4	COMPUTER 12.8 KPPS SYNC
	AA 5R	56J11-N4	56J12-P3	800 CPS 28 V 1 PCT LO IMU
	AA 5W	56J11-N5	56J12-N3	800 CPS 28 V 1 PCT HI IMU
	AA 14	56J11-N6	56J13-P6	-28 VDC
	AA 27	56J11-N6	56TB1-D 5	-28 VDC
	AA 12W	56J11-P1	56J17-N2	3200 CPS 20 V HI
	AA 38	56J11-P2	56J11-R3	0 VDC IMU
	AA 39	56J11-P3	56J11-R3	0 VDC IMU
*	AA 37	56J11-P3	56J11-M5	0 VDC IMU
	AA 18	56J11-P4	56J11-R4	0 VDC IMU
	AA 22	56J11-P4	56J11-P5	0 VDC IMU
*	AA 22	56J11-P5	56J11-P4	0 VDC IMU
	AA 26	56J11-P6	56J11-R6	0 VDC IMU
	AA 46	56J11-P6	56TB1-S 3	0 VDC IMU
*	AA 24	56J11-P6	56J11-G2	0 VDC IMU
	AA 41	56J11-R1	56J11-R2	0 VDC IMU
	AA 44	56J11-R1	56TB2-M 2	0 VDC IMU
	AA 45	56J11-R2	56TB2-M 3	0 VDC IMU
*	AA 41	56J11-R2	56J11-R1	0 VDC IMU
	AA 43	56J11-R3	56TB2-M 1	0 VDC IMU
*	AA 38	56J11-R3	56J11-P2	0 VDC IMU
*	AA 39	56J11-R3	56J11-P3	0 VDC IMU
	AA 17	56J11-R4	56J11-R5	0 VDC IMU
*	AA 18	56J11-R4	56J11-P4	0 VDC IMU
	AA 31	56J11-R5	56J11-R6	0 VDC IMU
*	AA 17	56J11-R5	56J11-R4	0 VDC IMU
	AA 33	56J11-R6	56J11-S6	0 VDC IMU
*	AA 26	56J11-R6	56J11-P6	0 VDC IMU
*	AA 31	56J11-R6	56J11-R5	0 VDC IMU

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SCALE - NONE	REV LTR	F	SHEET	31

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 486R	56J10- 41	56J21-146	ALARM 2	230A
A 470R	56J10- 42	56J21- 47	TIMING (1.5 CPS)	244A
A 490R	56J10- 43	56J21-216	ALARM 7	235A
A 489R	56J10- 44	56J21- 8	ALARM 6	234A
A 522	56J10- 45	56J21- 10	SPARE	248
A 523	56J10- 46	56J21- 11	SPARE	249
A 515R	56J10- 47	56J21-185	OR OF C1 THRU C33	210A
A 517R	56J10- 48	56J21-220	ERROR RESET	208A
A 468W	56J10- 49	56J21- 12	KEY RESET NAV	209A
A 492R	56J10- 51	56J21-148	ALARM 9	237A
A 491R	56J10- 53	56J21-181	ALARM 8	236A
A 513	56J10- 55	56J21-174	+3 V B	240
A 512	56J10- 56	56J21-173	GND	239
A 477	56J10- 57	56J21-108	+13 V B	241
A 509	56J10- 58	56J21- 39	GND	239
A 481	56J10- 59	56J21- 40	+28 VDC AGC	243
A 496R	56J10- 60	56J21-142	OUT 0 3	216A
A 500R	56J10- 61	56J21-212	OUT 0 8	221A
A 501R	56J10- 62	56J21-177	OUT 0 9	222A
A 502R	56J10- 63	56J21-144	OUT 0 10	223A
A 493R	56J10- 64	56J21-115	ALARM 10	238A
A 476	56J10- 70	56J21- 3	SPARE	211
A 473	56J10- 71	56J21- 75	SPARE	212
A 469	56J10- 72	56J21-141	SPARE	213
A 494R	56J10- 73	56J21-210	OUT 0 1	214A
A 495R	56J10- 74	56J21-175	OUT 0 2	215A
A 520	56J10- 75	56J21-209	SPARE	247
A 519	56J10- 82	56E 26	COMMONED RETURNS GROUND	330

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SCALE - NONE	REV LTR	F	SHEET	29

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA 2	56J11-S1	56J20-L1	+28 VDC IMU
	AA 40	56J11-S1	56J11-S2	+28 VDC IMU
	AA 3	56J11-S2	56J20-L2	+28 VDC IMU
*	AA 40	56J11-S2	56J11-S1	+28 VDC IMU
	AA 13	56J11-S3	56J17-R1	+28 VDC STBY
	AA 1	56J11-S4	56J15-S6	+28 VDC IMU
	AA 6	56J11-S4	56J12-S5	+28 VDC IMU
	AA 25	56J11-S4	56J11-S5	+28 VDC IMU
	AA 4	56J11-S5	56J20-K2	+28 VDC IMU
*	AA 25	56J11-S5	56J11-S4	+28 VDC IMU
*	AA 33	56J11-S6	56J11-R6	0 VDC IMU

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607		
SCALE - NONE	REV LTR	F	SHEET	32

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INCHES
0 1 2
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA452	56J20-S6	56J20-R6	+28 VDC OPTICS BUSS B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 634	56J21- 1	56P11-A	+28 VDC AGC BUSS A	167
*	A 639	56J21- 2	56P11-J	0 VDC AGC	169
*	A 476	56J21- 3	56J10- 70	SPARE	211
*	A 505R	56J21- 4	56J10- 31	OUT 0 7	220A
*	A 505W	56J21- 5	56E 22		220B
*	A 483R	56J21- 6	56J10- 17	OUT 0 14	227A
*	A 483W	56J21- 7	56E 23		227B
*	A 489R	56J21- 8	56J10- 44	ALARM 6	234A
*	A 489W	56J21- 9	56E 24		234B
*	A 522	56J21- 10	56J10- 45	SPARE	248
*	A 523	56J21- 11	56J10- 46	SPARE	249
*	A 468W	56J21- 12	56J10- 49	KEY RESET NAV	209A
*	A 468R	56J21- 13	56E 25		209B
*	A 510R	56J21- 14	56J10- 39	TEST ALARM	207A
*	A 510W	56J21- 15	56E 25		207B
*	A 407W	56J21- 16	56J09- 70	SXT PWR ON INDICATION TO AGC	105A
*	A 407R	56J21- 17	56E 58		105B
*	A 449R	56J21- 18	56J09- 37	OPTICS MODE SW COMPUTER INDICATION	106A
*	A 449W	56J21- 19	56E 58		106B
	AA474	56J21- 22	56E 47	AGC SIG 179 SHLD RET	179
	AA473	56J21- 23	56E 45	AGC SIG 180 SHLD RET	180
	AA475L	56J21- 24	56J15-B4	IG ENCODER + DELTA THETA	120A
	AA475R	56J21- 25	56E 38	IG DAC MDA SIG LO	120B
	AA476R	56J21- 26	56J15-C4	IG ENCODER - DELTA THETA	121A
	AA476L	56J21- 27	56E 38	IG DAC MDA SIG LO	121B
*	AA 84W	56J21- 28	56J12-D6	IMU FAIL	141A
*	AA 84R	56J21- 29	56J12-F6	IMU FAIL RET	141B
	AA486R	56J21- 30	56J15-C9	OG CDU - DELTA THETA COMMAND	127A
	AA486L	56J21- 31	56E 43	OG DAC MDA SIG LO	127B
*	AA130R	56J21- 32	56E 33	0 VDC IMU	143A
*	AA130W	56J21- 33	56J14-D2	- DX GYRO RATE	143B
*	AA226R	56J21- 34	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
*	AA226L	56J21- 35	56J16-L3	COMPUTER 800 PPS SYNC RET	150B
*	AA 81	56J21- 36	56J12-M1	AGC POWER SUPPLY FAIL SIG HI	157A
*	AA403	56J21- 37	56J20-L5	+28 VDC MDV	157B
*	A 509	56J21- 39	56J10- 58	GND	239
*	A 481	56J21- 40	56J10- 59	+28 VDC AGC	243
*	A 499R	56J21- 41	56J10- 30	OUT 0 6	219A
*	A 499W	56J21- 42	56E 22		219B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA189	56J20-N5	56J16-S5	+28 VDC OPTICS
	AA406	56J20-N6	56TB3-H20	+28 VDC OPTICS
*	AA190	56J20-N6	56J16-S6	+28 VDC OPTICS
	AA623	56J20-P1	56TB3-C21	+28 VDC IMU BUSS A
*	AA429	56J20-P1	56J20-N1	+28 VDC IMU BUSS A
	AA625	56J20-P2	56TB3-D21	+28 VDC IMU BUSS B
*	AA434	56J20-P2	56J20-N2	+28 VDC IMU BUSS B
	AA445	56J20-P3	56TB3-N22	+28 VDC STBY
*	AA238	56J20-P3	56J17-T1	+28 VDC STBY
*	AA239	56J20-P4	56J17-T2	+28 VDC STBY
	AA446	56J20-P5	56TB3-H21	+28 VDC OPTICS BUSS A
	AA447	56J20-P5	56J20-R5	+28 VDC OPTICS BUSS A
	AA450	56J20-P6	56TB3-H22	+28 VDC OPTICS BUSS B
	AA451	56J20-P6	56J20-R6	+28 VDC OPTICS BUSS B
	AA431	56J20-R1	56J20-S1	+28 VDC IMU BUSS A
	AA622	56J20-R1	56TB3-C20	+28 VDC IMU BUSS A
	AA436	56J20-R2	56J20-S2	+28 VDC IMU BUSS B
	AA624	56J20-R2	56TB3-D20	+28 VDC IMU BUSS B
	AA441	56J20-R3	56TB3-D22	+28 VDC STBY BUSS A
	AA442	56J20-R3	56J20-S3	+28 VDC STBY BUSS A
	AA443	56J20-R4	56TB3-C22	+28 VDC STBY BUSS B
	AA444	56J20-R4	56J20-S4	+28 VDC STBY BUSS B
	AA448	56J20-R5	56J20-S5	+28 VDC OPTICS BUSS A
	AA628	56J20-R5	56TB3-H21	+28 VDC OPTICS BUSS A
*	AA447	56J20-R5	56J20-P5	+28 VDC OPTICS BUSS A
	AA452	56J20-R6	56J20-S6	+28 VDC OPTICS BUSS B
	AA629	56J20-R6	56TB3-H22	+28 VDC OPTICS BUSS B
*	AA451	56J20-R6	56J20-P6	+28 VDC OPTICS BUSS B
	AA432	56J20-S1	56TB3-C21	+28 VDC IMU BUSS A
*	AA431	56J20-S1	56J20-R1	+28 VDC IMU BUSS A
	AA437	56J20-S2	56TB3-D21	+28 VDC IMU BUSS B
*	AA436	56J20-S2	56J20-R2	+28 VDC IMU BUSS B
	AA626	56J20-S3	56TB3-D22	+28 VDC STBY BUSS A
*	AA442	56J20-S3	56J20-R3	+28 VDC STBY BUSS A
	AA627	56J20-S4	56TB3-C22	+28 VDC STBY BUSS B
*	AA444	56J20-S4	56J20-R4	+28 VDC STBY BUSS B
	AA449	56J20-S5	56TB3-H21	+28 VDC OPTICS BUSS A
*	AA448	56J20-S5	56J20-R5	+28 VDC OPTICS BUSS A
	AA453	56J20-S6	56TB3-H22	+28 VDC OPTICS BUSS B

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 504R	56J21- 43	56J10- 16	OUT 0 13	226A
*	A 504W	56J21- 44	56E 23		226B
*	A 488R	56J21- 45	56J10- 33	ALARM 5	233A
*	A 488W	56J21- 46	56E 23		233B
*	A 470R	56J21- 47	56J10- 42	TIMING (1.5 CPS)	244A
*	A 470W	56J21- 48	56E 24		244B
	AA562	56J21- 53	56E 57	AGC SIG 178 SHLD RET	178
*	A 437W	56J21- 54	56J09- 25	OPTICS ZERO ENCODER	104A
*	A 437R	56J21- 55	56E 58		104B
	AA479L	56J21- 56	56J15-B8	OG ENCODER + DELTA THETA	118A
	AA479R	56J21- 57	56E 42	OG DAC MDA SIG LO	118B
	AA480R	56J21- 58	56J15-C8	OG ENCODER - DELTA THETA	119A
	AA480L	56J21- 59	56E 42	OG DAC MDA SIG LO	119B
*	AA 86W	56J21- 60	56J12-D4	ACCEL FAIL	138A
*	AA 86R	56J21- 61	56J12-F4	ACCEL FAIL RET	138B
*	AA521	56J21- 62	56TB3-L19	+13 VDC AGC	176
*	AA522	56J21- 63	56TB3-N19	0 VDC AGC	177
	AA485L	56J21- 64	56J15-B9	OG CDU + DELTA THETA COMMAND	126A
	AA485R	56J21- 65	56E 43	OG DAC MDA SIG LO	126B
*	AA129W	56J21- 66	56E 33	0 VDC IMU	142A
*	AA129R	56J21- 67	56J14-D1	+ DX GYRO RATE	142B
*	AA227L	56J21- 68	56J16-L3	COMPUTER 800 PPS SYNC RET	149A
*	AA227R	56J21- 69	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	149B
*	AA 70L	56J21- 70	56J12-K1	COMPUTER 102.4 KPPS SYNC	156A
*	AA 70R	56J21- 71	56J12-H1	COMPUTER 102.4 KPPS SYNC RET	156B
*	A 635	56J21- 73	56P11-A	+28 VDC AGC BUSS A	167
*	A 640	56J21- 74	56P11-J	0 VDC AGC	169
*	A 473	56J21- 75	56J10- 71	SPARE	212
*	A 498R	56J21- 76	56J10- 29	OUT 0 5	218A
*	A 498W	56J21- 77	56E 22		218B
*	A 506R	56J21- 78	56J10- 15	OUT 0 12	225A
*	A 506W	56J21- 79	56E 23		225B
*	A 482R	56J21- 80	56J10- 32	ALARM 4	232A
*	A 482W	56J21- 81	56E 23		232B
*	A 471R	56J21- 82	56J10- 20	POWER SYNC	242A
*	A 471W	56J21- 83	56E 24		242B
*	A 467R	56J21- 84	56J10- 38	KEY CODE 5	205A
*	A 467W	56J21- 85	56E 25		205B
*	A 433W	56J21- 86	56J09- 30	MARK	102A

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
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SCALE-NONE
REV LTR F
SHEET 60

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INCHES
0 1 2
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA557	56TB2-K 2	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 265R	56TB2-K 2	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS
*	A 301R	56TB2-K 2	56P08-J	800 CPS 28 V 1 PCT HI OPTICS
*	A 76W	56TB2-K 3	56J02- 32	MG CDU MDA OUTPUT
*	AA203R	56TB2-K 3	56J16-P3	MG CDU MDA OUTPUT
	AA555	56TB2-K 4	56TB2-L 4	0 VDC IMU
*	A 52R	56TB2-K 4	56J01- 43	0 VDC IMU
*	A 76R	56TB2-K 4	56J02- 43	0 VDC IMU
*	A 97R	56TB2-K 4	56J03- 43	0 VDC IMU
*	AA223	56TB2-K 4	56J16-P2	0 VDC IMU
*	A 97W	56TB2-K 5	56J03- 32	OG CDU MDA OUTPUT
*	AA215R	56TB2-K 5	56J16-N2	OG CDU MDA OUTPUT
*	A 97L	56TB2-K 6	56J03- 31	OG CDU MDA OUTPUT
*	AA215W	56TB2-K 6	56J16-N1	OG CDU MDA OUTPUT
*	A 102	56TB2-K 8	56J03- 30	+28 VDC IMU FOR OG MDA
*	AA212	56TB2-K 8	56J16-T2	+28 VDC IMU FOR OG MDA
*	A 321W	56TB2-L 1	56P09- 55	800 CPS 28 V 1 PCT LO OPTICS
*	A 416W	56TB2-L 1	56J09- 69	800 CPS 28 V 1 PCT LO OPTICS
*	A 558W	56TB2-L 1	56E 13	800 CPS 28 V 1 PCT LO OPTICS
*	AA224R	56TB2-L 1	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
*	AA556	56TB2-L 1	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
	AA556	56TB2-L 2	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 265W	56TB2-L 2	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
*	A 301W	56TB2-L 2	56P08-K	800 CPS 28 V 1 PCT LO OPTICS
*	A 76L	56TB2-L 3	56J02- 31	MG CDU MDA OUTPUT
*	AA203W	56TB2-L 3	56J16-R3	MG CDU MDA OUTPUT
	A 601	56TB2-L 4	56TB2-M 4	0 VDC IMU
*	A 169	56TB2-L 4	56J06- 78	0 VDC IMU
*	A 661	56TB2-L 4	56P12-F	0 VDC IMU
*	AA555	56TB2-L 4	56TB2-K 4	0 VDC IMU
*	A 52L	56TB2-L 5	56J01- 31	IG CDU MDA OUTPUT
*	AA198W	56TB2-L 5	56J16-R1	IG CDU MDA OUTPUT
*	A 52W	56TB2-L 6	56J01- 32	IG CDU MDA OUTPUT
*	AA198R	56TB2-L 6	56J16-P1	IG CDU MDA OUTPUT
	AA581	56TB2-M 1	56TB2-M 2	0 VDC IMU
*	A 660	56TB2-M 1	56P12-F	0 VDC IMU
*	AA 43	56TB2-M 1	56J11-R3	0 VDC IMU
*	AA461	56TB2-M 1	56J20-H2	0 VDC IMU
	AA582	56TB2-M 2	56TB2-M 3	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 44	56TB2-M 2	56J11-R1	0 VDC IMU
*	AA581	56TB2-M 2	56TB2-M 1	0 VDC IMU
	AA583	56TB2-M 3	56TB2-M 4	0 VDC IMU
*	A 651	56TB2-M 3	56P11-F	0 VDC IMU
*	AA 45	56TB2-M 3	56J11-R2	0 VDC IMU
*	AA582	56TB2-M 3	56TB2-M 2	0 VDC IMU
	AA584	56TB2-M 4	56TB2-M 5	0 VDC IMU
*	A 20	56TB2-M 4	56P01- 78	0 VDC IMU
*	A 601	56TB2-M 4	56TB2-L 4	0 VDC IMU
*	AA583	56TB2-M 4	56TB2-M 3	0 VDC IMU
*	AA591	56TB2-M 4	56TB1-S 3	0 VDC IMU
	AA585	56TB2-M 5	56TB2-M 6	0 VDC IMU
*	AA584	56TB2-M 5	56TB2-M 4	0 VDC IMU
*	AA589	56TB2-M 5	56TB1-N 4	0 VDC IMU
	AA586	56TB2-M 6	56TB2-M 7	0 VDC IMU
	AA592	56TB2-M 6	56TB3-T 3	0 VDC IMU
*	AA585	56TB2-M 6	56TB2-M 5	0 VDC IMU
*	A 654	56TB2-M 7	56P11-E	0 VDC IMU
*	AA460	56TB2-M 7	56J20-G1	0 VDC IMU
*	AA539	56TB2-M 7	56TB2-M 8	0 VDC IMU
*	AA586	56TB2-M 7	56TB2-M 6	0 VDC IMU
	A 87B	56TB2-M 8	SHLD A 87	0 VDC IMU
	A 232B	56TB2-M 8	SHLD A 232	0 VDC IMU
	A 360B	56TB2-M 8	SHLD A 360	0 VDC IMU
	AA506B	56TB2-M 8	SHLD AA506	0 VDC IMU
	AA539	56TB2-M 8	56TB2-M 7	0 VDC IMU
*	A 85R	56TB2-N 1	56J03- 67	OG CDU 1/2X ERROR SIG
*	AA206W	56TB2-N 1	56J16-D5	OG CDU 1/2X ERROR SIG
*	A 23R	56TB2-N 2	56P01- 96	OG CDU 1X ERROR SIG
*	A 86R	56TB2-N 2	56J03- 35	OG CDU 1X ERROR SIG
*	A 366R	56TB2-N 2	56P09- 72	OG CDU 1X ERROR SIG
*	AA 21W	56TB2-N 2	56J11-A3	OG CDU 1X ERROR SIG
*	AA207W	56TB2-N 2	56J16-C6	OG CDU 1X ERROR SIG
	AA571L	56TB2-N 3	56J17-A2	OG CDU 16X ERROR SIG
*	A 89R	56TB2-N 3	56J03-104	OG CDU 16X ERROR SIG
*	A 338R	56TB2-N 3	56P09- 39	OG CDU 16X ERROR SIG
*	AA208R	56TB2-N 3	56J16-C5	OG CDU 16X ERROR SIG
*	A 56	56TB2-N 5	56J01- 30	+28 VDC IMU FOR IG MDA
*	AA210	56TB2-N 5	56J16-S1	+28 VDC IMU FOR IG MDA

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA199R	56TB2-G 6	56J16-D4	MG CDU ERROR SIG RET
*	A 25W	56TB2-G 7	56P01- 83	MG CDU ERROR SIG RET
*	A 63W	56TB2-G 7	56J02- 45	MG CDU ERROR SIG RET
*	A 365W	56TB2-G 7	56P09- 71	MG CDU ERROR SIG RET
*	AA 19R	56TB2-G 7	56J11-B2	MG CDU ERROR SIG RET
*	AA200R	56TB2-G 7	56J16-D4	MG CDU ERROR SIG RET
*	AA579	56TB2-G 7	56TB2-F 7	MG CDU ERROR SIG RET
	A 66B	56TB2-G 8	SHLD A 66	MG CDU ERROR SIG RET
*	A 66W	56TB2-G 8	56J02- 90	MG CDU ERROR SIG RET
*	AA201R	56TB2-G 8	56J16-D4	MG CDU ERROR SIG RET
*	A 42R	56TB2-H 1	56J01-104	IG CDU 16X ERROR SIG
*	AA196W	56TB2-H 1	56J16-C1	IG CDU 16X ERROR SIG
*	A 24R	56TB2-H 2	56P01- 70	IG CDU 1X ERROR SIG
*	A 39R	56TB2-H 2	56J01- 35	IG CDU 1X ERROR SIG S2
*	A 364R	56TB2-H 2	56P09- 96	IG CDU 1X ERROR SIG
*	AA 15W	56TB2-H 2	56J11-A1	IG CDU 1X ERROR SIG
*	AA195W	56TB2-H 2	56J16-C2	IG CDU 1X ERROR SIG
*	A 38R	56TB2-H 3	56J01- 67	IG CDU 1/2X ERROR SIG S3
*	AA194W	56TB2-H 3	56J16-D1	IG CDU 1/2X ERROR SIG
*	A 19W	56TB2-H 4	56P01- 10	800 CPS 28 V 1 PCT LO IMU
*	A 577W	56TB2-H 4	56E 2	800 CPS 28 V 1 PCT LO IMU
*	AA222L	56TB2-H 4	56J16-S3	800 CPS 28 V 1 PCT LO IMU
*	AA409R	56TB2-H 4	56J20-F6	800 CPS 28 V 1 PCT LO IMU
*	A 577L	56TB2-H 5	56E 5	ZEROING RSVR 800 CPS
*	AA222K	56TB2-H 5	56J16-R4	ZEROING RSVR 800 CPS
*	A 62R	56TB2-H 6	56J02- 67	MG CDU 1/2X ERROR SIG
*	AA199W	56TB2-H 6	56J16-D3	MG CDU 1/2X ERROR SIG
*	A 25R	56TB2-H 7	56P01- 82	MG CDU 1X ERROR SIG
*	A 63R	56TB2-H 7	56J02- 35	MG CDU 1X ERROR SIG
*	A 365R	56TB2-H 7	56P09- 70	MG CDU 1X ERROR SIG
*	AA 19W	56TB2-H 7	56J11-A2	MG CDU 1X ERROR SIG
*	AA200W	56TB2-H 7	56J16-C4	MG CDU 1X ERROR SIG
*	A 66R	56TB2-H 8	56J02-104	MG CDU 16X ERROR SIG
*	AA201W	56TB2-H 8	56J16-C3	MG CDU 16X ERROR SIG
*	A 321R	56TB2-K 1	56P09- 45	800 CPS 28 V 1 PCT HI OPTICS
*	A 416R	56TB2-K 1	56J09- 80	800 CPS 28 V 1 PCT HI OPTICS
*	A 558R	56TB2-K 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
*	AA224W	56TB2-K 1	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS
*	AA557	56TB2-K 1	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 96R	56TB2-N 6	56J03-106	OG CDU MDA TACH SIG
*	AA214R	56TB2-N 6	56J16-A5	OG CDU MDA TACH SIG
*	A 87W	56TB2-N 7	56J03- 6	COS AOG 1X S1
*	A 232W	56TB2-N 7	56P03-E	COS AOG 1X S1
*	A 360W	56TB2-N 7	56P09- 31	COS AOG 1X S1
*	AA204R	56TB2-N 7	56J16-C8	COS AOG 1X S1
*	AA506R	56TB2-N 7	56J22-142	COS AOG 1X S1
*	A 232R	56TB2-N 8	56P03-D	COS AOG 1X S3
*	A 360R	56TB2-N 8	56P09- 30	COS AOG 1X S3
*	AA204W	56TB2-N 8	56J16-B8	COS AOG 1X S3
*	AA506L	56TB2-N 8	56J22-141	COS AOG 1X S3
*	A 85W	56TB2-R 1	56J03- 57	OG CDU ERROR SIG RET
*	AA206R	56TB2-R 1	56J16-D6	OG CDU ERROR SIG RET
*	A 23W	56TB2-R 2	56P01- 97	OG CDU ERROR SIG RET
*	A 86W	56TB2-R 2	56J03- 45	OG CDU ERROR SIG RET
*	A 366W	56TB2-R 2	56P09- 83	OG CDU ERROR SIG RET
*	AA 21R	56TB2-R 2	56J11-B3	OG CDU ERROR SIG RET
*	AA207R	56TB2-R 2	56J16-D6	OG CDU ERROR SIG RET
*	AA578	56TB2-R 2	56TB2-S 2	OG CDU ERROR SIG RET
	AA571R	56TB2-R 3	56J17-B2	OG CDU ERROR SIG RET
	AA615	56TB2-R 3	56TB2-S 3	OG CDU ERROR SIG RET
*	A 89W	56TB2-R 3	56J03- 90	OG CDU ERROR SIG RET
*	A 338W	56TB2-R 3	56P09- 38	OG CDU ERROR SIG RET
*	AA208W	56TB2-R 3	56J16-D6	OG CDU ERROR SIG RET
*	A 9	56TB2-R 4	56P01- 57	ENTRY RELAY CONTROL
*	AA221	56TB2-R 4	56J16-M1	ENTRY RELAY CONTROL
*	A 80	56TB2-R 5	56J02- 30	+28 VDC IMU FOR MG MDA
*	AA211	56TB2-R 5	56J16-T1	+28 VDC IMU FOR MG MDA
*	A 96L	56TB2-R 6	56J03-105	OG CDU MDA SLEW SIG
*	AA214W	56TB2-R 6	56J16-A6	OG CDU MDA SLEW SIG
	A 96B	56TB2-R 7	SHLD A 96	OG CDU MDA INPUT RET
*	A 96W	56TB2-R 7	56J03- 92	OG CDU MDA INPUT RET
*	AA214L	56TB2-R 7	56J16-B5	OG CDU MDA INPUT RET
*	A 87R	56TB2-R 8	56J03- 20	COS AOG 1X TO CDU
*	AA204L	56TB2-R 8	56J16-C9	COS AOG 1X TO CDU
*	A 100	56TB2-S 1	56J03- 34	OG CDU 1X RSVR LOAD
*	AA218	56TB2-S 1	56J16-F6	OG CDU 1X RSVR LOAD
	A 23B	56TB2-S 2	SHLD A 23	OG CDU ERROR SIG RET
	A 86B	56TB2-S 2	SHLD A 86	OG CDU ERROR SIG RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA493R	56J21-130	56J18-L2	SHAFT CDU - DELTA THETA COMMAND	117A
	AA493L	56J21-131	56E 52	SHAFT CDU DAC LO	117B
	AA501W	56J21-132	56J13-N5	PIPA INTERROGATE PULSE	139A
	AA501R	56J21-133	56E 34	0 VDC IMU	139B
*	AA135W	56J21-134	56E 33	0 VDC IMU	147A
*	AA135R	56J21-135	56J14-D6	- DZ GYRO RATE	147B
	AA491R	56J21-136	56J12-G2	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA491L	56J21-137	56E 29	COMPUTER 25.6 KPPS SYNC RET	154B
*	A 637	56J21-139	56P12-A	+28 VDC AGC BUSS B	168
*	A 641	56J21-140	56P12-J	0 VDC AGC	170
*	A 469	56J21-141	56J10- 72	SPARE	213
*	A 496R	56J21-142	56J10- 60	OUT 0 3	216A
*	A 496W	56J21-143	56E 22		216B
*	A 502R	56J21-144	56J10- 63	OUT 0 10	223A
*	A 502W	56J21-145	56E 22		223B
*	A 486R	56J21-146	56J10- 41	ALARM 2	230A
*	A 486W	56J21-147	56E 23		230B
*	A 492R	56J21-148	56J10- 51	ALARM 9	237A
*	A 492W	56J21-149	56E 24		237B
*	A 472R	56J21-150	56J10- 36	KEY CODE 3	203A
*	A 472W	56J21-151	56E 25		203B
	AA489L	56J21-152	56J16-A7	ZERO ENCODER MODE INDICATION TO AGC	158A
	AA489R	56J21-153	56E 60		158B
*	A 14W	56J21-154	56P01- 59	COARSE ALIGN MODE INDICATION TO AGC	159A
*	A 14R	56J21-155	56E 61		159B
	AA494L	56J21-156	56J18-L1	SHAFT CDU ENCODER + DELTA THETA	110A
	AA494R	56J21-157	56E 53	SHAFT CDU DAC LO	110B
*	AA 85W	56J21-158	56J12-D5	CDU FAIL	124A
*	AA 85R	56J21-159	56J12-F5	CDU FAIL RET	124B
	AA470R	56J21-160	56E 36	COMPUTER RET	135A
	AA470L	56J21-161	56J15-K6	- DELTA V Y	135B
*	AA529	56J21-162	56TB3-F19	AGC TEMP MONITOR NO 2	172
	AA492L	56J21-163	56J18-K2	SHAFT CDU + DELTA THETA COMMAND	116A
	AA492R	56J21-164	56E 52	SHAFT CDU DAC LO	116B
	AA483L	56J21-165	56J15-B7	MG CDU + DELTA THETA COMMAND	130A
	AA483R	56J21-166	56E 41	MG DAC MDA SIG LO	130B
*	AA134R	56J21-167	56E 33	0 VDC IMU	146A
*	AA134W	56J21-168	56J14-D5	+ DZ GYRO RATE	146B
	AA490L	56J21-169	56J12-G1	COMPUTER 25.6 KPPS IN PHASE SYNC	153A

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA490R	56J21-170	56E 29	COMPUTER 25.6 KPPS SYNC RET	153B
*	A 512	56J21-173	56J10- 56	GND	239
*	A 513	56J21-174	56J10- 55	+3 V B	240
*	A 495R	56J21-175	56J10- 74	OUT 0 2	215A
*	A 495W	56J21-176	56E 22		215B
*	A 501R	56J21-177	56J10- 62	OUT 0 9	222A
*	A 501W	56J21-178	56E 22		222B
*	A 485R	56J21-179	56J10- 40	ALARM 1	229A
*	A 485W	56J21-180	56E 23		229B
*	A 491R	56J21-181	56J10- 53	ALARM 8	236A
*	A 491W	56J21-182	56E 24		236B
*	A 514R	56J21-183	56J10- 35	KEY CODE 2	202A
*	A 514W	56J21-184	56E 25		202B
*	A 515R	56J21-185	56J10- 47	OR OF C1 THRU C33	210A
*	A 515W	56J21-186	56E 25		210B
	A 568	56J21-187	56E 64	GROUP 3 SHIELD	250
	AA488L	56J21-188	56J15-A3	MANUAL CDU MODE INDICATION TO AGC	160A
	AA488R	56J21-189	56E 59		160B
	AA499L	56J21-190	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA499R	56J21-191	56E 51	TRUNNION CDU DAC LO	109B
	AA478R	56J21-192	56J15-C6	MG ENCODER - DELTA THETA	123A
	AA478L	56J21-193	56E 40	MG DAC MDA SIG LO	123B
	AA469R	56J21-194	56E 36	COMPUTER RET	134A
	AA469L	56J21-195	56J15-L6	+ DELTA V Y	134B
*	AA530	56J21-196	56TB3-G19	AGC TEMP MONITOR NO 1	171
	AA497R	56J21-197	56J18-L3	TRUNNION CDU - DELTA THETA COMMAND	115A
	AA497L	56J21-198	56E 50	TRUNNION CDU DAC LO	115B
	AA482R	56J21-199	56J15-C5	IG CDU - DELTA THETA COMMAND	129A
	AA482L	56J21-200	56E 39	IG DAC MDA SIG LO	129B
*	AA132W	56J21-201	56E 33	0 VDC IMU	145A
*	AA132R	56J21-202	56J14-D4	- DY GYRO RATE	145B
	AA503R	56J21-203	56J11-L6	COMPUTER 3200 PPS OUT OF PHASE SYNC	152A
	AA503L	56J21-204	56E 28	COMPUTER 3200 PPS SYNC RET	152B
*	A 638	56J21-207	56P12-A	+28 VDC AGC BUSS B	168
*	A 642	56J21-208	56P12-J	0 VDC AGC	170
*	A 520	56J21-209	56J10- 75	SPARE	247
*	A 494R	56J21-210	56J10- 73	OUT 0 1	214A
*	A 494W	56J21-211	56E 22		214B
*	A 500R	56J21-212	56J10- 61	OUT 0 8	221A

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 433R	56J21- 87	56E 58		102B
*	A 434W	56J21- 88	56J09- 31	NOT MARK	103A
*	A 434R	56J21- 89	56E 58		103B
	AA468R	56J21- 92	56E 35	COMPUTER RET	133A
	AA468L	56J21- 93	56J15-M6	- DELTA V X	133B
	AA471R	56J21- 94	56E 37	COMPUTER RET	137A
	AA471L	56J21- 95	56J15-K4	- DELTA V Z	137B
*	AA525	56J21- 96	56TB3-M19	+3 VDC AGC	175
	AA484R	56J21- 97	56J15-C7	MG CDU - DELTA THETA COMMAND	131A
	AA484L	56J21- 98	56E 41	MG DAC MDA SIG LO	131B
	AA502W	56J21- 99	56J13-N6	PIPA SWITCHING PULSE	140A
	AA502R	56J21-100	56E 34	0 VDC IMU	140B
*	AA157R	56J21-101	56J15-R2	0 VDC IMU	148A
*	AA157W	56J21-102	56J15-P1	GYRO RESET PULSE	148B
	AA500R	56J21-103	56J17-R3	COMPUTER 12.8 KPPS SYNC	155A
	AA500L	56J21-104	56E 27	0 VDC IMU	155B
	A 571	56J21-107	56E 63	GROUP 2 SHIELD	245
*	A 477	56J21-108	56J10- 57	+13 V B	241
*	A 497R	56J21-109	56J10- 28	OUT 0 4	217A
*	A 497W	56J21-110	56E 22		217B
*	A 503R	56J21-111	56J10- 14	OUT 0 11	224A
*	A 503W	56J21-112	56E 23		224B
*	A 487R	56J21-113	56J10- 19	ALARM 3	231A
*	A 487W	56J21-114	56E 23		231B
*	A 493R	56J21-115	56J10- 64	ALARM 10	238A
*	A 493W	56J21-116	56E 24		238B
*	A 511R	56J21-117	56J10- 37	KEY CODE 4	204A
*	A 511W	56J21-118	56E 25		204B
	A 440W	56J21-119	56E 56	AGC COMMON	101A
	A 440R	56J21-120	56E 58		101B
	AA487L	56J21-121	56TB2-D 2	AGC COM	165A
	AA487R	56J21-122	56TB2-F 3		165B
	AA495L	56J21-123	56J18-K1	SHAFT CDU ENCODER - DELTA THETA	111A
	AA495R	56J21-124	56E 53	SHAFT CDU DAC LO	111B
	AA467R	56J21-125	56E 35	COMPUTER RET	132A
	AA467L	56J21-126	56J15-M5	+ DELTA V X	132B
	AA472R	56J21-127	56E 37	COMPUTER RET	136A
	AA472L	56J21-128	56J15-K5	+ DELTA V Z	136B
*	AA526	56J21-129	56TB3-D19	AGC TEMP MONITOR NO 3	173

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 500W	56J21-213	56E 22		221B
*	A 484R	56J21-214	56J10- 18	OUT 0 15	228A
*	A 484W	56J21-215	56E 23		228B
*	A 490R	56J21-216	56J10- 43	ALARM 7	235A
*	A 490W	56J21-217	56E 24		235B
*	A 516R	56J21-218	56J10- 34	KEY CODE 1	201A
*	A 516W	56J21-219	56E 25		201B
*	A 517R	56J21-220	56J10- 48	ERROR RESET	208A
*	A 517W	56J21-221	56E 25		208B
*	A 15W	56J21-222	56P01- 49	FINE ALIGN MODE INDICATION TO AGC	161A
*	A 15R	56J21-223	56E 61		161B
*	A 27W	56J21-224	56P01- 76	ATTIT CONT MODE INDICATION TO AGC	162A
*	A 27R	56J21-225	56E 61		162B
*	A 16W	56J21-226	56P01- 39	ENTRY MODE INDICATION TO AGC	163A
*	A 16R	56J21-227	56E 61		163B
*	A 156W	56J21-228	56J06- 69	TRANSFER SWITCH INDICATION TO AGC	164A
*	A 156R	56J21-229	56E 55		164B
	AA498L	56J21-230	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA	108A
	AA498R	56J21-231	56E 51	TRUNNION CDU DAC LO	108B
	AA477L	56J21-232	56J15-B6	MG ENCODER + DELTA THETA	122A
	AA477R	56J21-233	56E 40	MG DAC MDA SIG LO	122B
*	AA423	56J21-234	56J20-H4	+28 VDC AGC	166
	AA496L	56J21-235	56J18-K3	TRUNNION CDU + DELTA THETA COMMAND	114A
	AA496R	56J21-236	56E 50	TRUNNION CDU DAC LO	114B
	AA481L	56J21-237	56J15-B5	IG CDU + DELTA THETA COMMAND	128A
	AA481R	56J21-238	56E 39	IG DAC MDA SIG LO	128B
*	AA131W	56J21-239	56E 33	0 VDC IMU	144A
*	AA131R	56J21-240	56J14-D3	+ DY GYRO RATE	144B
	AA504R	56J21-241	56J11-M6	COMPUTER 3200 PPS IN PHASE SYNC	151A
	AA504L	56J21-242	56E 28	COMPUTER 3200 PPS SYNC RET	151B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 299R	56TB2-U 3	56P08-A	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 322R	56TB2-U 3	56P09- 56	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 597K	56TB2-U 3	56J09- 96	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	AA225W	56TB2-U 3	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 67W	56TB2-U 4	56J02- 86	COS AMG 16X TO CDU
*	AA231L	56TB2-U 4	56J16-G4	COS AMG 16X TO CDU
*	A 67R	56TB2-U 5	56J02-100	COS AMG 16X S3
*	A 219R	56TB2-U 5	56P02-G	COS AMG 16X S3
*	AA231W	56TB2-U 5	56J16-G3	COS AMG 16X S3
*	A 51R	56TB2-U 6	56J01-106	IG CDU MDA TACH SIG
*	AA197R	56TB2-U 6	56J16-A1	IG CDU MDA TACH SIG
*	A 233W	56TB2-U 7	56P03-G	SIN AOG 1X S2
*	A 359R	56TB2-U 7	56P09- 16	SIN AOG 1X S2
*	AA205W	56TB2-U 7	56J16-A8	SIN AOG 1X S2
*	AA505R	56TB2-U 7	56J22-107	SIN AOG 1X S2
*	A 88W	56TB2-U 8	56J03- 7	SIN AOG 1X S4
*	A 233R	56TB2-U 8	56P03-F	SIN AOG 1X S4
*	A 359W	56TB2-U 8	56P09- 17	SIN AOG 1X S4
*	AA205R	56TB2-U 8	56J16-A9	SIN AOG 1X S4
*	AA505L	56TB2-U 8	56J22-139	SIN AOG 1X S4
*	A 597W	56TB2-V 1	56J09- 38	SHAFT CDU MOTOR EXC
*	A 599R	56TB2-V 1	56J04- 3	SHAFT CDU MOTOR EXC
	A 91B	56TB2-V 2	SHLD A 91	0 VDC IMU
	A 218B	56TB2-V 2	SHLD A 218	0 VDC IMU
	AA540	56TB2-V 2	56TB2-V 3	0 VDC IMU
*	AA590	56TB2-V 2	56TB1-D 7	0 VDC IMU
	A 217B	56TB2-V 3	SHLD A 217	0 VDC IMU
	AA596	56TB2-V 3	56TB2-V 4	0 VDC IMU
*	AA540	56TB2-V 3	56TB2-V 2	0 VDC IMU
	A 90B	56TB2-V 4	SHLD A 90	0 VDC IMU
	AA597	56TB2-V 4	56TB2-V 5	0 VDC IMU
*	A 655	56TB2-V 4	56P11-E	0 VDC IMU
*	AA596	56TB2-V 4	56TB2-V 3	0 VDC IMU
	A 67B	56TB2-V 5	SHLD A 67	0 VDC IMU
	A 219B	56TB2-V 5	SHLD A 219	0 VDC IMU
	AA598	56TB2-V 5	56TB2-V 6	0 VDC IMU
*	AA597	56TB2-V 5	56TB2-V 4	0 VDC IMU
	A 43B	56TB2-V 6	SHLD A 43	0 VDC IMU
	A 225B	56TB2-V 6	SHLD A 225	0 VDC IMU

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR F	SHEET 98

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA599	56TB2-V 6	56TB2-V 8	0 VDC IMU
*	AA598	56TB2-V 6	56TB2-V 5	0 VDC IMU
	A 88B	56TB2-V 8	SHLD A 88	0 VDC IMU
	A 233B	56TB2-V 8	SHLD A 233	0 VDC IMU
	A 359B	56TB2-V 8	SHLD A 359	0 VDC IMU
	AA505B	56TB2-V 8	SHLD AA505	0 VDC IMU
*	AA599	56TB2-V 8	56TB2-V 6	0 VDC IMU
*	AA635	56TB2-V 8	56TB3-T 3	0 VDC IMU
*	A 55	56TB2-W 1	56J01- 34	IG CDU 1X RSVR LOAD S1
*	AA216	56TB2-W 1	56J16-F2	IG CDU 1X RSVR LOAD
*	A 91W	56TB2-W 2	56J03- 87	SIN AOG 16X S4
*	A 218W	56TB2-W 2	56P02-F	SIN AOG 16X S4
*	AA213R	56TB2-W 2	56J16-D9	SIN AOG 16X S4
*	A 217W	56TB2-W 3	56P02-D	COS AOG 16X S1
*	AA209R	56TB2-W 3	56J16-D7	COS AOG 16X S1
*	A 90R	56TB2-W 4	56J03-100	COS AOG 16X S3
*	A 217R	56TB2-W 4	56P02-C	COS AOG 16X S3
*	AA209W	56TB2-W 4	56J16-F7	COS AOG 16X S3
*	A 75R	56TB2-W 5	56J02-106	MG CDU MDA TACH SIG
*	AA202R	56TB2-W 5	56J16-A3	MG CDU MDA TACH SIG
*	A 43R	56TB2-W 6	56J01-100	COS AIG 16X S3
*	A 225R	56TB2-W 6	56P02-W	COS AIG 16X S3
*	AA230W	56TB2-W 6	56J16-G1	COS AIG 16X S3
*	A 43W	56TB2-W 7	56J01- 86	COS AIG 16X TO CDU
*	AA230L	56TB2-W 7	56J16-G2	COS AIG 16X TO CDU
*	A 79	56TB2-X 1	56J02- 34	MG CDU 1X RSVR LOAD
*	AA217	56TB2-X 1	56J16-F4	MG CDU 1X RSVR LOAD
*	A 91R	56TB2-X 2	56J03-101	SIN AOG 16X TO CDU
*	AA213L	56TB2-X 2	56J16-F9	SIN AOG 16X TO CDU
*	A 218R	56TB2-X 3	56P02-E	SIN AOG 16X S2
*	AA213W	56TB2-X 3	56J16-D8	SIN AOG 16X S2
*	A 90W	56TB2-X 4	56J03- 86	COS AOG 16X TO CDU
*	AA209L	56TB2-X 4	56J16-F8	COS AOG 16X TO CDU
*	A 75L	56TB2-X 5	56J02-105	MG CDU MDA SLEW SIG
*	AA202W	56TB2-X 5	56J16-A4	MG CDU MDA SLEW SIG
	A 75B	56TB2-X 6	SHLD A 75	MG CDU MDA INPUT RET
*	A 75W	56TB2-X 6	56J02- 92	MG CDU MDA INPUT RET
*	AA202L	56TB2-X 6	56J16-B3	MG CDU MDA INPUT RET
*	A 225W	56TB2-X 7	56P02-X	COS AIG 16X S1

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 366B	56TB2-S 2	SHLD A 366	OG CDU ERROR SIG RET
	AA578	56TB2-S 2	56TB2-R 2	OG CDU ERROR SIG RET
	A 89B	56TB2-S 3	SHLD A 89	OG CDU ERROR SIG RET
	A 338B	56TB2-S 3	SHLD A 338	OG CDU ERROR SIG RET
*	AA571A	56TB2-S 3	SHLD AA571	OG CDU ERROR SIG RET
*	AA615	56TB2-S 3	56TB2-R 3	OG CDU ERROR SIG RET
*	A 185	56TB2-S 4	56J08- 93	STEP-DOWN-R
*	A 411	56TB2-S 4	56J09- 93	STEP-DOWN-R
*	A 186	56TB2-S 5	56J08- 79	STEP-DOWN-C
*	A 412	56TB2-S 5	56J09- 79	STEP-DOWN-C
*	A 183	56TB2-S 6	56J08-106	STEP-UP-R
*	A 413	56TB2-S 6	56J09-106	STEP-UP-R
*	A 184	56TB2-S 7	56J08- 78	STEP-UP-C
*	A 414	56TB2-S 7	56J09- 78	STEP-UP-C
*	A 202	56TB2-S 8	56J08- 18	GIMBAL LOCK LIGHT HI
*	A 455	56TB2-S 8	56P10- 24	GIMBAL LOCK LIGHT HI
*	A 101	56TB2-T 1	56J03- 89	OG CDU 16X RSVR LOAD
*	AA219	56TB2-T 1	56J16-F5	OG CDU 16X RSVR LOAD
	AA621	56TB2-T 2	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 299W	56TB2-T 2	56P08-B	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 599W	56TB2-T 2	56J04- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 600W	56TB2-T 2	56J05- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	AA225R	56TB2-T 2	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 322W	56TB2-T 3	56P09- 57	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 598W	56TB2-T 3	56P05-E	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	AA621	56TB2-T 3	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 219W	56TB2-T 5	56P02-H	COS AMG 16X S1
*	AA231R	56TB2-T 5	56J16-H3	COS AMG 16X S1
*	A 51L	56TB2-T 6	56J01-105	IG CDU MDA SLEW SIG
*	AA197W	56TB2-T 6	56J16-A2	IG CDU MDA SLEW SIG
	A 51B	56TB2-T 7	SHLD A 51	IG CDU MDA INPUT RET
*	A 51W	56TB2-T 7	56J01- 92	IG CDU MDA INPUT RET
*	AA197L	56TB2-T 7	56J16-B1	IG CDU MDA INPUT RET
*	A 88R	56TB2-T 8	56J03- 21	SIN AOG 1X TO CDU
*	AA205L	56TB2-T 8	56J16-B9	SIN AOG 1X TO CDU
*	A 597R	56TB2-U 1	56J09- 49	TRUNNION CDU MOTOR EXC
*	A 600R	56TB2-U 1	56J05- 3	TRUNNION CDU MOTOR EXC
*	A 597L	56TB2-U 2	56J09- 82	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
*	A 598R	56TB2-U 2	56P05-D	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA230R	56TB2-X 7	56J16-H1	COS AIG 16X S1

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SCALE - NONE	REV LTR F	SHEET 100

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INCHES
0 1 2
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 388W	56J22-198	56J09- 20	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 393W	56J22-200	56J09- 40	0 VDC FROM NAA
*	AA292	56J22-206	56J17-M3	0 VDC SPACECRAFT
*	AA175	56J22-227	56J15-S3	LOCK CDU RELAY CONTROL
*	AA220	56J22-228	56J16-L1	FINE ALIGN RELAY CONTROL
*	A 389R	56J22-230	56J09- 16	ROLL ATTIT IMPULSE CONTR INPUT
*	A 387L	56J22-232	56J09- 5	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN
*	A 387W	56J22-233	56J09- 4	PITCH ATTIT IMPULSE CONTR OUTPUT UP
*	A 388R	56J22-235	56J09- 7	YAW ATTIT IMPULSE CONTR INPUT
*	A 393R	56J22-237	56J09- 41	+28 VDC FROM NAA
*	A 393L	56J22-238	56J09- 50	ATTITUDE DISABLE SIG TO NAA
*	AA293	56J22-243	56J17-L3	IMU TEMP LIGHT (MAIN PANEL)
*	AA 74	56J22-244	56J12-G3	ERROR DETECT LIGHT MAIN PANEL

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 150R	56P01- 1	56J06- 1	PITCH ATTITUDE ERROR METER +
*	A 150W	56P01- 2	56J06- 2	PITCH ATTITUDE ERROR METER -
	A 26	56P01- 4	56TB1-D 6	COARSE ALIGN RELAY CONTROL
	A 10	56P01- 5	56TB2-C 1	FINE ALIGN RELAY CONTROL
*	A 161	56P01- 6	56J06- 6	ENTRY RELAY CONTROL RESET
	A 21	56P01- 7	56TB3-S21	+28 VDC IMU
*	A 160	56P01- 9	56J06- 9	MODE SWITCH INTERLOCK
	A 19W	56P01- 10	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
	A 19R	56P01- 11	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
	A 8	56P01- 12	56TB2-B 2	ZERO ENCODER RELAY CONTROL
	A 5	56P01- 13	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC
*	A 151R	56P01- 14	56J06- 14	YAW ATTITUDE ERROR METER +
*	A 151W	56P01- 15	56J06- 15	YAW ATTITUDE ERROR METER -
*	A 157	56P01- 18	56J06- 18	MODE RELAY COMMON TO D AND C ELECT
*	A 175	56P01- 22	56J06- 22	ATTITUDE CONTROL MODE LIGHT
*	A 165	56P01- 23	56J06- 23	FINE ALIGN RELAY CONTROL
	A 12	56P01- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
*	A 167	56P01- 25	56J06- 25	ENTRY RELAY CONTROL
	A 22	56P01- 26	56TB1-U 2	IMU DELAY LIGHT HI
	A 6	56P01- 27	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC
*	A 152W	56P01- 28	56J06- 28	ROLL ATTITUDE ERROR METER -
*	A 152R	56P01- 29	56J06- 29	ROLL ATTITUDE ERROR METER +
*	A 162	56P01- 34	56J06- 34	ZERO ENCODER RELAY CONTROL
*	A 163	56P01- 35	56J06- 35	COARSE ALIGN RELAY CONTROL
*	A 164	56P01- 36	56J06- 36	CDU MANUAL RELAY CONTROL
	A 30	56P01- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL
	A 3	56P01- 38	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC
	A 16W	56P01- 39	56J21-226	ENTRY MODE INDICATION TO AGC 163A
	A 31	56P01- 45	56TB3-M 2	IMU TD RELAY C
*	A 177	56P01- 46	56J06- 46	ATTITUDE CONTROL MODE INTERLOCK
	A 4	56P01- 48	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC
	A 15W	56P01- 49	56J21-222	FINE ALIGN MODE INDICATION TO AGC 161A
	A 32	56P01- 55	56TB3-L 2	IMU TD RELAY NO
*	A 170	56P01- 56	56J06- 56	MANUAL ALIGN
	A 9	56P01- 57	56TB2-R 4	ENTRY RELAY CONTROL
	A 7	56P01- 58	56TB1-K 6	ENTRY MODE COMMAND FROM AGC
	A 14W	56P01- 59	56J21-154	COARSE ALIGN MODE INDICATION TO AGC 159A
	A 2	56P01- 65	56TB3-L 1	IRIG TEMP GAIN SWITCH NC
	A 13W	56P01- 68	56TB2-D 2	AGC COM

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA287L	56J22- 1	56J17-A3	ROLL ERROR BODY OFFSET AXIS HI
	AA287B	56J22- 2	SHLD AA287	
*	AA244L	56J22- 3	56J17-A4	ROLL ERROR BODY AXIS HI
*	AA244R	56J22- 4	56J17-B4	ROLL ERROR BODY AXIS LO
	AA245B	56J22- 5	SHLD AA245	
*	AA245L	56J22- 6	56J17-C4	YAW ERROR BODY AXIS HI
	AA246B	56J22- 8	SHLD AA246	
*	AA288R	56J22- 10	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA288B	56J22- 11	SHLD AA288	
*	A 197	56J22- 37	56J08- 54	MASTER ALARM LIGHT LO
*	A 196	56J22- 38	56J08- 53	MASTER ALARM LIGHT HI
*	AA287R	56J22- 39	56J17-B3	ROLL ERROR BODY OFFSET AXIS LO
	AA244B	56J22- 41	SHLD AA244	
*	AA245R	56J22- 43	56J17-D4	YAW ERROR BODY AXIS LO
*	AA246L	56J22- 45	56J17-C3	YAW ERROR BODY OFFSET AXIS HI
*	AA246R	56J22- 46	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	AA288L	56J22- 48	56J17-D1	PITCH ERROR BODY AND BODY OFFSET AXIS HI
*	A 207	56J22- 71	56J08- 32	MASTER WARNING LIGHT LO
*	A 206	56J22- 72	56J08- 43	MASTER WARNING LIGHT HI
	AA505R	56J22-107	56TB2-U 7	SIN AOG 1X S2
	AA507R	56J22-111	56TB3-C14	SIN AMG 1X
	AA508L	56J22-113	56TB3-N20	COS AMG 1X S3
	AA508R	56J22-114	56TB3-N21	COS AMG 1X S1
	AA509L	56J22-116	56TB3-D13	SIN AIG 1X RET
*	AA517R	56J22-120	56TB3-B19	800 CPS 28 V 1 PCT LO IMU
	AA505L	56J22-139	56TB2-U 8	SIN AOG 1X S4
	AA506L	56J22-141	56TB2-N 8	COS AOG 1X S3
	AA506R	56J22-142	56TB2-N 7	COS AOG 1X S1
	AA507L	56J22-144	56TB3-C13	SIN AMG 1X RET
	AA509R	56J22-148	56TB3-D14	SIN AIG 1X
	AA510L	56J22-150	56TB3-F13	COS AIG 1X RET
	AA510R	56J22-151	56TB3-F14	COS AIG 1X
*	AA517W	56J22-153	56TB3-B18	800 CPS 28 V 1 PCT HI IMU
*	A 461	56J22-171	56P10- 8	MAIN PANEL GIMBAL LOCK LIGHT
*	AA518	56J22-190	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
*	A 389L	56J22-192	56J09- 17	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT
*	A 389W	56J22-193	56J09- 3	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 387R	56J22-195	56J09- 18	PITCH ATTIT IMPULSE CONTR INPUT
*	A 388L	56J22-197	56J09- 6	YAW ATTIT IMPULSE CONTR OUTPUT LEFT

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
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REV LTR F
SHEET 65

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 11	56P01- 69	56TB2-B 1	LOCK CDU RELAY CONTROL
	A 24R	56P01- 70	56TB2-H 2	IG CDU 1X ERROR SIG
	A 24W	56P01- 71	56TB2-G 2	IG CDU ERROR SIG RET
	A 27W	56P01- 76	56J21-224	ATTIT CONT MODE INDICATION TO AGC 162A
	A 20	56P01- 78	56TB2-M 4	0 VDC IMU
*	A 176	56P01- 79	56J06- 79	ENTRY MODE LIGHT
	A 1R	56P01- 80	56TB2-A 2	PANEL BRIGHTNESS CONTROL
	A 25R	56P01- 82	56TB2-H 7	MG CDU 1X ERROR SIG
	A 25W	56P01- 83	56TB2-G 7	MG CDU ERROR SIG RET
	A 33	56P01- 84	56TB3-B20	STRUCTURE GND
	A 28	56P01- 88	56TB3-F 3	CONDITION LAMP TEST
	A 29	56P01- 89	56TB3-M21	+28 VDC MDV
	A 602K	56P01- 90	56TB1-M 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
	A 18	56P01- 91	56TB1-K 1	MODE LAMP TEST PWR
*	A 172	56P01- 92	56J06- 92	COARSE ALIGN MODE LIGHT
*	A 168	56P01- 93	56J06- 93	MODE RELAY COMMON
*	A 174	56P01- 94	56J06- 94	FINE ALIGN MODE LIGHT
	A 1W	56P01- 95	56TB2-A 1	PANEL BRIGHTNESS CONTROL
	A 23R	56P01- 96	56TB2-N 2	OG CDU 1X ERROR SIG
	A 23W	56P01- 97	56TB2-R 2	OG CDU ERROR SIG RET
	A 602R	56P01-103	56TB1-R 1	400 CPS VAR ILLUM PWR
*	A 171	56P01-104	56J06-104	ZERO ENCODER MODE LIGHT
*	A 173	56P01-105	56J06-105	CDU MANUAL MODE LIGHT
	A 602L	56P01-106	56TB1-N 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
	A 602W	56P01-108	56TB1-T 1	400 CPS VAR ILLUM PWR

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INCHES
0 1 2
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA620	56TB3-B20	56E 69	STRUCTURE GND
*	A 33	56TB3-B20	56P01- 84	STRUCTURE GND
	AA614	56TB3-B21	56TB3-F21	STRUCTURE GND
*	A 178	56TB3-B21	56J06- 91	STRUCTURE GND
*	A 215	56TB3-B21	56J08- 29	STRUCTURE GND
*	AA613	56TB3-B21	56TB3-B20	STRUCTURE GND
*	A 396	56TB3-C 1	56J09- 98	ACCEL BRIDGE AMP PIN 6
*	AA257	56TB3-C 1	56J17-F7	ACCEL BRIDGE AMP PIN 6
*	A 281R	56TB3-C 2	56P06-F*	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA250R	56TB3-C 2	56J17-P4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 281W	56TB3-C 3	56P06-G*	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 320W	56TB3-C 3	56P09- 34	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 567W	56TB3-C 3	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	AA412R	56TB3-C 3	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A. 370	56TB3-C 4	56P09- 73	BLOWER CURRENT SENSOR (TELEMETERY)
*	AA271	56TB3-C 4	56J17-F6	BLOWER CURRENT SENSOR (TELEMETERY)
*	A 368	56TB3-C 5	56P09- 85	IRIG TEMP (TELEMETRY)
*	AA273	56TB3-C 5	56J17-F4	IRIG TEMP (TELEMETRY)
*	A 209R	56TB3-C 6	56J08- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 448R	56TB3-C 6	56J09- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 373W	56TB3-C 7	56P09-101	DIRECT TRUNNION CONTROLLER LO (TEST)
*	AA340W	56TB3-C 7	56J18-M1	DIRECT TRUNNION CONTROLLER LO (TEST)
*	A 383W	56TB3-C 8	56P09- 99	TRUNNION CDU MDA LO (TEST)
*	AA341W	56TB3-C 8	56J18-M3	TRUNNION CDU MDA LO (TEST)
*	A 375R	56TB3-C 9	56P09- 90	SXT TRUNNION MDA OUTPUT HI (TEST)
*	AA391R	56TB3-C 9	56J19-L1	SXT TRUNNION MDA OUTPUT HI (TEST)
*	A 375W	56TB3-C10	56P09-103	SXT TRUNNION MDA OUTPUT LO (TEST)
*	AA391W	56TB3-C10	56J19-K1	SXT TRUNNION MDA OUTPUT LO (TEST)
*	A 122W	56TB3-C11	56J04- 32	SHAFT CDU MOTOR CONTROL WINDING
*	AA321	56TB3-C11	56J18-R2	SHAFT CDU MOTOR CONTROL WINDING
*	A 145W	56TB3-C12	56J05- 32	TRUNNION CDU MOTOR CONTROL WINDING
*	AA320	56TB3-C12	56J18-R1	TRUNNION CDU MOTOR CONTROL WINDING
*	A 65R	56TB3-C13	56J02- 21	SIN AMG 1X RET
*	A 222W	56TB3-C13	56P02-N	SIN AMG 1X RET S2
*	A 357R	56TB3-C13	56P09- 15	SIN AMG 1X RET
*	AA507L	56TB3-C13	56J22-144	SIN AMG 1X RET
*	A 65W	56TB3-C14	56J02- 7	SIN AMG 1X
*	A 222R	56TB3-C14	56P02-P	SIN AMG 1X S4
*	A 357W	56TB3-C14	56P09- 29	SIN AMG 1X

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA507R	56TB3-C14	56J22-111	SIN AMG 1X
	AA609	56TB3-C15	56TB3-D15	0 VDC OPTICS
*	A 595	56TB3-C15	56TB3-K20	0 VDC OPTICS
*	A 596	56TB3-C15	56TB3-K22	0 VDC OPTICS
*	A 646	56TB3-C15	56P12-G	0 VDC OPTICS
*	AA514	56TB3-C15	56TB3-B15	0 VDC OPTICS
*	AA566	56TB3-C15	56TB3-K21	0 VDC OPTICS
*	A 300L	56TB3-C16	56P08-G	SCT TRUNNION MOTOR CONTROL WINDING BLK
*	A 376W	56TB3-C16	56P09- 92	SCT TRUNNION MOTOR CONTROL WINDING
*	AA360W	56TB3-C16	56J19-T3	SCT TRUNNION MOTOR CONTROL WINDING
*	A 300W	56TB3-C17	56P08-E	SCT TRUNNION MOTOR CONTROL WINDING RED
*	A 376R	56TB3-C17	56P09- 91	SCT TRUNNION MOTOR CONTROL WINDING
*	AA360R	56TB3-C17	56J19-T2	SCT TRUNNION MOTOR CONTROL WINDING
*	A 246R	56TB3-C18	56P05-P	+28 VDC OPTICS
*	A 259R	56TB3-C18	56P05-B	+28 VDC OPTICS
*	AA515	56TB3-C18	56TB3-M20	+28 VDC OPTICS
*	A 300R	56TB3-C19	56P08-F	+28 VDC OPTICS
*	A 308R	56TB3-C19	56P08-H	+28 VDC OPTICS
*	AA558	56TB3-C19	56TB3-M20	+28 VDC OPTICS
*	A 609	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	A 610	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	A 611	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	AA428	56TB3-C20	56J20-N1	+28 VDC IMU BUSS A
*	AA622	56TB3-C20	56J20-R1	+28 VDC IMU BUSS A
*	A 612	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	A 613	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	A 614	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	AA432	56TB3-C21	56J20-S1	+28 VDC IMU BUSS A
*	AA623	56TB3-C21	56J20-P1	+28 VDC IMU BUSS A
*	A 621	56TB3-C22	56P12-M	+28 VDC STBY BUSS B
*	A 622	56TB3-C22	56P12-M	+28 VDC STBY BUSS B
*	AA443	56TB3-C22	56J20-R4	+28 VDC STBY BUSS B
*	AA627	56TB3-C22	56J20-S4	+28 VDC STBY BUSS B
*	A 439	56TB3-D 1	56J09- 94	0 VDC IMU
*	AA264	56TB3-D 1	56J17-M1	0 VDC IMU
*	A 320R	56TB3-D 2	56P09- 22	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 567R	56TB3-D 2	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA250W	56TB3-D 2	56J17-R4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA412W	56TB3-D 2	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 200	56TB3-B 3	56J08- 72	CDU FAIL LIGHT HI	
*	A 335	56TB3-B 3	56P09- 47	CDU FAIL LIGHT HI	
*	A 474R	56TB3-B 3	56J10- 4	CDU FAIL LIGHT HI	302
*	A 203	56TB3-B 4	56J08- 41	ZERO ENCODER LIGHT HI	
*	A 346	56TB3-B 4	56P09- 35	ZERO ENCODER LIGHT HI	
*	A 474W	56TB3-B 4	56J10- 3	ZERO ENCODER LIGHT HI	301
*	A 190	56TB3-B 5	56J08- 73	ACCEL FAIL LIGHT HI	
*	A 333	56TB3-B 5	56P09- 49	ACCEL FAIL LIGHT HI	
*	A 474L	56TB3-B 5	56J10- 5	ACCEL FAIL LIGHT HI	303
*	A 209W	56TB3-B 6	56J08- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 448W	56TB3-B 6	56J09- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 374R	56TB3-B 7	56P09- 89	DIRECT SHAFT CONTROLLER HI (TEST)	
*	AA342R	56TB3-B 7	56J18-N4	DIRECT SHAFT CONTROLLER HI (TEST)	
*	A 374W	56TB3-B 8	56P09-102	DIRECT SHAFT CONTROLLER LO (TEST)	
*	AA342W	56TB3-B 8	56J18-M4	DIRECT SHAFT CONTROLLER LO (TEST)	
*	A 377R	56TB3-B 9	56P09-104	SXT SHAFT MDA OUTPUT HI (TEST)	
*	AA392R	56TB3-B 9	56J19-L3	SXT SHAFT MDA OUTPUT HI (TEST)	
*	A 377W	56TB3-B10	56P09-105	SXT SHAFT MDA OUTPUT LO (TEST)	
*	AA392W	56TB3-B10	56J19-K3	SXT SHAFT MDA OUTPUT LO (TEST)	
*	A 394	56TB3-B11	56J09- 72	ZERO OPTICS RELAY CONTROL	
*	AA337	56TB3-B11	56J18-R4	ZERO OPTICS RELAY CONTROL	
*	A 182W	56TB3-B12	56J08- 81	400 CPS 26 V SLEW	
*	A 409W	56TB3-B12	56J09- 81	400 CPS 26 V SLEW	
*	A 182R	56TB3-B13	56J08- 68	400 CPS 26 V MDV RSVR EXC	
*	A 409R	56TB3-B13	56J09- 68	400 CPS 26 V MDV RSVR EXC	
*	A 199	56TB3-B14	56J08- 95	400 CPS 26 V LO	
*	A 460	56TB3-B14	56P10- 49	400 CPS 26 V LO	
	A 664	56TB3-B15	56TB3-T15	0 VDC OPTICS	
	AA514	56TB3-B15	56TB3-C15	0 VDC OPTICS	
*	AA538	56TB3-B15	56TB3-G 9	0 VDC OPTICS	
	AA517W	56TB3-B18	56J22-153	800 CPS 28 V 1 PCT HI IMU	
*	A 318R	56TB3-B18	56P09- 9	800 CPS 28 V 1 PCT HI IMU	
*	AA410W	56TB3-B18	56J20-F5	800 CPS 28 V 1 PCT HI IMU	
	AA517R	56TB3-B19	56J22-120	800 CPS 28 V 1 PCT LO IMU	
*	A 318W	56TB3-B19	56P09- 8	800 CPS 28 V 1 PCT LO IMU	
*	AA410R	56TB3-B19	56J20-F6	800 CPS 28 V 1 PCT LO IMU	
	A 548	56TB3-B20	56E 12	STRUCTURE GND	
	AA613	56TB3-B20	56TB3-B21	STRUCTURE GND	
	AA619	56TB3-B20	56E 68	STRUCTURE GND	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 192	56TB3-D 3	56J08- 62	IMU TEMP CONT FAIL LIGHT HI
*	A 344	56TB3-D 3	56P09- 11	IMU TEMP CONT FAIL LIGHT HI
*	AA275	56TB3-D 3	56J17-P5	IMU TEMP CONT FAIL LIGHT HI
*	A 367	56TB3-D 4	56P09- 98	ACCEL TEMP (TELEMETRY)
*	AA272	56TB3-D 4	56J17-F5	ACCEL TEMP (TELEMETRY)
*	A 369	56TB3-D 5	56P09- 97	HTR CURRENT (TELEMETERY)
*	AA274	56TB3-D 5	56J17-F3	HTR CURRENT (TELEMETRY)
*	A 373R	56TB3-D 7	56P09-100	DIRECT TRUNNION CONTROLLER HI (TEST)
*	AA340R	56TB3-D 7	56J18-N1	DIRECT TRUNNION CONTROLLER HI (TEST)
*	A 383R	56TB3-D 8	56P09- 86	TRUNNION CDU MDA HI (TEST)
*	AA341R	56TB3-D 8	56J18-N3	TRUNNION CDU MDA HI (TEST)
*	A 372R	56TB3-D 9	56P09- 87	SHAFT CDU MDA (TEST) HI
*	AA343R	56TB3-D 9	56J18-N6	SHAFT CDU MDA (TEST) HI
*	A 372W	56TB3-D10	56P09- 88	SHAFT CDU MDA (TEST) LO
*	AA343W	56TB3-D10	56J18-M6	SHAFT CDU MDA (TEST) LO
*	A 122L	56TB3-D11	56J04- 31	SHAFT CDU MOTOR CONTROL WINDING
*	AA322	56TB3-D11	56J18-P2	SHAFT CDU MOTOR CONTROL WINDING
*	A 145L	56TB3-D12	56J05- 31	TRUNNION CDU MOTOR CONTROL WINDING
*	AA319	56TB3-D12	56J18-P1	TRUNNION CDU MOTOR CONTROL WINDING
*	A 41R	56TB3-D13	56J01- 21	SIN AIG 1X RET P4
*	A 228R	56TB3-D13	56P02-F*	SIN AIG 1X RET S2
*	A 355R	56TB3-D13	56P09- 1	SIN AIG 1X RET
*	AA509L	56TB3-D13	56J22-116	SIN AIG 1X RET
*	A 41W	56TB3-D14	56J01- 7	SIN AIG 1X P2
*	A 228W	56TB3-D14	56P02-G*	SIN AIG 1X S4
*	A 355W	56TB3-D14	56P09- 14	SIN AIG 1X
*	AA509R	56TB3-D14	56J22-148	SIN AIG 1X
	A 593	56TB3-D15	56TB3-L20	0 VDC OPTICS
	AA630	56TB3-D15	56TB3-G15	0 VDC OPTICS
*	A 594	56TB3-D15	56TB3-L22	0 VDC OPTICS
*	A 643	56TB3-D15	56P11-G	0 VDC OPTICS
*	AA563	56TB3-D15	56TB3-L21	0 VDC OPTICS
*	AA609	56TB3-D15	56TB3-C15	0 VDC OPTICS
*	A 246L	56TB3-D16	56P05-J*	SXT TRUNNION MOTOR CONTROL WINDING BLK
*	AA358W	56TB3-D16	56J19-S3	SXT TRUNNION MOTOR CONTROL WINDING
*	A 246W	56TB3-D17	56P05-I*	SXT TRUNNION MOTOR CONTROL WINDING RED
*	AA358R	56TB3-D17	56J19-S2	SXT TRUNNION MOTOR CONTROL WINDING
*	A 259W	56TB3-D18	56P05-A	SXT SHAFT MOTOR CONTROL WINDING RED
*	AA359R	56TB3-D18	56J19-P1	SXT SHAFT MOTOR CONTROL WINDING

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 229W	56P03-A	56TB1-C 7	X GYRO ERROR SIG
A 239W	56P03-A*	56TB1-A 3	MG TORQUE MOTOR RET
A 230W	56P03-B	56TB1-C 8	Z GYRO ERROR SIG
A 240R	56P03-B*	56TB1-A 3	MG TORQUE MOTOR RET
A 231R	56P03-C	56TB1-A 8	IMU OG ERROR SIG
A 240W	56P03-C*	56TB1-A 4	MG TORQUE MOTOR HI
A 232R	56P03-D	56TB2-N 8	COS AOG 1X S3
A 241R	56P03-D*	56TB1-D 3	IG TORQUE MOTOR HI
A 232W	56P03-E	56TB2-N 7	COS AOG 1X S1
A 241W	56P03-E*	56TB1-D 4	IG TORQUE MOTOR RET
A 233R	56P03-F	56TB2-U 8	SIN AOG 1X S4
A 242R	56P03-F*	56TB1-D 4	IG TORQUE MOTOR RET
A 233W	56P03-G	56TB2-U 7	SIN AOG 1X S2
A 242W	56P03-G*	56TB1-D 3	IG TORQUE MOTOR HI
A 234W	56P03-H	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR
A 244	56P03-H*	56TB3-T20	+28 VDC IMU
A 234R	56P03-J	56TB1-B 5	IG CDU ERROR SIG RET
A 243	56P03-J*	56TB3-F 5	GIMBAL LOCK SIGNAL
A 235R	56P03-K	56TB1-A 6	MG CDU ERROR SIG RET
A 235W	56P03-L	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR
A 236W	56P03-M	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
A 236R	56P03-N	56TB3-R 4	PITCH YAW RSVR S3
A 237W	56P03-P	56TB3-M13	PITCH ERROR BODY AND BODY OFFSET AXIS LO
A 237R	56P03-R	56TB3-M14	PITCH-YAW RSVR S4
A 231L	56P03-U	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 231W	56P03-V	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 231K	56P03-W	56TB1-A 7	IMU MG ERROR SIG
A 238R	56P03-X	56TB1-B 2	OG TORQUE MOTOR RET
A 238W	56P03-Y	56TB1-A 2	OG TORQUE MOTOR HI
A 239R	56P03-Z	56TB1-A 4	MG TORQUE MOTOR HI

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 268W	56P04-A	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
*	A 268R	56P04-C	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
*	A 251W	56P04-F	56P05-FF	AS 16X RSVR P4 TRIM
*	A 251R	56P04-H	56P05-EE	AS 16X RSVR P2 TRIM
*	A 267W	56P04-J	56P05-W	AT 64X RSVR P4 TRIM
*	A 267R	56P04-K	56P05-X	AT 64X RSVR P2 TRIM

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 216R	56P02-A	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
A 227R	56P02-A*	56TB3-F14	COS AIG 1X S3
A 216W	56P02-B	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
A 227W	56P02-B*	56TB3-F13	COS AIG 1X RET S1
A 217R	56P02-C	56TB2-W 4	COS AOG 16X S3
A 217W	56P02-D	56TB2-W 3	COS AOG 16X S1
A 218R	56P02-E	56TB2-X 3	SIN AOG 16X S2
A 218W	56P02-F	56TB2-W 2	SIN AOG 16X S4
A 228R	56P02-F*	56TB3-D13	SIN AIG 1X RET S2
A 219R	56P02-G	56TB2-U 5	COS AMG 16X S3
A 228W	56P02-G*	56TB3-D14	SIN AIG 1X S4
A 219W	56P02-H	56TB2-T 5	COS AMG 16X S1
A 220R	56P02-J	56TB2-A 7	SIN AMG 16X S2
A 220W	56P02-K	56TB2-B 7	SIN AMG 16X S4
A 221R	56P02-L	56TB3-N20	COS AMG 1X S3
A 221W	56P02-M	56TB3-N21	COS AMG 1X S1
A 222W	56P02-N	56TB3-C13	SIN AMG 1X RET S2
A 222R	56P02-P	56TB3-C14	SIN AMG 1X S4
A 223R	56P02-R	56TB1-D 2	3200 CPS 2 V HI
A 223W	56P02-S	56TB1-C 2	3200 CPS 2 V LO
A 224R	56P02-T	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
A 224W	56P02-U	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
A 225R	56P02-W	56TB2-W 6	COS AIG 16X S3
A 225W	56P02-X	56TB2-X 7	COS AIG 16X S1
A 226R	56P02-Y	56TB2-A 8	SIN AIG 16X S2
A 226W	56P02-Z	56TB2-B 8	SIN AIG 16X S4

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 259W	56P05-A	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING RED
	A 253R	56P05-A*	56TB3-S 8	SXT AT 64X RSVR COS HI
	A 264	56P05-AA	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
	A 259R	56P05-B	56TB3-C18	+28 VDC OPTICS
	A 253W	56P05-B*	56TB3-S 7	SXT AT 64X RSVR COS LO
	A 263W	56P05-BB	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
	A 259L	56P05-C	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING BLK
	A 254R	56P05-C*	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
	A 265R	56P05-CC	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
*	A 247R	56P05-CC	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
	A 598R	56P05-D	56TB2-U 2	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
	A 254W	56P05-D*	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
	A 265W	56P05-DD	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
*	A 247W	56P05-DD	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
	A 598W	56P05-E	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	A 255R	56P05-E*	56TB3-G16	TRUNNION CDU 1/4X COS LO
	A 251R	56P05-EE	56P04-H	AS 16X RSVR P2 TRIM
	A 255W	56P05-F*	56TB3-F16	TRUNNION CDU 1/4X COS HI
	A 251W	56P05-FF	56P04-F	AS 16X RSVR P4 TRIM
	A 256R	56P05-G*	56TB3-G10	TRUNNION CDU 1/4X SIN HI
	A 256W	56P05-H*	56TB3-F10	TRUNNION CDU 1/4X SIN LO
	A 263R	56P05-HH	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
	A 246W	56P05-I*	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING RED
	A 247W	56P05-J	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
	A 268R	56P05-J	56P04-C	800 CPS 28 V 1 PCT LO OPTICS
	A 246L	56P05-J*	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING BLK
	A 247R	56P05-K	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS
	A 268W	56P05-K	56P04-A	800 CPS 28 V 1 PCT HI OPTICS
	A 257R	56P05-K*	56TB3-T16	SXT TRUNNION TACH HI
	A 266R	56P05-L	56TB1-T 1	400 CPS VAR ILLUM PWR
	A 266W	56P05-M	56TB1-T 2	400 CPS 6 V LO
	A 257W	56P05-M*	56TB3-T17	SXT TRUNNION TACH LO
	A 248R	56P05-N*	56TB3-R 8	SXT AS 16X RSVR SIN HI
	A 246R	56P05-P	56TB3-C18	+28 VDC OPTICS
	A 248W	56P05-P*	56TB3-R 7	SXT AS 16X RSVR SIN LO
	A 258R	56P05-Q*	56TB3-R10	SXT AS 16X RSVR COS LO
	A 270	56P05-R	56TB3-F21	STRUCTURE GND
	A 258W	56P05-R*	56TB3-R11	SXT AS 16X RSVR COS HI
	A 249	56P05-S	56TB3-K21	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA336W	56TB3-F11	56J18-F6	SHAFT CDU MDA CONTROLLER SIG HI	
	A 427B	56TB3-F12	SHLD A 427	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 427W	56TB3-F12	56J09- 34	SHAFT CDU MDA CONTROLLER SIG LO	
*	AA336R	56TB3-F12	56J18-F7	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 40W	56TB3-F13	56J01- 6	COS AIG 1X RET P1	
*	A 227W	56TB3-F13	56P02-B*	COS AIG 1X RET S1	
*	A 356R	56TB3-F13	56P09- 2	COS AIG 1X RET	
*	AA510L	56TB3-F13	56J22-150	COS AIG 1X RET	
*	A 40R	56TB3-F14	56J01- 20	COS AIG 1X P3	
*	A 227R	56TB3-F14	56P02-A*	COS AIG 1X S3	
*	A 356W	56TB3-F14	56P09- 3	COS AIG 1X	
*	AA510R	56TB3-F14	56J22-151	COS AIG 1X	
*	A 131R	56TB3-F16	56J05- 9	TRUNNION CDU 1/4X COS HI	
*	A 255W	56TB3-F16	56P05-F*	TRUNNION CDU 1/4X COS HI	
*	AA381W	56TB3-F16	56J19-F5	TRUNNION CDU 1/4X COS HI	
*	A 308L	56TB3-F17	56P08-D*	SCT SHAFT MOTOR CONTROL WINDING BLK	
*	A 378W	56TB3-F17	56P09- 77	SCT SHAFT MOTOR CONTROL WINDING	
*	AA361W	56TB3-F17	56J19-R2	SCT SHAFT MOTOR CONTROL WINDING	
*	A 259L	56TB3-F18	56P05-C	SXT SHAFT MOTOR CONTROL WINDING BLK	
*	AA359W	56TB3-F18	56J19-R1	SXT SHAFT MOTOR CONTROL WINDING	
	AA529	56TB3-F19	56J21-162	AGC TEMP MONITOR NO 2	172
*	A 371R	56TB3-F19	56P09- 74	AGC TEMP MONITOR NO 2	
*	AA417	56TB3-F19	56J20-A2	AGC TEMP MONITOR NO 2	
*	A 270	56TB3-F21	56P05-R	STRUCTURE GND	
*	A 288	56TB3-F21	56P06-G	STRUCTURE GND	
*	A 631	56TB3-F21	56P11-L	STRUCTURE GND	
*	AA607	56TB3-F21	56TB3-F22	STRUCTURE GND	
*	AA614	56TB3-F21	56TB3-B21	STRUCTURE GND	
	AA607	56TB3-F22	56TB3-F21	STRUCTURE GND	
*	A 316	56TB3-F22	56P08-T*	STRUCTURE GND	
*	A 451	56TB3-F22	56J09- 91	STRUCTURE GND	
*	A 632	56TB3-F22	56P12-L	STRUCTURE GND	
*	AA462	56TB3-F22	56J20-G4	STRUCTURE GND	
*	A 401R	56TB3-G 1	56J09-100	IMU HTR CURRENT AMP PIN 5	
*	AA258K	56TB3-G 1	56J17-N6	IMU HTR CURRENT AMP PIN 5	
*	A 401K	56TB3-G 2	56J09- 88	IMU TEMP CONT K2 PIN 5	
*	AA258L	56TB3-G 2	56J17-N5	IMU TEMP CONT K2 PIN 5	
*	A 443	56TB3-G 3	56J09- 89	IRIG ZERO DEVIATION CHECK	
*	AA253	56TB3-G 3	56J17-B8	IRIG ZERO DEVIATION CHECK	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 442	56TB3-G 4	56J09- 85	IRIG TEMP BRIDGE AMP PIN 6	
*	AA254	56TB3-G 4	56J17-C7	IRIG TEMP BRIDGE AMP PIN 6	
*	A 274	56TB3-G 5	56P06-K	IMU TEMP SENSOR COM	
*	AA277	56TB3-G 5	56J17-M2	IMU TEMP SENSOR COM	
*	A 421R	56TB3-G 7	56J09- 56	TRUNNION CDU DAC OUTPUT HI	
*	AA344W	56TB3-G 7	56J18-G3	TRUNNION CDU DAC OUTPUT HI	
*	A 422R	56TB3-G 8	56J09- 48	SHAFT CDU DAC OUTPUT HI	
*	AA345W	56TB3-G 8	56J18-G2	SHAFT CDU DAC OUTPUT HI	
	A 130B	56TB3-G 9	SHLD A 130	0 VDC OPTICS	
	A 256B	56TB3-G 9	SHLD A 256	0 VDC OPTICS	
	AA538	56TB3-G 9	56TB3-B15	0 VDC OPTICS	
	AA541	56TB3-G 9	56TB3-H 9	0 VDC OPTICS	
*	A 130R	56TB3-G10	56J05- 8	TRUNNION CDU 1/4X SIN HI	
*	A 256R	56TB3-G10	56P05-G*	TRUNNION CDU 1/4X SIN HI	
*	AA330W	56TB3-G10	56J18-F1	TRUNNION CDU 1/4X SIN HI	
*	A 426R	56TB3-G11	56J09- 19	TRUNNION CDU MDA CONTROLLER SIG HI	
*	AA335W	56TB3-G11	56J18-C7	TRUNNION CDU MDA CONTROLLER SIG HI	
	A 426B	56TB3-G12	SHLD A 426	TRUNNION CDU MDA CONTROLLER SIG LO	
*	A 426W	56TB3-G12	56J09- 33	TRUNNION CDU MDA CONTROLLER SIG LO	
*	AA335R	56TB3-G12	56J18-D7	TRUNNION CDU MDA CONTROLLER SIG LO	
*	A 111W	56TB3-G13	56J04- 21	SHAFT CDU 1X SIN OUTPUT LO	
*	AA334R	56TB3-G13	56J18-D6	SHAFT CDU 1X SIN OUTPUT LO	
*	A 111R	56TB3-G14	56J04- 7	SHAFT CDU 1X SIN OUTPUT HI	
*	AA334W	56TB3-G14	56J18-C6	SHAFT CDU 1X SIN OUTPUT HI	
	A 111B	56TB3-G15	SHLD A 111	0 VDC OPTICS	
	AA550	56TB3-G15	56TB3-H15	0 VDC OPTICS	
*	AA630	56TB3-G15	56TB3-D15	0 VDC OPTICS	
*	A 131W	56TB3-G16	56J05- 10	TRUNNION CDU 1/4X COS LO	
*	A 255R	56TB3-G16	56P05-E*	TRUNNION CDU 1/4X COS LO	
*	AA381R	56TB3-G16	56J19-F6	TRUNNION CDU 1/4X COS LO	
*	A 308W	56TB3-G17	56P08-C*	SCT SHAFT MOTOR CONTROL WINDING RED	
*	A 378R	56TB3-G17	56P09- 76	SCT SHAFT MOTOR CONTROL WINDING	
*	AA361R	56TB3-G17	56J19-P2	SCT SHAFT MOTOR CONTROL WINDING	
*	A 404	56TB3-G18	56J09- 59	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
*	AA387	56TB3-G18	56J19-M6	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
	AA530	56TB3-G19	56J21-196	AGC TEMP MONITOR NO 1	171
*	A 371L	56TB3-G19	56P09- 64	AGC TEMP MONITOR NO 1	
*	AA416	56TB3-G19	56J20-A1	AGC TEMP MONITOR NO 1	
*	A 633	56TB3-G21	56P11-A	+28 VDC AGC BUSS A	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA526	56TB3-D19	56J21-129	AGC TEMP MONITOR NO 3	173
*	A 371W	56TB3-D19	56P09- 75	AGC TEMP MONITOR NO 3	
*	AA418	56TB3-D19	56J20-B1	AGC TEMP MONITOR NO 3	
*	A 615	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	A 616	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	A 617	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	AA433	56TB3-D20	56J20-N2	+28 VDC IMU BUSS B	
*	AA624	56TB3-D20	56J20-R2	+28 VDC IMU BUSS B	
*	A 618	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	A 619	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	A 620	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	AA437	56TB3-D21	56J20-S2	+28 VDC IMU BUSS B	
*	AA625	56TB3-D21	56J20-P2	+28 VDC IMU BUSS B	
*	A 623	56TB3-D22	56P11-M	+28 VDC STBY BUSS A	
*	A 624	56TB3-D22	56P11-M	+28 VDC STBY BUSS A	
*	AA441	56TB3-D22	56J20-R3	+28 VDC STBY BUSS A	
*	AA626	56TB3-D22	56J20-S3	+28 VDC STBY BUSS A	
*	A 462	56TB3-F 1	56P10- 9	0 VDC SPACECRAFT	
*	AA278	56TB3-F 1	56J17-M3	0 VDC SPACECRAFT	
*	A 28	56TB3-F 3	56P01- 88	CONDITION LAMP TEST	
*	A 390	56TB3-F 3	56J09- 73	CONDITION LAMP TEST	
*	A 464	56TB3-F 3	56J10- 2	CONDITION LAMP TEST	328
*	AA235	56TB3-F 3	56J17-P6	CONDITION LAMP TEST	
	AA518	56TB3-F 4	56J22-190	ATTITUDE CONTROL RELAY CONTROL	
*	A 12	56TB3-F 4	56P01- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 166	56TB3-F 4	56J06- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 243	56TB3-F 5	56P03-J*	GIMBAL LOCK SIGNAL	
*	A 342	56TB3-F 5	56P09- 10	GIMBAL LOCK SIGNAL	
*	A 454	56TB3-F 5	56P10- 12	GIMBAL LOCK SIGNAL	
	A 421B	56TB3-F 7	SHLD A 421	TRUNNION CDU DAC LO	
*	A 421W	56TB3-F 7	56J09- 47	TRUNNION CDU DAC LO	
*	AA344R	56TB3-F 7	56J18-H3	TRUNNION CDU DAC LO	
	A 422B	56TB3-F 8	SHLD A 422	SHAFT CDU DAC LO	
*	A 422W	56TB3-F 8	56J09- 57	SHAFT CDU DAC LO	
*	AA345R	56TB3-F 8	56J18-H2	SHAFT CDU DAC LO	
*	A 130W	56TB3-F10	56J05- 22	TRUNNION CDU 1/4X SIN LO	
*	A 256W	56TB3-F10	56P05-H*	TRUNNION CDU 1/4X SIN LO	
*	AA330R	56TB3-F10	56J18-F2	TRUNNION CDU 1/4X SIN LO	
*	A 427R	56TB3-F11	56J09- 35	SHAFT CDU MDA CONTROLLER SIG HI	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA420	56TB3-G21	56J20-K5	+28 VDC AGC BUSS A
*	A 636	56TB3-G22	56P12-A	+28 VDC AGC BUSS B
*	AA421	56TB3-G22	56J20-K6	+28 VDC AGC BUSS B
*	A 401L	56TB3-H 1	56J09- 87	IMU TEMP CONT AMP PIN 5
*	AA258R	56TB3-H 1	56J17-M6	IMU TEMP CONT AMP PIN 5
*	A 401W	56TB3-H 2	56J09-101	IMU TEMP CONT K1 PIN 3
*	AA258W	56TB3-H 2	56J17-M5	IMU TEMP CONT K1 PIN 3
*	A 399	56TB3-H 3	56J09-102	IMU TEMP CONT -5 DEG GAIN CHECK
*	AA252	56TB3-H 3	56J17-B7	IMU TEMP CONT -5 DEG GAIN CHECK
*	A 280	56TB3-H 4	56P06-Z	IRIG TEMP IND SENSOR HI
*	AA276	56TB3-H 4	56J17-C6	IRIG TEMP IND SENSOR HI
*	A 403	56TB3-H 5	56J09- 74	IMU TEMP ALARM AMP PIN 15
*	AA262	56TB3-H 5	56J17-G2	IMU TEMP ALARM AMP PIN 15
*	A 181	56TB3-H 6	56J08- 66	MDV SLEW CONTROL 0.5 V 400 CPS
*	A 408	56TB3-H 6	56J09- 66	MDV SLEW CONTROL 0.5 V 400 CPS
*	A 135W	56TB3-H 7	56J05- 90	TRUNNION CDU 16X ERROR SIG LO
*	AA329R	56TB3-H 7	56J19-B2	TRUNNION CDU 16X ERROR SIG LO
*	A 135R	56TB3-H 8	56J05-104	TRUNNION CDU 16X ERROR SIG HI
*	AA329L	56TB3-H 8	56J19-C2	TRUNNION CDU 16X ERROR SIG HI
	A 107B	56TB3-H 9	SHLD A 107	0 VDC OPTICS
	A 112B	56TB3-H 9	SHLD A 112	0 VDC OPTICS
	A 135B	56TB3-H 9	SHLD A 135	0 VDC OPTICS
	AA329B	56TB3-H 9	SHLD AA329	0 VDC OPTICS
	AA542	56TB3-H 9	56TB3-K 9	0 VDC OPTICS
*	AA541	56TB3-H 9	56TB3-G 9	0 VDC OPTICS
*	A 112R	56TB3-H10	56J04-104	SHAFT CDU 16X ERROR SIG HI
*	AA331L	56TB3-H10	56J19-B4	SHAFT CDU 16X ERROR SIG HI
*	A 112W	56TB3-H11	56J04- 90	SHAFT CDU 16X ERROR SIG LO
*	AA331R	56TB3-H11	56J19-B3	SHAFT CDU 16X ERROR SIG LO
	A 65B	56TB3-H12	SHLD A 65	0 VDC IMU
	A 222B	56TB3-H12	SHLD A 222	0. VDC IMU
	A 357B	56TB3-H12	SHLD A 357	0 VDC IMU
	AA466	56TB3-H12	56TB3-R 3	0 VDC IMU
	AA507B	56TB3-H12	SHLD AA507	0 VDC IMU
	AA513	56TB3-H12	56TB3-H13	0 VDC IMU
	A 41B	56TB3-H13	SHLD A 41	0 VDC IMU
	A 228B	56TB3-H13	SHLD A 228	0 VDC IMU
	A 355B	56TB3-H13	SHLD A 355	0 VDC IMU
	AA509B	56TB3-H13	SHLD AA509	0 VDC IMU

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 271R	56P06-A	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 286	56P06-A*	56TB3-K 3	IRIG TEMP IND SENSOR RET
A 271W	56P06-B	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO
A 282R	56P06-B*	56TB3-L13	PRESSURE SENSOR +28 VDC HI
A 271L	56P06-C	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 282W	56P06-C*	56TB3-K13	PRESSURE SENSOR +28 VDC LO
A 284	56P06-D	56TB3-T20	+28 VDC IMU
A 283R	56P06-D*	56TB3-K19	IMU PRESSURE MONITOR HI
A 287	56P06-E	56TB2-D 4	0 VDC IMU
A 283W	56P06-E*	56TB3-H19	IMU PRESSURE MONITOR LO
A 272	56P06-F	56TB1-D 5	-28 VDC
A 281R	56P06-F*	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 288	56P06-G	56TB3-F21	STRUCTURE GND
A 281W	56P06-G*	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 273R	56P06-H	56TB1-A 2	OG TORQUE MOTOR HI
A 273W	56P06-J	56TB1-B 2	OG TORQUE MOTOR RET
A 274	56P06-K	56TB3-G 5	IMU TEMP SENSOR COM
A 275W	56P06-L	56TB3-L 3	IRIG TEMP CONT SENSOR RET
A 275R	56P06-M	56TB3-L 4	IRIG TEMP CONT SENSOR HI
A 276	56P06-N	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 285	56P06-P	56TB3-M 1	ACCEL TEMP IND SENSOR RET
A 279W	56P06-R	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY
A 278R	56P06-V	56TB3-N 5	IMU CONTROL HTR HI
A 278W	56P06-W	56TB3-N 4	IMU CONTROL HTR LO
A 279R	56P06-X	56TB3-N 1	IMU EMERGENCY HTR HI
A 277	56P06-Y	56TB3-N 6	EMERG HTR CONT MODULE LO
A 280	56P06-Z	56TB3-H 4	IRIG TEMP IND SENSOR HI

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 289R	56P07-A	56TB1-T 8	Z GYRO TORQUE +
A 296W	56P07-A*	56TB1-N 2	Y PIP ERROR LO
A 289W	56P07-B	56TB1-U 7	Z GYRO TORQUE RET
A 297R	56P07-B*	56TB1-T 5	Z PIP ERROR HI
A 289L	56P07-C	56TB1-U 8	Z GYRO TORQUE -
A 297W	56P07-C*	56TB1-T 4	Z PIP ERROR LO
A 290R	56P07-D	56TB1-M 8	X GYRO TORQUE +
A 290W	56P07-E	56TB1-L 8	X GYRO TORQUE RET
A 290L	56P07-F	56TB1-L 7	X GYRO TORQUE -
A 298R	56P07-F*	56TB1-C 3	OG ADA
A 291R	56P07-G	56TB1-T 6	Y GYRO TORQUE +
A 298L	56P07-G*	56TB1-B 4	MG ADA
A 291W	56P07-H	56TB1-U 5	Y GYRO TORQUE RET
A 298K	56P07-H*	56TB1-C 4	IG ADA
A 291L	56P07-J	56TB1-U 6	Y GYRO TORQUE -
A 298W	56P07-J*	56TB1-B 3	0 VDC IMU
A 292R	56P07-K	56TB1-U 4	Z PIP TORQUE +
A 292W	56P07-L	56TB1-T 3	Z PIP TORQUE RET
A 292L	56P07-M	56TB1-U 3	Z PIP TORQUE -
A 293R	56P07-N	56TB1-L 4	Y PIP TORQUE +
A 293W	56P07-P	56TB1-L 3	Y PIP TORQUE RET
A 293L	56P07-R	56TB1-M 4	Y PIP TORQUE -
A 294R	56P07-U	56TB1-M 5	X PIP TORQUE +
A 294W	56P07-V	56TB1-L 6	X PIP TORQUE RET
A 294L	56P07-W	56TB1-L 5	X PIP TORQUE -
A 295R	56P07-X	56TB1-M 7	X PIP ERROR HI
A 295W	56P07-Y	56TB1-M 6	X PIP ERROR LO
A 296R	56P07-Z	56TB1-M 3	Y PIP ERROR HI

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 250	56P05-T	56TB3-K21	0 VDC OPTICS
A 260R	56P05-U*	56TB3-S17	SXT SHAFT TACH HI
A 260W	56P05-V*	56TB3-S16	SXT SHAFT TACH LO
A 267W	56P05-W	56P04-J	AT 64X RSVR P4 TRIM
A 261R	56P05-W*	56TB3-N13	SHAFT CDU 1/2X COS LO P4
A 267R	56P05-X	56P04-K	AT 64X RSVR P2 TRIM
A 261W	56P05-X*	56TB3-N14	SHAFT CDU 1/2X COS HI P2
A 252R	56P05-Y	56TB3-T 8	SXT AT 64X RSVR SIN LO
A 262R	56P05-Y*	56TB3-K10	SHAFT CDU 1/2X SIN HI P1
A 252W	56P05-Z	56TB3-T 7	SXT AT 64X RSVR SIN HI
A 262W	56P05-Z*	56TB3-K11	SHAFT CDU 1/2X SIN LO P3

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 299R	56P08-A	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 299W	56P08-B	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 315	56P08-B*	56TB3-K15	0 VDC OPTICS
A 308W	56P08-C*	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING RED
A 308L	56P08-D*	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING BLK
A 300W	56P08-E	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING RED
A 309R	56P08-E*	56TB3-N16	SCT SHAFT TACH HI
A 300R	56P08-F	56TB3-C19	+28 VDC OPTICS
A 309W	56P08-F*	56TB3-N17	SCT SHAFT TACH LO
A 300L	56P08-G	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING BLK
A 310R	56P08-G*	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
A 308R	56P08-H	56TB3-C19	+28 VDC OPTICS
A 311	56P08-H*	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
A 310W	56P08-I*	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
A 301R	56P08-J	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
A 312W	56P08-J*	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 301W	56P08-K	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
A 312R	56P08-K*	56TB3-K11	SHAFT CDU 1/2X SIN LO P1
A 313W	56P08-M*	56TB3-N13	SHAFT CDU 1/2X COS LO P2
A 302R	56P08-N	56TB3-R17	SCT TRUNNION TACH HI
A 313R	56P08-N*	56TB3-N14	SHAFT CDU 1/2X COS HI P4
A 302W	56P08-P	56TB3-R16	SCT TRUNNION TACH LO
A 303	56P08-R	56TB3-K15	0 VDC OPTICS
A 314R	56P08-R*	56TB1-T 1	400 CPS VAR ILLUM PWR
A 304W	56P08-S	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
A 314W	56P08-S*	56TB1-T 2	400 CPS 6 V LO
A 304R	56P08-T	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
A 316	56P08-T*	56TB3-F22	STRUCTURE GND
A 305	56P08-U	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
A 306R	56P08-V	56TB3-S13	SCT TRUNNION 1X SIN LO
A 306W	56P08-W	56TB3-S14	SCT TRUNNION 1X SIN HI
A 307R	56P08-X	56TB3-T14	SCT TRUNNION 1X COS HI
A 307W	56P08-Y	56TB3-T13	SCT TRUNNION 1X COS LO

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA266	56TB3-K 3	56J17-C5	IRIG TEMP IND SENSOR RET
*	A 391	56TB3-K 4	56J09- 21	TRUNNION ENCODER PIN 9
*	AA286	56TB3-K 4	56J17-B9	TRUNNION ENCODER PIN 9
*	A 444	56TB3-K 5	56J09- 75	IMU TEMP ALARM AMP PIN 14
*	AA261	56TB3-K 5	56J17-G1	IMU TEMP ALARM AMP PIN 14
*	A 210R	56TB3-K 6	56J08- 35	400 CPS 0.5 V ZERO PHASE
*	A 459R	56TB3-K 6	56P10- 38	400 CPS 0.5 V ZERO PHASE
*	A 110W	56TB3-K 7	56J04- 20	SHAFT CDU 1X COS OUTPUT HI
*	AA338R	56TB3-K 7	56J18-D4	SHAFT CDU 1X COS OUTPUT HI
*	A 110R	56TB3-K 8	56J04- 6	SHAFT CDU 1X COS OUTPUT LO
*	AA338W	56TB3-K 8	56J18-D5	SHAFT CDU 1X COS OUTPUT LO
	A 110B	56TB3-K 9	SHLD A 110	0 VDC OPTICS
	A 262B	56TB3-K 9	SHLD A 262	0 VDC OPTICS
	A 312B	56TB3-K 9	SHLD A 312	0 VDC OPTICS
	AA331B	56TB3-K 9	SHLD AA331	0 VDC OPTICS
	AA543	56TB3-K 9	56TB3-L 9	0 VDC OPTICS
*	AA542	56TB3-K 9	56TB3-H 9	0 VDC OPTICS
*	A 107W	56TB3-K10	56J04- 67	SHAFT CDU 1/2X SIN HI S1
*	A 262R	56TB3-K10	56P05-Y*	SHAFT CDU 1/2X SIN HI P1
*	A 312W	56TB3-K10	56P08-J*	SHAFT CDU 1/2X SIN HI S1
*	AA332W	56TB3-K10	56J18-G1	SHAFT CDU 1/2X SIN HI S1
*	A 107R	56TB3-K11	56J04- 57	SHAFT CDU 1/2X SIN LO S3
*	A 262W	56TB3-K11	56P05-Z*	SHAFT CDU 1/2X SIN LO P3
*	A 312R	56TB3-K11	56P08-K*	SHAFT CDU 1/2X SIN LO P1
*	AA332R	56TB3-K11	56J18-H1	SHAFT CDU 1/2X SIN LO S3
*	A 148W	56TB3-K12	56J05- 66	TRUNNION CDU 1/2X RSVR LOAD LO
*	AA318R	56TB3-K12	56J18-F4	TRUNNION CDU 1/2X RSVR LOAD LO
*	A 282W	56TB3-K13	56P06-C*	PRESSURE SENSOR +28 VDC LO
*	AA464W	56TB3-K13	56J20-B6	PRESSURE SENSOR +28 VDC LO
*	A 607W	56TB3-K14	56P10- 68	400 CPS 115 V LO
*	A 608W	56TB3-K14	56P11-K	400 CPS 115 V LO
*	AA465W	56TB3-K14	56J20-G3	400 CPS 115 V LO
	A 131B	56TB3-K15	SHLD A 131	0 VDC OPTICS
	AA552	56TB3-K15	56TB3-L15	0 VDC OPTICS
*	A 303	56TB3-K15	56P08-R	0 VDC OPTICS
*	A 315	56TB3-K15	56P08-B*	0 VDC OPTICS
*	AA551	56TB3-K15	56TB3-H15	0 VDC OPTICS
*	A 304W	56TB3-K16	56P08-S	SCT TRUNNION 1X RSVR ERROR HI
*	AA377W	56TB3-K16	56J19-B7	SCT TRUNNION 1X RSVR ERROR HI

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 304R	56TB3-K17	56P08-T	SCT TRUNNION 1X RSVR ERROR LO
*	AA377R	56TB3-K17	56J19-B8	SCT TRUNNION 1X RSVR ERROR LO
*	A 405	56TB3-K18	56J09- 58	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	AA388	56TB3-K18	56J19-M5	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	A 283R	56TB3-K19	56P06-D*	IMU PRESSURE MONITOR HI
*	A 379R	56TB3-K19	56P09- 42	IMU PRESSURE MONITOR HI
*	AA414	56TB3-K19	56J20-A4	IMU PRESSURE MONITOR HI
	A 595	56TB3-K20	56TB3-C15	0 VDC OPTICS
*	A 644	56TB3-K20	56P11-G	0 VDC OPTICS
*	AA325	56TB3-K20	56J18-S3	0 VDC OPTICS
*	AA327	56TB3-K20	56J18-T3	0 VDC OPTICS
*	AA333	56TB3-K20	56J18-R3	0 VDC OPTICS
	AA566	56TB3-K21	56TB3-C15	0 VDC OPTICS
*	A 249	56TB3-K21	56P05-S	0 VDC OPTICS
*	A 250	56TB3-K21	56P05-T	0 VDC OPTICS
*	AA390	56TB3-K21	56J19-R4	0 VDC OPTICS
*	AA393	56TB3-K21	56J19-P5	0 VDC OPTICS
	A 596	56TB3-K22	56TB3-C15	0 VDC OPTICS
*	A 647	56TB3-K22	56P12-G	0 VDC OPTICS
*	AA364	56TB3-K22	56J19-S4	0 VDC OPTICS
*	AA369	56TB3-K22	56J19-S5	0 VDC OPTICS
*	AA408	56TB3-K22	56J20-N3	0 VDC OPTICS
*	A 2	56TB3-L 1	56P01- 65	IRIG TEMP GAIN SWITCH NC
*	A 398	56TB3-L 1	56J09- 86	IRIG TEMP GAIN SWITCH NC
*	AA290	56TB3-L 1	56J17-C8	IRIG TEMP GAIN SWITCH NC
*	A 32	56TB3-L 2	56P01- 55	IMU TD RELAY NO
*	AA249	56TB3-L 2	56J17-F8	IMU TD RELAY NO
*	A 275W	56TB3-L 3	56P06-L	IRIG TEMP CONT SENSOR RET
*	AA268	56TB3-L 3	56J17-B5	IRIG TEMP CONT SENSOR RET
*	A 275R	56TB3-L 4	56P06-M	IRIG TEMP CONT SENSOR HI
*	AA267	56TB3-L 4	56J17-B6	IRIG TEMP CONT SENSOR HI
*	A 400	56TB3-L 5	56J09- 76	IMU TEMP CONT K2 PIN 6
*	AA263	56TB3-L 5	56J17-L1	IMU TEMP CONT K2 PIN 6
*	A 210W	56TB3-L 6	56J08- 45	400 CPS 0.5 V PI PHASE
*	A 459W	56TB3-L 6	56P10- 39	400 CPS 0.5 V PI PHASE
*	A 121R	56TB3-L 7	56J04-106	SHAFT CDU TACH HI
*	AA316L	56TB3-L 7	56J18-A8	SHAFT CDU TACH HI
*	A 121W	56TB3-L 8	56J04- 92	SHAFT CDU TACH LO
*	AA316R	56TB3-L 8	56J18-A7	SHAFT CDU TACH LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA554	56TB3-H13	56TB3-H14	0 VDC IMU
*	AA513	56TB3-H13	56TB3-H12	0 VDC IMU
	A 40B	56TB3-H14	SHLD A 40	0 VDC IMU
	A 227B	56TB3-H14	SHLD A 227	0 VDC IMU
	A 356B	56TB3-H14	SHLD A 356	0 VDC IMU
	AA508B	56TB3-H14	SHLD AA508	0 VDC IMU
	AA510B	56TB3-H14	SHLD AA510	0 VDC IMU
*	AA554	56TB3-H14	56TB3-H13	0 VDC IMU
	A 255B	56TB3-H15	SHLD A 255	0 VDC OPTICS
	A 263B	56TB3-H15	SHLD A 263	0 VDC OPTICS
	A 304B	56TB3-H15	SHLD A 304	0 VDC OPTICS
	AA551	56TB3-H15	56TB3-K15	0 VDC OPTICS
*	AA550	56TB3-H15	56TB3-G15	0 VDC OPTICS
*	A 263R	56TB3-H16	56P05-HH	SXT SHAFT 1/2X RSVR ERROR HI
*	AA375W	56TB3-H16	56J19-A5	SXT SHAFT 1/2X RSVR ERROR HI
*	A 263W	56TB3-H17	56P05-BB	SXT SHAFT 1/2X RSVR ERROR LO
*	AA375R	56TB3-H17	56J19-B5	SXT SHAFT 1/2X RSVR ERROR LO
*	A 283W	56TB3-H19	56P06-E*	IMU PRESSURE MONITOR LO
*	A 379W	56TB3-H19	56P09- 53	IMU PRESSURE MONITOR LO
*	AA415	56TB3-H19	56J20-B4	IMU PRESSURE MONITOR LO
*	A 328	56TB3-H20	56P09- 65	+28 VDC OPTICS
*	AA406	56TB3-H20	56J20-N6	+28 VDC OPTICS
*	A 625	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	A 626	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	A 627	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	AA446	56TB3-H21	56J20-P5	+28 VDC OPTICS BUSS A
*	AA449	56TB3-H21	56J20-S5	+28 VDC OPTICS BUSS A
*	AA628	56TB3-H21	56J20-R5	+28 VDC OPTICS BUSS A
*	A 628	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B
*	A 629	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B
*	A 630	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B
*	AA450	56TB3-H22	56J20-P6	+28 VDC OPTICS BUSS B
*	AA453	56TB3-H22	56J20-S6	+28 VDC OPTICS BUSS B
*	AA629	56TB3-H22	56J20-R6	+28 VDC OPTICS BUSS B
*	A 438	56TB3-K 1	56J09- 92	IMU TEMP ALARM AMP PIN 5
*	AA260	56TB3-K 1	56J17-H2	IMU TEMP ALARM AMP PIN 5
*	A 446	56TB3-K 2	56J09-105	IMU TEMP ALARM BIAS RESISTOR
*	AA259	56TB3-K 2	56J17-H1	IMU TEMP ALARM BIAS RESISTOR
*	A 286	56TB3-K 3	56P06-A*	IRIG TEMP IND SENSOR RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 121B	56TB3-L 9	SHLD A 121	0 VDC OPTICS
	A 132B	56TB3-L 9	SHLD A 132	0 VDC OPTICS
	AA316B	56TB3-L 9	SHLD AA316	0 VDC OPTICS
	AA544	56TB3-L 9	56TB3-M 9	0 VDC OPTICS
*	AA543	56TB3-L 9	56TB3-K 9	0 VDC OPTICS
*	A 132R	56TB3-L10	56J05- 12	TRUNNION CDU 1/2X RSVR P2
*	AA317W	56TB3-L10	56J18-A6	TRUNNION CDU 1/2X RSVR P2
*	A 132W	56TB3-L11	56E 18	TRUNNION CDU 1/2X RSVR P3
*	AA317R	56TB3-L11	56J18-B6	TRUNNION CDU 1/2X RSVR P3
*	A 148R	56TB3-L12	56J05- 56	TRUNNION CDU 1/2X RSVR LOAD HI
*	AA318W	56TB3-L12	56J18-F3	TRUNNION CDU 1/2X RSVR LOAD HI
*	A 282R	56TB3-L13	56P06-B*	PRESSURE SENSOR +28 VDC HI
*	AA464R	56TB3-L13	56J20-A6	PRESSURE SENSOR +28 VDC HI
*	A 607R	56TB3-L14	56P10- 69	400 CPS 115 V HI
*	A 608R	56TB3-L14	56P11-N	400 CPS 115 V HI
*	AA465R	56TB3-L14	56J20-H3	400 CPS 115 V HI
	AA533	56TB3-L15	56TB3-M15	0 VDC OPTICS
*	A 436	56TB3-L15	56J09- 83	0 VDC OPTICS
*	AA552	56TB3-L15	56TB3-K15	0 VDC OPTICS
*	A 310R	56TB3-L16	56P08-G*	SCT SHAFT 1/2X RSVR ERROR LO
*	AA379R	56TB3-L16	56J19-C8	SCT SHAFT 1/2X RSVR ERROR LO
*	A 310W	56TB3-L17	56P08-I*	SCT SHAFT 1/2X RSVR ERROR HI
*	AA379W	56TB3-L17	56J19-D8	SCT SHAFT 1/2X RSVR ERROR HI
*	A 428	56TB3-L18	56J09- 99	COSECANT RELAY CONTROL
*	AA389	56TB3-L18	56J19-N5	COSECANT RELAY CONTROL
	AA521	56TB3-L19	56J21- 62	+13 VDC AGC
*	A 380	56TB3-L19	56P09- 62	+13 VDC AGC
*	AA425	56TB3-L19	56J20-C6	+13 VDC AGC
*	A 593	56TB3-L20	56TB3-D15	0 VDC OPTICS
*	A 648	56TB3-L20	56P12-G	0 VDC OPTICS
*	AA 66	56TB3-L20	56J12-R6	0 VDC OPTICS
*	AA228	56TB3-L20	56J16-R5	0 VDC OPTICS
*	AA229	56TB3-L20	56J16-R6	0 VDC OPTICS
	AA563	56TB3-L21	56TB3-D15	0 VDC OPTICS
*	A 329	56TB3-L21	56P09- 66	0 VDC OPTICS
*	A 645	56TB3-L21	56P11-G	0 VDC OPTICS
*	AA282	56TB3-L21	56J17-R6	0 VDC OPTICS
*	AA407	56TB3-L21	56J20-N4	0 VDC OPTICS
	A 594	56TB3-L22	56TB3-D15	0 VDC OPTICS

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 358W	56P09- 40	56TB3-N21	COS AMG 1X S1
A 361	56P09- 41	56TB1-C 8	Z GYRO ERROR SIG
A 379R	56P09- 42	56TB3-K19	IMU PRESSURE MONITOR HI
A 350	56P09- 43	56TB1-M 2	Y PIP ERROR MONITOR
A 351	56P09- 44	56TB1-T 7	Z PIP ERROR MONITOR
A 321R	56P09- 45	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
A 345	56P09- 46	56TB1-U 2	IMU DELAY LIGHT HI
A 335	56P09- 47	56TB3-B 3	CDU FAIL LIGHT HI
A 334	56P09- 48	56TB3-M 6	IMU FAIL LIGHT HI
A 333	56P09- 49	56TB3-B 5	ACCEL FAIL LIGHT HI
A 363W	56P09- 50	56TB1-A 8	IMU OG ERROR SIG
A 363K	56P09- 51	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 362	56P09- 52	56TB1-C 7	X GYRO ERROR SIG
A 379W	56P09- 53	56TB3-H19	IMU PRESSURE MONITOR LO
A 381	56P09- 54	56TB3-M19	+3 VDC AGC
A 321W	56P09- 55	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
A 322R	56P09- 56	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 322W	56P09- 57	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 323W	56P09- 58	56TB1-C 2	3200 CPS 2 V LO
A 323R	56P09- 59	56TB1-D 2	3200 CPS 2 V HI
A 363R	56P09- 60	56TB1-A 7	IMU MG ERROR SIG
A 363L	56P09- 61	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 380	56P09- 62	56TB3-L19	+13 VDC AGC
A 382	56P09- 63	56TB3-N19	0 VDC AGC
A 371L	56P09- 64	56TB3-G19	AGC TEMP MONITOR NO 1
A 328	56P09- 65	56TB3-H20	+28 VDC OPTICS
A 329	56P09- 66	56TB3-L21	0 VDC OPTICS
A 319R	56P09- 67	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 325R	56P09- 68	56TB1-H 7	25.6 KC HI OPTICS
A 324R	56P09- 69	56TB1-H 4	25.6 KC HI IMU
A 365R	56P09- 70	56TB2-H 7	MG CDU 1X ERROR SIG
A 365W	56P09- 71	56TB2-G 7	MG CDU ERROR SIG RET
A 366R	56P09- 72	56TB2-N 2	OG CDU 1X ERROR SIG
A 370	56P09- 73	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
A 371R	56P09- 74	56TB3-F19	AGC TEMP MONITOR NO 2
A 371W	56P09- 75	56TB3-D19	AGC TEMP MONITOR NO 3
A 378R	56P09- 76	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
A 378W	56P09- 77	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
A 319L	56P09- 78	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 319W	56P09- 79	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 325W	56P09- 80	56TB1-G 7	25.6 KC LO OPTICS
A 324W	56P09- 81	56TB1-G 4	25.6 KC LO IMU
A 364W	56P09- 82	56TB2-G 2	IG CDU ERROR SIG RET
A 366W	56P09- 83	56TB2-R 2	OG CDU ERROR SIG RET
A 384	56P09- 84	56TB2-D 5	0 VDC IMU
A 368	56P09- 85	56TB3-C 5	IRIG TEMP (TELEMETRY)
A 383R	56P09- 86	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
A 372R	56P09- 87	56TB3-D 9	SHAFT CDU MDA (TEST) HI
A 372W	56P09- 88	56TB3-D10	SHAFT CDU MDA (TEST) LO
A 374R	56P09- 89	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
A 375R	56P09- 90	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
A 376R	56P09- 91	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
A 376W	56P09- 92	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
A 352R	56P09- 93	56TB1-D 4	IG TORQUE MOTOR RET
A 354R	56P09- 94	56TB1-B 2	OG TORQUE MOTOR RET
A 354W	56P09- 95	56TB1-A 2	OG TORQUE MOTOR HI
A 364R	56P09- 96	56TB2-H 2	IG CDU 1X ERROR SIG
A 369	56P09- 97	56TB3-D 5	HTR CURRENT (TELEMETERY)
A 367	56P09- 98	56TB3-D 4	ACCEL TEMP (TELEMETRY)
A 383W	56P09- 99	56TB3-C 8	TRUNNION CDU MDA LO (TEST)
A 373R	56P09-100	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
A 373W	56P09-101	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)
A 374W	56P09-102	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
A 375W	56P09-103	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
A 377R	56P09-104	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
A 377W	56P09-105	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
A 352W	56P09-106	56TB1-D 3	IG TORQUE MOTOR HI
A 353R	56P09-107	56TB1-A 3	MG TORQUE MOTOR RET
A 353W	56P09-108	56TB1-A 4	MG TORQUE MOTOR HI

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 355R	56P09- 1	56TB3-D13	SIN AIG 1X RET
A 356R	56P09- 2	56TB3-F13	COS AIG 1X RET
A 356W	56P09- 3	56TB3-F14	COS AIG 1X
A 330	56P09- 4	56TB3-R20	+28 VDC AGC
A 317R	56P09- 5	56TB3-T19	+20 VDC CONDITIONING
A 317W	56P09- 6	56TB3-S19	0 VDC CONDITIONING
A 386W	56P09- 7	56TB3-R19	+2.5 VDC CONDITIONING HI
A 318W	56P09- 8	56TB3-B19	800 CPS 28 V 1 PCT LO IMU
A 318R	56P09- 9	56TB3-B18	800 CPS 28 V 1 PCT HI IMU
A 342	56P09- 10	56TB3-F 5	GIMBAL LOCK SIGNAL
A 344	56P09- 11	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 336	56P09- 12	56TB1-H 8	ERROR DETECT LIGHT HI
A 332	56P09- 13	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 355W	56P09- 14	56TB3-D14	SIN AIG 1X
A 357R	56P09- 15	56TB3-C13	SIN AMG 1X RET
A 359R	56P09- 16	56TB2-U 7	SIN AOG 1X S2
A 359W	56P09- 17	56TB2-U 8	SIN AOG 1X S4
A 331	56P09- 18	56TB3-N19	0 VDC AGC
A 327	56P09- 19	56TB3-T21	+28 VDC IMU
A 326	56P09- 20	56TB3-N22	+28 VDC STBY
A 386R	56P09- 21	56TB3-S20	+2.5 VDC CONDITIONING LO
A 320R	56P09- 22	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 343	56P09- 23	56TB1-S 5	0 VDC IMU
A 348	56P09- 24	56E 21	0 VDC IMU
A 341	56P09- 25	56E 21	0 VDC IMU
A 340	56P09- 26	56E 21	0 VDC IMU
A 337	56P09- 27	56E 21	0 VDC IMU
A 358R	56P09- 28	56TB3-N20	COS AMG 1X S3
A 357W	56P09- 29	56TB3-C14	SIN AMG 1X
A 360R	56P09- 30	56TB2-N 8	COS AOG 1X S3
A 360W	56P09- 31	56TB2-N 7	COS AOG 1X S1
A 385	56P09- 32	56TB2-F 4	0 VDC IMU
A 349	56P09- 33	56TB1-L 2	X PIP ERROR MONITOR
A 320W	56P09- 34	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 346	56P09- 35	56TB3-B 4	ZERO ENCODER LIGHT HI
A 347	56P09- 36	56E 21	0 VDC IMU
A 339	56P09- 37	56E 21	0 VDC IMU
A 338W	56P09- 38	56TB2-R 3	OG CDU ERROR SIG RET
A 338R	56P09- 39	56TB2-N 3	OG CDU 16X ERROR SIG

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 461	56P10- 8	56J22-171	MAIN PANEL GIMBAL LOCK LIGHT
	A 462	56P10- 9	56TB3-F 1	0 VDC SPACECRAFT
	A 453	56P10- 10	56J09- 29	GIMBAL LOCK LIGHT CONDITION LAMP TEST
	A 454	56P10- 12	56TB3-F 5	GIMBAL LOCK SIGNAL
	A 452	56P10- 13	56TB1-S 5	0 VDC IMU
	A 455	56P10- 24	56TB2-S 8	GIMBAL LOCK LIGHT HI
	A 459R	56P10- 38	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
	A 459W	56P10- 39	56TB3-L 6	400 CPS 0.5 V PI PHASE
*	A 447	56P10- 48	56J09- 95	400 CPS 26 V HI
	A 460	56P10- 49	56TB3-B14	400 CPS 26 V LO
	A 607W	56P10- 68	56TB3-K14	400 CPS 115 V LO
	A 607R	56P10- 69	56TB3-L14	400 CPS 115 V HI
	A 663L	56P10- 81	56TB1-T 2	400 CPS 6 V LO
*	A 606W	56P10- 93	56J09- 62	400 CPS 6 V HI
	A 663R	56P10- 94	56TB1-R 2	400 CPS 6 V LO
	A 663W	56P10- 95	56TB1-S 2	400 CPS 6 V LO
*	A 606R	56P10-106	56J09- 61	400 CPS 6 V HI
*	A 606L	56P10-107	56J09- 53	400 CPS 6 V HI
*	A 606K	56P10-108	56J09- 52	400 CPS 6 V LO

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0 1 2
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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 636	56P12-A	56TB3-G22	+28 VDC AGC BUSS B	
A 637	56P12-A	56J21-139	+28 VDC AGC BUSS B	168
A 638	56P12-A	56J21-207	+28 VDC AGC BUSS B	168
A 615	56P12-B	56TB3-D20	+28 VDC IMU BUSS B	
A 616	56P12-B	56TB3-D20	+28 VDC IMU BUSS B	
A 617	56P12-B	56TB3-D20	+28 VDC IMU BUSS B	
A 618	56P12-C	56TB3-D21	+28 VDC IMU BUSS B	
A 619	56P12-C	56TB3-D21	+28 VDC IMU BUSS B	
A 620	56P12-C	56TB3-D21	+28 VDC IMU BUSS B	
A 656	56P12-D	56TB1-N 4	0 VDC IMU	
A 657	56P12-D	56TB3-S 3	0 VDC IMU	
A 658	56P12-E	56TB3-T 3	0 VDC IMU	
A 659	56P12-E	56TB1-S 3	0 VDC IMU	
A 660	56P12-F	56TB2-M 1	0 VDC IMU	
A 661	56P12-F	56TB2-L 4	0 VDC IMU	
A 662	56P12-F	56TB1-D 7	0 VDC IMU	
A 646	56P12-G	56TB3-C15	0 VDC OPTICS	
A 647	56P12-G	56TB3-K22	0 VDC OPTICS	
A 648	56P12-G	56TB3-L20	0 VDC OPTICS	
A 628	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B	
A 629	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B	
A 630	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B	
A 641	56P12-J	56J21-140	0 VDC AGC	170
A 642	56P12-J	56J21-208	0 VDC AGC	170
A 632	56P12-L	56TB3-F22	STRUCTURE GND	
A 621	56P12-M	56TB3-C22	+28 VDC STBY BUSS B	
A 622	56P12-M	56TB3-C22	+28 VDC STBY BUSS B	

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SCALE - NONE	REV LTR F		SHEET 82

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 238W	56TB1-A 2	56P03-Y	OG TORQUE MOTOR HI
*	A 273R	56TB1-A 2	56P06-H	OG TORQUE MOTOR HI
*	A 354W	56TB1-A 2	56P09- 95	OG TORQUE MOTOR HI
*	AA 34R	56TB1-A 2	56J11-H6	OG TORQUE MOTOR HI
*	A 239W	56TB1-A 3	56P03-A*	MG TORQUE MOTOR RET
*	A 240R	56TB1-A 3	56P03-B*	MG TORQUE MOTOR RET
*	A 353R	56TB1-A 3	56P09-107	MG TORQUE MOTOR RET
*	AA 32W	56TB1-A 3	56J11-G6	MG TORQUE MOTOR RET
*	A 239R	56TB1-A 4	56P03-Z	MG TORQUE MOTOR HI
*	A 240W	56TB1-A 4	56P03-C*	MG TORQUE MOTOR HI
*	A 353W	56TB1-A 4	56P09-108	MG TORQUE MOTOR HI
*	AA 32R	56TB1-A 4	56J11-F6	MG TORQUE MOTOR HI
*	A 235W	56TB1-A 5	56P03-L	MG CDU ATTITUDE STEERING ERROR
*	AA 20R	56TB1-A 5	56J11-C2	MG CDU ATTITUDE STEERING ERROR
	A 235B	56TB1-A 6	SHLD A 235	MG CDU ERROR SIG RET
*	A 235R	56TB1-A 6	56P03-K	MG CDU ERROR SIG RET
*	AA 20W	56TB1-A 6	56J11-B2	MG CDU ERROR SIG RET
*	A 231K	56TB1-A 7	56P03-W	IMU MG ERROR SIG
*	A 363R	56TB1-A 7	56P09- 60	IMU MG ERROR SIG
*	AA 29R	56TB1-A 7	56J11-A5	IMU MG ERROR SIG
*	A 231R	56TB1-A 8	56P03-C	IMU OG ERROR SIG
*	A 363W	56TB1-A 8	56P09- 50	IMU OG ERROR SIG
*	AA 29L	56TB1-A 8	56J11-A6	IMU OG ERROR SIG
*	A 238R	56TB1-B 2	56P03-X	OG TORQUE MOTOR RET
*	A 273W	56TB1-B 2	56P06-J	OG TORQUE MOTOR RET
*	A 354R	56TB1-B 2	56P09- 94	OG TORQUE MOTOR RET
*	AA 34W	56TB1-B 2	56J11-H5	OG TORQUE MOTOR RET
*	A 298W	56TB1-B 3	56P07-J*	0 VDC IMU
*	AA 23W	56TB1-B 3	56J11-G2	0 VDC IMU
*	A 298L	56TB1-B 4	56P07-G*	MG ADA
*	AA 23L	56TB1-B 4	56J11-H1	MG ADA
	A 234B	56TB1-B 5	SHLD A 234	IG CDU ERROR SIG RET
*	A 234R	56TB1-B 5	56P03-J	IG CDU ERROR SIG RET
*	AA 16W	56TB1-B 5	56J11-B1	IG CDU ERROR SIG RET
*	A 224W	56TB1-B 6	56P02-U	3200 CPS 2 V FEEDBACK LO
*	AA 42R	56TB1-B 6	56J11-G3	3200 CPS 2 V FEEDBACK LO
*	A 231W	56TB1-B 7	56P03-V	IMU GIMBAL AND GYRO ERROR SIG LO
*	A 363K	56TB1-B 7	56P09- 51	IMU GIMBAL AND GYRO ERROR SIG LO
*	AA 29K	56TB1-B 7	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO

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SCALE - NONE	REV LTR F		SHEET 83

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 633	56P11-A	56TB3-G21	+28 VDC AGC BUSS A	
A 634	56P11-A	56J21- 1	+28 VDC AGC BUSS A	167
A 635	56P11-A	56J21- 73	+28 VDC AGC BUSS A	167
A 609	56P11-B	56TB3-C20	+28 VDC IMU BUSS A	
A 610	56P11-B	56TB3-C20	+28 VDC IMU BUSS A	
A 611	56P11-B	56TB3-C20	+28 VDC IMU BUSS A	
A 612	56P11-C	56TB3-C21	+28 VDC IMU BUSS A	
A 613	56P11-C	56TB3-C21	+28 VDC IMU BUSS A	
A 614	56P11-C	56TB3-C21	+28 VDC IMU BUSS A	
A 649	56P11-D	56TB1-N 8	0 VDC IMU	
A 650	56P11-D	56TB1-S 6	0 VDC IMU	
A 654	56P11-E	56TB2-M 7	0 VDC IMU	
A 655	56P11-E	56TB2-V 4	0 VDC IMU	
A 651	56P11-F	56TB2-M 3	0 VDC IMU	
A 652	56P11-F	56TB2-D 4	0 VDC IMU	
A 653	56P11-F	56TB3-N 3	0 VDC IMU	
A 643	56P11-G	56TB3-D15	0 VDC OPTICS	
A 644	56P11-G	56TB3-K20	0 VDC OPTICS	
A 645	56P11-G	56TB3-L21	0 VDC OPTICS	
A 625	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A	
A 626	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A	
A 627	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A	
A 639	56P11-J	56J21- 2	0 VDC AGC	169
A 640	56P11-J	56J21- 74	0 VDC AGC	169
A 608W	56P11-K	56TB3-K14	400 CPS 115 V LO	
A 631	56P11-L	56TB3-F21	STRUCTURE GND	
A 623	56P11-M	56TB3-D22	+28 VDC STBY BUSS A	
A 624	56P11-M	56TB3-D22	+28 VDC STBY BUSS A	
A 608R	56P11-N	56TB3-L14	400 CPS 115 V HI	

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SCALE - NONE	REV LTR F		SHEET 81

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA155K	56TB1-B 7	56J15-B2	IMU GIMBAL AND GYRO ERROR SIG LO
*	A 231L	56TB1-B 8	56P03-U	IMU IG AND Y GYRO ERROR SIG
*	A 363L	56TB1-B 8	56P09- 61	IMU IG AND Y GYRO ERROR SIG
*	AA 29W	56TB1-B 8	56J11-B6	IMU IG AND Y GYRO ERROR SIG
*	AA155R	56TB1-B 8	56J15-A2	IMU IG AND Y GYRO ERROR SIG
*	A 223W	56TB1-C 2	56P02-S	3200 CPS 2 V LO
*	A 323W	56TB1-C 2	56P09- 58	3200 CPS 2 V LO
*	AA 28K	56TB1-C 2	56J11-L2	3200 CPS 2 V LO
*	AA 28L	56TB1-C 2	56J11-M2	3200 CPS 2 V LO
*	A 298R	56TB1-C 3	56P07-F*	OG ADA
*	AA 23K	56TB1-C 3	56J11-G1	OG ADA
*	A 298K	56TB1-C 4	56P07-H*	IG ADA
*	AA 23R	56TB1-C 4	56J11-F1	IG ADA
*	A 234W	56TB1-C 5	56P03-H	IG CDU ATTITUDE STEERING ERROR
*	AA 16R	56TB1-C 5	56J11-C1	IG CDU ATTITUDE STEERING ERROR
*	A 224R	56TB1-C 6	56P02-T	3200 CPS 2 V FEEDBACK HI
*	AA 42W	56TB1-C 6	56J11-F3	3200 CPS 2 V FEEDBACK HI
*	A 229W	56TB1-C 7	56P03-A	X GYRO ERROR SIG
*	A 362	56TB1-C 7	56P09- 52	X GYRO ERROR SIG
*	AA155L	56TB1-C 7	56J15-B1	X GYRO ERROR SIG
*	A 230W	56TB1-C 8	56P03-B	Z GYRO ERROR SIG
*	A 361	56TB1-C 8	56P09- 41	Z GYRO ERROR SIG
*	AA155W	56TB1-C 8	56J15-A1	Z GYRO ERROR SIG
*	A 223R	56TB1-D 2	56P02-R	3200 CPS 2 V HI
*	A 323R	56TB1-D 2	56P09- 59	3200 CPS 2 V HI
*	AA 28R	56TB1-D 2	56J11-M1	3200 CPS 2 V HI
*	AA 28W	56TB1-D 2	56J11-L1	3200 CPS 2 V HI
*	A 241R	56TB1-D 3	56P03-D*	IG TORQUE MOTOR HI
*	A 242W	56TB1-D 3	56P03-G*	IG TORQUE MOTOR HI
*	A 352W	56TB1-D 3	56P09-106	IG TORQUE MOTOR HI
*	AA 30R	56TB1-D 3	56J11-D6	IG TORQUE MOTOR HI
*	A 241W	56TB1-D 4	56P03-E*	IG TORQUE MOTOR RET
*	A 242R	56TB1-D 4	56P03-F*	IG TORQUE MOTOR RET
*	A 352R	56TB1-D 4	56P09- 93	IG TORQUE MOTOR RET
*	AA 30W	56TB1-D 4	56J11-D5	IG TORQUE MOTOR RET
*	A 272	56TB1-D 5	56P06-F	-28 VDC
*	AA 27	56TB1-D 5	56J11-N6	-28 VDC
*	A 26	56TB1-D 6	56P01- 4	COARSE ALIGN RELAY CONTROL
*	AA 35	56TB1-D 6	56J11-L3	COARSE ALIGN RELAY CONTROL

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 254R	56TB3-M16	56P05-C*	SXT TRUNNION 1X RSVR ERROR HI	
*	AA374W	56TB3-M16	56J19-D1	SXT TRUNNION 1X RSVR ERROR HI	
*	A 254W	56TB3-M17	56P05-D*	SXT TRUNNION 1X RSVR ERROR LO	
*	AA374R	56TB3-M17	56J19-D2	SXT TRUNNION 1X RSVR ERROR LO	
*	A 113	56TB3-M18	56J04- 89	SHAFT CDU 16X LOAD	
*	AA385	56TB3-M18	56J19-C4	SHAFT CDU 16X LOAD	
	AA525	56TB3-M19	56J21- 96	+3 VDC AGC	175
*	A 381	56TB3-M19	56P09- 54	+3 VDC AGC	
*	AA426	56TB3-M19	56J20-D6	+3 VDC AGC	
	AA515	56TB3-M20	56TB3-C18	+28 VDC OPTICS	
	AA558	56TB3-M20	56TB3-C19	+28 VDC OPTICS	
*	A 122R	56TB3-M20	56J04- 43	+28 VDC OPTICS	
*	A 145R	56TB3-M20	56J05- 43	+28 VDC OPTICS	
*	A 445	56TB3-M20	56J09- 71	+28 VDC OPTICS	
*	AA457	56TB3-M20	56J20-M6	+28 VDC OPTICS	
*	A 29	56TB3-M21	56P01- 89	+28 VDC MDV	
*	AA280	56TB3-M21	56J17-R5	+28 VDC MDV	
*	AA405	56TB3-M21	56J20-M5	+28 VDC MDV	
*	A 435	56TB3-M22	56J09- 51	+28 VDC MDV	
*	A 507	56TB3-M22	56J10- 8	+28 VDC MDV	306
*	AA 82	56TB3-M22	56J12-L1	+28 VDC MDV	
*	AA404	56TB3-M22	56J20-L5	+28 VDC MDV	
*	A 279R	56TB3-N 1	56P06-X	IMU EMERGENCY HTR HI	
*	AA265L	56TB3-N 1	56J17-M4	IMU EMERGENCY HTR HI	
*	A 279W	56TB3-N 2	56P06-R	EMERGENCY HTR LO-OPER AND STBY	
*	AA265R	56TB3-N 2	56J17-N4	EMERGENCY HTR LO-OPER AND STBY	
	A 279B	56TB3-N 3	SHLD A 279	0 VDC IMU	
	AA270B	56TB3-N 3	SHLD AA270	0 VDC IMU	
*	A 592	56TB3-N 3	56TB3-R 3	0 VDC IMU	
*	A 653	56TB3-N 3	56P11-F	0 VDC IMU	
*	AA295	56TB3-N 3	56J17-S3	0 VDC IMU	
*	A 278W	56TB3-N 4	56P06-W	IMU CONTROL HTR LO	
*	AA270L	56TB3-N 4	56J17-N1	IMU CONTROL HTR LO	
*	A 278R	56TB3-N 5	56P06-V	IMU CONTROL HTR HI	
*	AA270R	56TB3-N 5	56J17-P1	IMU CONTROL HTR HI	
*	A 277	56TB3-N 6	56P06-Y	EMERG HTR CONT MODULE LO	
*	A 402	56TB3-N 6	56J09- 90	EMERG HTR CONT MODULE LO	
*	A 114R	56TB3-N 7	56J04-100	SHAFT CDU 16X RSVR COS LO P3	
*	AA313R	56TB3-N 7	56J18-A5	SHAFT CDU 16X RSVR COS LO P3	

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SCALE - NONE | REV LTR F | SHEET 114

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 114W	56TB3-N 8	56J04- 86	SHAFT CDU 16X RSVR COS HI P1	
*	AA313W	56TB3-N 8	56J18-A4	SHAFT CDU 16X RSVR COS HI P1	
	A 114B	56TB3-N 9	SHLD A 114	0 VDC OPTICS	
	A 115B	56TB3-N 9	SHLD A 115	0 VDC OPTICS	
	AA308B	56TB3-N 9	SHLD AA308	0 VDC OPTICS	
	AA546	56TB3-N 9	56TB3-R 9	0 VDC OPTICS	
*	AA545	56TB3-N 9	56TB3-M 9	0 VDC OPTICS	
*	A 115W	56TB3-N10	56J04- 87	SHAFT CDU 16X RSVR SIN HI P2	
*	AA314W	56TB3-N10	56J18-B5	SHAFT CDU 16X RSVR SIN HI P2	
*	A 115R	56TB3-N11	56J04-101	SHAFT CDU 16X RSVR SIN LO P4	
*	AA314R	56TB3-N11	56J18-C5	SHAFT CDU 16X RSVR SIN LO P4	
*	A 108R	56TB3-N13	56J04- 66	SHAFT CDU 1/2X COS LO S4	
*	A 261R	56TB3-N13	56P05-W*	SHAFT CDU 1/2X COS LO P4	
*	A 313W	56TB3-N13	56P08-M*	SHAFT CDU 1/2X COS LO P2	
*	AA396R	56TB3-N13	56J19-D6	SHAFT CDU 1/2X COS LO S4	
*	A 261W	56TB3-N14	56P05-X*	SHAFT CDU 1/2X COS HI P2	
*	A 313R	56TB3-N14	56P08-N*	SHAFT CDU 1/2X COS HI P4	
*	AA396W	56TB3-N14	56J19-D5	SHAFT CDU 1/2X COS HI S2	
	A 108B	56TB3-N15	SHLD A 108	0 VDC OPTICS	
	AA535	56TB3-N15	56TB3-R15	0 VDC OPTICS	
*	A 429	56TB3-N15	56J09- 1	0 VDC OPTICS	
*	AA534	56TB3-N15	56TB3-M15	0 VDC OPTICS	
*	A 309R	56TB3-N16	56P08-E*	SCT SHAFT TACH HI	
*	AA373W	56TB3-N16	56J19-B9	SCT SHAFT TACH HI	
*	A 309W	56TB3-N17	56P08-F*	SCT SHAFT TACH LO	
*	AA373R	56TB3-N17	56J19-C9	SCT SHAFT TACH LO	
*	A 136	56TB3-N18	56J05- 89	TRUNNION CDU 16X LOAD	
*	AA384	56TB3-N18	56J19-C3	TRUNNION CDU 16X LOAD	
	AA522	56TB3-N19	56J21- 63	0 VDC AGC	177
*	A 331	56TB3-N19	56P09- 18	0 VDC AGC	
*	A 382	56TB3-N19	56P09- 63	0 VDC AGC	
*	AA424	56TB3-N19	56J20-K4	0 VDC AGC	
*	A 64R	56TB3-N20	56J02- 20	COS AMG 1X S3	
*	A 221R	56TB3-N20	56P02-L	COS AMG 1X S3	
*	A 358R	56TB3-N20	56P09- 28	COS AMG 1X S3	
*	AA419W	56TB3-N20	56J20-A3	COS AMG 1X S3	
*	AA508L	56TB3-N20	56J22-113	COS AMG 1X S3	
*	A 64W	56TB3-N21	56J02- 6	COS AMG 1X S1	
*	A 221W	56TB3-N21	56P02-M	COS AMG 1X S1	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014607
SCALE - NONE | REV LTR F | SHEET 115

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA365	56TB3-L22	56J19-T4	0 VDC OPTICS	
*	AA367	56TB3-L22	56J19-T6	0 VDC OPTICS	
*	A 285	56TB3-M 1	56P06-P	ACCEL TEMP IND SENSOR RET	
*	AA269	56TB3-M 1	56J17-D5	ACCEL TEMP IND SENSOR RET	
*	A 31	56TB3-M 2	56P01- 45	IMU TD RELAY C	
*	AA251	56TB3-M 2	56J17-D8	IMU TD RELAY C	
*	A 392	56TB3-M 3	56J09- 2	TRUNNION ENCODER PIN 8	
*	AA285	56TB3-M 3	56J17-A9	TRUNNION ENCODER PIN 8	
*	A 397	56TB3-M 4	56J09-104	ACCEL ZERO DEVIATION CHECK	
*	AA256	56TB3-M 4	56J17-D7	ACCEL ZERO DEVIATION CHECK	
*	A 441	56TB3-M 5	56J09-103	IMU IMU TEMP CONT +5 DEG GAIN CHECK	
*	AA255	56TB3-M 5	56J17-D6	IMU IMU TEMP CONT +5 DEG GAIN CHECK	
*	A 188	56TB3-M 6	56J08- 60	IMU FAIL LIGHT HI	
*	A 334	56TB3-M 6	56P09- 48	IMU FAIL LIGHT HI	
*	A 465	56TB3-M 6	56J10- 6	IMU FAIL LIGHT HI	304
*	A 144W	56TB3-M 7	56J05- 92	TRUNNION CDU TACH LO	
*	AA315R	56TB3-M 7	56J18-B9	TRUNNION CDU TACH LO	
*	A 144R	56TB3-M 8	56J05-106	TRUNNION CDU TACH HI	
*	AA315L	56TB3-M 8	56J18-A9	TRUNNION CDU TACH HI	
	A 144B	56TB3-M 9	SHLD A 144	0 VDC OPTICS	
	A 425B	56TB3-M 9	SHLD A 425	0 VDC OPTICS	
	AA315B	56TB3-M 9	SHLD AA315	0 VDC OPTICS	
	AA545	56TB3-M 9	56TB3-N 9	0 VDC OPTICS	
*	AA544	56TB3-M 9	56TB3-L 9	0 VDC OPTICS	
*	A 425R	56TB3-M10	56J09- 10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI	
*	AA326W	56TB3-M10	56J18-D8	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI	
*	A 425W	56TB3-M11	56J09- 23	RSVR DRIVE AMP INPUT LO	
*	AA326L	56TB3-M11	56J18-F9	RSVR DRIVE AMP INPUT LO	
*	A 425L	56TB3-M12	56J09- 24	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
*	AA326R	56TB3-M12	56J18-F8	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
*	A 237W	56TB3-M13	56P03-P	PITCH ERROR BODY AND BODY OFFSET AXIS LO	
*	AA289W	56TB3-M13	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO	
*	A 237R	56TB3-M14	56P03-R	PITCH-YAW RSVR S4	
*	AA289R	56TB3-M14	56J17-C2	PITCH-YAW RSVR S4	
	A 254B	56TB3-M15	SHLD A 254	0 VDC OPTICS	
	A 309B	56TB3-M15	SHLD A 309	0 VDC OPTICS	
	A 310B	56TB3-M15	SHLD A 310	0 VDC OPTICS	
	AA534	56TB3-M15	56TB3-N15	0 VDC OPTICS	
*	AA533	56TB3-M15	56TB3-L15	0 VDC OPTICS	

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SCALE - NONE | REV LTR F | SHEET 113

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 358W	56TB3-N21	56P09- 40	COS AMG 1X S1
*	AA419R	56TB3-N21	56J20-B3	COS AMG 1X S1
*	AA508R	56TB3-N21	56J22-114	COS AMG 1X S1
*	A 326	56TB3-N22	56P09- 20	+28 VDC STBY
*	AA445	56TB3-N22	56J20-P3	+28 VDC STBY
	A 278B	56TB3-R 3	SHLD A 278	0 VDC IMU
	A 592	56TB3-R 3	56TB3-N 3	0 VDC IMU
	AA631	56TB3-R 3	56TB3-S 3	0 VDC IMU
*	A 591	56TB3-R 3	56TB3-T 3	0 VDC IMU
*	AA297	56TB3-R 3	56J17-S4	0 VDC IMU
*	AA466	56TB3-R 3	56TB3-H12	0 VDC IMU
*	A 236R	56TB3-R 4	56P03-N	PITCH YAW RSVR S3
*	AA247R	56TB3-R 4	56J17-D2	PITCH YAW RSVR S3
*	A 236W	56TB3-R 5	56P03-M	YAW ERROR BODY OFFSET AXIS LO
*	AA247W	56TB3-R 5	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	A 276	56TB3-R 6	56P06-N	ACCEL INDICATING SENSOR HI
*	A 395	56TB3-R 6	56J09- 97	ACCEL INDICATING SENSOR HI
*	A 248W	56TB3-R 7	56P05-P*	SXT AS 16X RSVR SIN LO
*	AA311R	56TB3-R 7	56J18-D3	SXT AS 16X RSVR SIN LO
*	A 248R	56TB3-R 8	56P05-N*	SXT AS 16X RSVR SIN HI
*	AA311W	56TB3-R 8	56J18-D2	SXT AS 16X RSVR SIN HI
	A 248B	56TB3-R 9	SHLD A 248	0 VDC OPTICS
	A 258B	56TB3-R 9	SHLD A 258	0 VDC OPTICS
	AA307B	56TB3-R 9	SHLD AA307	0 VDC OPTICS
	AA547	56TB3-R 9	56TB3-S 9	0 VDC OPTICS
*	AA546	56TB3-R 9	56TB3-N 9	0 VDC OPTICS
*	A 258R	56TB3-R10	56P05-Q*	SXT AS 16X RSVR COS LO
*	AA312W	56TB3-R10	56J18-D1	SXT AS 16X RSVR COS LO
*	A 258W	56TB3-R11	56P05-R*	SXT AS 16X RSVR COS HI
*	AA312R	56TB3-R11	56J18-C1	SXT AS 16X RSVR COS HI
*	A 109R	56TB3-R12	56J04- 45	SHAFT CDU 1X P3 (S3)
*	AA328L	56TB3-R12	56J18-L6	SHAFT CDU 1X P3 (S3)
*	A 134W	56TB3-R13	56J05- 67	TRUNNION CDU 1/2X RSVR S3
*	AA386W	56TB3-R13	56J19-F9	TRUNNION CDU 1/2X RSVR S3
*	A 134R	56TB3-R14	56J05- 68	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
*	AA386R	56TB3-R14	56J19-F8	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	A 134B	56TB3-R15	SHLD A 134	0 VDC OPTICS
	A 261B	56TB3-R15	SHLD A 261	0 VDC OPTICS
	A 313B	56TB3-R15	SHLD A 313	0 VDC OPTICS

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SCALE - NONE | REV LTR F | SHEET 116

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 325R	56TB1-H 7	56P09- 68	25.6 KC HI OPTICS	
*	A 560R	56TB1-H 7	56E 17	25.6 KC HI OPTICS	
*	AA 63W	56TB1-H 7	56J12-P6	25.6 KC HI OPTICS	
*	A 187	56TB1-H 8	56J08- 51	ERROR DETECT LIGHT HI	
*	A 336	56TB1-H 8	56P09- 12	ERROR DETECT LIGHT HI	
*	AA 83	56TB1-H 8	56J12-L2	ERROR DETECT LIGHT HI	
*	A 18	56TB1-K 1	56P01- 91	MODE LAMP TEST PWR	
*	A 605W	56TB1-K 1	56J09- 84	MODE LAMP TEST PWR	
*	A 4	56TB1-K 3	56P01- 48	COARSE ALIGN MODE COMMAND FROM AGC	
*	A 479L	56TB1-K 3	56J10- 22	COARSE ALIGN MODE COMMAND FROM AGC	308
*	A 3	56TB1-K 4	56P01- 38	ZERO ENCODER MODE COMMAND FROM AGC	
*	A 479W	56TB1-K 4	56J10- 21	ZERO ENCODER MODE COMMAND FROM AGC	307
*	A 5	56TB1-K 5	56P01- 13	FINE ALIGN MODE COMMAND FROM AGC	
*	A 479R	56TB1-K 5	56J10- 24	FINE ALIGN MODE COMMAND FROM AGC	310
*	A 7	56TB1-K 6	56P01- 58	ENTRY MODE COMMAND FROM AGC	
*	A 480R	56TB1-K 6	56J10- 25	ENTRY MODE COMMAND FROM AGC	311
*	A 154	56TB1-K 7	56J06- 12	MODE RELAY COMMON TO AGC	
*	A 480W	56TB1-K 7	56J10- 26	MODE RELAY COMMON TO AGC	312
*	A 521	56TB1-K 7	56J10- 13	MODE RELAY COMMON TO AGC	315
*	A 6	56TB1-K 8	56P01- 27	CDU MANUAL MODE COMMAND FROM AGC	
*	A 480L	56TB1-K 8	56J10- 23	CDU MANUAL MODE COMMAND FROM AGC	309
*	A 349	56TB1-L 2	56P09- 33	X PIP ERROR MONITOR	
*	AA120	56TB1-L 2	56J13-D2	X PIP ERROR MONITOR	
*	A 293W	56TB1-L 3	56P07-P	Y PIP TORQUE RET	
*	AA122W	56TB1-L 3	56J13-M3	Y PIP TORQUE RET	
*	A 293R	56TB1-L 4	56P07-N	Y PIP TORQUE +	
*	AA122R	56TB1-L 4	56J13-L3	Y PIP TORQUE +	
*	A 294L	56TB1-L 5	56P07-W	X PIP TORQUE -	
*	AA119L	56TB1-L 5	56J13-L1	X PIP TORQUE -	
*	A 294W	56TB1-L 6	56P07-V	X PIP TORQUE RET	
*	AA119W	56TB1-L 6	56J13-K1	X PIP TORQUE RET	
*	A 290L	56TB1-L 7	56P07-F	X GYRO TORQUE -	
*	AA124L	56TB1-L 7	56J13-G6	X GYRO TORQUE -	
*	A 290W	56TB1-L 8	56P07-E	X GYRO TORQUE RET	
*	AA124W	56TB1-L 8	56J13-F6	X GYRO TORQUE RET	
*	A 602K	56TB1-M 1	56P01- 90	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
*	A 605K	56TB1-M 1	56J09- 63	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
*	A 350	56TB1-M 2	56P09- 43	Y PIP ERROR MONITOR	
*	AA123	56TB1-M 2	56J13-F2	Y PIP ERROR MONITOR	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 296R	56TB1-M 3	56P07-Z	Y PIP ERROR HI
*	AA121W	56TB1-M 3	56J13-A3	Y PIP ERROR HI
*	A 293L	56TB1-M 4	56P07-R	Y PIP TORQUE -
*	AA122L	56TB1-M 4	56J13-N3	Y PIP TORQUE -
*	A 294R	56TB1-M 5	56P07-U	X PIP TORQUE +
*	AA119R	56TB1-M 5	56J13-H1	X PIP TORQUE +
*	A 295W	56TB1-M 6	56P07-Y	X PIP ERROR LO
*	AA118R	56TB1-M 6	56J13-B1	X PIP ERROR LO
*	A 295R	56TB1-M 7	56P07-X	X PIP ERROR HI
*	AA118W	56TB1-M 7	56J13-A1	X PIP ERROR HI
*	A 290R	56TB1-M 8	56P07-D	X GYRO TORQUE +
*	AA124R	56TB1-M 8	56J13-D6	X GYRO TORQUE +
*	A 602L	56TB1-N 1	56P01-106	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
*	A 605L	56TB1-N 1	56J09- 64	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
*	A 296W	56TB1-N 2	56P07-A*	Y PIP ERROR LO
*	AA121R	56TB1-N 2	56J13-B3	Y PIP ERROR LO
*	A 603R	56TB1-N 3	56J08- 55	PROJECTION LAMP HI INTENSITY
*	A 604R	56TB1-N 3	56J09- 55	PROJECTION LAMP HI INTENSITY
	A 293B	56TB1-N 4	SHLD A 293	0 VDC IMU
	A 587	56TB1-N 4	56TB1-N 5	0 VDC IMU
	AA122B	56TB1-N 4	SHLD AA122	0 VDC IMU
	AA588	56TB1-N 4	56TB1-S 8	0 VDC IMU
	AA589	56TB1-N 4	56TB2-M 5	0 VDC IMU
*	A 656	56TB1-N 4	56P12-D	0 VDC IMU
	A 294B	56TB1-N 5	SHLD A 294	0 VDC IMU
	A 588	56TB1-N 5	56TB1-N 8	0 VDC IMU
	AA119B	56TB1-N 5	SHLD AA119	0 VDC IMU
*	A 587	56TB1-N 5	56TB1-N 4	0 VDC IMU
*	AA 99	56TB1-N 5	56J12-R2	0 VDC IMU
	A 290B	56TB1-N 8	SHLD A 290	0 VDC IMU
	AA124B	56TB1-N 8	SHLD AA124	0 VDC IMU
*	A 588	56TB1-N 8	56TB1-N 5	0 VDC IMU
*	A 649	56TB1-N 8	56P11-D	0 VDC IMU
*	AA100	56TB1-N 8	56J12-R4	0 VDC IMU
*	AA587	56TB1-N 8	56TB1-D 8	0 VDC IMU
	AA611	56TB1-R 1	56TB1-S 1	400 CPS VAR ILLUM PWR
*	A 602R	56TB1-R 1	56P01-103	400 CPS VAR ILLUM PWR
*	A 605R	56TB1-R 1	56J09- 54	400 CPS VAR ILLUM PWR
	AA512	56TB1-R 2	56TB1-S 2	400 CPS 6 V LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 224B	56TB1-D 7	SHLD A 224	0 VDC IMU	
	A 229B	56TB1-D 7	SHLD A 229	0 VDC IMU	
	AA572	56TB1-D 7	56TB1-D 8	0 VDC IMU	
	AA590	56TB1-D 7	56TB2-V 2	0 VDC IMU	
*	A 662	56TB1-D 7	56P12-F	0 VDC IMU	
	A 230B	56TB1-D 8	SHLD A 230	0 VDC IMU	
	AA587	56TB1-D 8	56TB1-N 8	0 VDC IMU	
*	AA572	56TB1-D 8	56TB1-D 7	0 VDC IMU	
*	A 466	56TB1-F 1	56J10- 7	SPARE FAIL LIGHT HI	305
*	A 565	56TB1-F 1	56J08- 50	SPARE FAIL LIGHT HI	
*	A 158	56TB1-F 8	56J06- 81	ATTIT CONT MODE COMMAND FROM AGC	
*	A 475	56TB1-F 8	56J10- 12	ATTIT CONT MODE COMMAND FROM AGC	314
*	A 179	56TB1-G 1	56J08- 67	+28 VDC MDV	
*	A 410	56TB1-G 1	56J09- 67	+28 VDC MDV	
*	A 271L	56TB1-G 2	56P06-C	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 319R	56TB1-G 2	56P09- 67	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	AA 60W	56TB1-G 2	56J12-P2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 324W	56TB1-G 4	56P09- 81	25.6 KC LO IMU	
*	A 564R	56TB1-G 4	56E 3	25.6 KC LO IMU	
*	AA 64R	56TB1-G 4	56J12-P5	25.6 KC LO IMU	
*	A 508	56TB1-G 5	56J10- 10	+28 VDC TO COMPUTER RELAY	327
*	AA 79	56TB1-G 5	56J12-M4	+28 VDC TO COMPUTER RELAY	
*	A 325W	56TB1-G 7	56P09- 80	25.6 KC LO OPTICS	
*	A 560W	56TB1-G 7	56E 16	25.6 KC LO OPTICS	
*	AA 63R	56TB1-G 7	56J12-N6	25.6 KC LO OPTICS	
*	A 271W	56TB1-H 2	56P06-B	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 319L	56TB1-H 2	56P09- 78	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	AA 60R	56TB1-H 2	56J12-R1	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 271R	56TB1-H 3	56P06-A	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 319W	56TB1-H 3	56P09- 79	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 60L	56TB1-H 3	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 324R	56TB1-H 4	56P09- 69	25.6 KC HI IMU	
*	A 564W	56TB1-H 4	56E 4	25.6 KC HI IMU	
*	AA 64W	56TB1-H 4	56J12-N4	25.6 KC HI IMU	
*	A 478	56TB1-H 5	56J10- 9	AGC FAIL SIG	326
*	AA 78	56TB1-H 5	56J12-M3	AGC FAIL SIG	
*	A 198	56TB1-H 6	56J08- 71	AGC POWER SUPPLY FAIL SIG HI	
*	A 332	56TB1-H 6	56P09- 13	AGC POWER SUPPLY FAIL SIG HI	
*	AA 80	56TB1-H 6	-- 56J12-M1	AGC POWER SUPPLY FAIL SIG HI	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 603K	56TB1-R 2	56J08- 19	400 CPS 6 V LO
*	A 603W	56TB1-R 2	56J08- 36	400 CPS 6 V LO
*	A 663R	56TB1-R 2	56P10- 94	400 CPS 6 V LO
*	A 603L	56TB1-R 3	56J08- 46	PROJECTION LAMP LO INTENSITY
*	A 604W	56TB1-R 3	56J09- 46	PROJECTION LAMP LO INTENSITY
	AA612	56TB1-S 1	56TB1-T 1	400 CPS VAR ILLUM PWR
*	A 153R	56TB1-S 1	56J06-108	400 CPS VAR ILLUM PWR
*	A 561R	56TB1-S 1	56E 9	400 CPS VAR ILLUM PWR
*	AA611	56TB1-S 1	56TB1-R 1	400 CPS VAR ILLUM PWR
	AA511	56TB1-S 2	56TB1-T 2	400 CPS 6 V LO
*	A 153W	56TB1-S 2	56J06-107	400 CPS 6 V LO
*	A 561W	56TB1-S 2	56E 10	400 CPS 6 V LO
*	A 663W	56TB1-S 2	56P10- 95	400 CPS 6 V LO
*	AA512	56TB1-S 2	56TB1-R 2	400 CPS 6 V LO
	A 292B	56TB1-S 3	SHLD A 292	0 VDC IMU
	AA591	56TB1-S 3	56TB2-M 4	0 VDC IMU
	AA632	56TB1-S 3	56TB1-S 4	0 VDC IMU
*	A 659	56TB1-S 3	56P12-E	0 VDC IMU
*	AA 46	56TB1-S 3	56J11-P6	0 VDC IMU
	AA127B	56TB1-S 4	SHLD AA127	0 VDC IMU
	AA633	56TB1-S 4	56TB1-S 5	0 VDC IMU
*	AA632	56TB1-S 4	56TB1-S 3	0 VDC IMU
	AA133B	56TB1-S 5	SHLD AA133	0 VDC IMU
	AA634	56TB1-S 5	56TB1-S 6	0 VDC IMU
*	A 211	56TB1-S 5	56J08- 92	0 VDC IMU
*	A 343	56TB1-S 5	56P09- 23	0 VDC IMU
*	A 452	56TB1-S 5	56P10- 13	0 VDC IMU
*	AA633	56TB1-S 5	56TB1-S 4	0 VDC IMU
	A 291B	56TB1-S 6	SHLD A 291	0 VDC IMU
*	A 650	56TB1-S 6	56P11-D	0 VDC IMU
*	AA 98	56TB1-S 6	56J12-R5	0 VDC IMU
*	AA601	56TB1-S 6	56TB1-S 7	0 VDC IMU
*	AA634	56TB1-S 6	56TB1-S 5	0 VDC IMU
	AA601	56TB1-S 7	56TB1-S 6	0 VDC IMU
	AA602	56TB1-S 7	56TB2-D 8	0 VDC IMU
*	A 556	56TB1-S 7	56E 19	0 VDC IMU
*	AA600	56TB1-S 7	56TB1-S 8	0 VDC IMU
	A 289B	56TB1-S 8	SHLD A 289	0 VDC IMU
	AA136B	56TB1-S 8	SHLD AA136	0 VDC IMU

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014607
SCALE-NONE
REV LTR F
SHEET 88

INCHES
0 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 1W	56TB2-A 1	56P01- 95	PANEL BRIGHTNESS CONTROL
*	A 431W	56TB2-A 1	56J09- 44	PANEL BRIGHTNESS CONTROL
*	A 1R	56TB2-A 2	56P01- 80	PANEL BRIGHTNESS CONTROL
*	A 431R	56TB2-A 2	56J09- 32	PANEL BRIGHTNESS CONTROL
	A 92B	56TB2-A 4	SHLD A 92	OG CDU ENCODER COM
*	A 92R	56TB2-A 4	56J03- 94	OG CDU ENCODER COM
*	AA163R	56TB2-A 4	56J15-D3	OG CDU ENCODER COM
	A 45B	56TB2-A 5	SHLD A 45	IG CDU ENCODER COM
*	A 45R	56TB2-A 5	56J01- 94	IG CDU ENCODER COM
*	AA161R	56TB2-A 5	56J15-C1	IG CDU ENCODER COM
*	A 69L	56TB2-A 6	56J02-108	MG CDU ENCODER PHASE 2
*	AA162R	56TB2-A 6	56J15-D2	MG CDU ENCODER PHASE 2
*	A 220R	56TB2-A 7	56P02-J	SIN AMG 16X S2
*	AA172W	56TB2-A 7	56J15-F8	SIN AMG 16X S2
*	A 226R	56TB2-A 8	56P02-Y	SIN AIG 16X S2
*	AA171W	56TB2-A 8	56J15-D8	SIN AIG 16X S2
*	A 11	56TB2-B 1	56P01- 69	LOCK CDU RELAY CONTROL
*	AA174	56TB2-B 1	56J15-S3	LOCK CDU RELAY CONTROL
*	A 8	56TB2-B 2	56P01- 12	ZERO ENCODER RELAY CONTROL
*	AA173	56TB2-B 2	56J15-S1	ZERO ENCODER RELAY CONTROL
*	A 92W	56TB2-B 4	56J03-107	OG CDU ENCODER PHASE 1
*	AA163W	56TB2-B 4	56J15-D4	OG CDU ENCODER PHASE 1
*	A 45W	56TB2-B 5	56J01-107	IG CDU ENCODER PHASE 1
*	AA161W	56TB2-B 5	56J15-C2	IG CDU ENCODER PHASE 1
*	A 69W	56TB2-B 6	56J02-107	MG CDU ENCODER PHASE 1
*	AA162W	56TB2-B 6	56J15-F1	MG CDU ENCODER PHASE 1
*	A 68R	56TB2-B 7	56J02-101	SIN AMG 16X S4
*	A 220W	56TB2-B 7	56P02-K	SIN AMG 16X S4
*	AA172R	56TB2-B 7	56J15-F9	SIN AMG 16X S4
*	A 44R	56TB2-B 8	56J01-101	SIN AIG 16X S4
*	A 226W	56TB2-B 8	56P02-Z	SIN AIG 16X S4
*	AA171R	56TB2-B 8	56J15-D7	SIN AIG 16X S4
*	A 10	56TB2-C 1	56P01- 5	FINE ALIGN RELAY CONTROL
*	AA170	56TB2-C 1	56J15-H4	FINE ALIGN RELAY CONTROL
*	A 30	56TB2-C 2	56P01- 37	BACKUP MODE RELAY CONTROL
*	A 159	56TB2-C 2	56J06- 37	BACKUP MODE RELAY CONTROL
*	AA156	56TB2-C 2	56J15-R1	BACKUP MODE RELAY CONTROL
*	A 92L	56TB2-C 4	56J03-108	OG CDU ENCODER PHASE 2
*	AA163L	56TB2-C 4	56J15-C3	OG CDU ENCODER PHASE 2

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SCALE-NONE	REV LTR	F	SHEET	90

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 45L	56TB2-C 5	56J01-108	IG CDU ENCODER PHASE 2
*	AA161L	56TB2-C 5	56J15-D1	IG CDU ENCODER PHASE 2
	A 69B	56TB2-C 6	SHLD A 69	MG CDU ENCODER COM
*	A 69R	56TB2-C 6	56J02- 94	MG CDU ENCODER COM
*	AA162L	56TB2-C 6	56J15-F2	MG CDU ENCODER COM
*	A 68W	56TB2-C 7	56J02- 87	SIN AMG 16X TO CDU
*	AA172L	56TB2-C 7	56J15-D9	SIN AMG 16X TO CDU
*	A 44W	56TB2-C 8	56J01- 87	SIN AIG 16X TO CDU
*	AA171L	56TB2-C 8	56J15-F7	SIN AIG 16X TO CDU
*	A 557	56TB2-D 1	56E 8	+28 VDC CDU NOT LOCK
*	AA177	56TB2-D 1	56J15-R6	+28 VDC CDU NOT LOCK
	AA569L	56TB2-D 2	56J16-B7	AGC COM
*	A 13W	56TB2-D 2	56P01- 68	AGC COM
*	A 155W	56TB2-D 2	56J06- 68	AGC COM
*	AA176L	56TB2-D 2	56J15-B3	AGC COM
*	AA487L	56TB2-D 2	56J21-121	AGC COM
	A 13B	56TB2-D 3	SHLD A 13	AGC SIG 178 SHLD RET
	A 155B	56TB2-D 3	SHLD A 155	AGC SIG 178 SHLD RET
	AA176B	56TB2-D 3	SHLD AA176	AGC SIG 178 SHLD RET
	AA487B	56TB2-D 3	SHLD AA487	AGC SIG 178 SHLD RET
*	AA569A	56TB2-D 3	SHLD AA569	AGC SIG 178 SHLD RET
	AA606	56TB2-D 4	56TB2-F 4	0 VDC IMU
	AA608	56TB2-D 4	56E 27	0 VDC IMU
*	A 287	56TB2-D 4	56P06-E	0 VDC IMU
*	A 652	56TB2-D 4	56P11-F	0 VDC IMU
*	AA605	56TB2-D 4	56TB2-D 5	0 VDC IMU
	A 458	56TB2-D 5	56E 48	0 VDC IMU
	AA605	56TB2-D 5	56TB2-D 4	0 VDC IMU
*	A 384	56TB2-D 5	56P09- 84	0 VDC IMU
*	A 550	56TB2-D 5	56E 21	0 VDC IMU
*	AA604	56TB2-D 5	56TB2-D 6	0 VDC IMU
	AA604	56TB2-D 6	56TB2-D 5	0 VDC IMU
*	A 214	56TB2-D 6	56J08- 82	0 VDC IMU
*	A 450	56TB2-D 6	56J09- 26	0 VDC IMU
*	A 549	56TB2-D 6	56E 20	0 VDC IMU
*	AA603	56TB2-D 6	56TB2-D 7	0 VDC IMU
	A 68B	56TB2-D 7	SHLD A 68	0 VDC IMU
	A 220B	56TB2-D 7	SHLD A 220	0 VDC IMU
	AA577	56TB2-D 7	56TB2-D 8	0 VDC IMU

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SCALE-NONE	REV LTR	F	SHEET	91

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA600	56TB1-S 8	56TB1-S 7	0 VDC IMU
*	AA588	56TB1-S 8	56TB1-N 4	0 VDC IMU
*	A 266R	56TB1-T 1	56P05-L	400 CPS VAR ILLUM PWR
*	A 314R	56TB1-T 1	56P08-R*	400 CPS VAR ILLUM PWR
*	A 602W	56TB1-T 1	56P01-108	400 CPS VAR ILLUM PWR
*	AA612	56TB1-T 1	56TB1-S 1	400 CPS VAR ILLUM PWR
*	A 266W	56TB1-T 2	56P05-M	400 CPS 6 V LO
*	A 314W	56TB1-T 2	56P08-S*	400 CPS 6 V LO
*	A 663L	56TB1-T 2	56P10- 81	400 CPS 6 V LO
*	AA511	56TB1-T 2	56TB1-S 2	400 CPS 6 V LO
*	A 292W	56TB1-T 3	56P07-L	Z PIP TORQUE RET
*	AA127W	56TB1-T 3	56J14-P3	Z PIP TORQUE RET
*	A 297W	56TB1-T 4	56P07-C*	Z PIP ERROR LO
*	AA126R	56TB1-T 4	56J14-A2	Z PIP ERROR LO
*	A 297R	56TB1-T 5	56P07-B*	Z PIP ERROR HI
*	AA126W	56TB1-T 5	56J14-A1	Z PIP ERROR HI
*	A 291R	56TB1-T 6	56P07-G	Y GYRO TORQUE +
*	AA133R	56TB1-T 6	56J14-M1	Y GYRO TORQUE +
*	A 351	56TB1-T 7	56P09- 44	Z PIP ERROR MONITOR
*	AA128	56TB1-T 7	56J14-H6	Z PIP ERROR MONITOR
*	A 289R	56TB1-T 8	56P07-A	Z GYRO TORQUE +
*	AA136R	56TB1-T 8	56J14-L6	Z GYRO TORQUE +
*	A 22	56TB1-U 2	56P01- 26	IMU DELAY LIGHT HI
*	A 193	56TB1-U 2	56J08- 42	IMU DELAY LIGHT HI
*	A 345	56TB1-U 2	56P09- 46	IMU DELAY LIGHT HI
*	A 292L	56TB1-U 3	56P07-M	Z PIP TORQUE -
*	AA127L	56TB1-U 3	56J14-P2	Z PIP TORQUE -
*	A 292R	56TB1-U 4	56P07-K	Z PIP TORQUE +
*	AA127R	56TB1-U 4	56J14-P1	Z PIP TORQUE +
*	A 291W	56TB1-U 5	56P07-H	Y GYRO TORQUE RET
*	AA133W	56TB1-U 5	56J14-M3	Y GYRO TORQUE RET
*	A 291L	56TB1-U 6	56P07-J	Y GYRO TORQUE -
*	AA133L	56TB1-U 6	56J14-M2	Y GYRO TORQUE -
*	A 289W	56TB1-U 7	56P07-B	Z GYRO TORQUE RET
*	AA136W	56TB1-U 7	56J14-N6	Z GYRO TORQUE RET
*	A 289L	56TB1-U 8	56P07-C	Z GYRO TORQUE -
*	AA136L	56TB1-U 8	56J14-M6	Z GYRO TORQUE -

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607		
SCALE-NONE	REV LTR	F	SHEET	89

MIL 2084 4-63

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA603	56TB2-D 7	56TB2-D 6	0 VDC IMU
	A 44B	56TB2-D 8	SHLD A 44	0 VDC IMU
	A 226B	56TB2-D 8	SHLD A 226	0 VDC IMU
*	AA577	56TB2-D 8	56TB2-D 7	0 VDC IMU
*	AA602	56TB2-D 8	56TB1-S 7	0 VDC IMU
	A 24B	56TB2-F 2	SHLD A 24	IG CDU ERROR SIG RET
	A 39B	56TB2-F 2	SHLD A 39	IG CDU ERROR SIG RET
	A 364B	56TB2-F 2	SHLD A 364	IG CDU ERROR SIG RET
	AA580	56TB2-F 2	56TB2-G 2	IG CDU ERROR SIG RET
	AA569R	56TB2-F 3	56E 60	
*	A 13R	56TB2-F 3	56E 61	
*	A 155R	56TB2-F 3	56E 55	
*	AA176R	56TB2-F 3	56E 59	
*	AA487R	56TB2-F 3	56J21-122	
*	A 385	56TB2-F 4	56P09- 32	0 VDC IMU
*	AA606	56TB2-F 4	56TB2-D 4	0 VDC IMU
	A 25B	56TB2-F 7	SHLD A 25	MG CDU ERROR SIG RET
	A 63B	56TB2-F 7	SHLD A 63	MG CDU ERROR SIG RET
	A 365B	56TB2-F 7	SHLD A 365	MG CDU ERROR SIG RET
	AA579	56TB2-F 7	56TB2-G 7	MG CDU ERROR SIG RET
	A 42B	56TB2-G 1	SHLD A 42	IG CDU ERROR SIG RET
*	A 42W	56TB2-G 1	56J01- 90	IG CDU ERROR SIG RET
*	AA196R	56TB2-G 1	56J16-D2	IG CDU ERROR SIG RET
*	A 24W	56TB2-G 2	56P01- 71	IG CDU ERROR SIG RET
*	A 39W	56TB2-G 2	56J01- 45	IG CDU ERROR SIG RET
*	A 364W	56TB2-G 2	56P09- 82	IG CDU ERROR SIG RET
*	AA 15R	56TB2-G 2	56J11-B1	IG CDU ERROR SIG RET
*	AA195R	56TB2-G 2	56J16-D2	IG CDU ERROR SIG RET
*	AA580	56TB2-G 2	56TB2-F 2	IG CDU ERROR SIG RET
*	A 38W	56TB2-G 3	56J01- 57	IG CDU ERROR SIG RET S1
*	AA194R	56TB2-G 3	56J16-D2	IG CDU ERROR SIG RET
*	A 19R	56TB2-G 4	56P01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 216R	56TB2-G 4	56P02-A	800 CPS 28 V 1 PCT HI IMU
*	A 577R	56TB2-G 4	56E 1	800 CPS 28 V 1 PCT HI IMU
*	AA222R	56TB2-G 4	56J16-S4	800 CPS 28 V 1 PCT HI IMU
*	AA409W	56TB2-G 4	56J20-F5	800 CPS 28 V 1 PCT HI IMU
*	A 216W	56TB2-G 5	56P02-B	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	AA222W	56TB2-G 5	56J16-P4	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	A 62W	56TB2-G 6	56J02- 57	MG CDU ERROR SIG RET

165B

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607		
SCALE-NONE	REV LTR	F	SHEET	92

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA553	56TB3-R15	56TB3-S15	0 VDC OPTICS
*	AA535	56TB3-R15	56TB3-N15	0 VDC OPTICS
*	A 302W	56TB3-R16	56P08-P	SCT TRUNNION TACH LO
*	AA372R	56TB3-R16	56J19-A8	SCT TRUNNION TACH LO
*	A 302R	56TB3-R17	56P08-N	SCT TRUNNION TACH HI
*	AA372W	56TB3-R17	56J19-A9	SCT TRUNNION TACH HI
*	A 305	56TB3-R18	56P08-U	SCT TRUNNION 1X RSVR LOAD
*	AA378	56TB3-R18	56J19-A7	SCT TRUNNION 1X RSVR LOAD
*	A 386W	56TB3-R19	56P09- 7	+2.5 VDC CONDITIONING HI
*	AA463W	56TB3-R19	56J20-D5	+2.5 VDC CONDITIONING HI
*	A 330	56TB3-R20	56P09- 4	+28 VDC AGC
*	AA422	56TB3-R20	56J20-H4	+28 VDC AGC
	A 236B	56TB3-S 3	SHLD A 236	0 VDC IMU
	AA265B	56TB3-S 3	SHLD AA265	0 VDC IMU
*	A 657	56TB3-S 3	56P12-D	0 VDC IMU
*	AA296	56TB3-S 3	56J17-S1	0 VDC IMU
*	AA631	56TB3-S 3	56TB3-R 3	0 VDC IMU
*	A 116L	56TB3-S 4	56J04-108	SHAFT CDU ENCODER PHASE 2
*	AA284L	56TB3-S 4	56J17-F9	SHAFT CDU ENCODER PHASE 2
	A 116B	56TB3-S 5	SHLD A 116	SHAFT CDU ENCODER COM
*	A 116R	56TB3-S 5	56J04- 94	SHAFT CDU ENCODER COM
*	AA284R	56TB3-S 5	56J17-D9	SHAFT CDU ENCODER COM
*	A 116W	56TB3-S 6	56J04-107	SHAFT CDU ENCODER PHASE 1
*	AA284W	56TB3-S 6	56J17-C9	SHAFT CDU ENCODER PHASE 1
*	A 253W	56TB3-S 7	56P05-B*	SXT AT 64X RSVR COS LO
*	AA308R	56TB3-S 7	56J18-B1	SXT AT 64X RSVR COS LO
*	A 253R	56TB3-S 8	56P05-A*	SXT AT 64X RSVR COS HI
*	AA308L	56TB3-S 8	56J18-A1	SXT AT 64X RSVR COS HI
	A 138B	56TB3-S 9	SHLD A 138	0 VDC OPTICS
	A 253B	56TB3-S 9	SHLD A 253	0 VDC OPTICS
	AA310B	56TB3-S 9	SHLD AA310	0 VDC OPTICS
	AA548	56TB3-S 9	56TB3-T 9	0 VDC OPTICS
*	AA547	56TB3-S 9	56TB3-R 9	0 VDC OPTICS
*	A 138W	56TB3-S10	56J05- 87	TRUNNION CDU 16X RSVR SIN HI P2
*	AA310L	56TB3-S10	56J18-B3	TRUNNION CDU 16X RSVR SIN HI P2
*	A 138R	56TB3-S11	56J05-101	TRUNNION CDU 16X RSVR SIN LO P4
*	AA310R	56TB3-S11	56J18-B4	TRUNNION CDU 16X RSVR SIN LO P4
*	A 109W	56TB3-S12	56J04- 35	SHAFT CDU 1X P2 (S2)
*	AA328R	56TB3-S12	56J18-L5	SHAFT CDU 1X P2 (S2)

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607	
SCALE - NONE	REV LTR	F	SHEET 117

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 306R	56TB3-S13	56P08-V	SCT TRUNNION 1X SIN LO
*	AA383W	56TB3-S13	56J19-G3	SCT TRUNNION 1X SIN LO
*	A 306W	56TB3-S14	56P08-W	SCT TRUNNION 1X SIN HI
*	AA383R	56TB3-S14	56J19-G2	SCT TRUNNION 1X SIN HI
	A 257B	56TB3-S15	SHLD A 257	0 VDC OPTICS
	A 260B	56TB3-S15	SHLD A 260	0 VDC OPTICS
	A 302B	56TB3-S15	SHLD A 302	0 VDC OPTICS
	AA536	56TB3-S15	56TB3-T15	0 VDC OPTICS
*	AA553	56TB3-S15	56TB3-R15	0 VDC OPTICS
*	A 260W	56TB3-S16	56P05-V*	SXT SHAFT TACH LO
*	AA371R	56TB3-S16	56J19-A2	SXT SHAFT TACH LO
*	A 260R	56TB3-S17	56P05-U*	SXT SHAFT TACH HI
*	AA371W	56TB3-S17	56J19-A3	SXT SHAFT TACH HI
*	A 264	56TB3-S18	56P05-AA	SXT SHAFT 1/2X RSVR LOAD
*	AA376	56TB3-S18	56J19-C5	SXT SHAFT 1/2X RSVR LOAD
*	A 317W	56TB3-S19	56P09- 6	0 VDC CONDITIONING
*	AA427W	56TB3-S19	56J20-C5	0 VDC CONDITIONING
*	A 386R	56TB3-S20	56P09- 21	+2.5 VDC CONDITIONING LO
*	AA463R	56TB3-S20	56J20-D4	+2.5 VDC CONDITIONING LO
	A 559	56TB3-S21	56E 6	+28 VDC IMU
	AA560	56TB3-S21	56TB3-T21	+28 VDC IMU
*	A 21	56TB3-S21	56P01- 7	+28 VDC IMU
*	AA456	56TB3-S21	56J20-K2	+28 VDC IMU
	A 237B	56TB3-T 3	SHLD A 237	0 VDC IMU
	A 591	56TB3-T 3	56TB3-R 3	0 VDC IMU
	AA635	56TB3-T 3	56TB2-V 8	0 VDC IMU
*	A 658	56TB3-T 3	56P12-E	0 VDC IMU
*	AA248	56TB3-T 3	56J17-S2	0 VDC IMU
*	AA592	56TB3-T 3	56TB2-M 6	0 VDC IMU
*	A 139W	56TB3-T 4	56J05-107	TRUNNION CDU ENCODER PHASE 1
*	AA281W	56TB3-T 4	56J17-A6	TRUNNION CDU ENCODER PHASE 1
	A 139B	56TB3-T 5	SHLD A 139	TRUNNION CDU ENCODER COM
*	A 139R	56TB3-T 5	56J05- 94	TRUNNION CDU ENCODER COM
*	AA281R	56TB3-T 5	56J17-A7	TRUNNION CDU ENCODER COM
*	A 139L	56TB3-T 6	56J05-108	TRUNNION CDU ENCODER PHASE 2
*	AA281L	56TB3-T 6	56J17-A8	TRUNNION CDU ENCODER PHASE 2
*	A 252W	56TB3-T 7	56P05-Z	SXT AT 64X RSVR SIN HI
*	AA307R	56TB3-T 7	56J18-B2	SXT AT 64X RSVR SIN HI
*	A 252R	56TB3-T 8	56P05-Y	SXT AT 64X RSVR SIN LO

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607	
SCALE - NONE	REV LTR	F	SHEET 118

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA307L	56TB3-T 8	56J18-C2	SXT AT 64X RSVR SIN LO
	A 137B	56TB3-T 9	SHLD A 137	0 VDC OPTICS
	A 252B	56TB3-T 9	SHLD A 252	0 VDC OPTICS
	AA309B	56TB3-T 9	SHLD AA309	0 VDC OPTICS
	AA549	56TB3-T 9	56TB3-T15	0 VDC OPTICS
*	AA548	56TB3-T 9	56TB3-S 9	0 VDC OPTICS
*	A 137W	56TB3-T10	56J05- 86	TRUNNION CDU 16X RSVR COS HI P1
*	AA309L	56TB3-T10	56J18-A2	TRUNNION CDU 16X RSVR COS HI P1
*	A 137R	56TB3-T11	56J05-100	TRUNNION CDU 16X RSVR COS LO P3
*	AA309R	56TB3-T11	56J18-A3	TRUNNION CDU 16X RSVR COS LO P3
*	A 109L	56TB3-T12	56J04- 34	SHAFT CDU 1X P1 (S1)
*	AA328W	56TB3-T12	56J18-K6	SHAFT CDU 1X P1 (S1)
*	A 307W	56TB3-T13	56P08-Y	SCT TRUNNION 1X COS LO
*	AA382R	56TB3-T13	56J19-G1	SCT TRUNNION 1X COS LO
*	A 307R	56TB3-T14	56P08-X	SCT TRUNNION 1X COS HI
*	AA382W	56TB3-T14	56J19-H1	SCT TRUNNION 1X COS HI
	A 306B	56TB3-T15	SHLD A 306	0 VDC OPTICS
	A 307B	56TB3-T15	SHLD A 307	0 VDC OPTICS
*	A 664	56TB3-T15	56TB3-B15	0 VDC OPTICS
*	AA536	56TB3-T15	56TB3-S15	0 VDC OPTICS
*	AA549	56TB3-T15	56TB3-T 9	0 VDC OPTICS
*	A 257R	56TB3-T16	56P05-K*	SXT TRUNNION TACH HI
*	AA370W	56TB3-T16	56J19-A1	SXT TRUNNION TACH HI
*	A 257W	56TB3-T17	56P05-M*	SXT TRUNNION TACH LO
*	AA370R	56TB3-T17	56J19-B1	SXT TRUNNION TACH LO
*	A 311	56TB3-T18	56P08-H*	SCT SHAFT 1/2X RSVR LOAD
*	AA380	56TB3-T18	56J19-C7	SCT SHAFT 1/2X RSVR LOAD
*	A 317R	56TB3-T19	56P09- 5	+20 VDC CONDITIONING
*	AA427R	56TB3-T19	56J20-B5	+20 VDC CONDITIONING
	AA559	56TB3-T20	56TB3-T21	+28 VDC IMU
*	A 244	56TB3-T20	56P03-H*	+28 VDC IMU
*	A 284	56TB3-T20	56P06-D	+28 VDC IMU
*	AA454	56TB3-T20	56J20-K1	+28 VDC IMU
*	A 327	56TB3-T21	56P09- 19	+28 VDC IMU
*	AA455	56TB3-T21	56J20-K1	+28 VDC IMU
*	AA559	56TB3-T21	56TB3-T20	+28 VDC IMU
*	AA560	56TB3-T21	56TB3-S21	+28 VDC IMU

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607	
SCALE - NONE	REV LTR	F	SHEET 119

MIL 2084 4-63

APPLICATION	
NEXT ASSY	USED ON

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
F_2	F_1 REPLACES REV E WITH CHANGE F_2 CHANGED PER TDRR 05588	31Dec 63	WK
G	G REPLACED BY H PER TDRR 06999	24March64	WK

Ⓗ REPLACES REV Ⓖ WITH CHANGE

SEE SHEET 2 FOR REVISION STATUS OF SHEETS

REV	
SHEET	
REV STATUS OF SHEETS — REV	
REV STATUS OF SHEETS — SHEET	

AC SPARK PLUG DIVISION , GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN A. ALDERSON DATE 12-30-63
CHECKED A. Alderson 12-30-63
APPROVAL 12/30/63
APPROVAL

NASA APPROVAL W. J. Smith 12/31/63
MIT APPROVAL W Kupfer 31Dec63

CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION LIST OF AGE INTERCONNECT HARNESS AND PSA END CONNECTOR ASSY

CODE IDENT NO.	SIZE		REV
	A	1014607	G

SCALE —
SHEET 1 OF 119

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

(H1) REPLACES REV G WITH CHANGE

SEE SHEET 2 FOR REVISION STATUS OF SHEETS

APPLICATION	
NEXT ASSY	USED ON

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
H_2	H_1 REPLACES REV G WITH CHANGE H_2 CHANGED PER TDRR 06999	24 MARCH 1964	W/K.

REV	
SHEET	
REV STATUS OF SHEETS	REV
	SHEET

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN A. Alderson DATE 12-30-63
CHECKED 2-16-64
APPROVAL 2/17/64
APPROVAL
NASA APPROVAL
MIT APPROVAL 24 Feb 64
CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION LIST OF AGE INTERCONNECT HARNESS AND PSA END CONNECTOR ASSY

CODE IDENT NO. | SIZE A | 1014607 | REV H

SCALE —— SHEET 1 OF 121

INTERCONNECT LIST

CONDUCTOR FROM TO SIGNAL DESCRIPTION

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
1	H	31	H	61	H	91	H	121	H
2	H	32	H	62	H	92	H		
3	H	33	H	63	H	93	H		
4	H	34	H	64	H	94	H		
5	H	35	H	65	H	95	H		
6	H	36	H	66	H	96	H		
7	H	37	H	67	H	97	H		
8	H	38	H	68	H	98	H		
9	H	39	H	69	H	99	H		
10	H	40	H	70	H	100	H		
11	H	41	H	71	H	101	H		
12	H	42	H	72	H	102	H		
13	H	43	H	73	H	103	H		
14	H	44	H	74	H	104	H		
15	H	45	H	75	H	105	H		
16	H	46	H	76	H	106	H		
17	H	47	H	77	H	107	H		
18	H	48	H	78	H	108	H		
19	H	49	H	79	H	109	H		
20	H	50	H	80	H	110	H		
21	H	51	H	81	H	111	H		
22	H	52	H	82	H	112	H		
23	H	53	H	83	H	113	H		
24	H	54	H	84	H	114	H		
25	H	55	H	85	H	115	H		
26	H	56	H	86	H	116	H		
27	H	57	H	87	H	117	H		
28	H	58	H	88	H	118	H		
29	H	59	H	89	H	119	H		
30	H	60	H	90	H	120	H		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014607
SCALE - NONE | REV LTR H | SHEET 2

MIL 2084 4-63

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 13B	SHLD A 13	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 14B	SHLD A 14	56E 44	AGC SIG 178 SHLD RET
*	A 15B	SHLD A 15	56E 44	AGC SIG 178 SHLD RET
*	A 16B	SHLD A 16	56E 44	AGC SIG 178 SHLD RET
*	A 23B	SHLD A 23	56TB2-S 2	OG CDU ERROR SIG RET
*	A 24B	SHLD A 24	56TB2-F 2	IG CDU ERROR SIG RET
*	A 25B	SHLD A 25	56TB2-F 7	MG CDU ERROR SIG RET
*	A 27B	SHLD A 27	56E 44	AGC SIG 178 SHLD RET
*	A 39B	SHLD A 39	56TB2-F 2	IG CDU ERROR SIG RET
*	A 40B	SHLD A 40	56TB3-H14	0 VDC IMU
*	A 41B	SHLD A 41	56TB3-H13	0 VDC IMU
*	A 42B	SHLD A 42	56TB2-G 1	IG CDU ERROR SIG RET
*	A 43B	SHLD A 43	56TB2-V 6	0 VDC IMU
*	A 44B	SHLD A 44	56TB2-D 8	0 VDC IMU
*	A 45B	SHLD A 45	56TB2-A 5	IG CDU ENCODER COM
*	A 51B	SHLD A 51	56TB2-T 7	IG CDU MDA INPUT RET
*	A 63B	SHLD A 63	56TB2-F 7	MG CDU ERROR SIG RET
*	A 64B	SHLD A 64	56E 48	0 VDC IMU
*	A 65B	SHLD A 65	56TB3-H12	0 VDC IMU
*	A 66B	SHLD A 66	56TB2-G 8	MG CDU ERROR SIG RET
*	A 67B	SHLD A 67	56TB2-V 5	0 VDC IMU
*	A 68B	SHLD A 68	56TB2-D 7	0 VDC IMU
*	A 69B	SHLD A 69	56TB2-C 6	MG CDU ENCODER COM
*	A 75B	SHLD A 75	56TB2-X 6	MG CDU MDA INPUT RET
*	A 86B	SHLD A 86	56TB2-S 2	OG CDU ERROR SIG RET
*	A 87B	SHLD A 87	56TB2-M 8	0 VDC IMU
*	A 88B	SHLD A 88	56TB2-V 8	0 VDC IMU
*	A 89B	SHLD A 89	56TB2-S 3	OG CDU ERROR SIG RET
*	A 90B	SHLD A 90	56TB2-V 4	0 VDC IMU
*	A 91B	SHLD A 91	56TB2-V 2	0 VDC IMU
*	A 92B	SHLD A 92	56TB2-A 4	OG CDU ENCODER COM
*	A 96B	SHLD A 96	56TB2-R 7	OG CDU MDA INPUT RET
*	A 107B	SHLD A 107	56TB3-H 9	0 VDC OPTICS
*	A 108B	SHLD A 108	56TB3-N15	0 VDC OPTICS
*	A 110B	SHLD A 110	56TB3-K 9	0 VDC OPTICS
*	A 111B	SHLD A 111	56TB3-G15	0 VDC OPTICS
*	A 112B	SHLD A 112	56TB3-H 9	0 VDC OPTICS
*	A 114B	SHLD A 114	56TB3-N 9	0 VDC OPTICS
*	A 115B	SHLD A 115	56TB3-N 9	0 VDC OPTICS

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014607
SCALE - NONE | REV LTR H | SHEET 3

MIL 2084 4-63

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 116B	SHLD A 116	56TB3-S 5	SHAFT CDU ENCODER COM
*	A 121B	SHLD A 121	56TB3-L 9	0 VDC OPTICS
*	A 130B	SHLD A 130	56TB3-G 9	0 VDC OPTICS
*	A 131B	SHLD A 131	56TB3-K15	0 VDC OPTICS
*	A 132B	SHLD A 132	56TB3-L 9	0 VDC OPTICS
*	A 134B	SHLD A 134	56TB3-R15	0 VDC OPTICS
*	A 135B	SHLD A 135	56TB3-H 9	0 VDC OPTICS
*	A 137B	SHLD A 137	56TB3-T 9	0 VDC OPTICS
*	A 138B	SHLD A 138	56TB3-S 9	0 VDC OPTICS
*	A 139B	SHLD A 139	56TB3-T 5	TRUNNION CDU ENCODER COM
*	A 144B	SHLD A 144	56TB3-M 9	0 VDC OPTICS
*	A 155B	SHLD A 155	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 156B	SHLD A 156	56E 44	AGC SIG 178 SHLD RET
*	A 217B	SHLD A 217	56TB2-V 3	0 VDC IMU
*	A 218B	SHLD A 218	56TB2-V 2	0 VDC IMU
*	A 219B	SHLD A 219	56TB2-V 5	0 VDC IMU
*	A 220B	SHLD A 220	56TB2-D 7	0 VDC IMU
*	A 221B	SHLD A 221	56E 48	0 VDC IMU
*	A 222B	SHLD A 222	56TB3-H12	0 VDC IMU
*	A 224B	SHLD A 224	56TB1-D 7	0 VDC IMU
*	A 225B	SHLD A 225	56TB2-V 6	0 VDC IMU
*	A 226B	SHLD A 226	56TB2-D 8	0 VDC IMU
*	A 227B	SHLD A 227	56TB3-H14	0 VDC IMU
*	A 228B	SHLD A 228	56TB3-H13	0 VDC IMU
*	A 229B	SHLD A 229	56TB1-D 7	0 VDC IMU
*	A 230B	SHLD A 230	56TB1-D 8	0 VDC IMU
*	A 232B	SHLD A 232	56TB2-M 8	0 VDC IMU
*	A 233B	SHLD A 233	56TB2-V 8	0 VDC IMU
*	A 234B	SHLD A 234	56TB1-B 5	IG CDU ERROR SIG RET
*	A 235B	SHLD A 235	56TB1-A 6	MG CDU ERROR SIG RET
*	A 236B	SHLD A 236	56TB3-S 3	0 VDC IMU
*	A 237B	SHLD A 237	56TB3-T 3	0 VDC IMU
*	A 248B	SHLD A 248	56TB3-R 9	0 VDC OPTICS
*	A 252B	SHLD A 252	56TB3-T 9	0 VDC OPTICS
*	A 253B	SHLD A 253	56TB3-S 9	0 VDC OPTICS
*	A 254B	SHLD A 254	56TB3-M15	0 VDC OPTICS
*	A 255B	SHLD A 255	56TB3-H15	0 VDC OPTICS
*	A 256B	SHLD A 256	56TB3-G 9	0 VDC OPTICS
*	A 257B	SHLD A 257	56TB3-S15	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 437B	SHLD A 437	56E 44	AGC SIG 178 SHLD RET
	A 440A	SHLD A 440	56E 44	AGC SIG 178 SHLD RET
*	A 449B	SHLD A 449	56E 44	AGC SIG 178 SHLD RET
	AA 70A	SHLD AA 70	56J12-H1	COMPUTER 102.4 KPPS SYNC RET
*	AA 92B	SHLD AA 92	56E 27	0 VDC IMU
*	AA119B	SHLD AA119	56TB1-N 5	0 VDC IMU
*	AA122B	SHLD AA122	56TB1-N 4	0 VDC IMU
*	AA124B	SHLD AA124	56TB1-N 8	0 VDC IMU
*	AA127B	SHLD AA127	56TB1-S 4	0 VDC IMU
*	AA133B	SHLD AA133	56TB1-S 5	0 VDC IMU
*	AA136B	SHLD AA136	56TB1-S 8	0 VDC IMU
*	AA176B	SHLD AA176	56TB2-D 3	AGC SIG 178 SHLD RET
	AA197A	SHLD AA197	56J16-B1	IG CDU MDA INPUT RET
	AA202A	SHLD AA202	56J16-B3	MG CDU MDA INPUT RET
	AA214A	SHLD AA214	56J16-B5	OG CDU MDA INPUT RET
	AA226A	SHLD AA226	56E 30	0 VDC IMU
	AA227A	SHLD AA227	56E 30	0 VDC IMU
	AA232A	SHLD AA232	56E 30	0 VDC IMU
*	AA232B	SHLD AA232	56E 31	0 VDC IMU
*	AA244B	SHLD AA244	56J22- 41	
*	AA245B	SHLD AA245	56J22- 5	
*	AA246B	SHLD AA246	56J22- 8	
*	AA265B	SHLD AA265	56TB3-S 3	0 VDC IMU
*	AA270B	SHLD AA270	56TB3-N 3	0 VDC IMU
*	AA287B	SHLD AA287	56J22- 2	
*	AA288B	SHLD AA288	56J22- 11	
*	AA307B	SHLD AA307	56TB3-R 9	0 VDC OPTICS
*	AA308B	SHLD AA308	56TB3-N 9	0 VDC OPTICS
*	AA309B	SHLD AA309	56TB3-T 9	0 VDC OPTICS
*	AA310B	SHLD AA310	56TB3-S 9	0 VDC OPTICS
*	AA315B	SHLD AA315	56TB3-M 9	0 VDC OPTICS
*	AA316B	SHLD AA316	56TB3-L 9	0 VDC OPTICS
*	AA329B	SHLD AA329	56TB3-H 9	0 VDC OPTICS
*	AA331B	SHLD AA331	56TB3-K 9	0 VDC OPTICS
	AA467A	SHLD AA467	56E 46	AGC SIG 180 SHLD RET
	AA468A	SHLD AA468	56E 46	AGC SIG 180 SHLD RET
	AA469A	SHLD AA469	56E 46	AGC SIG 180 SHLD RET
	AA470A	SHLD AA470	56E 46	AGC SIG 180 SHLD RET
	AA471A	SHLD AA471	56E 46	AGC SIG 180 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA472A	SHLD AA472	56E 46	AGC SIG 180 SHLD RET
	AA475A	SHLD AA475	56E 47	AGC SIG 179 SHLD RET
	AA476A	SHLD AA476	56E 47	AGC SIG 179 SHLD RET
	AA477A	SHLD AA477	56E 47	AGC SIG 179 SHLD RET
	AA478A	SHLD AA478	56E 47	AGC SIG 179 SHLD RET
	AA479A	SHLD AA479	56E 47	AGC SIG 179 SHLD RET
	AA480A	SHLD AA480	56E 47	AGC SIG 179 SHLD RET
*	AA481B	SHLD AA481	56E 39	IG DAC MDA SIG LO
*	AA482B	SHLD AA482	56E 39	IG DAC MDA SIG LO
*	AA483B	SHLD AA483	56E 41	MG DAC MDA SIG LO
*	AA484B	SHLD AA484	56E 41	MG DAC MDA SIG LO
*	AA485B	SHLD AA485	56E 43	OG DAC MDA SIG LO
*	AA486B	SHLD AA486	56E 43	OG DAC MDA SIG LO
	AA487A	SHLD AA487	56E 57	AGC SIG 178 SHLD RET
*	AA487B	SHLD AA487	56TB2-D 3	AGC SIG 178 SHLD RET
	AA488A	SHLD AA488	56E 57	AGC SIG 178 SHLD RET
	AA489A	SHLD AA489	56E 57	AGC SIG 178 SHLD RET
*	AA490B	SHLD AA490	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA491B	SHLD AA491	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA492B	SHLD AA492	56E 71	0 VDC OPTICS
*	AA493B	SHLD AA493	56E 71	0 VDC OPTICS
	AA494A	SHLD AA494	56E 45	AGC SIG 180 SHLD RET
	AA495A	SHLD AA495	56E 45	AGC SIG 180 SHLD RET
*	AA496B	SHLD AA496	56E 71	0 VDC OPTICS
*	AA497B	SHLD AA497	56E 71	0 VDC OPTICS
	AA498A	SHLD AA498	56E 45	AGC SIG 180 SHLD RET
	AA499A	SHLD AA499	56E 45	AGC SIG 180 SHLD RET
*	AA500B	SHLD AA500	56E 27	0 VDC IMU
*	AA503B	SHLD AA503	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA504B	SHLD AA504	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA505B	SHLD AA505	56TB2-V 8	0 VDC IMU
*	AA506B	SHLD AA506	56TB2-M 8	0 VDC IMU
*	AA507B	SHLD AA507	56TB3-H12	0 VDC IMU
*	AA508B	SHLD AA508	56TB3-H14	0 VDC IMU
*	AA509B	SHLD AA509	56TB3-H13	0 VDC IMU
*	AA510B	SHLD AA510	56TB3-H14	0 VDC IMU
	AA569A	SHLD AA569	56TB2-D 3	AGC SIG 178 SHLD RET
	AA571A	SHLD AA571	56TB2-S 3	OG CDU ERROR SIG RET
*	AA639B	SHLD AA639	56E 70	AGC SIG 179 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 258B	SHLD A 258	56TB3-R 9	0 VDC OPTICS
*	A 260B	SHLD A 260	56TB3-S15	0 VDC OPTICS
*	A 261B	SHLD A 261	56TB3-R15	0 VDC OPTICS
*	A 262B	SHLD A 262	56TB3-K 9	0 VDC OPTICS
*	A 263B	SHLD A 263	56TB3-H15	0 VDC OPTICS
*	A 278B	SHLD A 278	56TB3-R 3	0 VDC IMU
*	A 279B	SHLD A 279	56TB3-N 3	0 VDC IMU
*	A 289B	SHLD A 289	56TB1-S 8	0 VDC IMU
*	A 290B	SHLD A 290	56TB1-N 8	0 VDC IMU
*	A 291B	SHLD A 291	56TB1-S 6	0 VDC IMU
*	A 292B	SHLD A 292	56TB1-S 3	0 VDC IMU
*	A 293B	SHLD A 293	56TB1-N 4	0 VDC IMU
*	A 294B	SHLD A 294	56TB1-N 5	0 VDC IMU
*	A 302B	SHLD A 302	56TB3-S15	0 VDC OPTICS
*	A 304B	SHLD A 304	56TB3-H15	0 VDC OPTICS
*	A 306B	SHLD A 306	56TB3-T15	0 VDC OPTICS
*	A 307B	SHLD A 307	56TB3-T15	0 VDC OPTICS
*	A 309B	SHLD A 309	56TB3-M15	0 VDC OPTICS
*	A 310B	SHLD A 310	56TB3-M15	0 VDC OPTICS
*	A 312B	SHLD A 312	56TB3-K 9	0 VDC OPTICS
*	A 313B	SHLD A 313	56TB3-R15	0 VDC OPTICS
*	A 338B	SHLD A 338	56TB2-S 3	OG CDU ERROR SIG RET
*	A 355B	SHLD A 355	56TB3-H13	0 VDC IMU
*	A 356B	SHLD A 356	56TB3-H14	0 VDC IMU
*	A 357B	SHLD A 357	56TB3-H12	0 VDC IMU
*	A 358B	SHLD A 358	56E 48	0 VDC IMU
*	A 359B	SHLD A 359	56TB2-V 8	0 VDC IMU
*	A 360B	SHLD A 360	56TB2-M 8	0 VDC IMU
*	A 364B	SHLD A 364	56TB2-F 2	IG CDU ERROR SIG RET
*	A 365B	SHLD A 365	56TB2-F 7	MG CDU ERROR SIG RET
*	A 366B	SHLD A 366	56TB2-S 2	OG CDU ERROR SIG RET
*	A 407B	SHLD A 407	56E 44	AGC SIG 178 SHLD RET
*	A 421B	SHLD A 421	56TB3-F 7	TRUNNION CDU DAC LO
*	A 422B	SHLD A 422	56TB3-F 8	SHAFT CDU DAC LO
*	A 425B	SHLD A 425	56TB3-M 9	0 VDC OPTICS
*	A 426B	SHLD A 426	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
*	A 427B	SHLD A 427	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO
*	A 433B	SHLD A 433	56E 44	AGC SIG 178 SHLD RET
*	A 434B	SHLD A 434	56E 44	AGC SIG 178 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA640B	SHLD AA640	56E 70	AGC SIG 179 SHLD RET
*	AA641B	SHLD AA641	56E 70	AGC SIG 179 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 53R	56E 9	56J01- 28	400 CPS VAR ILLUM PWR
*	A 77R	56E 9	56J02- 28	400 CPS VAR ILLUM PWR
*	A 98R	56E 9	56J03- 28	400 CPS VAR ILLUM PWR
*	A 123R	56E 9	56J04- 28	400 CPS VAR ILLUM PWR
*	A 146R	56E 9	56J05- 28	400 CPS VAR ILLUM PWR
	A 561W	56E 10	56TB1-S 2	400 CPS 6 V LO
*	A 53W	56E 10	56J01- 29	400 CPS 6 V LO
*	A 77W	56E 10	56J02- 29	400 CPS 6 V LO
*	A 98W	56E 10	56J03- 29	400 CPS 6 V LO
*	A 123W	56E 10	56J04- 29	400 CPS 6 V LO
*	A 146W	56E 10	56J05- 29	400 CPS 6 V LO
	A 567W	56E 11	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 578W	56E 11	56J01- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 579W	56E 11	56J02- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 580W	56E 11	56J03- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 54	56E 12	56J01- 41	STRUCTURE GND
*	A 78	56E 12	56J02- 41	STRUCTURE GND
*	A 99	56E 12	56J03- 41	STRUCTURE GND
*	A 124	56E 12	56J04- 41	STRUCTURE GND
*	A 147	56E 12	56J05- 41	STRUCTURE GND
*	A 548	56E 12	56TB3-B20	STRUCTURE GND
	A 558W	56E 13	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 104W	56E 13	56J04- 14	800 CPS 28 V 1 PCT LO OPTICS
*	A 584R	56E 13	56J04- 25	800 CPS 28 V 1 PCT LO OPTICS
*	A 584W	56E 13	56J04- 11	800 CPS 28 V 1 PCT LO OPTICS
*	A 585R	56E 13	56J05- 4	800 CPS 28 V 1 PCT LO OPTICS
*	A 585W	56E 13	56J05- 18	800 CPS 28 V 1 PCT LO OPTICS
*	A 586W	56E 13	56J05- 14	800 CPS 28 V 1 PCT LO OPTICS
	A 558R	56E 14	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 104R	56E 14	56J04- 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 584L	56E 14	56J04- 12	800 CPS 28 V 1 PCT HI OPTICS
*	A 585L	56E 14	56J05- 17	800 CPS 28 V 1 PCT HI OPTICS
*	A 586R	56E 14	56J05- 1	800 CPS 28 V 1 PCT HI OPTICS
	A 560W	56E 16	56TB1-G 7	25.6 KC LO OPTICS
*	A 117W	56E 16	56J04- 60	25.6 KC LO OPTICS
*	A 583W	56E 16	56J05- 60	25.6 KC LO OPTICS
	A 560R	56E 17	56TB1-H 7	25.6 KC HI OPTICS
*	A 117R	56E 17	56J04- 50	25.6 KC HI OPTICS
*	A 583R	56E 17	56J05- 50	25.6 KC HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 132W	56E 18	56TB3-L11	TRUNNION CDU 1/2X RSVR P3	
*	A 133	56E 18	56J05- 11	TRUNNION CDU 1/2X RSVR P3	
*	A 149	56E 18	56J05- 25	TRUNNION CDU 1/2X RSVR P3	
	A 556	56E 19	56TB1-S 7	0 VDC IMU	
*	A 194	56E 19	56J08- 31	0 VDC IMU	
*	A 195	56E 19	56J08- 70	0 VDC IMU	
*	A 204	56E 19	56J08- 30	0 VDC IMU	
*	A 205	56E 19	56J08- 28	0 VDC IMU	
*	A 208	56E 19	56J08- 17	0 VDC IMU	
*	A 212	56E 19	56J08- 52	0 VDC IMU	
	A 549	56E 20	56TB2-D 6	0 VDC IMU	
*	A 189	56E 20	56J08- 61	0 VDC IMU	
*	A 191	56E 20	56J08- 84	0 VDC IMU	
*	A 201	56E 20	56J08- 83	0 VDC IMU	
*	A 213	56E 20	56J08- 63	0 VDC IMU	
	A 550	56E 21	56TB2-D 5	0 VDC IMU	
*	A 337	56E 21	56P09- 27	0 VDC IMU	
*	A 339	56E 21	56P09- 37	0 VDC IMU	
*	A 340	56E 21	56P09- 26	0 VDC IMU	
*	A 341	56E 21	56P09- 25	0 VDC IMU	
*	A 347	56E 21	56P09- 36	0 VDC IMU	
*	A 348	56E 21	56P09- 24	0 VDC IMU	
	A 494W	56E 22	56J21-211		214B
	A 495W	56E 22	56J21-176		215B
	A 496W	56E 22	56J21-143		216B
	A 497W	56E 22	56J21-110		217B
	A 498W	56E 22	56J21- 77		218B
	A 499W	56E 22	56J21- 42		219B
	A 500W	56E 22	56J21-213		221B
	A 501W	56E 22	56J21-178		222B
	A 502W	56E 22	56J21-145		223B
	A 505W	56E 22	56J21- 5		220B
*	A 554	56E 22	56E 23		
	A 482W	56E 23	56J21- 81		232B
	A 483W	56E 23	56J21- 7		227B
	A 484W	56E 23	56J21-215		228B
	A 485W	56E 23	56J21-180		229B
	A 486W	56E 23	56J21-147		230B
	A 487W	56E 23	56J21-114		231B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 577R	56E 1	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	A 84R	56E 1	56J03- 1	800 CPS 28 V 1 PCT HI IMU
*	A 572R	56E 1	56J01- 1	800 CPS 28 V 1 PCT HI IMU
*	A 573L	56E 1	56J01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 573R	56E 1	56J01- 25	800 CPS 28 V 1 PCT HI IMU
*	A 574R	56E 1	56J02- 1	800 CPS 28 V 1 PCT HI IMU
*	A 575L	56E 1	56J02- 11	800 CPS 28 V 1 PCT HI IMU
*	A 575R	56E 1	56J02- 25	800 CPS 28 V 1 PCT HI IMU
*	A 576L	56E 1	56J03- 11	800 CPS 28 V 1 PCT HI IMU
*	A 576R	56E 1	56J03- 25	800 CPS 28 V 1 PCT HI IMU
	A 577W	56E 2	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	A 84W	56E 2	56J03- 14	800 CPS 28 V 1 PCT LO IMU
*	A 572W	56E 2	56J01- 14	800 CPS 28 V 1 PCT LO IMU
*	A 574W	56E 2	56J02- 14	800 CPS 28 V 1 PCT LO IMU
	A 564R	56E 3	56TB1-G 4	25.6 KC LO IMU
*	A 46W	56E 3	56J01- 60	25.6 KC LO IMU
*	A 70W	56E 3	56J02- 60	25.6 KC LO IMU
*	A 93W	56E 3	56J03- 60	25.6 KC LO IMU
	A 564W	56E 4	56TB1-H 4	25.6 KC HI IMU
*	A 46R	56E 4	56J01- 50	25.6 KC HI IMU
*	A 70R	56E 4	56J02- 50	25.6 KC HI IMU
*	A 93R	56E 4	56J03- 50	25.6 KC HI IMU
	A 577L	56E 5	56TB2-H 5	ZEROING RSVR 800 CPS
*	A 573W	56E 5	56J01- 12	ZEROING RSVR 800 CPS
*	A 575W	56E 5	56J02- 12	ZEROING RSVR 800 CPS
*	A 576W	56E 5	56J03- 12	ZEROING RSVR 800 CPS
*	A 48	56E 6	56J01- 16	+28 VDC IMU
*	A 72	56E 6	56J02- 16	+28 VDC IMU
*	A 559	56E 6	56TB3-S21	+28 VDC IMU
*	A 581	56E 6	56J03- 16	+28 VDC IMU
	A 567R	56E 7	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 578R	56E 7	56J01- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 579R	56E 7	56J02- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 580R	56E 7	56J03- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	A 557	56E 8	56TB2-D 1	+28 VDC CDU NOT LOCK
*	A 50	56E 8	56J01- 15	+28 VDC CDU NOT LOCK
*	A 74	56E 8	56J02- 15	+28 VDC CDU NOT LOCK
*	A 582	56E 8	56J03- 15	+28 VDC CDU NOT LOCK
	A 561R	56E 9	56TB1-S 1	400 CPS VAR ILLUM PWR

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 488W	56E 23	56J21- 46		233B
	A 503W	56E 23	56J21-112		224B
	A 504W	56E 23	56J21- 44		226B
	A 506W	56E 23	56J21- 79		225B
	A 554	56E 23	56E 22		
	A 555	56E 23	56E 24		
	A 470W	56E 24	56J21- 48		244B
	A 471W	56E 24	56J21- 83		242B
	A 489W	56E 24	56J21- 9		234B
	A 490W	56E 24	56J21-217		235B
	A 491W	56E 24	56J21-182		236B
	A 492W	56E 24	56J21-149		237B
	A 493W	56E 24	56J21-116		238B
	A 552	56E 24	56E 26		
*	A 555	56E 24	56E 23		
	A 467W	56E 25	56J21- 85		205B
	A 468R	56E 25	56J21- 13		209B
	A 472W	56E 25	56J21-151		203B
	A 510W	56E 25	56J21- 15		207B
	A 511W	56E 25	56J21-118		204B
	A 514W	56E 25	56J21-184		202B
	A 515W	56E 25	56J21-186		210B
	A 516W	56E 25	56J21-219		201B
	A 517W	56E 25	56J21-221		208B
	A 551	56E 25	56E 26		
*	A 519	56E 26	56J10- 82	COMMONED RETURNS GROUND	330
*	A 551	56E 26	56E 25		
*	A 552	56E 26	56E 24		
	AA 92B	56E 27	SHLD AA 92	0 VDC IMU	
	AA500B	56E 27	SHLD AA500	0 VDC IMU	
*	AA500L	56E 27	56J21-104	0 VDC IMU	155B
*	AA608	56E 27	56TB2-D 4	0 VDC IMU	
	AA503B	56E 28	SHLD AA503	COMPUTER 3200 PPS SYNC RET	
	AA504B	56E 28	SHLD AA504	COMPUTER 3200 PPS SYNC RET	
*	AA 36	56E 28	56J11-M5	COMPUTER 3200 PPS SYNC RET	
*	AA503L	56E 28	56J21-204	COMPUTER 3200 PPS SYNC RET	152B
*	AA504L	56E 28	56J21-242	COMPUTER 3200 PPS SYNC RET	151B
	AA490B	56E 29	SHLD AA490	COMPUTER 25.6 KPPS SYNC RET	
	AA491B	56E 29	SHLD AA491	COMPUTER 25.6 KPPS SYNC RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA477R	56E 40	56J21-233	MG DAC MDA SIG LO	122B
*	AA478L	56E 40	56J21-193	MG DAC MDA SIG LO	123B
	AA483B	56E 41	SHLD AA483	MG DAC MDA SIG LO	
	AA484B	56E 41	SHLD AA484	MG DAC MDA SIG LO	
*	AA168	56E 41	56J15-A7	MG DAC MDA SIG LO	
*	AA483R	56E 41	56J21-166	MG DAC MDA SIG LO	130B
*	AA484L	56E 41	56J21- 98	MG DAC MDA SIG LO	131B
*	AA166	56E 42	56J15-A9	OG DAC MDA SIG LO	
*	AA479R	56E 42	56J21- 57	OG DAC MDA SIG LO	118B
*	AA480L	56E 42	56J21- 59	OG DAC MDA SIG LO	119B
	AA485B	56E 43	SHLD AA485	OG DAC MDA SIG LO	
	AA486B	56E 43	SHLD AA486	OG DAC MDA SIG LO	
*	AA169	56E 43	56J15-A9	OG DAC MDA SIG LO	
*	AA485R	56E 43	56J21- 65	OG DAC MDA SIG LO	126B
*	AA486L	56E 43	56J21- 31	OG DAC MDA SIG LO	127B
	A 14B	56E 44	SHLD A 14	AGC SIG 178 SHLD RET	
	A 15B	56E 44	SHLD A 15	AGC SIG 178 SHLD RET	
	A 16B	56E 44	SHLD A 16	AGC SIG 178 SHLD RET	
	A 27B	56E 44	SHLD A 27	AGC SIG 178 SHLD RET	
	A 156B	56E 44	SHLD A 156	AGC SIG 178 SHLD RET	
	A 407B	56E 44	SHLD A 407	AGC SIG 178 SHLD RET	
	A 433B	56E 44	SHLD A 433	AGC SIG 178 SHLD RET	
	A 434B	56E 44	SHLD A 434	AGC SIG 178 SHLD RET	
	A 437B	56E 44	SHLD A 437	AGC SIG 178 SHLD RET	
	A 449B	56E 44	SHLD A 449	AGC SIG 178 SHLD RET	
	A 566	56E 44	56E 57	AGC SIG 178 SHLD RET	
*	A 440A	56E 44	SHLD A 440	AGC SIG 178 SHLD RET	
	AA568	56E 45	56E 46	AGC SIG 180 SHLD RET	
*	AA473	56E 45	56J21- 23	AGC SIG 180 SHLD RET	180
*	AA494A	56E 45	SHLD AA494	AGC SIG 180 SHLD RET	
*	AA495A	56E 45	SHLD AA495	AGC SIG 180 SHLD RET	
*	AA498A	56E 45	SHLD AA498	AGC SIG 180 SHLD RET	
*	AA499A	56E 45	SHLD AA499	AGC SIG 180 SHLD RET	
*	AA467A	56E 46	SHLD AA467	AGC SIG 180 SHLD RET	
*	AA468A	56E 46	SHLD AA468	AGC SIG 180 SHLD RET	
*	AA469A	56E 46	SHLD AA469	AGC SIG 180 SHLD RET	
*	AA470A	56E 46	SHLD AA470	AGC SIG 180 SHLD RET	
*	AA471A	56E 46	SHLD AA471	AGC SIG 180 SHLD RET	
*	AA472A	56E 46	SHLD AA472	AGC SIG 180 SHLD RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA568	56E 46	56E 45	AGC SIG 180 SHLD RET	
*	AA474	56E 47	56E 70	AGC SIG 179 SHLD RET	
*	AA475A	56E 47	SHLD AA475	AGC SIG 179 SHLD RET	
*	AA476A	56E 47	SHLD AA476	AGC SIG 179 SHLD RET	
*	AA477A	56E 47	SHLD AA477	AGC SIG 179 SHLD RET	
*	AA478A	56E 47	SHLD AA478	AGC SIG 179 SHLD RET	
*	AA479A	56E 47	SHLD AA479	AGC SIG 179 SHLD RET	
*	AA480A	56E 47	SHLD AA480	AGC SIG 179 SHLD RET	
	A 64B	56E 48	SHLD A 64	0 VDC IMU	
	A 221B	56E 48	SHLD A 221	0 VDC IMU	
	A 358B	56E 48	SHLD A 358	0 VDC IMU	
*	A 458	56E 48	56TB2-D 5	0 VDC IMU	
*	AA348	56E 50	56J18-H3	TRUNNION CDU DAC LO	
*	AA496R	56E 50	56J21-236	TRUNNION CDU DAC LO	114B
*	AA497L	56E 50	56J21-198	TRUNNION CDU DAC LO	115B
*	AA243W	56E 51	56J17-H6	TRUNNION CDU DAC LO	
*	AA349	56E 51	56J18-H3	TRUNNION CDU DAC LO	
*	AA498R	56E 51	56J21-231	TRUNNION CDU DAC LO	108B
*	AA499R	56E 51	56J21-191	TRUNNION CDU DAC LO	109B
*	AA346	56E 52	56J18-H2	SHAFT CDU DAC LO	
*	AA492R	56E 52	56J21-164	SHAFT CDU DAC LO	116B
*	AA493L	56E 52	56J21-131	SHAFT CDU DAC LO	117B
*	AA242W	56E 53	56J17-H4	SHAFT CDU DAC LO	
*	AA347	56E 53	56J18-H2	SHAFT CDU DAC LO	
*	AA494R	56E 53	56J21-157	SHAFT CDU DAC LO	110B
*	AA495R	56E 53	56J21-124	SHAFT CDU DAC LO	111B
	A 155R	56E 55	56TB2-F 3		
	A 156R	56E 55	56J21-229		164B
*	A 406	56E 56	56J09- 60	AGC COMMON	
*	A 415	56E 56	56J09- 42	AGC COMMON	
*	A 420	56E 56	56J09- 36	AGC COMMON	
*	A 440W	56E 56	56J21-119	AGC COMMON	101A
*	A 566	56E 57	56E 44	AGC SIG 178 SHLD RET	
*	AA487A	56E 57	SHLD AA487	AGC SIG 178 SHLD RET	
*	AA488A	56E 57	SHLD AA488	AGC SIG 178 SHLD RET	
*	AA489A	56E 57	SHLD AA489	AGC SIG 178 SHLD RET	
*	AA562	56E 57	56J21- 53	AGC SIG 178 SHLD RET	178
	A 407R	56E 58	56J21- 17		105B
	A 433R	56E 58	56J21- 87		102B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA 69	56E 29	56J12-F2	COMPUTER 25.6 KPPS SYNC RET	
*	AA490R	56E 29	56J21-170	COMPUTER 25.6 KPPS SYNC RET	153B
*	AA491L	56E 29	56J21-137	COMPUTER 25.6 KPPS SYNC RET	154B
*	AA226A	56E 30	SHLD AA226	0 VDC IMU	
*	AA227A	56E 30	SHLD AA227	0 VDC IMU	
*	AA232A	56E 30	SHLD AA232	0 VDC IMU	
	AA232B	56E 31	SHLD AA232	0 VDC IMU	
*	AA 67	56E 31	56J12-F1	COMPUTER 800 PPS SYNC RET	
*	AA 91	56E 31	56J12-R4	0 VDC IMU	
*	AA232W	56E 31	56J16-L3	COMPUTER 800 PPS SYNC RET	
	AA129W	56E 33	56J21- 66	0 VDC IMU	142A
	AA130R	56E 33	56J21- 32	0 VDC IMU	143A
	AA131W	56E 33	56J21-239	0 VDC IMU	144A
	AA132W	56E 33	56J21-201	0 VDC IMU	145A
	AA134R	56E 33	56J21-167	0 VDC IMU	146A
	AA135W	56E 33	56J21-134	0 VDC IMU	147A
*	AA137	56E 33	56J14-R6	0 VDC IMU	
*	AA 77	56E 34	56J12-B5	0 VDC IMU	
*	AA125	56E 34	56J13-R6	0 VDC IMU	
*	AA501R	56E 34	56J21-133	0 VDC IMU	139B
*	AA502R	56E 34	56J21-100	0 VDC IMU	140B
*	AA158	56E 35	56J15-L5	COMPUTER RET	
*	AA467R	56E 35	56J21-125	COMPUTER RET	132A
*	AA468R	56E 35	56J21- 92	COMPUTER RET	133A
*	AA159	56E 36	56J15-L5	COMPUTER RET	
*	AA469R	56E 36	56J21-194	COMPUTER RET	134A
*	AA470R	56E 36	56J21-160	COMPUTER RET	135A
*	AA160	56E 37	56J15-L5	COMPUTER RET	
*	AA471R	56E 37	56J21- 94	COMPUTER RET	137A
*	AA472R	56E 37	56J21-127	COMPUTER RET	136A
*	AA164	56E 38	56J15-A5	IG DAC MDA SIG LO	
*	AA475R	56E 38	56J21- 25	IG DAC MDA SIG LO	120B
*	AA476L	56E 38	56J21- 27	IG DAC MDA SIG LO	121B
	AA481B	56E 39	SHLD AA481	IG DAC MDA SIG LO	
	AA482B	56E 39	SHLD AA482	IG DAC MDA SIG LO	
*	AA167	56E 39	56J15-A5	IG DAC MDA SIG LO	
*	AA481R	56E 39	56J21-238	IG DAC MDA SIG LO	128B
*	AA482L	56E 39	56J21-200	IG DAC MDA SIG LO	129B
*	AA165	56E 40	56J15-A7	MG DAC MDA SIG LO	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 434R	56E 58	56J21- 89		103B
	A 437R	56E 58	56J21- 55		104B
	A 449W	56E 58	56J21- 19		106B
*	A 440R	56E 58	56J21-120		101B
	AA176R	56E 59	56TB2-F 3		
*	AA488R	56E 59	56J21-189		160B
*	AA489R	56E 60	56J21-153		158B
*	AA569R	56E 60	56TB2-F 3		
	A 13R	56E 61	56TB2-F 3		
	A 14R	56E 61	56J21-155		159B
	A 15R	56E 61	56J21-223		161B
	A 16R	56E 61	56J21-227		163B
	A 27R	56E 61	56J21-225		162B
*	A 570	56E 62	56J10- 1	GROUP 2 SHIELD	245
*	A 571	56E 63	56J21-107	GROUP 2 SHIELD	245
*	A 568	56E 64	56J21-187	GROUP 3 SHIELD	250
*	A 569	56E 65	56J10- 27	GROUP 3 SHIELD	250
*	AA617	56E 66	56J11-L4	STRUCTURE GND	
*	AA618	56E 67	56J11-L4	STRUCTURE GND	
*	AA619	56E 68	56TB3-B20	STRUCTURE GND	
*	AA620	56E 69	56TB3-B20	STRUCTURE GND	
	AA474	56E 70	56E 47	AGC SIG 179 SHLD RET	
	AA639B	56E 70	SHLD AA639	AGC SIG 179 SHLD RET	
	AA640B	56E 70	SHLD AA640	AGC SIG 179 SHLD RET	
	AA641B	56E 70	SHLD AA641	AGC SIG 179 SHLD RET	
*	AA642	56E 70	56J21- 22	AGC SIG 179 SHLD RET	179
	AA492B	56E 71	SHLD AA492	0 VDC OPTICS	
	AA493B	56E 71	SHLD AA493	0 VDC OPTICS	
	AA496B	56E 71	SHLD AA496	0 VDC OPTICS	
	AA497B	56E 71	SHLD AA497	0 VDC OPTICS	
*	AA638	56E 71	56J18-T5	0 VDC OPTICS	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 574R	56J02- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 579W	56J02- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 579R	56J02- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 64W	56J02- 6	56TB3-N21	COS AMG 1X S1
A 65W	56J02- 7	56TB3-C14	SIN AMG 1X
A 575L	56J02- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 575W	56J02- 12	56E 5	ZEROING RSVR 800 CPS
A 574W	56J02- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 74	56J02- 15	56E 8	+28 VDC CDU NOT LOCK
A 72	56J02- 16	56E 6	+28 VDC IMU
A 64R	56J02- 20	56TB3-N20	COS AMG 1X S3
A 65R	56J02- 21	56TB3-C13	SIN AMG 1X RET
A 575R	56J02- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 77R	56J02- 28	56E 9	400 CPS VAR ILLUM PWR
A 77W	56J02- 29	56E 10	400 CPS 6 V LO
A 80	56J02- 30	56TB2-R 5	+28 VDC IMU FOR MG MDA
A 76L	56J02- 31	56TB2-L 3	MG CDU MDA OUTPUT
A 76W	56J02- 32	56TB2-K 3	MG CDU MDA OUTPUT
A 79	56J02- 34	56TB2-X 1	MG CDU 1X RSVR LOAD
A 63R	56J02- 35	56TB2-H 7	MG CDU 1X ERROR SIG
A 78	56J02- 41	56E 12	STRUCTURE GND
A 76R	56J02- 43	56TB2-K 4	0 VDC IMU
A 63W	56J02- 45	56TB2-G 7	MG CDU ERROR SIG RET
A 70R	56J02- 50	56E 4	25.6 KC HI IMU
A 62W	56J02- 57	56TB2-G 6	MG CDU ERROR SIG RET
A 70W	56J02- 60	56E 3	25.6 KC LO IMU
A 62R	56J02- 67	56TB2-H 6	MG CDU 1/2X ERROR SIG
A 67W	56J02- 86	56TB2-U 4	COS AMG 16X TO CDU
A 68W	56J02- 87	56TB2-C 7	SIN AMG 16X TO CDU
A 66W	56J02- 90	56TB2-G 8	MG CDU ERROR SIG RET
A 75W	56J02- 92	56TB2-X 6	MG CDU MDA INPUT RET
A 69R	56J02- 94	56TB2-C 6	MG CDU ENCODER COM
A 67R	56J02-100	56TB2-U 5	COS AMG 16X S3
A 68R	56J02-101	56TB2-B 7	SIN AMG 16X S4
A 66R	56J02-104	56TB2-H 8	MG CDU 16X ERROR SIG
A 75L	56J02-105	56TB2-X 5	MG CDU MDA SLEW SIG
A 75R	56J02-106	56TB2-W 5	MG CDU MDA TACH SIG
A 69W	56J02-107	56TB2-B 6	MG CDU ENCODER PHASE 1
A 69L	56J02-108	56TB2-A 6	MG CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 84R	56J03- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 580W	56J03- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 580R	56J03- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 87W	56J03- 6	56TB2-N 7	COS AOG 1X S1
A 88W	56J03- 7	56TB2-U 8	SIN AOG 1X S4
A 576L	56J03- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 576W	56J03- 12	56E 5	ZEROING RSVR 800 CPS
A 84W	56J03- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 582	56J03- 15	56E 8	+28 VDC CDU NOT LOCK
A 581	56J03- 16	56E 6	+28 VDC IMU
A 87R	56J03- 20	56TB2-R 8	COS AOG 1X TO CDU
A 88R	56J03- 21	56TB2-T 8	SIN AOG 1X TO CDU
A 576R	56J03- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 98R	56J03- 28	56E 9	400 CPS VAR ILLUM PWR
A 98W	56J03- 29	56E 10	400 CPS 6 V LO
A 102	56J03- 30	56TB2-K 8	+28 VDC IMU FOR OG MDA
A 97L	56J03- 31	56TB2-K 6	OG CDU MDA OUTPUT
A 97W	56J03- 32	56TB2-K 5	OG CDU MDA OUTPUT
A 100	56J03- 34	56TB2-S 1	OG CDU 1X RSVR LOAD
A 86R	56J03- 35	56TB2-N 2	OG CDU 1X ERROR SIG
A 99	56J03- 41	56E 12	STRUCTURE GND
A 97R	56J03- 43	56TB2-K 4	0 VDC IMU
A 86W	56J03- 45	56TB2-R 2	OG CDU ERROR SIG RET
A 93R	56J03- 50	56E 4	25.6 KC HI IMU
A 85W	56J03- 57	56TB2-R 1	OG CDU ERROR SIG RET
A 93W	56J03- 60	56E 3	25.6 KC LO IMU
A 85R	56J03- 67	56TB2-N 1	OG CDU 1/2X ERROR SIG
A 90W	56J03- 86	56TB2-X 4	COS AOG 16X TO CDU
A 91W	56J03- 87	56TB2-X 2	SIN AOG 16X TO CDU
A 101	56J03- 89	56TB2-T 1	OG CDU 16X RSVR LOAD
A 89W	56J03- 90	56TB2-R 3	OG CDU ERROR SIG RET
A 96W	56J03- 92	56TB2-R 7	OG CDU MDA INPUT RET
A 92R	56J03- 94	56TB2-A 4	OG CDU ENCODER COM
A 90R	56J03-100	56TB2-W 4	COS AOG 16X S3
A 91R	56J03-101	56TB2-W 2	SIN AOG 16X S4
A 89R	56J03-104	56TB2-N 3	OG CDU 16X ERROR SIG
A 96L	56J03-105	56TB2-R 6	OG CDU MDA SLEW SIG
A 96R	56J03-106	56TB2-N 6	OG CDU MDA TACH SIG
A 92W	56J03-107	56TB2-B 4	OG CDU ENCODER PHASE 1

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 572R	56J01- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 578W	56J01- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 578R	56J01- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 40W	56J01- 6	56TB3-F13	COS AIG 1X RET P1
A 41W	56J01- 7	56TB3-D14	SIN AIG 1X P2
A 573L	56J01- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 573W	56J01- 12	56E 5	ZEROING RSVR 800 CPS
A 572W	56J01- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 50	56J01- 15	56E 8	+28 VDC CDU NOT LOCK
A 48	56J01- 16	56E 6	+28 VDC IMU
A 40R	56J01- 20	56TB3-F14	COS AIG 1X P3
A 41R	56J01- 21	56TB3-D13	SIN AIG 1X RET P4
A 573R	56J01- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 53R	56J01- 28	56E 9	400 CPS VAR ILLUM PWR
A 53W	56J01- 29	56E 10	400 CPS 6 V LO
A 56	56J01- 30	56TB2-N 5	+28 VDC IMU FOR IG MDA
A 52L	56J01- 31	56TB2-L 5	IG CDU MDA OUTPUT
A 52W	56J01- 32	56TB2-L 6	IG CDU MDA OUTPUT
A 55	56J01- 34	56TB2-W 1	IG CDU 1X RSVR LOAD S1
A 39R	56J01- 35	56TB2-H 2	IG CDU 1X ERROR SIG S2
A 54	56J01- 41	56E 12	STRUCTURE GND
A 52R	56J01- 43	56TB2-K 4	0 VDC IMU
A 39W	56J01- 45	56TB2-G 2	IG CDU ERROR SIG RET
A 46R	56J01- 50	56E 4	25.6 KC HI IMU
A 38W	56J01- 57	56TB2-G 3	IG CDU ERROR SIG RET S1
A 46W	56J01- 60	56E 3	25.6 KC LO IMU
A 38R	56J01- 67	56TB2-H 3	IG CDU 1/2X ERROR SIG S3
A 43W	56J01- 86	56TB2-W 7	COS AIG 16X TO CDU
A 44W	56J01- 87	56TB2-C 8	SIN AIG 16X TO CDU
A 42W	56J01- 90	56TB2-G 1	IG CDU ERROR SIG RET
A 51W	56J01- 92	56TB2-T 7	IG CDU MDA INPUT RET
A 45R	56J01- 94	56TB2-A 5	IG CDU ENCODER COM
A 43R	56J01-100	56TB2-W 6	COS AIG 16X S3
A 44R	56J01-101	56TB2-B 8	SIN AIG 16X S4
A 42R	56J01-104	56TB2-H 1	IG CDU 16X ERROR SIG
A 51L	56J01-105	56TB2-T 6	IG CDU MDA SLEW SIG
A 51R	56J01-106	56TB2-U 6	IG CDU MDA TACH SIG
A 45W	56J01-107	56TB2-B 5	IG CDU ENCODER PHASE 1
A 45L	56J01-108	56TB2-C 5	IG CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 92L	56J03-108	56TB2-C 4	OG CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 586R	56J05- 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 600W	56J05- 2	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 600R	56J05- 3	56TB2-U 1	TRUNNION CDU MOTOR EXC
A 585R	56J05- 4	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130R	56J05- 8	56TB3-G10	TRUNNION CDU 1/4X SIN HI
A 131R	56J05- 9	56TB3-F16	TRUNNION CDU 1/4X COS HI
A 131W	56J05- 10	56TB3-G16	TRUNNION CDU 1/4X COS LO
A 133	56J05- 11	56E 18	TRUNNION CDU 1/2X RSVR P3
A 132R	56J05- 12	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
A 586W	56J05- 14	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 585L	56J05- 17	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 585W	56J05- 18	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130W	56J05- 22	56TB3-F10	TRUNNION CDU 1/4X SIN LO
A 149	56J05- 25	56E 18	TRUNNION CDU 1/2X RSVR P3
A 146R	56J05- 28	56E 9	400 CPS VAR ILLUM PWR
A 146W	56J05- 29	56E 10	400 CPS 6 V LO
A 145L	56J05- 31	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
A 145W	56J05- 32	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
A 147	56J05- 41	56E 12	STRUCTURE GND
A 145R	56J05- 43	56TB3-M20	+28 VDC OPTICS
A 583R	56J05- 50	56E 17	25.6 KC HI OPTICS
A 148R	56J05- 56	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI
A 583W	56J05- 60	56E 16	25.6 KC LO OPTICS
A 148W	56J05- 66	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO
A 134W	56J05- 67	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
A 134R	56J05- 68	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
A 137W	56J05- 86	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
A 138W	56J05- 87	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
A 136	56J05- 89	56TB3-N18	TRUNNION CDU 16X LOAD
A 135W	56J05- 90	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
A 144W	56J05- 92	56TB3-M 7	TRUNNION CDU TACH LO
A 139R	56J05- 94	56TB3-T 5	TRUNNION CDU ENCODER COM
A 137R	56J05-100	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
A 138R	56J05-101	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
A 135R	56J05-104	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
A 144R	56J05-106	56TB3-M 8	TRUNNION CDU TACH HI
A 139W	56J05-107	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1
A 139L	56J05-108	56TB3-T 6	TRUNNION CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 150R	56J06- 1	56P01- 1	PITCH ATTITUDE ERROR METER +
A 150W	56J06- 2	56P01- 2	PITCH ATTITUDE ERROR METER -
A 161	56J06- 6	56P01- 6	ENTRY RELAY CONTROL RESET
A 160	56J06- 9	56P01- 9	MODE SWITCH INTERLOCK
A 154	56J06- 12	56TB1-K 7	MODE RELAY COMMON TO AGC
A 151R	56J06- 14	56P01- 14	YAW ATTITUDE ERROR METER +
A 151W	56J06- 15	56P01- 15	YAW ATTITUDE ERROR METER -
A 157	56J06- 18	56P01- 18	MODE RELAY COMMON TO D AND C ELECT
A 175	56J06- 22	56P01- 22	ATTITUDE CONTROL MODE LIGHT
A 165	56J06- 23	56P01- 23	FINE ALIGN RELAY CONTROL
A 166	56J06- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
A 167	56J06- 25	56P01- 25	ENTRY RELAY CONTROL
A 152W	56J06- 28	56P01- 28	ROLL ATTITUDE ERROR METER -
A 152R	56J06- 29	56P01- 29	ROLL ATTITUDE ERROR METER +
A 162	56J06- 34	56P01- 34	ZERO ENCODER RELAY CONTROL
A 163	56J06- 35	56P01- 35	COARSE ALIGN RELAY CONTROL
A 164	56J06- 36	56P01- 36	CDU MANUAL RELAY CONTROL
A 159	56J06- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL
A 177	56J06- 46	56P01- 46	ATTITUDE CONTROL MODE INTERLOCK
A 170	56J06- 56	56P01- 56	MANUAL ALIGN
A 155W	56J06- 68	56TB2-D 2	AGC COM
A 156W	56J06- 69	56J21-228	TRANSFER SWITCH INDICATION TO AGC 164A
A 169	56J06- 78	56TB2-L 4	0 VDC IMU
A 176	56J06- 79	56P01- 79	ENTRY MODE LIGHT
A 158	56J06- 81	56TB1-F 8	ATTIT CONT MODE COMMAND FROM AGC
A 178	56J06- 91	56TB3-B21	STRUCTURE GND
A 172	56J06- 92	56P01- 92	COARSE ALIGN MODE LIGHT
A 168	56J06- 93	56P01- 93	MODE RELAY COMMON
A 174	56J06- 94	56P01- 94	FINE ALIGN MODE LIGHT
A 171	56J06-104	56P01-104	ZERO ENCODER MODE LIGHT
A 173	56J06-105	56P01-105	CDU MANUAL MODE LIGHT
A 153W	56J06-107	56TB1-S 2	400 CPS 6 V LO
A 153R	56J06-108	56TB1-S 1	400 CPS VAR ILLUM PWR

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 104R	56J04- 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 599W	56J04- 2	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 599R	56J04- 3	56TB2-V 1	SHAFT CDU MOTOR EXC
A 110R	56J04- 6	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
A 111R	56J04- 7	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
A 584W	56J04- 11	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 584L	56J04- 12	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 104W	56J04- 14	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 110W	56J04- 20	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
A 111W	56J04- 21	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
A 584R	56J04- 25	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 123R	56J04- 28	56E 9	400 CPS VAR ILLUM PWR
A 123W	56J04- 29	56E 10	400 CPS 6 V LO
A 122L	56J04- 31	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
A 122W	56J04- 32	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
A 109L	56J04- 34	56TB3-T12	SHAFT CDU 1X P1 (S1)
A 109W	56J04- 35	56TB3-S12	SHAFT CDU 1X P2 (S2)
A 124	56J04- 41	56E 12	STRUCTURE GND
A 122R	56J04- 43	56TB3-M20	+28 VDC OPTICS
A 109R	56J04- 45	56TB3-R12	SHAFT CDU 1X P3 (S3)
A 117R	56J04- 50	56E 17	25.6 KC HI OPTICS
A 108W	56J04- 56	56TB3-N14	SHAFT CDU 1/2X COS HI S2
A 107R	56J04- 57	56TB3-K11	SHAFT CDU 1/2X SIN LO S3
A 117W	56J04- 60	56E 16	25.6 KC LO OPTICS
A 108R	56J04- 66	56TB3-N13	SHAFT CDU 1/2X COS LO S4
A 107W	56J04- 67	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 114W	56J04- 86	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
A 115W	56J04- 87	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
A 113	56J04- 89	56TB3-M18	SHAFT CDU 16X LOAD
A 112W	56J04- 90	56TB3-H11	SHAFT CDU 16X ERROR SIG LO
A 121W	56J04- 92	56TB3-L 8	SHAFT CDU TACH LO
A 116R	56J04- 94	56TB3-S 5	SHAFT CDU ENCODER COM
A 114R	56J04-100	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
A 115R	56J04-101	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
A 112R	56J04-104	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
A 121R	56J04-106	56TB3-L 7	SHAFT CDU TACH HI
A 116W	56J04-107	56TB3-S 6	SHAFT CDU ENCODER PHASE 1
A 116L	56J04-108	56TB3-S 4	SHAFT CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 208	56J08- 17	56E 19	0 VDC IMU
A 202	56J08- 18	56TB2-S 8	GIMBAL LOCK LIGHT HI
A 603K	56J08- 19	56TB1-R 2	400 CPS 6 V LO
A 205	56J08- 28	56E 19	0 VDC IMU
A 215	56J08- 29	56TB3-B21	STRUCTURE GND
A 204	56J08- 30	56E 19	0 VDC IMU
A 194	56J08- 31	56E 19	0 VDC IMU
A 207	56J08- 32	56J22- 71	MASTER WARNING LIGHT LO
A 210R	56J08- 35	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
A 603W	56J08- 36	56TB1-R 2	400 CPS 6 V LO
A 203	56J08- 41	56TB3-B 4	ZERO ENCODER LIGHT HI
A 193	56J08- 42	56TB1-U 2	IMU DELAY LIGHT HI
A 206	56J08- 43	56J22- 72	MASTER WARNING LIGHT HI
A 210W	56J08- 45	56TB3-L 6	400 CPS 0.5 V PI PHASE
A 603L	56J08- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY
A 565	56J08- 50	56TB1-F 1	SPARE FAIL LIGHT HI
A 187	56J08- 51	56TB1-H 8	ERROR DETECT LIGHT HI
A 212	56J08- 52	56E 19	0 VDC IMU
A 196	56J08- 53	56J22- 38	MASTER ALARM LIGHT HI
A 197	56J08- 54	56J22- 37	MASTER ALARM LIGHT LO
A 603R	56J08- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY
A 188	56J08- 60	56TB3-M 6	IMU FAIL LIGHT HI
A 189	56J08- 61	56E 20	0 VDC IMU
A 192	56J08- 62	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 213	56J08- 63	56E 20	0 VDC IMU
A 209R	56J08- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED
A 181	56J08- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 400 CPS
A 179	56J08- 67	56TB1-G 1	+28 VDC MDV
A 182R	56J08- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC
A 195	56J08- 70	56E 19	0 VDC IMU
A 198	56J08- 71	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 200	56J08- 72	56TB3-B 3	CDU FAIL LIGHT HI
A 190	56J08- 73	56TB3-B 5	ACCEL FAIL LIGHT HI
A 209W	56J08- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED
A 184	56J08- 78	56TB2-S 7	STEP-UP-C
A 186	56J08- 79	56TB2-S 5	STEP-DOWN-C
A 182W	56J08- 81	56TB3-B12	400 CPS 26 V SLEW
A 214	56J08- 82	56TB2-D 6	0 VDC IMU
A 201	56J08- 83	56E 20	0 VDC IMU

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 429	56J09- 1	56TB3-L22	0 VDC OPTICS	
A 392	56J09- 2	56TB3-M 3	TRUNNION ENCODER PIN 8	
A 389W	56J09- 3	56J22-193	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 387W	56J09- 4	56J22-233	PITCH ATTIT IMPULSE CONTR OUTPUT UP	
A 387L	56J09- 5	56J22-232	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN	
A 388L	56J09- 6	56J22-197	YAW ATTIT IMPULSE CONTR OUTPUT LEFT	
A 388R	56J09- 7	56J22-235	YAW ATTIT IMPULSE CONTR INPUT	
A 425R	56J09- 10	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI	
A 389R	56J09- 16	56J22-230	ROLL ATTIT IMPULSE CONTR INPUT	
A 389L	56J09- 17	56J22-192	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT	
A 387R	56J09- 18	56J22-195	PITCH ATTIT IMPULSE CONTR INPUT	
A 426R	56J09- 19	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI	
A 388W	56J09- 20	56J22-198	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 391	56J09- 21	56TB3-K 4	TRUNNION ENCODER PIN 9	
A 425W	56J09- 23	56TB3-M11	RSVR DRIVE AMP INPUT LO	
A 425L	56J09- 24	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
A 437W	56J09- 25	56J21- 54	OPTICS ZERO ENCODER	104A
A 450	56J09- 26	56TB2-D 6	0 VDC IMU	
* A 453	56J09- 29	56P10- 10	GIMBAL LOCK LIGHT CONDITION LAMP TEST	
A 433W	56J09- 30	56J21- 86	MARK	102A
A 434W	56J09- 31	56J21- 88	NOT MARK	103A
A 431R	56J09- 32	56TB2-A 2	PANEL BRIGHTNESS CONTROL	
A 426W	56J09- 33	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO	
A 427W	56J09- 34	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
A 427R	56J09- 35	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
A 420	56J09- 36	56E 56	AGC COMMON	
A 449R	56J09- 37	56J21- 18	OPTICS MODE SW COMPUTER INDICATION	106A
A 597W	56J09- 38	56TB2-V 1	SHAFT CDU MOTOR EXC	
A 393W	56J09- 40	56J22-200	0 VDC FROM NAA	
A 393R	56J09- 41	56J22-237	+28 VDC FROM NAA	
A 415	56J09- 42	56E 56	AGC COMMON	
A 431W	56J09- 44	56TB2-A 1	PANEL BRIGHTNESS CONTROL	
A 604W	56J09- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY	
A 421W	56J09- 47	56TB3-F 7	TRUNNION CDU DAC LO	
A 422R	56J09- 48	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
A 597R	56J09- 49	56TB2-U 1	TRUNNION CDU MOTOR EXC	
A 393L	56J09- 50	56J22-238	ATTITUDE DISABLE SIG TO NAA	
A 435	56J09- 51	56TB3-M22	+28 VDC MDV	
A 606K	56J09- 52	56P10-108	400 CPS 6 V LO	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 606L	56J09- 53	56P10-107	400 CPS 6 V HI	
A 605R	56J09- 54	56TB1-R 1	400 CPS VAR ILLUM PWR	
A 604R	56J09- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY	
A 421R	56J09- 56	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
A 422W	56J09- 57	56TB3-F 8	SHAFT CDU DAC LO	
A 405	56J09- 58	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 404	56J09- 59	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 406	56J09- 60	56E 56	AGC COMMON	
A 606R	56J09- 61	56P10-106	400 CPS 6 V HI	
A 606W	56J09- 62	56P10- 93	400 CPS 6 V HI	
A 605K	56J09- 63	56TB1-M 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
A 605L	56J09- 64	56TB1-N 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
A 448R	56J09- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED	
A 408	56J09- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 400 CPS	
A 410	56J09- 67	56TB1-G 1	+28 VDC MDV	
A 409R	56J09- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC	
A 416W	56J09- 69	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS	
A 407W	56J09- 70	56J21- 16	SXT PWR ON INDICATION TO AGC	105A
A 445	56J09- 71	56TB3-M20	+28 VDC OPTICS	
A 394	56J09- 72	56TB3-B11	ZERO OPTICS RELAY CONTROL	
A 390	56J09- 73	56TB3-F 3	CONDITION LAMP TEST	
A 403	56J09- 74	56TB3-H 5	IMU TEMP ALARM AMP PIN 15	
A 444	56J09- 75	56TB3-K 5	IMU TEMP ALARM AMP PIN 14	
A 400	56J09- 76	56TB3-L 5	IMU TEMP CONT K2 PIN 6	
A 448W	56J09- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED	
A 414	56J09- 78	56TB2-S 7	STEP-UP-C	
A 412	56J09- 79	56TB2-S 5	STEP-DOWN-C	
A 416R	56J09- 80	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS	
A 409W	56J09- 81	56TB3-B12	400 CPS 26 V SLEW	
A 597L	56J09- 82	56TB2-U 2	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD	
A 436	56J09- 83	56TB3-L15	0 VDC OPTICS	
A 605W	56J09- 84	56TB1-K 1	MODE LAMP TEST PWR	
A 442	56J09- 85	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6	
A 398	56J09- 86	56TB3-L 1	IRIG TEMP GAIN SWITCH NC	
A 401L	56J09- 87	56TB3-H 1	IMU TEMP CONT AMP PIN 5	
A 401K	56J09- 88	56TB3-G 2	IMU TEMP CONT K2 PIN 5	
A 443	56J09- 89	56TB3-G 3	IRIG ZERO DEVIATION CHECK	
A 402	56J09- 90	56TB3-N 6	EMERG HTR CONT MODULE LO	
A 451	56J09- 91	56TB3-F22	STRUCTURE GND	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 191	56J08- 84	56E 20	0 VDC IMU
A 211	56J08- 92	56TB1-S 5	0 VDC IMU
A 185	56J08- 93	56TB2-S 4	STEP-DOWN-R
A 199	56J08- 95	56TB3-B14	400 CPS 26 V LO
A 183	56J08-106	56TB2-S 6	STEP-UP-R

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 438	56J09- 92	56TB3-K 1	IMU TEMP ALARM AMP PIN 5
A 411	56J09- 93	56TB2-S 4	STEP-DOWN-R
A 439	56J09- 94	56TB3-D 1	0 VDC IMU
A 447	56J09- 95	56P10- 48	400 CPS 26 V HI
A 597K	56J09- 96	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 395	56J09- 97	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 396	56J09- 98	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
A 428	56J09- 99	56TB3-L18	COSECANT RELAY CONTROL
A 401R	56J09-100	56TB3-G 1	IMU HTR CURRENT AMP PIN 5
A 401W	56J09-101	56TB3-H 2	IMU TEMP CONT K1 PIN 3
A 399	56J09-102	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
A 441	56J09-103	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
A 397	56J09-104	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
A 446	56J09-105	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
A 413	56J09-106	56TB2-S 6	STEP-UP-R

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 486R	56J10- 41	56J21-146	ALARM 2	230A
A 470R	56J10- 42	56J21- 47	TIMING (1.5 CPS)	244A
A 490R	56J10- 43	56J21-216	ALARM 7	235A
A 489R	56J10- 44	56J21- 8	ALARM 6	234A
A 522	56J10- 45	56J21- 10	SPARE	248
A 523	56J10- 46	56J21- 11	SPARE	249
A 515R	56J10- 47	56J21-185	OR OF C1 THRU C33	210A
A 517R	56J10- 48	56J21-220	ERROR RESET	208A
A 468W	56J10- 49	56J21- 12	KEY RESET NAV	209A
A 492R	56J10- 51	56J21-148	ALARM 9	237A
A 491R	56J10- 53	56J21-181	ALARM 8	236A
A 513	56J10- 55	56J21-174	+3 V B	240
A 512	56J10- 56	56J21-173	GND	239
A 477	56J10- 57	56J21-108	+13 V B	241
A 509	56J10- 58	56J21- 39	GND	239
A 481	56J10- 59	56J21- 40	+28 VDC AGC	243
A 496R	56J10- 60	56J21-142	OUT 0 3	216A
A 500R	56J10- 61	56J21-212	OUT 0 8	221A
A 501R	56J10- 62	56J21-177	OUT 0 9	222A
A 502R	56J10- 63	56J21-144	OUT 0 10	223A
A 493R	56J10- 64	56J21-115	ALARM 10	238A
A 476	56J10- 70	56J21- 3	SPARE	211
A 473	56J10- 71	56J21- 75	SPARE	212
A 469	56J10- 72	56J21-141	SPARE	213
A 494R	56J10- 73	56J21-210	OUT 0 1	214A
A 495R	56J10- 74	56J21-175	OUT 0 2	215A
A 520	56J10- 75	56J21-209	SPARE	247
A 519	56J10- 82	56E 26	COMMONED RETURNS GROUND	330

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
AA 15W	56J11-A1	56TB2-H 2	IG CDU 1X ERROR SIG
AA 19W	56J11-A2	56TB2-H 7	MG CDU 1X ERROR SIG
AA 21W	56J11-A3	56TB2-N 2	OG CDU 1X ERROR SIG
AA 10R	56J11-A5	56J12-A2	IMU MG ERROR SIG
AA 29R	56J11-A5	56TB1-A 7	IMU MG ERROR SIG
AA 10L	56J11-A6	56J12-B1	IMU OG ERROR SIG
AA 29L	56J11-A6	56TB1-A 8	IMU OG ERROR SIG
AA 15R	56J11-B1	56TB2-G 2	IG CDU ERROR SIG RET
AA 16W	56J11-B1	56TB1-B 5	IG CDU ERROR SIG RET
AA 19R	56J11-B2	56TB2-G 7	MG CDU ERROR SIG RET
AA 20W	56J11-B2	56TB1-A 6	MG CDU ERROR SIG RET
AA 11R	56J11-B3	56J17-B1	OG CDU ERROR SIG RET
AA 21R	56J11-B3	56TB2-R 2	OG CDU ERROR SIG RET
AA 10K	56J11-B5	56J12-B2	IMU GIMBAL AND GYRO ERROR SIG LO
AA 29K	56J11-B5	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
AA 10W	56J11-B6	56J12-A1	IMU IG AND Y GYRO ERROR SIG
AA 29W	56J11-B6	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
AA 16R	56J11-C1	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR
AA 20R	56J11-C2	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR
AA 11W	56J11-C3	56J17-A1	OG CDU ATTITUDE STEERING ERROR
AA 30W	56J11-D5	56TB1-D 4	IG TORQUE MOTOR RET
AA 30R	56J11-D6	56TB1-D 3	IG TORQUE MOTOR HI
AA 23R	56J11-F1	56TB1-C 4	IG ADA
AA 42W	56J11-F3	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
AA 32R	56J11-F6	56TB1-A 4	MG TORQUE MOTOR HI
AA 23K	56J11-G1	56TB1-C 3	OG ADA
AA 23W	56J11-G2	56TB1-B 3	0 VDC IMU
AA 24	56J11-G2	56J11-P6	0 VDC IMU
AA 42R	56J11-G3	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
AA 32W	56J11-G6	56TB1-A 3	MG TORQUE MOTOR RET
AA 23L	56J11-H1	56TB1-B 4	MG ADA
AA 34W	56J11-H5	56TB1-B 2	OG TORQUE MOTOR RET
AA 34R	56J11-H6	56TB1-A 2	OG TORQUE MOTOR HI
AA 9W	56J11-L1	56J12-H2	3200 CPS 2 V HI
AA 28W	56J11-L1	56TB1-D 2	3200 CPS 2 V HI
AA 9R	56J11-L2	56J12-K2	3200 CPS 2 V LO
AA 28K	56J11-L2	56TB1-C 2	3200 CPS 2 V LO
AA 35	56J11-L3	56TB1-D 6	COARSE ALIGN RELAY CONTROL
AA 7	56J11-L4	56J12-K3	STRUCTURE GND

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 570	56J10- 1	56E 62	GROUP 2 SHIELD	245
A 464	56J10- 2	56TB3-F 3	CONDITION LAMP TEST	328
A 474W	56J10- 3	56TB3-B 4	ZERO ENCODER LIGHT HI	301
A 474R	56J10- 4	56TB3-B 3	CDU FAIL LIGHT HI	302
A 474L	56J10- 5	56TB3-B 5	ACCEL FAIL LIGHT HI	303
A 465	56J10- 6	56TB3-M 6	IMU FAIL LIGHT HI	304
A 466	56J10- 7	56TB1-F 1	SPARE FAIL LIGHT HI	305
A 507	56J10- 8	56TB3-M22	+28 VDC MDV	306
A 478	56J10- 9	56TB1-H 5	AGC FAIL SIG	326
A 508	56J10- 10	56TB1-G 5	+28 VDC TO COMPUTER RELAY	327
A 475	56J10- 12	56TB1-F 8	ATTIT CONT MODE COMMAND FROM AGC	314
A 521	56J10- 13	56TB1-K 7	MODE RELAY COMMON TO AGC	315
A 503R	56J10- 14	56J21-111	OUT 0 11	224A
A 506R	56J10- 15	56J21- 78	OUT 0 12	225A
A 504R	56J10- 16	56J21- 43	OUT 0 13	226A
A 483R	56J10- 17	56J21- 6	OUT 0 14	227A
A 484R	56J10- 18	56J21-214	OUT 0 15	228A
A 487R	56J10- 19	56J21-113	ALARM 3	231A
A 471R	56J10- 20	56J21- 82	POWER SYNC	242A
A 479W	56J10- 21	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC	307
A 479L	56J10- 22	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC	308
A 480L	56J10- 23	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC	309
A 479R	56J10- 24	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC	310
A 480R	56J10- 25	56TB1-K 6	ENTRY MODE COMMAND FROM AGC	311
A 480W	56J10- 26	56TB1-K 7	MODE RELAY COMMON TO AGC	312
A 569	56J10- 27	56E 65	GROUP 3 SHIELD	250
A 497R	56J10- 28	56J21-109	OUT 0 4	217A
A 498R	56J10- 29	56J21- 76	OUT 0 5	218A
A 499R	56J10- 30	56J21- 41	OUT 0 6	219A
A 505R	56J10- 31	56J21- 4	OUT 0 7	220A
A 482R	56J10- 32	56J21- 80	ALARM 4	232A
A 488R	56J10- 33	56J21- 45	ALARM 5	233A
A 516R	56J10- 34	56J21-218	KEY CODE 1	201A
A 514R	56J10- 35	56J21-183	KEY CODE 2	202A
A 472R	56J10- 36	56J21-150	KEY CODE 3	203A
A 511R	56J10- 37	56J21-117	KEY CODE 4	204A
A 467R	56J10- 38	56J21- 84	KEY CODE 5	205A
A 510R	56J10- 39	56J21- 14	TEST ALARM	207A
A 485R	56J10- 40	56J21-179	ALARM 1	229A

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA617	56J11-L4	56E 66	STRUCTURE GND	
	AA618	56J11-L4	56E 67	STRUCTURE GND	
*	AA503R	56J11-L6	56J21-203	COMPUTER 3200 PPS OUT OF PHASE SYNC	152A
	AA 28R	56J11-M1	56TB1-D 2	3200 CPS 2 V HI	
	AA 28L	56J11-M2	56TB1-C 2	3200 CPS 2 V LO	
	AA 36	56J11-M5	56E 28	COMPUTER 3200 PPS SYNC RET	
	AA 37	56J11-M5	56J11-P3	0 VDC IMU	
*	AA504R	56J11-M6	56J21-241	COMPUTER 3200 PPS IN PHASE SYNC	151A
	AA 12R	56J11-N1	56J17-P2	3200 CPS 20 V CT	
	AA 12L	56J11-N2	56J17-R2	3200 CPS 20 V LO	
	AA610	56J11-N3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
	AA 5R	56J11-N4	56J12-P3	800 CPS 28 V 1 PCT LO IMU	
	AA 5W	56J11-N5	56J12-N3	800 CPS 28 V 1 PCT HI IMU	
	AA 14	56J11-N6	56J13-P6	-28 VDC	
	AA 27	56J11-N6	56TB1-D 5	-28 VDC	
	AA 12W	56J11-P1	56J17-N2	3200 CPS 20 V HI	
	AA 38	56J11-P2	56J11-R3	0 VDC IMU	
	AA 39	56J11-P3	56J11-R3	0 VDC IMU	
*	AA 37	56J11-P3	56J11-M5	0 VDC IMU	
	AA 18	56J11-P4	56J11-R4	0 VDC IMU	
	AA 22	56J11-P4	56J11-P5	0 VDC IMU	
*	AA 22	56J11-P5	56J11-P4	0 VDC IMU	
	AA 26	56J11-P6	56J11-R6	0 VDC IMU	
	AA 46	56J11-P6	56TB1-S 3	0 VDC IMU	
*	AA 24	56J11-P6	56J11-G2	0 VDC IMU	
	AA 41	56J11-R1	56J11-R2	0 VDC IMU	
	AA 44	56J11-R1	56TB2-M 2	0 VDC IMU	
	AA 45	56J11-R2	56TB2-M 3	0 VDC IMU	
*	AA 41	56J11-R2	56J11-R1	0 VDC IMU	
	AA 43	56J11-R3	56TB2-M 1	0 VDC IMU	
*	AA 38	56J11-R3	56J11-P2	0 VDC IMU	
*	AA 39	56J11-R3	56J11-P3	0 VDC IMU	
	AA 17	56J11-R4	56J11-R5	0 VDC IMU	
*	AA 18	56J11-R4	56J11-P4	0 VDC IMU	
	AA 31	56J11-R5	56J11-R6	0 VDC IMU	
*	AA 17	56J11-R5	56J11-R4	0 VDC IMU	
	AA 33	56J11-R6	56J11-S6	0 VDC IMU	
*	AA 26	56J11-R6	56J11-P6	0 VDC IMU	
*	AA 31	56J11-R6	56J11-R5	0 VDC IMU	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA 10W	56J12-A1	56J11-B6	IMU IG AND Y GYRO ERROR SIG	
*	AA 10R	56J12-A2	56J11-A5	IMU MG ERROR SIG	
	AA 75	56J12-A5	56J13-D2	X PIP ERROR MONITOR	
	AA 76	56J12-A6	56J13-F2	Y PIP ERROR MONITOR	
*	AA 10L	56J12-B1	56J11-A6	IMU OG ERROR SIG	
*	AA 10K	56J12-B2	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA 77	56J12-B5	56E 34	0 VDC IMU	
	AA 47	56J12-B6	56J14-H6	Z PIP ERROR MONITOR	
*	AA232L	56J12-D1	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	
*	AA232R	56J12-D2	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	
	AA641L	56J12-D4	56J21- 60	ACCEL FAIL	138A
	AA640L	56J12-D5	56J21-158	CDU FAIL	124A
	AA639L	56J12-D6	56J21- 28	IMU FAIL	141A
	AA 67	56J12-F1	56E 31	COMPUTER 800 PPS SYNC RET	
	AA 68	56J12-F1	56J12-F2	COMPUTER 800 PPS SYNC RET	
	AA 69	56J12-F2	56E 29	COMPUTER 25.6 KPPS SYNC RET	
*	AA 68	56J12-F2	56J12-F1	COMPUTER 800 PPS SYNC RET	
	AA 97	56J12-F3	56J17-M3	0 VDC SPACECRAFT	
	AA641R	56J12-F4	56J21- 61	ACCEL FAIL RET	138B
	AA640R	56J12-F5	56J21-159	CDU FAIL RET	124B
	AA639R	56J12-F6	56J21- 29	IMU FAIL RET	141B
*	AA490L	56J12-G1	56J21-169	COMPUTER 25.6 KPPS IN PHASE SYNC	153A
*	AA491R	56J12-G2	56J21-136	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA 74	56J12-G3	56J22-244	ERROR DETECT LIGHT MAIN PANEL	
	AA 53	56J12-G4	56J20-L6	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP	
	AA 59	56J12-G5	56J16-R2	0 VDC IMU	
	AA 71	56J12-G5	56J12-R5	0 VDC IMU	
	AA 58	56J12-G6	56J16-N3	OG CDU FAILURE INDICATION	
	AA 70R	56J12-H1	56J21- 71	COMPUTER 102.4 KPPS SYNC RET	156B
*	AA 70A	56J12-H1	SHLD AA 70	COMPUTER 102.4 KPPS SYNC RET	
	AA 48W	56J12-H2	56J15-S4	3200 CPS 2 V HI	
*	AA 9W	56J12-H2	56J11-L1	3200 CPS 2 V HI	
	AA 52W	56J12-H4	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 62	56J12-H4	56J12-N2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 56	56J12-H5	56J16-M2	IG CDU FAILURE INDICATION	
	AA 57	56J12-H6	56J16-M3	MG CDU FAILURE INDICATION	
	AA 70L	56J12-K1	56J21- 70	COMPUTER 102.4 KPPS SYNC	156A
	AA 48R	56J12-K2	56J15-R4	3200 CPS 2 V LO	
*	AA 9R	56J12-K2	56J11-L2	3200 CPS 2 V LO	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA 2	56J11-S1	56J20-L1	+28 VDC IMU
	AA 40	56J11-S1	56J11-S2	+28 VDC IMU
	AA 3	56J11-S2	56J20-L2	+28 VDC IMU
*	AA 40	56J11-S2	56J11-S1	+28 VDC IMU
	AA 13	56J11-S3	56J17-R1	+28 VDC STBY
	AA 1	56J11-S4	56J15-S6	+28 VDC IMU
	AA 6	56J11-S4	56J12-S5	+28 VDC IMU
	AA 25	56J11-S4	56J11-S5	+28 VDC IMU
	AA 4	56J11-S5	56J20-K2	+28 VDC IMU
*	AA 25	56J11-S5	56J11-S4	+28 VDC IMU
*	AA 33	56J11-S6	56J11-R6	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA 72	56J12-K3	56J13-C6	STRUCTURE GND	
*	AA 7	56J12-K3	56J11-L4	STRUCTURE GND	
	AA 52R	56J12-K4	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
	AA 73L	56J12-K6	56J14-R2	+12, +120 VDC RET GYRO	
	AA 82	56J12-L1	56TB3-M22	+28 VDC MDV	
	AA 83	56J12-L2	56TB1-H 8	ERROR DETECT LIGHT HI	
	AA 95R	56J12-L5	56J13-R3	+32 VDC RET GYRO	
	AA 73R	56J12-L6	56J14-S2	+120 VDC GYRO	
	AA 80	56J12-M1	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI	
	AA 81	56J12-M1	56J21- 36	AGC POWER SUPPLY FAIL SIG HI	157A
	AA 78	56J12-M3	56TB1-H 5	AGC FAIL SIG	
	AA 79	56J12-M4	56TB1-G 5	+28 VDC TO COMPUTER RELAY	
	AA 95W	56J12-M5	56J13-S3	+32 VDC GYRO	
	AA 73W	56J12-M6	56J14-S3	+12 VDC GYRO	
	AA 61	56J12-N1	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 62	56J12-N2	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 49W	56J12-N3	56J15-P6	800 CPS 28 V 1 PCT HI IMU	
*	AA 5W	56J12-N3	56J11-N5	800 CPS 28 V 1 PCT HI IMU	
	AA 64W	56J12-N4	56TB1-H 4	25.6 KC HI IMU	
	AA 65	56J12-N4	56J12-N5	25.6 KC HI IMU	
	AA 50W	56J12-N5	56J15-N6	25.6 KC HI IMU	
*	AA 65	56J12-N5	56J12-N4	25.6 KC HI IMU	
	AA 63R	56J12-N6	56TB1-G 7	25.6 KC LO OPTICS	
	AA 94R	56J12-N6	56J17-N3	25.6 KC LO OPTICS	
	AA643	56J12-N6	56J12-R6	0 VDC OPTICS	
	AA 60L	56J12-P1	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 61	56J12-P1	56J12-N1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
	AA 60W	56J12-P2	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
	AA 49R	56J12-P3	56J15-P5	800 CPS 28 V 1 PCT LO IMU	
*	AA 5R	56J12-P3	56J11-N4	800 CPS 28 V 1 PCT LO IMU	
	AA 92L	56J12-P4	56J17-R3	COMPUTER 12.8 KPPS SYNC	
	AA 92R	56J12-P4	56J17-R3	COMPUTER 12.8 KPPS SYNC	
*	AA610	56J12-P4	56J11-N3	COMPUTER 12.8 KPPS SYNC	
	AA 50R	56J12-P5	56J15-N5	25.6 KC LO IMU	
	AA 64R	56J12-P5	56TB1-G 4	25.6 KC LO IMU	
	AA644	56J12-P5	56J12-R3	0 VDC IMU	
	AA 63W	56J12-P6	56TB1-H 7	25.6 KC HI OPTICS	
	AA 94W	56J12-P6	56J17-P3	25.6 KC HI OPTICS	
	AA 60R	56J12-R1	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA 89	56J12-R2	56J12-R3	0 VDC IMU
	AA 99	56J12-R2	56TB1-N 5	0 VDC IMU
	AA 90	56J12-R3	56J12-R4	0 VDC IMU
*	AA 89	56J12-R3	56J12-R2	0 VDC IMU
*	AA644	56J12-R3	56J12-P5	0 VDC IMU
	AA 91	56J12-R4	56E 31	0 VDC IMU
	AA100	56J12-R4	56TB1-N 8	0 VDC IMU
*	AA 90	56J12-R4	56J12-R3	0 VDC IMU
	AA 96	56J12-R5	56J13-R6	0 VDC IMU
	AA 98	56J12-R5	56TB1-S 6	0 VDC IMU
*	AA 71	56J12-R5	56J12-G5	0 VDC IMU
	AA 66	56J12-R6	56TB3-L20	0 VDC OPTICS
*	AA643	56J12-R6	56J12-N6	0 VDC OPTICS
	AA 54	56J12-S1	56J20-M1	+28 VDC IMU
	AA 87	56J12-S1	56J12-S3	+28 VDC IMU
	AA 55	56J12-S2	56J20-M2	+28 VDC IMU
	AA 88	56J12-S2	56J12-S4	+28 VDC IMU
*	AA 87	56J12-S3	56J12-S1	+28 VDC IMU
*	AA 88	56J12-S4	56J12-S2	+28 VDC IMU
*	AA 6	56J12-S5	56J11-S4	+28 VDC IMU
	AA 51	56J12-S6	56J20-N5	+28 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA125	56J13-R6	56E 34	0 VDC IMU
*	AA 96	56J13-R6	56J12-R5	0 VDC IMU
	AA112W	56J13-S1	56J14-S2	+120 VDC GYRO
	AA109W	56J13-S2	56J14-S1	+120 VDC PIP
	AA110W	56J13-S3	56J14-S5	+32 VDC GYRO
*	AA 95W	56J13-S3	56J12-M5	+32 VDC GYRO
	AA111W	56J13-S4	56J14-S4	+32 VDC PIP
	AA107	56J13-S6	56J14-S6	+28 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA126W	56J14-A1	56TB1-T 5	Z PIP ERROR HI	
	AA126R	56J14-A2	56TB1-T 4	Z PIP ERROR LO	
*	AA104	56J14-A6	56J13-A6	X GYRO DC DIFF AMP OUTPUT	
	AA143	56J14-C1	56J15-N2	+ SET X GYRO CAGE	
	AA144	56J14-C2	56J15-P2	- SET X GYRO CAGE	
	AA141	56J14-C3	56J15-N3	+ SET Y GYRO CAGE	
	AA142	56J14-C4	56J15-P3	- SET Y GYRO CAGE	
	AA139	56J14-C5	56J15-N4	+ SET Z GYRO CAGE	
	AA140	56J14-C6	56J15-P4	- SET Z GYRO CAGE	
	AA129R	56J14-D1	56J21- 67	+ DX GYRO RATE	142B
	AA130W	56J14-D2	56J21- 33	- DX GYRO RATE	143B
	AA131R	56J14-D3	56J21-240	+ DY GYRO RATE	144B
	AA132R	56J14-D4	56J21-202	- DY GYRO RATE	145B
	AA134W	56J14-D5	56J21-168	+ DZ GYRO RATE	146B
	AA135R	56J14-D6	56J21-135	- DZ GYRO RATE	147B
	AA148	56J14-F6	56J15-L2	P Z	
*	AA103	56J14-G1	56J13-H6	X GYRO CAL DUMMY	
	AA149	56J14-G6	56J15-M2	N Z	
*	AA105W	56J14-H1	56J13-K6	X GYRO TERNARY CUR SW TORQUE +	
	AA138	56J14-H3	56J15-L1	PIPA INTERROGATE PULSE	
*	AA101	56J14-H3	56J13-N5	PIPA INTERROGATE PULSE	
	AA145	56J14-H4	56J15-M1	GYRO DATA PULSE	
	AA151	56J14-H5	56J15-K3	STRUCTURE GND	
*	AA106	56J14-H5	56J13-C6	STRUCTURE GND	
	AA128	56J14-H6	56TB1-T 7	Z PIP ERROR MONITOR	
*	AA 47	56J14-H6	56J12-B6	Z PIP ERROR MONITOR	
*	AA105R	56J14-K1	56J13-L6	X GYRO TERNARY CUR SW TORQUE -	
	AA146	56J14-K3	56J15-N1	PIPA SWITCHING PULSE	
*	AA102	56J14-K3	56J13-N6	PIPA SWITCHING PULSE	
	AA147	56J14-K4	56J15-P1	GYRO RESET PULSE	
	AA136R	56J14-L6	56TB1-T 8	Z GYRO TORQUE +	
	AA133R	56J14-M1	56TB1-T 6	Y GYRO TORQUE +	
	AA133L	56J14-M2	56TB1-U 6	Y GYRO TORQUE -	
	AA133W	56J14-M3	56TB1-U 5	Y GYRO TORQUE RET	
	AA136L	56J14-M6	56TB1-U 8	Z GYRO TORQUE -	
	AA136W	56J14-N6	56TB1-U 7	Z GYRO TORQUE RET	
	AA127R	56J14-P1	56TB1-U 4	Z PIP TORQUE +	
	AA127L	56J14-P2	56TB1-U 3	Z PIP TORQUE -	
	AA127W	56J14-P3	56TB1-T 3	Z PIP TORQUE RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA118W	56J13-A1	56TB1-M 7	X PIP ERROR HI	
	AA121W	56J13-A3	56TB1-M 3	Y PIP ERROR HI	
	AA104	56J13-A6	56J14-A6	X GYRO DC DIFF AMP OUTPUT	
	AA118R	56J13-B1	56TB1-M 6	X PIP ERROR LO	
	AA121R	56J13-B3	56TB1-N 2	Y PIP ERROR LO	
	AA106	56J13-C6	56J14-H5	STRUCTURE GND	
*	AA 72	56J13-C6	56J12-K3	STRUCTURE GND	
	AA114	56J13-D1	56J15-L4	P X	
	AA120	56J13-D2	56TB1-L 2	X PIP ERROR MONITOR	
*	AA 75	56J13-D2	56J12-A5	X PIP ERROR MONITOR	
	AA116	56J13-D3	56J15-L3	P Y	
	AA124R	56J13-D6	56TB1-M 8	X GYRO TORQUE +	
	AA115	56J13-F1	56J15-M4	N X	
	AA123	56J13-F2	56TB1-M 2	Y PIP ERROR MONITOR	
*	AA 76	56J13-F2	56J12-A6	Y PIP ERROR MONITOR	
	AA117	56J13-F3	56J15-M3	N Y	
	AA124W	56J13-F6	56TB1-L 8	X GYRO TORQUE RET	
	AA124L	56J13-G6	56TB1-L 7	X GYRO TORQUE -	
	AA119R	56J13-H1	56TB1-M 5	X PIP TORQUE +	
	AA103	56J13-H6	56J14-G1	X GYRO CAL DUMMY	
	AA119W	56J13-K1	56TB1-L 6	X PIP TORQUE RET	
	AA105W	56J13-K6	56J14-H1	X GYRO TERNARY CUR SW TORQUE +	
	AA119L	56J13-L1	56TB1-L 5	X PIP TORQUE -	
	AA122R	56J13-L3	56TB1-L 4	Y PIP TORQUE +	
	AA105R	56J13-L6	56J14-K1	X GYRO TERNARY CUR SW TORQUE -	
	AA122W	56J13-M3	56TB1-L 3	Y PIP TORQUE RET	
	AA122L	56J13-N3	56TB1-M 4	Y PIP TORQUE -	
	AA101	56J13-N5	56J14-H3	PIPA INTERROGATE PULSE	
*	AA501W	56J13-N5	56J21-132	PIPA INTERROGATE PULSE	139A
	AA102	56J13-N6	56J14-K3	PIPA SWITCHING PULSE	
*	AA502W	56J13-N6	56J21- 99	PIPA SWITCHING PULSE	140A
	AA113	56J13-P6	56J14-P6	-28 VDC	
*	AA 14	56J13-P6	56J11-N6	-28 VDC	
	AA112R	56J13-R1	56J14-R2	+12, +120 VDC RET GYRO	
	AA109R	56J13-R2	56J14-R1	+120 VDC RET PIP	
	AA110R	56J13-R3	56J14-R5	+32 VDC RET GYRO	
*	AA 95R	56J13-R3	56J12-L5	+32 VDC RET GYRO	
	AA111R	56J13-R4	56J14-R4	+32 VDC RET PIP	
	AA108	56J13-R6	56J14-R6	0 VDC IMU	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA113	56J14-P6	56J13-P6	-28 VDC
	AA150R	56J14-R1	56J15-R5	+120 VDC RET PIP
*	AA109R	56J14-R1	56J13-R2	+120 VDC RET PIP
*	AA 73L	56J14-R2	56J12-K6	+12, +120 VDC RET GYRO
*	AA112R	56J14-R2	56J13-R1	+12, +120 VDC RET GYRO
	AA154R	56J14-R4	56J17-S5	+32 VDC RET PIP
*	AA111R	56J14-R4	56J13-R4	+32 VDC RET PIP
*	AA110R	56J14-R5	56J13-R3	+32 VDC RET GYRO
	AA137	56J14-R6	56E 33	0 VDC IMU
	AA153	56J14-R6	56J15-R2	0 VDC IMU
*	AA108	56J14-R6	56J13-R6	0 VDC IMU
	AA150W	56J14-S1	56J15-S5	+120 VDC PIP
*	AA109W	56J14-S1	56J13-S2	+120 VDC PIP
*	AA 73R	56J14-S2	56J12-L6	+120 VDC GYRO
*	AA112W	56J14-S2	56J13-S1	+120 VDC GYRO
*	AA 73W	56J14-S3	56J12-M6	+12 VDC GYRO
	AA154W	56J14-S4	56J17-T5	+32 VDC PIP
*	AA111W	56J14-S4	56J13-S4	+32 VDC PIP
*	AA110W	56J14-S5	56J13-S3	+32 VDC GYRO
	AA152	56J14-S6	56J15-S2	+28 VDC IMU
*	AA107	56J14-S6	56J13-S6	+28 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA172L	56J15-D9	56TB2-C 7	SIN AMG 16X TO CDU	
	AA162W	56J15-F1	56TB2-B 6	MG CDU ENCODER PHASE 1	
	AA162L	56J15-F2	56TB2-C 6	MG CDU ENCODER COM	
	AA171L	56J15-F7	56TB2-C 8	SIN AIG 16X TO CDU	
	AA172W	56J15-F8	56TB2-A 7	SIN AMG 16X S2	
	AA172R	56J15-F9	56TB2-B 7	SIN AMG 16X S4	
	AA170	56J15-H4	56TB2-C 1	FINE ALIGN RELAY CONTROL	
	AA184	56J15-H4	56J16-L1	FINE ALIGN RELAY CONTROL	
	AA178	56J15-H5	56J20-H4	+28 VDC AGC	
	AA187	56J15-K3	56J16-N4	STRUCTURE GND	
*	AA151	56J15-K3	56J14-H5	STRUCTURE GND	
*	AA471L	56J15-K4	56J21- 95	- DELTA V Z	137B
*	AA472L	56J15-K5	56J21-128	+ DELTA V Z	136B
*	AA470L	56J15-K6	56J21-161	- DELTA V Y	135B
*	AA138	56J15-L1	56J14-H3	PIPA INTERROGATE PULSE	
*	AA148	56J15-L2	56J14-F6	P Z	
*	AA116	56J15-L3	56J13-D3	P Y	
*	AA114	56J15-L4	56J13-D1	P X	
	AA158	56J15-L5	56E 35	COMPUTER RET	
	AA159	56J15-L5	56E 36	COMPUTER RET	
	AA160	56J15-L5	56E 37	COMPUTER RET	
*	AA469L	56J15-L6	56J21-195	+ DELTA V Y	134B
*	AA145	56J15-M1	56J14-H4	GYRO DATA PULSE	
*	AA149	56J15-M2	56J14-G6	N Z	
*	AA117	56J15-M3	56J13-F3	N Y	
*	AA115	56J15-M4	56J13-F1	N X	
*	AA467L	56J15-M5	56J21-126	+ DELTA V X	132B
*	AA468L	56J15-M6	56J21- 93	- DELTA V X	133B
*	AA146	56J15-N1	56J14-K3	PIPA SWITCHING PULSE	
*	AA143	56J15-N2	56J14-C1	+ SET X GYRO CAGE	
*	AA141	56J15-N3	56J14-C3	+ SET Y GYRO CAGE	
*	AA139	56J15-N4	56J14-C5	+ SET Z GYRO CAGE	
*	AA 50R	56J15-N5	56J12-P5	25.6 KC LO IMU	
*	AA 50W	56J15-N6	56J12-N5	25.6 KC HI IMU	
	AA157W	56J15-P1	56J21-102	GYRO RESET PULSE	148B
*	AA147	56J15-P1	56J14-K4	GYRO RESET PULSE	
*	AA144	56J15-P2	56J14-C2	- SET X GYRO CAGE	
*	AA142	56J15-P3	56J14-C4	- SET Y GYRO CAGE	
*	AA140	56J15-P4	56J14-C6	- SET Z GYRO CAGE	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA185R	56J15-P5	56J16-S3	800 CPS 28 V 1 PCT LO IMU	
*	AA 49R	56J15-P5	56J12-P3	800 CPS 28 V 1 PCT LO IMU	
	AA185W	56J15-P6	56J16-S4	800 CPS 28 V 1 PCT HI IMU	
*	AA 49W	56J15-P6	56J12-N3	800 CPS 28 V 1 PCT HI IMU	
	AA156	56J15-R1	56TB2-C 2	BACKUP MODE RELAY CONTROL	
	AA157R	56J15-R2	56J21-101	0 VDC IMU	148A
	AA637	56J15-R2	56TB2-F 4	0 VDC IMU	
*	AA153	56J15-R2	56J14-R6	0 VDC IMU	
*	AA 48R	56J15-R4	56J12-K2	3200 CPS 2 V LO	
	AA188R	56J15-R5	56J17-L4	+120 VDC RET PIP	
*	AA150R	56J15-R5	56J14-R1	+120 VDC RET PIP	
	AA177	56J15-R6	56TB2-D 1	+28 VDC CDU NOT LOCK	
	AA173	56J15-S1	56TB2-B 2	ZERO ENCODER RELAY CONTROL	
	AA183	56J15-S1	56J16-L2	ZERO ENCODER RELAY CONTROL	
	AA179	56J15-S2	56J20-K1	+28 VDC IMU	
*	AA152	56J15-S2	56J14-S6	+28 VDC IMU	
	AA174	56J15-S3	56TB2-B 1	LOCK CDU RELAY CONTROL	
	AA175	56J15-S3	56J22-227	LOCK CDU RELAY CONTROL	
*	AA 48W	56J15-S4	56J12-H2	3200 CPS 2 V HI	
	AA188W	56J15-S5	56J17-L5	+120 VDC PIP	
*	AA150W	56J15-S5	56J14-S1	+120 VDC PIP	
	AA186	56J15-S6	56J16-S2	+28 VDC IMU	
*	AA 1	56J15-S6	56J11-S4	+28 VDC IMU	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA155W	56J15-A1	56TB1-C 8	Z GYRO ERROR SIG	
	AA155R	56J15-A2	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG	
*	AA488L	56J15-A3	56J21-188	MANUAL CDU MODE INDICATION TO AGC	160A
	AA180R	56J15-A4	56J16-B2	IG DAC MDA SIG HI	
	AA164	56J15-A5	56E 38	IG DAC MDA SIG LO	
	AA167	56J15-A5	56E 39	IG DAC MDA SIG LO	
	AA180W	56J15-A5	56J16-B1	IG DAC MDA SIG LO	
	AA181R	56J15-A6	56J16-B4	MG DAC MDA SIG HI	
	AA165	56J15-A7	56E 40	MG DAC MDA SIG LO	
	AA168	56J15-A7	56E 41	MG DAC MDA SIG LO	
	AA181W	56J15-A7	56J16-B3	MG DAC MDA SIG LO	
	AA182R	56J15-A8	56J16-B6	OG DAC MDA SIG HI	
	AA166	56J15-A9	56E 42	OG DAC MDA SIG LO	
	AA169	56J15-A9	56E 43	OG DAC MDA SIG LO	
	AA182W	56J15-A9	56J16-B5	OG DAC MDA SIG LO	
	AA155L	56J15-B1	56TB1-C 7	X GYRO ERROR SIG	
	AA155K	56J15-B2	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA176L	56J15-B3	56TB2-D 2	AGC COM	
*	AA475L	56J15-B4	56J21- 24	IG ENCODER + DELTA THETA	120A
*	AA481L	56J15-B5	56J21-237	IG CDU + DELTA THETA COMMAND	128A
*	AA477L	56J15-B6	56J21-232	MG ENCODER + DELTA THETA	122A
*	AA483L	56J15-B7	56J21-165	MG CDU + DELTA THETA COMMAND	130A
*	AA479L	56J15-B8	56J21- 56	OG ENCODER + DELTA THETA	118A
*	AA485L	56J15-B9	56J21- 64	OG CDU + DELTA THETA COMMAND	126A
	AA161R	56J15-C1	56TB2-A 5	IG CDU ENCODER COM	
	AA161W	56J15-C2	56TB2-B 5	IG CDU ENCODER PHASE 1	
	AA163L	56J15-C3	56TB2-C 4	OG CDU ENCODER PHASE 2	
*	AA476R	56J15-C4	56J21- 26	IG ENCODER - DELTA THETA	121A
*	AA482R	56J15-C5	56J21-199	IG CDU - DELTA THETA COMMAND	129A
*	AA478R	56J15-C6	56J21-192	MG ENCODER - DELTA THETA	123A
*	AA484R	56J15-C7	56J21- 97	MG CDU - DELTA THETA COMMAND	131A
*	AA480R	56J15-C8	56J21- 58	OG ENCODER - DELTA THETA	119A
*	AA486R	56J15-C9	56J21- 30	OG CDU - DELTA THETA COMMAND	127A
	AA161L	56J15-D1	56TB2-C 5	IG CDU ENCODER PHASE 2	
	AA162R	56J15-D2	56TB2-A 6	MG CDU ENCODER PHASE 2	
	AA163R	56J15-D3	56TB2-A 4	OG CDU ENCODER COM	
	AA163W	56J15-D4	56TB2-B 4	OG CDU ENCODER PHASE 1	
	AA171R	56J15-D7	56TB2-B 8	SIN AIG 16X S4	
	AA171W	56J15-D8	56TB2-A 8	SIN AIG 16X S2	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA197R	56J16-A1	56TB2-U 6	IG CDU MDA TACH SIG	
	AA197W	56J16-A2	56TB2-T 6	IG CDU MDA SLEW SIG	
	AA202R	56J16-A3	56TB2-W 5	MG CDU MDA TACH SIG	
	AA202W	56J16-A4	56TB2-X 5	MG CDU MDA SLEW SIG	
	AA214R	56J16-A5	56TB2-N 6	OG CDU MDA TACH SIG	
	AA214W	56J16-A6	56TB2-R 6	OG CDU MDA SLEW SIG	
*	AA489L	56J16-A7	56J21-152	ZERO ENCODER MODE INDICATION TO AGC	158A
	AA205W	56J16-A8	56TB2-U 7	SIN AOG 1X S2	
	AA205R	56J16-A9	56TB2-U 8	SIN AOG 1X S4	
	AA197L	56J16-B1	56TB2-T 7	IG CDU MDA INPUT RET	
*	AA180W	56J16-B1	56J15-A5	IG DAC MDA SIG LO	
*	AA197A	56J16-B1	SHLD AA197	IG CDU MDA INPUT RET	
*	AA180R	56J16-B2	56J15-A4	IG DAC MDA SIG HI	
	AA202L	56J16-B3	56TB2-X 6	MG CDU MDA INPUT RET	
*	AA181W	56J16-B3	56J15-A7	MG DAC MDA SIG LO	
*	AA202A	56J16-B3	SHLD AA202	MG CDU MDA INPUT RET	
*	AA181R	56J16-B4	56J15-A6	MG DAC MDA SIG HI	
	AA214L	56J16-B5	56TB2-R 7	OG CDU MDA INPUT RET	
*	AA182W	56J16-B5	56J15-A9	OG DAC MDA SIG LO	
*	AA214A	56J16-B5	SHLD AA214	OG CDU MDA INPUT RET	
*	AA182R	56J16-B6	56J15-A8	OG DAC MDA SIG HI	
*	AA569L	56J16-B7	56TB2-D 2	AGC COM	
	AA204W	56J16-B8	56TB2-N 8	COS AOG 1X S3	
	AA205L	56J16-B9	56TB2-T 8	SIN AOG 1X TO CDU	
	AA196W	56J16-C1	56TB2-H 1	IG CDU 16X ERROR SIG	
	AA195W	56J16-C2	56TB2-H 2	IG CDU 1X ERROR SIG	
	AA201W	56J16-C3	56TB2-H 8	MG CDU 16X ERROR SIG	
	AA200W	56J16-C4	56TB2-H 7	MG CDU 1X ERROR SIG	
	AA208R	56J16-C5	56TB2-N 3	OG CDU 16X ERROR SIG	
	AA207W	56J16-C6	56TB2-N 2	OG CDU 1X ERROR SIG	
	AA204R	56J16-C8	56TB2-N 7	COS AOG 1X S1	
	AA204L	56J16-C9	56TB2-R 8	COS AOG 1X TO CDU	
	AA194W	56J16-D1	56TB2-H 3	IG CDU 1/2X ERROR SIG	
	AA194R	56J16-D2	56TB2-G 3	IG CDU ERROR SIG RET	
	AA195R	56J16-D2	56TB2-G 2	IG CDU ERROR SIG RET	
	AA196R	56J16-D2	56TB2-G 1	IG CDU ERROR SIG RET	
	AA199W	56J16-D3	56TB2-H 6	MG CDU 1/2X ERROR SIG	
	AA199R	56J16-D4	56TB2-G 6	MG CDU ERROR SIG RET	
	AA200R	56J16-D4	56TB2-G 7	MG CDU ERROR SIG RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA191R	56J16-N5	56J20-L3	800 CPS 28 V 1 PCT LO OPTICS
	AA224R	56J16-N5	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
	AA233R	56J16-N5	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA192R	56J16-N6	56J20-M4	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA225R	56J16-N6	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA198R	56J16-P1	56TB2-L 6	IG CDU MDA OUTPUT
	AA223	56J16-P2	56TB2-K 4	0 VDC IMU
	AA203R	56J16-P3	56TB2-K 3	MG CDU MDA OUTPUT
	AA222W	56J16-P4	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
	AA191W	56J16-P5	56J20-K3	800 CPS 28 V 1 PCT HI OPTICS
	AA224W	56J16-P5	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
	AA233W	56J16-P5	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA192W	56J16-P6	56J20-L4	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA225W	56J16-P6	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA198W	56J16-R1	56TB2-L 5	IG CDU MDA OUTPUT
*	AA 59	56J16-R2	56J12-G5	0 VDC IMU
	AA203W	56J16-R3	56TB2-L 3	MG CDU MDA OUTPUT
	AA222K	56J16-R4	56TB2-H 5	ZEROING RSVR 800 CPS
	AA228	56J16-R5	56TB3-L20	0 VDC OPTICS
	AA229	56J16-R6	56TB3-L20	0 VDC OPTICS
	AA210	56J16-S1	56TB2-N 5	+28 VDC IMU FOR IG MDA
	AA193	56J16-S2	56J20-K2	+28 VDC IMU
*	AA186	56J16-S2	56J15-S6	+28 VDC IMU
	AA222L	56J16-S3	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	AA185R	56J16-S3	56J15-P5	800 CPS 28 V 1 PCT LO IMU
	AA222R	56J16-S4	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	AA185W	56J16-S4	56J15-P6	800 CPS 28 V 1 PCT HI IMU
	AA189	56J16-S5	56J20-N5	+28 VDC OPTICS
	AA190	56J16-S6	56J20-N6	+28 VDC OPTICS
	AA211	56J16-T1	56TB2-R 5	+28 VDC IMU FOR MG MDA
	AA212	56J16-T2	56TB2-K 8	+28 VDC IMU FOR OG MDA

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 11W	56J17-A1	56J11-C3	OG CDU ATTITUDE STEERING ERROR
*	AA571L	56J17-A2	56TB2-N 3	OG CDU 16X ERROR SIG
	AA287L	56J17-A3	56J22- 1	ROLL ERROR BODY OFFSET AXIS HI
	AA244L	56J17-A4	56J22- 3	ROLL ERROR BODY AXIS HI
	AA281W	56J17-A6	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1
	AA281R	56J17-A7	56TB3-T 5	TRUNNION CDU ENCODER COM
	AA281L	56J17-A8	56TB3-T 6	TRUNNION CDU ENCODER PHASE 2
	AA285	56J17-A9	56TB3-M 3	TRUNNION ENCODER PIN 8
*	AA 11R	56J17-B1	56J11-B3	OG CDU ERROR SIG RET
*	AA571R	56J17-B2	56TB2-R 3	OG CDU ERROR SIG RET
	AA287R	56J17-B3	56J22- 39	ROLL ERROR BODY OFFSET AXIS LO
	AA244R	56J17-B4	56J22- 4	ROLL ERROR BODY AXIS LO
	AA268	56J17-B5	56TB3-L 3	IRIG TEMP CONT SENSOR RET
	AA267	56J17-B6	56TB3-L 4	IRIG TEMP CONT SENSOR HI
	AA252	56J17-B7	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
	AA253	56J17-B8	56TB3-G 3	IRIG ZERO DEVIATION CHECK
	AA286	56J17-B9	56TB3-K 4	TRUNNION ENCODER PIN 9
	AA288R	56J17-C1	56J22- 10	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289W	56J17-C1	56TB3-M13	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289R	56J17-C2	56TB3-M14	PITCH-YAW RSVR S4
	AA246L	56J17-C3	56J22- 45	YAW ERROR BODY OFFSET AXIS HI
	AA245L	56J17-C4	56J22- 6	YAW ERROR BODY AXIS HI
	AA266	56J17-C5	56TB3-K 3	IRIG TEMP IND SENSOR RET
	AA276	56J17-C6	56TB3-H 4	IRIG TEMP IND SENSOR HI
	AA254	56J17-C7	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6
	AA290	56J17-C8	56TB3-L 1	IRIG TEMP GAIN SWITCH NC
	AA284W	56J17-C9	56TB3-S 6	SHAFT CDU ENCODER PHASE 1
	AA288L	56J17-D1	56J22- 48	PITCH ERROR BODY AND BODY OFFSET AXIS HI
	AA247R	56J17-D2	56TB3-R 4	PITCH YAW RSVR S3
	AA246R	56J17-D3	56J22- 46	YAW ERROR BODY OFFSET AXIS LO
	AA247W	56J17-D3	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
	AA245R	56J17-D4	56J22- 43	YAW ERROR BODY AXIS LO
	AA269	56J17-D5	56TB3-M 1	ACCEL TEMP IND SENSOR RET
	AA255	56J17-D6	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
	AA256	56J17-D7	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
	AA251	56J17-D8	56TB3-M 2	IMU TD RELAY C
	AA284R	56J17-D9	56TB3-S 5	SHAFT CDU ENCODER COM
	AA636	56J17-F2	56TB3-D 6	TEMPERATURE CONTROL SIG LO
	AA274	56J17-F3	56TB3-D 5	HTR CURRENT (TELEMETRY)

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA201R	56J16-D4	56TB2-G 8	MG CDU ERROR SIG RET	
	AA206W	56J16-D5	56TB2-N 1	OG CDU 1/2X ERROR SIG	
	AA206R	56J16-D6	56TB2-R 1	OG CDU ERROR SIG RET	
	AA207R	56J16-D6	56TB2-R 2	OG CDU ERROR SIG RET	
	AA208W	56J16-D6	56TB2-R 3	OG CDU ERROR SIG RET	
	AA209R	56J16-D7	56TB2-W 3	COS AOG 16X S1	
	AA213W	56J16-D8	56TB2-X 3	SIN AOG 16X S2	
	AA213R	56J16-D9	56TB2-W 2	SIN AOG 16X S4	
	AA216	56J16-F2	56TB2-W 1	IG CDU 1X RSVR LOAD	
	AA217	56J16-F4	56TB2-X 1	MG CDU 1X RSVR LOAD	
	AA219	56J16-F5	56TB2-T 1	OG CDU 16X RSVR LOAD	
	AA218	56J16-F6	56TB2-S 1	OG CDU 1X RSVR LOAD	
	AA209W	56J16-F7	56TB2-W 4	COS AOG 16X S3	
	AA209L	56J16-F8	56TB2-X 4	COS AOG 16X TO CDU	
	AA213L	56J16-F9	56TB2-X 2	SIN AOG 16X TO CDU	
	AA230W	56J16-G1	56TB2-W 6	COS AIG 16X S3	
	AA230L	56J16-G2	56TB2-W 7	COS AIG 16X TO CDU	
	AA231W	56J16-G3	56TB2-U 5	COS AMG 16X S3	
	AA231L	56J16-G4	56TB2-U 4	COS AMG 16X TO CDU	
	AA230R	56J16-H1	56TB2-X 7	COS AIG 16X S1	
	AA231R	56J16-H3	56TB2-T 5	COS AMG 16X S1	
	AA220	56J16-L1	56J22-228	FINE ALIGN RELAY CONTROL	
*	AA184	56J16-L1	56J15-H4	FINE ALIGN RELAY CONTROL	
*	AA183	56J16-L2	56J15-S1	ZERO ENCODER RELAY CONTROL	
	AA226L	56J16-L3	56J21- 35	COMPUTER 800 PPS SYNC RET	150B
	AA227L	56J16-L3	56J21- 69	COMPUTER 800 PPS SYNC RET	149B
	AA232W	56J16-L3	56E 31	COMPUTER 800 PPS SYNC RET	
	AA226R	56J16-L4	56J21- 34	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
	AA232L	56J16-L4	56J12-D1	COMPUTER 800 PPS OUT OF PHASE SYNC	
	AA221	56J16-M1	56TB2-R 4	ENTRY RELAY CONTROL	
*	AA 56	56J16-M2	56J12-H5	IG CDU FAILURE INDICATION	
*	AA 57	56J16-M3	56J12-H6	MG CDU FAILURE INDICATION	
	AA227R	56J16-M4	56J21- 68	COMPUTER 800 PPS IN PHASE SYNC	149A
	AA232R	56J16-M4	56J12-D2	COMPUTER 800 PPS IN PHASE SYNC	
	AA215W	56J16-N1	56TB2-K 6	OG CDU MDA OUTPUT	
	AA215R	56J16-N2	56TB2-K 5	OG CDU MDA OUTPUT	
*	AA 58	56J16-N3	56J12-G6	OG CDU FAILURE INDICATION	
	AA234	56J16-N4	56J17-L6	STRUCTURE GND	
*	AA187	56J16-N4	56J15-K3	STRUCTURE GND	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA273	56J17-F4	56TB3-C 5	IRIG TEMP (TELEMETRY)
	AA272	56J17-F5	56TB3-D 4	ACCEL TEMP (TELEMETRY)
	AA271	56J17-F6	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
	AA257	56J17-F7	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
	AA249	56J17-F8	56TB3-L 2	IMU TD RELAY NO
	AA284L	56J17-F9	56TB3-S 4	SHAFT CDU ENCODER PHASE 2
	AA261	56J17-G1	56TB3-K 5	IMU TEMP ALARM AMP PIN 14
	AA262	56J17-G2	56TB3-H 5	IMU TEMP ALARM AMP PIN 15
	AA242R	56J17-G4	56J18-L1	SHAFT CDU ENCODER + DELTA THETA
	AA243R	56J17-G6	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA
	AA259	56J17-H1	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
	AA260	56J17-H2	56TB3-K 1	IMU TEMP ALARM AMP PIN 5
	AA242W	56J17-H4	56E 53	SHAFT CDU DAC LO
	AA243W	56J17-H6	56E 51	TRUNNION CDU DAC LO
	AA242L	56J17-K4	56J18-K1	SHAFT CDU ENCODER - DELTA THETA
	AA243L	56J17-K6	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA
	AA263	56J17-L1	56TB3-L 5	IMU TEMP CONT K2 PIN 6
	AA293	56J17-L3	56J22-243	IMU TEMP LIGHT (MAIN PANEL)
*	AA188R	56J17-L4	56J15-R5	+120 VDC RET PIP
*	AA188W	56J17-L5	56J15-S5	+120 VDC PIP
	AA241	56J17-L6	56J18-R5	STRUCTURE GND
*	AA234	56J17-L6	56J16-N4	STRUCTURE GND
	AA264	56J17-M1	56TB3-D 1	0 VDC IMU
	AA277	56J17-M2	56TB3-G 5	IMU TEMP SENSOR COM
	AA278	56J17-M3	56TB3-F 1	0 VDC SPACECRAFT
	AA292	56J17-M3	56J22-206	0 VDC SPACECRAFT
*	AA 97	56J17-M3	56J12-F3	0 VDC SPACECRAFT
	AA265L	56J17-M4	56TB3-N 1	IMU EMERGENCY HTR HI
	AA258W	56J17-M5	56TB3-H 2	IMU TEMP CONT K1 PIN 3
	AA258R	56J17-M6	56TB3-H 1	IMU TEMP CONT AMP PIN 5
	AA270L	56J17-N1	56TB3-N 4	IMU CONTROL HTR LO
*	AA 12W	56J17-N2	56J11-P1	3200 CPS 20 V HI
*	AA 94R	56J17-N3	56J12-N6	25.6 KC LO OPTICS
	AA265R	56J17-N4	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY
	AA258L	56J17-N5	56TB3-G 2	IMU TEMP CONT K2 PIN 5
	AA258K	56J17-N6	56TB3-G 1	IMU HTR CURRENT AMP PIN 5
	AA270R	56J17-P1	56TB3-N 5	IMU CONTROL HTR HI
*	AA 12R	56J17-P2	56J11-N1	3200 CPS 20 V CT
*	AA 94W	56J17-P3	56J12-P6	25.6 KC HI OPTICS

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
AA308L	56J18-A1	56TB3-S 8	SXT AT 64X RSVR COS HI
AA309L	56J18-A2	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
AA309R	56J18-A3	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
AA313W	56J18-A4	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
AA313R	56J18-A5	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
AA317W	56J18-A6	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
AA316R	56J18-A7	56TB3-L 8	SHAFT CDU TACH LO
AA316L	56J18-A8	56TB3-L 7	SHAFT CDU TACH HI
AA315L	56J18-A9	56TB3-M 8	TRUNNION CDU TACH HI
AA308R	56J18-B1	56TB3-S 7	SXT AT 64X RSVR COS LO
AA307R	56J18-B2	56TB3-T 7	SXT AT 64X RSVR SIN HI
AA310L	56J18-B3	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
AA310R	56J18-B4	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
AA314W	56J18-B5	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
AA317R	56J18-B6	56TB3-L11	TRUNNION CDU 1/2X RSVR P3
AA300W	56J18-B8	56J19-C1	TRUNNION CDU 16X ERROR SIG HI
AA315R	56J18-B9	56TB3-M 7	TRUNNION CDU TACH LO
AA312R	56J18-C1	56TB3-R11	SXT AS 16X RSVR COS HI
AA307L	56J18-C2	56TB3-T 8	SXT AT 64X RSVR SIN LO
AA314R	56J18-C5	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
AA334W	56J18-C6	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
AA335W	56J18-C7	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI
AA300R	56J18-C8	56J19-B2	TRUNNION CDU 16X ERROR SIG LO
AA301W	56J18-C9	56J19-A4	SHAFT CDU 16X ERROR SIG HI
AA312W	56J18-D1	56TB3-R10	SXT AS 16X RSVR COS LO
AA311W	56J18-D2	56TB3-R 8	SXT AS 16X RSVR SIN HI
AA311R	56J18-D3	56TB3-R 7	SXT AS 16X RSVR SIN LO
AA338R	56J18-D4	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
AA338W	56J18-D5	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
AA334R	56J18-D6	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
AA335R	56J18-D7	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
AA326W	56J18-D8	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
AA301R	56J18-D9	56J19-B3	SHAFT CDU 16X ERROR SIG LO
AA299W	56J18-F1	56J19-D4	TRUNNION CDU 1/4X SIN HI
AA330W	56J18-F1	56TB3-G10	TRUNNION CDU 1/4X SIN HI
AA299R	56J18-F2	56J19-F4	TRUNNION CDU 1/4X SIN LO
AA330R	56J18-F2	56TB3-F10	TRUNNION CDU 1/4X SIN LO
AA318W	56J18-F3	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI
AA318R	56J18-F4	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA336W	56J18-F6	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
	AA336R	56J18-F7	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
	AA326R	56J18-F8	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
	AA326L	56J18-F9	56TB3-M11	RSVR DRIVE AMP INPUT LO	
	AA332W	56J18-G1	56TB3-K10	SHAFT CDU 1/2X SIN HI S1	
	AA345W	56J18-G2	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
	AA344W	56J18-G3	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
	AA302K	56J18-G5	56J19-H6	COSECANT AMP FEEDBACK SIG HI	
	AA302W	56J18-G6	56J19-G6	COSECANT AMP OUTPUT HI	
	AA332R	56J18-H1	56TB3-K11	SHAFT CDU 1/2X SIN LO S3	
	AA345R	56J18-H2	56TB3-F 8	SHAFT CDU DAC LO	
	AA346	56J18-H2	56E 52	SHAFT CDU DAC LO	
	AA347	56J18-H2	56E 53	SHAFT CDU DAC LO	
	AA344R	56J18-H3	56TB3-F 7	TRUNNION CDU DAC LO	
	AA348	56J18-H3	56E 50	TRUNNION CDU DAC LO	
	AA349	56J18-H3	56E 51	TRUNNION CDU DAC LO	
	AA302L	56J18-H5	56J19-H5	SHAFT CDU MDA COSECANT SIG	
	AA302R	56J18-H6	56J19-G5	COSECANT AMP FEEDBACK SIG LO	
*	AA242L	56J18-K1	56J17-K4	SHAFT CDU ENCODER - DELTA THETA	
*	AA495L	56J18-K1	56J21-123	SHAFT CDU ENCODER - DELTA THETA	111A
*	AA492L	56J18-K2	56J21-163	SHAFT CDU + DELTA THETA COMMAND	116A
*	AA496L	56J18-K3	56J21-235	TRUNNION CDU + DELTA THETA COMMAND	114A
*	AA243L	56J18-K4	56J17-K6	TRUNNION CDU ENCODER - DELTA THETA	
*	AA499L	56J18-K4	56J21-190	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA328W	56J18-K6	56TB3-T12	SHAFT CDU 1X P1 (S1)	
*	AA242R	56J18-L1	56J17-G4	SHAFT CDU ENCODER + DELTA THETA	
*	AA494L	56J18-L1	56J21-156	SHAFT CDU ENCODER + DELTA THETA	110A
*	AA493R	56J18-L2	56J21-130	SHAFT CDU - DELTA THETA COMMAND	117A
*	AA497R	56J18-L3	56J21-197	TRUNNION CDU - DELTA THETA COMMAND	115A
*	AA243R	56J18-L4	56J17-G6	TRUNNION CDU ENCODER + DELTA THETA	
*	AA498L	56J18-L4	56J21-230	TRUNNION CDU ENCODER + DELTA THETA	108A
	AA328R	56J18-L5	56TB3-S12	SHAFT CDU 1X P2 (S2)	
	AA328L	56J18-L6	56TB3-R12	SHAFT CDU 1X P3 (S3)	
	AA340W	56J18-M1	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)	
	AA350	56J18-M1	56J18-P3	0 VDC OPTICS	
	AA351	56J18-M1	56J18-M2	0 VDC OPTICS	
	AA352	56J18-M2	56J18-M3	0 VDC OPTICS	
*	AA351	56J18-M2	56J18-M1	0 VDC OPTICS	
	AA341W	56J18-M3	56TB3-C 8	TRUNNION CDU MDA LO (TEST)	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA250R	56J17-P4	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA275	56J17-P5	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI	
	AA235	56J17-P6	56TB3-F 3	CONDITION LAMP TEST	
*	AA 13	56J17-R1	56J11-S3	+28 VDC STBY	
*	AA 12L	56J17-R2	56J11-N2	3200 CPS 20 V LO	
*	AA 92L	56J17-R3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
*	AA 92R	56J17-R3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
*	AA500R	56J17-R3	56J21-103	COMPUTER 12.8 KPPS SYNC	155A
	AA250W	56J17-R4	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA280	56J17-R5	56TB3-M21	+28 VDC MDV	
	AA282	56J17-R6	56TB3-L21	0 VDC OPTICS	
	AA283	56J17-R6	56J17-S6	0 VDC OPTICS	
	AA291	56J17-S1	56J17-S2	0 VDC IMU	
	AA296	56J17-S1	56TB3-S 3	0 VDC IMU	
	AA248	56J17-S2	56TB3-T 3	0 VDC IMU	
*	AA291	56J17-S2	56J17-S1	0 VDC IMU	
	AA295	56J17-S3	56TB3-N 3	0 VDC IMU	
	AA297	56J17-S4	56TB3-R 3	0 VDC IMU	
*	AA154R	56J17-S5	56J14-R4	+32 VDC RET PIP	
*	AA283	56J17-S6	56J17-R6	0 VDC OPTICS	
	AA238	56J17-T1	56J20-P3	+28 VDC STBY	
	AA294	56J17-T1	56J17-T2	+28 VDC STBY	
	AA239	56J17-T2	56J20-P4	+28 VDC STBY	
*	AA294	56J17-T2	56J17-T1	+28 VDC STBY	
	AA237	56J17-T3	56J20-M2	+28 VDC IMU	
	AA236	56J17-T4	56J20-M1	+28 VDC IMU	
*	AA154W	56J17-T5	56J14-S4	+32 VDC PIP	
	AA240	56J17-T6	56J18-S1	+28 VDC OPTICS	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA353	56J18-M3	56J18-M4	0 VDC OPTICS
*	AA352	56J18-M3	56J18-M2	0 VDC OPTICS
	AA342W	56J18-M4	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
	AA354	56J18-M4	56J18-M5	0 VDC OPTICS
*	AA353	56J18-M4	56J18-M3	0 VDC OPTICS
	AA355	56J18-M5	56J18-M6	0 VDC OPTICS
*	AA354	56J18-M5	56J18-M4	0 VDC OPTICS
	AA343W	56J18-M6	56TB3-D10	SHAFT CDU MDA (TEST) LO
*	AA355	56J18-M6	56J18-M5	0 VDC OPTICS
	AA340R	56J18-N1	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
	AA341R	56J18-N3	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
	AA342R	56J18-N4	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
	AA343R	56J18-N6	56TB3-D 9	SHAFT CDU MDA (TEST) HI
	AA319	56J18-P1	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
	AA322	56J18-P2	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
	AA303	56J18-P3	56J19-R4	0 VDC OPTICS
*	AA350	56J18-P3	56J18-M1	0 VDC OPTICS
	AA320	56J18-R1	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
	AA321	56J18-R2	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
	AA333	56J18-R3	56TB3-K20	0 VDC OPTICS
	AA337	56J18-R4	56TB3-B11	ZERO OPTICS RELAY CONTROL
	AA616	56J18-R4	56J19-M4	ZERO OPTICS RELAY CONTROL
	AA306	56J18-R5	56J19-P3	STRUCTURE GND
*	AA241	56J18-R5	56J17-L6	STRUCTURE GND
	AA298	56J18-S1	56J19-T1	+28 VDC OPTICS
*	AA240	56J18-S1	56J17-T6	+28 VDC OPTICS
	AA323	56J18-S3	56J18-S4	0 VDC OPTICS
	AA325	56J18-S3	56TB3-K20	0 VDC OPTICS
*	AA323	56J18-S4	56J18-S3	0 VDC OPTICS
	AA305	56J18-S5	56J19-P5	0 VDC OPTICS
	AA339	56J18-S5	56J18-T5	0 VDC OPTICS
	AA304R	56J18-S6	56J19-N6	800 CPS 28 V 1 PCT LO OPTICS
*	AA233R	56J18-S6	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
	AA324	56J18-T3	56J18-T4	0 VDC OPTICS
	AA327	56J18-T3	56TB3-K20	0 VDC OPTICS
*	AA324	56J18-T4	56J18-T3	0 VDC OPTICS
	AA638	56J18-T5	56E 71	0 VDC OPTICS
*	AA339	56J18-T5	56J18-S5	0 VDC OPTICS
	AA304W	56J18-T6	56J19-P6	800 CPS 28 V 1 PCT HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA370W	56J19-A1	56TB3-T16	SXT TRUNNION TACH HI
	AA371R	56J19-A2	56TB3-S16	SXT SHAFT TACH LO
	AA371W	56J19-A3	56TB3-S17	SXT SHAFT TACH HI
*	AA301W	56J19-A4	56J18-C9	SHAFT CDU 16X ERROR SIG HI
	AA375W	56J19-A5	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
	AA378	56J19-A7	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
	AA372R	56J19-A8	56TB3-R16	SCT TRUNNION TACH LO
	AA372W	56J19-A9	56TB3-R17	SCT TRUNNION TACH HI
	AA370R	56J19-B1	56TB3-T17	SXT TRUNNION TACH LO
	AA329R	56J19-B2	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
*	AA300R	56J19-B2	56J18-C8	TRUNNION CDU 16X ERROR SIG LO
	AA331R	56J19-B3	56TB3-H11	SHAFT CDU 16X ERROR SIG LO
*	AA301R	56J19-B3	56J18-D9	SHAFT CDU 16X ERROR SIG LO
	AA331L	56J19-B4	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
	AA375R	56J19-B5	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
	AA377W	56J19-B7	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
	AA377R	56J19-B8	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
	AA373W	56J19-B9	56TB3-N16	SCT SHAFT TACH HI
*	AA300W	56J19-C1	56J18-B8	TRUNNION CDU 16X ERROR SIG HI
	AA329L	56J19-C2	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
	AA384	56J19-C3	56TB3-N18	TRUNNION CDU 16X LOAD
	AA385	56J19-C4	56TB3-M18	SHAFT CDU 16X LOAD
	AA376	56J19-C5	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
	AA380	56J19-C7	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
	AA379R	56J19-C8	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
	AA373R	56J19-C9	56TB3-N17	SCT SHAFT TACH LO
	AA374W	56J19-D1	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
	AA374R	56J19-D2	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
*	AA299W	56J19-D4	56J18-F1	TRUNNION CDU 1/4X SIN HI
	AA396W	56J19-D5	56TB3-N14	SHAFT CDU 1/2X COS HI S2
	AA396R	56J19-D6	56TB3-N13	SHAFT CDU 1/2X COS LO S4
	AA379W	56J19-D8	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
*	AA299R	56J19-F4	56J18-F2	TRUNNION CDU 1/4X SIN LO
	AA381W	56J19-F5	56TB3-F16	TRUNNION CDU 1/4X COS HI
	AA381R	56J19-F6	56TB3-G16	TRUNNION CDU 1/4X COS LO
	AA386R	56J19-F8	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	AA386W	56J19-F9	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
	AA382R	56J19-G1	56TB3-T13	SCT TRUNNION 1X COS LO
	AA383R	56J19-G2	56TB3-S14	SCT TRUNNION 1X SIN HI

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA383W	56J19-G3	56TB3-S13	SCT TRUNNION 1X SIN LO
*	AA302R	56J19-G5	56J18-H6	COSECANT AMP FEEDBACK SIG LO
*	AA302W	56J19-G6	56J18-G6	COSECANT AMP OUTPUT HI
	AA382W	56J19-H1	56TB3-T14	SCT TRUNNION 1X COS HI
*	AA302L	56J19-H5	56J18-H5	SHAFT CDU MDA COSECANT SIG
*	AA302K	56J19-H6	56J18-G5	COSECANT AMP FEEDBACK SIG HI
	AA391W	56J19-K1	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
	AA397	56J19-K1	56J19-R4	0 VDC OPTICS
	AA398	56J19-K1	56J19-K2	0 VDC OPTICS
	AA399	56J19-K2	56J19-K3	0 VDC OPTICS
*	AA398	56J19-K2	56J19-K1	0 VDC OPTICS
	AA392W	56J19-K3	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
	AA400	56J19-K3	56J19-K4	0 VDC OPTICS
*	AA399	56J19-K3	56J19-K2	0 VDC OPTICS
	AA401	56J19-K4	56J19-K5	0 VDC OPTICS
*	AA400	56J19-K4	56J19-K3	0 VDC OPTICS
	AA402	56J19-K5	56J19-K6	0 VDC OPTICS
*	AA401	56J19-K5	56J19-K4	0 VDC OPTICS
*	AA402	56J19-K6	56J19-K5	0 VDC OPTICS
	AA391R	56J19-L1	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
	AA392R	56J19-L3	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
*	AA616	56J19-M4	56J18-R4	ZERO OPTICS RELAY CONTROL
	AA388	56J19-M5	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA387	56J19-M6	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA389	56J19-N5	56TB3-L18	COSECANT RELAY CONTROL
*	AA304R	56J19-N6	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA359R	56J19-P1	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING
	AA361R	56J19-P2	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
	AA356	56J19-P3	56J20-G4	STRUCTURE GND
*	AA306	56J19-P3	56J18-R5	STRUCTURE GND
	AA394	56J19-P4	56J19-P5	0 VDC OPTICS
	AA393	56J19-P5	56TB3-K21	0 VDC OPTICS
*	AA305	56J19-P5	56J18-S5	0 VDC OPTICS
*	AA394	56J19-P5	56J19-P4	0 VDC OPTICS
*	AA304W	56J19-P6	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA359W	56J19-R1	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING
	A 61W	56J19-R2	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
	A 90	56J19-R4	56TB3-K21	0 VDC OPTICS
*	AA303	56J19-R4	56J18-P3	0 VDC OPTICS

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA233W	56J18-T6	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA397	56J19-R4	56J19-K1	0 VDC OPTICS
	AA362	56J19-R5	56J19-S4	0 VDC OPTICS
	AA363	56J19-R6	56J19-T4	0 VDC OPTICS
	AA358R	56J19-S2	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING
	AA358W	56J19-S3	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING
	AA364	56J19-S4	56TB3-K22	0 VDC OPTICS
*	AA362	56J19-S4	56J19-R5	0 VDC OPTICS
	AA366	56J19-S5	56J19-S6	0 VDC OPTICS
	AA369	56J19-S5	56TB3-K22	0 VDC OPTICS
*	AA366	56J19-S6	56J19-S5	0 VDC OPTICS
	AA357	56J19-T1	56J20-M6	+28 VDC OPTICS
*	AA298	56J19-T1	56J18-S1	+28 VDC OPTICS
	AA360R	56J19-T2	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
	AA360W	56J19-T3	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
	AA365	56J19-T4	56TB3-L22	0 VDC OPTICS
*	AA363	56J19-T4	56J19-R6	0 VDC OPTICS
	AA368	56J19-T5	56J19-T6	0 VDC OPTICS
	AA367	56J19-T6	56TB3-L22	0 VDC OPTICS
*	AA368	56J19-T6	56J19-T5	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA413	56J20-H6	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
	AA454	56J20-K1	56TB3-T20	+28 VDC IMU
	AA455	56J20-K1	56TB3-T21	+28 VDC IMU
*	AA179	56J20-K1	56J15-S2	+28 VDC IMU
	AA456	56J20-K2	56TB3-S21	+28 VDC IMU
*	AA 4	56J20-K2	56J11-S5	+28 VDC IMU
*	AA193	56J20-K2	56J16-S2	+28 VDC IMU
*	AA191W	56J20-K3	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS
	AA424	56J20-K4	56TB3-N19	0 VDC AGC
	AA420	56J20-K5	56TB3-G21	+28 VDC AGC BUSS A
	AA421	56J20-K6	56TB3-G22	+28 VDC AGC BUSS B
	AA438	56J20-L1	56J20-M1	+28 VDC IMU
	AA439	56J20-L1	56J20-L2	+28 VDC IMU
*	AA 2	56J20-L1	56J11-S1	+28 VDC IMU
	AA440	56J20-L2	56J20-M2	+28 VDC IMU
*	AA 3	56J20-L2	56J11-S2	+28 VDC IMU
*	AA439	56J20-L2	56J20-L1	+28 VDC IMU
*	AA191R	56J20-L3	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
*	AA192W	56J20-L4	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA403	56J20-L5	56J21- 37	+28 VDC MDV 157B
	AA404	56J20-L5	56TB3-M22	+28 VDC MDV
*	AA 53	56J20-L6	56J12-G4	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP
*	AA 54	56J20-M1	56J12-S1	+28 VDC IMU
*	AA236	56J20-M1	56J17-T4	+28 VDC IMU
*	AA438	56J20-M1	56J20-L1	+28 VDC IMU
*	AA 55	56J20-M2	56J12-S2	+28 VDC IMU
*	AA237	56J20-M2	56J17-T3	+28 VDC IMU
*	AA440	56J20-M2	56J20-L2	+28 VDC IMU
*	AA192R	56J20-M4	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA405	56J20-M5	56TB3-M21	+28 VDC MDV
	AA457	56J20-M6	56TB3-M20	+28 VDC OPTICS
*	AA357	56J20-M6	56J19-T1	+28 VDC OPTICS
	AA428	56J20-N1	56TB3-C20	+28 VDC IMU BUSS A
	AA429	56J20-N1	56J20-P1	+28 VDC IMU BUSS A
	AA433	56J20-N2	56TB3-D20	+28 VDC IMU BUSS B
	AA434	56J20-N2	56J20-P2	+28 VDC IMU BUSS B
	AA408	56J20-N3	56TB3-K22	0 VDC OPTICS
	AA407	56J20-N4	56TB3-L21	0 VDC OPTICS
*	AA 51	56J20-N5	56J12-S6	+28 VDC OPTICS

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA189	56J20-N5	56J16-S5	+28 VDC OPTICS
	AA406	56J20-N6	56TB3-H20	+28 VDC OPTICS
*	AA190	56J20-N6	56J16-S6	+28 VDC OPTICS
	AA623	56J20-P1	56TB3-C21	+28 VDC IMU BUSS A
*	AA429	56J20-P1	56J20-N1	+28 VDC IMU BUSS A
	AA625	56J20-P2	56TB3-D21	+28 VDC IMU BUSS B
*	AA434	56J20-P2	56J20-N2	+28 VDC IMU BUSS B
	AA445	56J20-P3	56TB3-N22	+28 VDC STBY
*	AA238	56J20-P3	56J17-T1	+28 VDC STBY
*	AA239	56J20-P4	56J17-T2	+28 VDC STBY
	AA446	56J20-P5	56TB3-H21	+28 VDC OPTICS BUSS A
	AA447	56J20-P5	56J20-R5	+28 VDC OPTICS BUSS A
	AA450	56J20-P6	56TB3-H22	+28 VDC OPTICS BUSS B
	AA451	56J20-P6	56J20-R6	+28 VDC OPTICS BUSS B
	AA431	56J20-R1	56J20-S1	+28 VDC IMU BUSS A
	AA622	56J20-R1	56TB3-C20	+28 VDC IMU BUSS A
	AA436	56J20-R2	56J20-S2	+28 VDC IMU BUSS B
	AA624	56J20-R2	56TB3-D20	+28 VDC IMU BUSS B
	AA441	56J20-R3	56TB3-D22	+28 VDC STBY BUSS A
	AA442	56J20-R3	56J20-S3	+28 VDC STBY BUSS A
	AA443	56J20-R4	56TB3-C22	+28 VDC STBY BUSS B
	AA444	56J20-R4	56J20-S4	+28 VDC STBY BUSS B
	AA448	56J20-R5	56J20-S5	+28 VDC OPTICS BUSS A
	AA628	56J20-R5	56TB3-H21	+28 VDC OPTICS BUSS A
*	AA447	56J20-R5	56J20-P5	+28 VDC OPTICS BUSS A
	AA452	56J20-R6	56J20-S6	+28 VDC OPTICS BUSS B
	AA629	56J20-R6	56TB3-H22	+28 VDC OPTICS BUSS B
*	AA451	56J20-R6	56J20-P6	+28 VDC OPTICS BUSS B
	AA432	56J20-S1	56TB3-C21	+28 VDC IMU BUSS A
*	AA431	56J20-S1	56J20-R1	+28 VDC IMU BUSS A
	AA437	56J20-S2	56TB3-D21	+28 VDC IMU BUSS B
*	AA436	56J20-S2	56J20-R2	+28 VDC IMU BUSS B
	AA626	56J20-S3	56TB3-D22	+28 VDC STBY BUSS A
*	AA442	56J20-S3	56J20-R3	+28 VDC STBY BUSS A
	AA627	56J20-S4	56TB3-C22	+28 VDC STBY BUSS B
*	AA444	56J20-S4	56J20-R4	+28 VDC STBY BUSS B
	AA449	56J20-S5	56TB3-H21	+28 VDC OPTICS BUSS A
*	AA448	56J20-S5	56J20-R5	+28 VDC OPTICS BUSS A
	AA453	56J20-S6	56TB3-H22	+28 VDC OPTICS BUSS B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA416	56J20-A1	56TB3-G19	AGC TEMP MONITOR NO 1
	AA417	56J20-A2	56TB3-F19	AGC TEMP MONITOR NO 2
	AA419W	56J20-A3	56TB3-N20	COS AMG 1X S3
	AA414	56J20-A4	56TB3-K19	IMU PRESSURE MONITOR HI
	AA464R	56J20-A6	56TB3-L13	PRESSURE SENSOR +28 VDC HI
	AA418	56J20-B1	56TB3-D19	AGC TEMP MONITOR NO 3
	AA419R	56J20-B3	56TB3-N21	COS AMG 1X S1
	AA415	56J20-B4	56TB3-H19	IMU PRESSURE MONITOR LO
	AA427R	56J20-B5	56TB3-T19	+20 VDC CONDITIONING
	AA464W	56J20-B6	56TB3-K13	PRESSURE SENSOR +28 VDC LO
	AA427W	56J20-C5	56TB3-S19	0 VDC CONDITIONING
	AA425	56J20-C6	56TB3-L19	+13 VDC AGC
	AA463R	56J20-D4	56TB3-S20	+2.5 VDC CONDITIONING LO
	AA463W	56J20-D5	56TB3-R19	+2.5 VDC CONDITIONING HI
	AA426	56J20-D6	56TB3-M19	+3 VDC AGC
	AA409W	56J20-F5	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
	AA410W	56J20-F5	56TB3-B18	800 CPS 28 V 1 PCT HI IMU
	AA409R	56J20-F6	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
	AA410R	56J20-F6	56TB3-B19	800 CPS 28 V 1 PCT LO IMU
	AA458	56J20-G1	56J20-H1	0 VDC IMU
	AA460	56J20-G1	56TB2-M 7	0 VDC IMU
	AA465W	56J20-G3	56TB3-K14	400 CPS 115 V LO
	AA462	56J20-G4	56TB3-F22	STRUCTURE GND
*	AA356	56J20-G4	56J19-P3	STRUCTURE GND
	AA411	56J20-G5	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA 52W	56J20-G5	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA413	56J20-G6	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	AA 52R	56J20-G6	56J12-K4	800 CPS 28 V 5 PCT L-90 DEG LO IMU
	AA459	56J20-H1	56J20-H2	0 VDC IMU
*	AA458	56J20-H1	56J20-G1	0 VDC IMU
	AA461	56J20-H2	56TB2-M 1	0 VDC IMU
*	AA459	56J20-H2	56J20-H1	0 VDC IMU
	AA465R	56J20-H3	56TB3-L14	400 CPS 115 V HI
	AA422	56J20-H4	56TB3-R20	+28 VDC AGC
	AA423	56J20-H4	56J21-234	+28 VDC AGC 166
*	AA178	56J20-H4	56J15-H5	+28 VDC AGC
	AA412W	56J20-H5	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA411	56J20-H5	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA412R	56J20-H6	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA452	56J20-S6	56J20-R6	+28 VDC OPTICS BUSS B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 504R	56J21- 43	56J10- 16	OUT 0 13	226A
*	A 504W	56J21- 44	56E 23		226B
*	A 488R	56J21- 45	56J10- 33	ALARM 5	233A
*	A 488W	56J21- 46	56E 23		233B
*	A 470R	56J21- 47	56J10- 42	TIMING (1.5 CPS)	244A
*	A 470W	56J21- 48	56E 24		244B
	AA562	56J21- 53	56E 57	AGC SIG 178 SHLD RET	178
*	A 437W	56J21- 54	56J09- 25	OPTICS ZERO ENCODER	104A
*	A 437R	56J21- 55	56E 58		104B
	AA479L	56J21- 56	56J15-B8	OG ENCODER + DELTA THETA	118A
	AA479R	56J21- 57	56E 42	OG DAC MDA SIG LO	118B
	AA480R	56J21- 58	56J15-C8	OG ENCODER - DELTA THETA	119A
	AA480L	56J21- 59	56E 42	OG DAC MDA SIG LO	119B
*	AA641L	56J21- 60	56J12-D4	ACCEL FAIL	138A
*	AA641R	56J21- 61	56J12-F4	ACCEL FAIL RET	138B
*	AA521	56J21- 62	56TB3-L19	+13 VDC AGC	176
*	AA522	56J21- 63	56TB3-N19	0 VDC AGC	177
	AA485L	56J21- 64	56J15-B9	OG CDU + DELTA THETA COMMAND	126A
	AA485R	56J21- 65	56E 43	OG DAC MDA SIG LO	126B
*	AA129W	56J21- 66	56E 33	0 VDC IMU	142A
*	AA129R	56J21- 67	56J14-D1	+ DX GYRO RATE	142B
*	AA227R	56J21- 68	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	149A
*	AA227L	56J21- 69	56J16-L3	COMPUTER 800 PPS SYNC RET	149B
*	AA 70L	56J21- 70	56J12-K1	COMPUTER 102.4 KPPS SYNC	156A
*	AA 70R	56J21- 71	56J12-H1	COMPUTER 102.4 KPPS SYNC RET	156B
*	A 635	56J21- 73	56P11-A	+28 VDC AGC BUSS A	167
*	A 640	56J21- 74	56P11-J	0 VDC AGC	169
*	A 473	56J21- 75	56J10- 71	SPARE	212
*	A 498R	56J21- 76	56J10- 29	OUT 0 5	218A
*	A 498W	56J21- 77	56E 22		218B
*	A 506R	56J21- 78	56J10- 15	OUT 0 12	225A
*	A 506W	56J21- 79	56E 23		225B
*	A 482R	56J21- 80	56J10- 32	ALARM 4	232A
*	A 482W	56J21- 81	56E 23		232B
*	A 471R	56J21- 82	56J10- 20	POWER SYNC	242A
*	A 471W	56J21- 83	56E 24		242B
*	A 467R	56J21- 84	56J10- 38	KEY CODE 5	205A
*	A 467W	56J21- 85	56E 25		205B
*	A 433W	56J21- 86	56J09- 30	MARK	102A

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 433R	56J21- 87	56E 58		102B
*	A 434W	56J21- 88	56J09- 31	NOT MARK	103A
*	A 434R	56J21- 89	56E 58		103B
	AA468R	56J21- 92	56E 35	COMPUTER RET	133A
	AA468L	56J21- 93	56J15-M6	- DELTA V X	133B
	AA471R	56J21- 94	56E 37	COMPUTER RET	137A
	AA471L	56J21- 95	56J15-K4	- DELTA V Z	137B
*	AA525	56J21- 96	56TB3-M19	+3 VDC AGC	175
	AA484R	56J21- 97	56J15-C7	MG CDU - DELTA THETA COMMAND	131A
	AA484L	56J21- 98	56E 41	MG DAC MDA SIG LO	131B
	AA502W	56J21- 99	56J13-N6	PIPA SWITCHING PULSE	140A
	AA502R	56J21-100	56E 34	0 VDC IMU	140B
*	AA157R	56J21-101	56J15-R2	0 VDC IMU	148A
*	AA157W	56J21-102	56J15-P1	GYRO RESET PULSE	148B
	AA500R	56J21-103	56J17-R3	COMPUTER 12.8 KPPS SYNC	155A
	AA500L	56J21-104	56E 27	0 VDC IMU	155B
	A 571	56J21-107	56E 63	GROUP 2 SHIELD	245
*	A 477	56J21-108	56J10- 57	+13 V B	241
*	A 497R	56J21-109	56J10- 28	OUT 0 4	217A
*	A 497W	56J21-110	56E 22		217B
*	A 503R	56J21-111	56J10- 14	OUT 0 11	224A
*	A 503W	56J21-112	56E 23		224B
*	A 487R	56J21-113	56J10- 19	ALARM 3	231A
*	A 487W	56J21-114	56E 23		231B
*	A 493R	56J21-115	56J10- 64	ALARM 10	238A
*	A 493W	56J21-116	56E 24		238B
*	A 511R	56J21-117	56J10- 37	KEY CODE 4	204A
*	A 511W	56J21-118	56E 25		204B
	A 440W	56J21-119	56E 56	AGC COMMON	101A
	A 440R	56J21-120	56E 58		101B
	AA487L	56J21-121	56TB2-D 2	AGC COM	165A
	AA487R	56J21-122	56TB2-F 3		165B
	AA495L	56J21-123	56J18-K1	SHAFT CDU ENCODER - DELTA THETA	111A
	AA495R	56J21-124	56E 53	SHAFT CDU DAC LO	111B
	AA467R	56J21-125	56E 35	COMPUTER RET	132A
	AA467L	56J21-126	56J15-M5	+ DELTA V X	132B
	AA472R	56J21-127	56E 37	COMPUTER RET	136A
	AA472L	56J21-128	56J15-K5	+ DELTA V Z	136B
*	AA526	56J21-129	56TB3-D19	AGC TEMP MONITOR NO 3	173

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 634	56J21- 1	56P11-A	+28 VDC AGC BUSS A	167
*	A 639	56J21- 2	56P11-J	0 VDC AGC	169
*	A 476	56J21- 3	56J10- 70	SPARE	211
*	A 505R	56J21- 4	56J10- 31	OUT 0 7	220A
*	A 505W	56J21- 5	56E 22		220B
*	A 483R	56J21- 6	56J10- 17	OUT 0 14	227A
*	A 483W	56J21- 7	56E 23		227B
*	A 489R	56J21- 8	56J10- 44	ALARM 6	234A
*	A 489W	56J21- 9	56E 24		234B
*	A 522	56J21- 10	56J10- 45	SPARE	248
*	A 523	56J21- 11	56J10- 46	SPARE	249
*	A 468W	56J21- 12	56J10- 49	KEY RESET NAV	209A
*	A 468R	56J21- 13	56E 25		209B
*	A 510R	56J21- 14	56J10- 39	TEST ALARM	207A
*	A 510W	56J21- 15	56E 25		207B
*	A 407W	56J21- 16	56J09- 70	SXT PWR ON INDICATION TO AGC	105A
*	A 407R	56J21- 17	56E 58		105B
*	A 449R	56J21- 18	56J09- 37	OPTICS MODE SW COMPUTER INDICATION	106A
*	A 449W	56J21- 19	56E 58		106B
	AA642	56J21- 22	56E 70	AGC SIG 179 SHLD RET	179
	AA473	56J21- 23	56E 45	AGC SIG 180 SHLD RET	180
	AA475L	56J21- 24	56J15-B4	IG ENCODER + DELTA THETA	120A
	AA475R	56J21- 25	56E 38	IG DAC MDA SIG LO	120B
	AA476R	56J21- 26	56J15-C4	IG ENCODER - DELTA THETA	121A
	AA476L	56J21- 27	56E 38	IG DAC MDA SIG LO	121B
*	AA639L	56J21- 28	56J12-D6	IMU FAIL	141A
*	AA639R	56J21- 29	56J12-F6	IMU FAIL RET	141B
	AA486R	56J21- 30	56J15-C9	OG CDU - DELTA THETA COMMAND	127A
	AA486L	56J21- 31	56E 43	OG DAC MDA SIG LO	127B
*	AA130R	56J21- 32	56E 33	0 VDC IMU	143A
*	AA130W	56J21- 33	56J14-D2	- DX GYRO RATE	143B
*	AA226R	56J21- 34	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
*	AA226L	56J21- 35	56J16-L3	COMPUTER 800 PPS SYNC RET	150B
*	AA 81	56J21- 36	56J12-M1	AGC POWER SUPPLY FAIL SIG HI	157A
*	AA403	56J21- 37	56J20-L5	+28 VDC MDV	157B
*	A 509	56J21- 39	56J10- 58	GND	239
*	A 481	56J21- 40	56J10- 59	+28 VDC AGC	243
*	A 499R	56J21- 41	56J10- 30	OUT 0 6	219A
*	A 499W	56J21- 42	56E 22		219B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA493R	56J21-130	56J18-L2	SHAFT CDU - DELTA THETA COMMAND	117A
	AA493L	56J21-131	56E 52	SHAFT CDU DAC LO	117B
	AA501W	56J21-132	56J13-N5	PIPA INTERROGATE PULSE	139A
	AA501R	56J21-133	56E 34	0 VDC IMU	139B
*	AA135W	56J21-134	56E 33	0 VDC IMU	147A
*	AA135R	56J21-135	56J14-D6	- DZ GYRO RATE	147B
	AA491R	56J21-136	56J12-G2	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA491L	56J21-137	56E 29	COMPUTER 25.6 KPPS SYNC RET	154B
*	A 637	56J21-139	56P12-A	+28 VDC AGC BUSS B	168
*	A 641	56J21-140	56P12-J	0 VDC AGC	170
*	A 469	56J21-141	56J10- 72	SPARE	213
*	A 496R	56J21-142	56J10- 60	OUT 0 3	216A
*	A 496W	56J21-143	56E 22		216B
*	A 502R	56J21-144	56J10- 63	OUT 0 10	223A
*	A 502W	56J21-145	56E 22		223B
*	A 486R	56J21-146	56J10- 41	ALARM 2	230A
*	A 486W	56J21-147	56E 23		230B
*	A 492R	56J21-148	56J10- 51	ALARM 9	237A
*	A 492W	56J21-149	56E 24		237B
*	A 472R	56J21-150	56J10- 36	KEY CODE 3	203A
*	A 472W	56J21-151	56E 25		203B
	AA489L	56J21-152	56J16-A7	ZERO ENCODER MODE INDICATION TO AGC	158A
	AA489R	56J21-153	56E 60		158B
*	A 14W	56J21-154	56P01- 59	COARSE ALIGN MODE INDICATION TO AGC	159A
*	A 14R	56J21-155	56E 61		159B
	AA494L	56J21-156	56J18-L1	SHAFT CDU ENCODER + DELTA THETA	110A
	AA494R	56J21-157	56E 53	SHAFT CDU DAC LO	110B
*	AA640L	56J21-158	56J12-D5	CDU FAIL	124A
*	AA640R	56J21-159	56J12-F5	CDU FAIL RET	124B
	AA470R	56J21-160	56E 36	COMPUTER RET	135A
	AA470L	56J21-161	56J15-K6	- DELTA V Y	135B
*	AA529	56J21-162	56TB3-F19	AGC TEMP MONITOR NO 2	172
	AA492L	56J21-163	56J18-K2	SHAFT CDU + DELTA THETA COMMAND	116A
	AA492R	56J21-164	56E 52	SHAFT CDU DAC LO	116B
	AA483L	56J21-165	56J15-B7	MG CDU + DELTA THETA COMMAND	130A
	AA483R	56J21-166	56E 41	MG DAC MDA SIG LO	130B
*	AA134R	56J21-167	56E 33	0 VDC IMU	146A
*	AA134W	56J21-168	56J14-D5	+ DZ GYRO RATE	146B
	AA490L	56J21-169	56J12-G1	COMPUTER 25.6 KPPS IN PHASE SYNC	153A

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 500W	56J21-213	56E 22		221B
*	A 484R	56J21-214	56J10- 18	OUT 0 15	228A
*	A 484W	56J21-215	56E 23		228B
*	A 490R	56J21-216	56J10- 43	ALARM 7	235A
*	A 490W	56J21-217	56E 24		235B
*	A 516R	56J21-218	56J10- 34	KEY CODE 1	201A
*	A 516W	56J21-219	56E 25		201B
*	A 517R	56J21-220	56J10- 48	ERROR RESET	208A
*	A 517W	56J21-221	56E 25		208B
*	A 15W	56J21-222	56P01- 49	FINE ALIGN MODE INDICATION TO AGC	161A
*	A 15R	56J21-223	56E 61		161B
*	A 27W	56J21-224	56P01- 76	ATTIT CONT MODE INDICATION TO AGC	162A
*	A 27R	56J21-225	56E 61		162B
*	A 16W	56J21-226	56P01- 39	ENTRY MODE INDICATION TO AGC	163A
*	A 16R	56J21-227	56E 61		163B
*	A 156W	56J21-228	56J06- 69	TRANSFER SWITCH INDICATION TO AGC	164A
*	A 156R	56J21-229	56E 55		164B
	AA498L	56J21-230	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA	108A
	AA498R	56J21-231	56E 51	TRUNNION CDU DAC LO	108B
	AA477L	56J21-232	56J15-B6	MG ENCODER + DELTA THETA	122A
	AA477R	56J21-233	56E 40	MG DAC MDA SIG LO	122B
*	AA423	56J21-234	56J20-H4	+28 VDC AGC	166
	AA496L	56J21-235	56J18-K3	TRUNNION CDU + DELTA THETA COMMAND	114A
	AA496R	56J21-236	56E 50	TRUNNION CDU DAC LO	114B
	AA481L	56J21-237	56J15-B5	IG CDU + DELTA THETA COMMAND	128A
	AA481R	56J21-238	56E 39	IG DAC MDA SIG LO	128B
*	AA131W	56J21-239	56E 33	0 VDC IMU	144A
*	AA131R	56J21-240	56J14-D3	+ DY GYRO RATE	144B
	AA504R	56J21-241	56J11-M6	COMPUTER 3200 PPS IN PHASE SYNC	151A
	AA504L	56J21-242	56E 28	COMPUTER 3200 PPS SYNC RET	151B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA287L	56J22- 1	56J17-A3	ROLL ERROR BODY OFFSET AXIS HI
	AA287B	56J22- 2	SHLD AA287	
*	AA244L	56J22- 3	56J17-A4	ROLL ERROR BODY AXIS HI
*	AA244R	56J22- 4	56J17-B4	ROLL ERROR BODY AXIS LO
	AA245B	56J22- 5	SHLD AA245	
*	AA245L	56J22- 6	56J17-C4	YAW ERROR BODY AXIS HI
	AA246B	56J22- 8	SHLD AA246	
*	AA288R	56J22- 10	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA288B	56J22- 11	SHLD AA288	
*	A 197	56J22- 37	56J08- 54	MASTER ALARM LIGHT LO
*	A 196	56J22- 38	56J08- 53	MASTER ALARM LIGHT HI
*	AA287R	56J22- 39	56J17-B3	ROLL ERROR BODY OFFSET AXIS LO
	AA244B	56J22- 41	SHLD AA244	
*	AA245R	56J22- 43	56J17-D4	YAW ERROR BODY AXIS LO
*	AA246L	56J22- 45	56J17-C3	YAW ERROR BODY OFFSET AXIS HI
*	AA246R	56J22- 46	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	AA288L	56J22- 48	56J17-D1	PITCH ERROR BODY AND BODY OFFSET AXIS HI
*	A 207	56J22- 71	56J08- 32	MASTER WARNING LIGHT LO
*	A 206	56J22- 72	56J08- 43	MASTER WARNING LIGHT HI
	AA505R	56J22-107	56TB2-U 7	SIN AOG 1X S2
	AA507R	56J22-111	56TB3-C14	SIN AMG 1X
	AA508L	56J22-113	56TB3-N20	COS AMG 1X S3
	AA508R	56J22-114	56TB3-N21	COS AMG 1X S1
	AA509L	56J22-116	56TB3-D13	SIN AIG 1X RET
*	AA517R	56J22-120	56TB3-B19	800 CPS 28 V 1 PCT LO IMU
	AA505L	56J22-139	56TB2-U 8	SIN AOG 1X S4
	AA506L	56J22-141	56TB2-N 8	COS AOG 1X S3
	AA506R	56J22-142	56TB2-N 7	COS AOG 1X S1
	AA507L	56J22-144	56TB3-C13	SIN AMG 1X RET
	AA509R	56J22-148	56TB3-D14	SIN AIG 1X
	AA510L	56J22-150	56TB3-F13	COS AIG 1X RET
	AA510R	56J22-151	56TB3-F14	COS AIG 1X
*	AA517W	56J22-153	56TB3-B18	800 CPS 28 V 1 PCT HI IMU
*	A 461	56J22-171	56P10- 8	MAIN PANEL GIMBAL LOCK LIGHT
*	AA518	56J22-190	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
*	A 389L	56J22-192	56J09- 17	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT
*	A 389W	56J22-193	56J09- 3	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 387R	56J22-195	56J09- 18	PITCH ATTIT IMPULSE CONTR INPUT
*	A 388L	56J22-197	56J09- 6	YAW ATTIT IMPULSE CONTR OUTPUT LEFT

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA490R	56J21-170	56E 29	COMPUTER 25.6 KPPS SYNC RET	153B
*	A 512	56J21-173	56J10- 56	GND	239
*	A 513	56J21-174	56J10- 55	+3 V B	240
*	A 495R	56J21-175	56J10- 74	OUT 0 2	215A
*	A 495W	56J21-176	56E 22		215B
*	A 501R	56J21-177	56J10- 62	OUT 0 9	222A
*	A 501W	56J21-178	56E 22		222B
*	A 485R	56J21-179	56J10- 40	ALARM 1	229A
*	A 485W	56J21-180	56E 23		229B
*	A 491R	56J21-181	56J10- 53	ALARM 8	236A
*	A 491W	56J21-182	56E 24		236B
*	A 514R	56J21-183	56J10- 35	KEY CODE 2	202A
*	A 514W	56J21-184	56E 25		202B
*	A 515R	56J21-185	56J10- 47	OR OF C1 THRU C33	210A
*	A 515W	56J21-186	56E 25		210B
	A 568	56J21-187	56E 64	GROUP 3 SHIELD	250
	AA488L	56J21-188	56J15-A3	MANUAL CDU MODE INDICATION TO AGC	160A
	AA488R	56J21-189	56E 59		160B
	AA499L	56J21-190	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA499R	56J21-191	56E 51	TRUNNION CDU DAC LO	109B
	AA478R	56J21-192	56J15-C6	MG ENCODER - DELTA THETA	123A
	AA478L	56J21-193	56E 40	MG DAC MDA SIG LO	123B
	AA469R	56J21-194	56E 36	COMPUTER RET	134A
	AA469L	56J21-195	56J15-L6	+ DELTA V Y	134B
*	AA530	56J21-196	56TB3-G19	AGC TEMP MONITOR NO 1	171
	AA497R	56J21-197	56J18-L3	TRUNNION CDU - DELTA THETA COMMAND	115A
	AA497L	56J21-198	56E 50	TRUNNION CDU DAC LO	115B
	AA482R	56J21-199	56J15-C5	IG CDU - DELTA THETA COMMAND	129A
	AA482L	56J21-200	56E 39	IG DAC MDA SIG LO	129B
*	AA132W	56J21-201	56E 33	0 VDC IMU	145A
*	AA132R	56J21-202	56J14-D4	- DY GYRO RATE	145B
	AA503R	56J21-203	56J11-L6	COMPUTER 3200 PPS OUT OF PHASE SYNC	152A
	AA503L	56J21-204	56E 28	COMPUTER 3200 PPS SYNC RET	152B
*	A 638	56J21-207	56P12-A	+28 VDC AGC BUSS B	168
*	A 642	56J21-208	56P12-J	0 VDC AGC	170
*	A 520	56J21-209	56J10- 75	SPARE	247
*	A 494R	56J21-210	56J10- 73	OUT 0 1	214A
*	A 494W	56J21-211	56E 22		214B
*	A 500R	56J21-212	56J10- 61	OUT 0 8	221A

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 388W	56J22-198	56J09- 20	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 393W	56J22-200	56J09- 40	0 VDC FROM NAA
*	AA292	56J22-206	56J17-M3	0 VDC SPACECRAFT
*	AA175	56J22-227	56J15-S3	LOCK CDU RELAY CONTROL
*	AA220	56J22-228	56J16-L1	FINE ALIGN RELAY CONTROL
*	A 389R	56J22-230	56J09- 16	ROLL ATTIT IMPULSE CONTR INPUT
*	A 387L	56J22-232	56J09- 5	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN
*	A 387W	56J22-233	56J09- 4	PITCH ATTIT IMPULSE CONTR OUTPUT UP
*	A 388R	56J22-235	56J09- 7	YAW ATTIT IMPULSE CONTR INPUT
*	A 393R	56J22-237	56J09- 41	+28 VDC FROM NAA
*	A 393L	56J22-238	56J09- 50	ATTITUDE DISABLE SIG TO NAA
*	AA293	56J22-243	56J17-L3	IMU TEMP LIGHT (MAIN PANEL)
*	AA 74	56J22-244	56J12-G3	ERROR DETECT LIGHT MAIN PANEL

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INCHES
0 1 2
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 11	56P01- 69	56TB2-B 1	LOCK CDU RELAY CONTROL
	A 24R	56P01- 70	56TB2-H 2	IG CDU 1X ERROR SIG
	A 24W	56P01- 71	56TB2-G 2	IG CDU ERROR SIG RET
	A 27W	56P01- 76	56J21-224	ATTIT CONT MODE INDICATION TO AGC 162A
	A 20	56P01- 78	56TB2-M 4	0 VDC IMU
*	A 176	56P01- 79	56J06- 79	ENTRY MODE LIGHT
	A 1R	56P01- 80	56TB2-A 2	PANEL BRIGHTNESS CONTROL
	A 25R	56P01- 82	56TB2-H 7	MG CDU 1X ERROR SIG
	A 25W	56P01- 83	56TB2-G 7	MG CDU ERROR SIG RET
	A 33	56P01- 84	56TB3-B20	STRUCTURE GND
	A 28	56P01- 88	56TB3-F 3	CONDITION LAMP TEST
	A 29	56P01- 89	56TB3-M21	+28 VDC MDV
	A 602K	56P01- 90	56TB1-M 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
	A 18	56P01- 91	56TB1-K 1	MODE LAMP TEST PWR
*	A 172	56P01- 92	56J06- 92	COARSE ALIGN MODE LIGHT
*	A 168	56P01- 93	56J06- 93	MODE RELAY COMMON
*	A 174	56P01- 94	56J06- 94	FINE ALIGN MODE LIGHT
	A 1W	56P01- 95	56TB2-A 1	PANEL BRIGHTNESS CONTROL
	A 23R	56P01- 96	56TB2-N 2	OG CDU 1X ERROR SIG
	A 23W	56P01- 97	56TB2-R 2	OG CDU ERROR SIG RET
	A 602R	56P01-103	56TB1-R 1	400 CPS VAR ILLUM PWR
*	A 171	56P01-104	56J06-104	ZERO ENCODER MODE LIGHT
*	A 173	56P01-105	56J06-105	CDU MANUAL MODE LIGHT
	A 602L	56P01-106	56TB1-N 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
	A 602W	56P01-108	56TB1-T 1	400 CPS VAR ILLUM PWR

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 216R	56P02-A	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
A 227R	56P02-A*	56TB3-F14	COS AIG 1X S3
A 216W	56P02-B	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
A 227W	56P02-B*	56TB3-F13	COS AIG 1X RET S1
A 217R	56P02-C	56TB2-W 4	COS AOG 16X S3
A 217W	56P02-D	56TB2-W 3	COS AOG 16X S1
A 218R	56P02-E	56TB2-X 3	SIN AOG 16X S2
A 218W	56P02-F	56TB2-W 2	SIN AOG 16X S4
A 228R	56P02-F*	56TB3-D13	SIN AIG 1X RET S2
A 219R	56P02-G	56TB2-U 5	COS AMG 16X S3
A 219W	56P02-H	56TB2-T 5	COS AMG 16X S1
A 228W	56P02-G*	56TB3-D14	SIN AIG 1X S4
A 220R	56P02-J	56TB2-A 7	SIN AMG 16X S2
A 220W	56P02-K	56TB2-B 7	SIN AMG 16X S4
A 221R	56P02-L	56TB3-N20	COS AMG 1X S3
A 221W	56P02-M	56TB3-N21	COS AMG 1X S1
A 222W	56P02-N	56TB3-C13	SIN AMG 1X RET S2
A 222R	56P02-P	56TB3-C14	SIN AMG 1X S4
A 223R	56P02-R	56TB1-D 2	3200 CPS 2 V HI
A 223W	56P02-S	56TB1-C 2	3200 CPS 2 V LO
A 224R	56P02-T	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
A 224W	56P02-U	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
A 225R	56P02-W	56TB2-W 6	COS AIG 16X S3
A 225W	56P02-X	56TB2-X 7	COS AIG 16X S1
A 226R	56P02-Y	56TB2-A 8	SIN AIG 16X S2
A 226W	56P02-Z	56TB2-B 8	SIN AIG 16X S4

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 150R	56P01- 1	56J06- 1	PITCH ATTITUDE ERROR METER +
*	A 150W	56P01- 2	56J06- 2	PITCH ATTITUDE ERROR METER -
	A 26	56P01- 4	56TB1-D 6	COARSE ALIGN RELAY CONTROL
	A 10	56P01- 5	56TB2-C 1	FINE ALIGN RELAY CONTROL
*	A 161	56P01- 6	56J06- 6	ENTRY RELAY CONTROL RESET
	A 21	56P01- 7	56TB3-S21	+28 VDC IMU
*	A 160	56P01- 9	56J06- 9	MODE SWITCH INTERLOCK
	A 19W	56P01- 10	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
	A 19R	56P01- 11	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
	A 8	56P01- 12	56TB2-B 2	ZERO ENCODER RELAY CONTROL
	A 5	56P01- 13	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC
*	A 151R	56P01- 14	56J06- 14	YAW ATTITUDE ERROR METER +
*	A 151W	56P01- 15	56J06- 15	YAW ATTITUDE ERROR METER -
*	A 157	56P01- 18	56J06- 18	MODE RELAY COMMON TO D AND C ELECT
*	A 175	56P01- 22	56J06- 22	ATTITUDE CONTROL MODE LIGHT
*	A 165	56P01- 23	56J06- 23	FINE ALIGN RELAY CONTROL
	A 12	56P01- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
*	A 167	56P01- 25	56J06- 25	ENTRY RELAY CONTROL
	A 22	56P01- 26	56TB1-U 2	IMU DELAY LIGHT HI
	A 6	56P01- 27	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC
*	A 152W	56P01- 28	56J06- 28	ROLL ATTITUDE ERROR METER -
*	A 152R	56P01- 29	56J06- 29	ROLL ATTITUDE ERROR METER +
*	A 162	56P01- 34	56J06- 34	ZERO ENCODER RELAY CONTROL
*	A 163	56P01- 35	56J06- 35	COARSE ALIGN RELAY CONTROL
*	A 164	56P01- 36	56J06- 36	CDU MANUAL RELAY CONTROL
	A 30	56P01- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL
	A 3	56P01- 38	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC
	A 16W	56P01- 39	56J21-226	ENTRY MODE INDICATION TO AGC 163A
	A 31	56P01- 45	56TB3-M 2	IMU TD RELAY C
*	A 177	56P01- 46	56J06- 46	ATTITUDE CONTROL MODE INTERLOCK
	A 4	56P01- 48	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC
	A 15W	56P01- 49	56J21-222	FINE ALIGN MODE INDICATION TO AGC 161A
	A 32	56P01- 55	56TB3-L 2	IMU TD RELAY NO
*	A 170	56P01- 56	56J06- 56	MANUAL ALIGN
	A 9	56P01- 57	56TB2-R 4	ENTRY RELAY CONTROL
	A 7	56P01- 58	56TB1-K 6	ENTRY MODE COMMAND FROM AGC
	A 14W	56P01- 59	56J21-154	COARSE ALIGN MODE INDICATION TO AGC 159A
	A 2	56P01- 65	56TB3-L 1	IRIG TEMP GAIN SWITCH NC
	A 13W	56P01- 68	56TB2-D 2	AGC COM

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 229W	56P03-A	56TB1-C 7	X GYRO ERROR SIG
A 239W	56P03-A*	56TB1-A 3	MG TORQUE MOTOR RET
A 230W	56P03-B	56TB1-C 8	Z GYRO ERROR SIG
A 240R	56P03-B*	56TB1-A 3	MG TORQUE MOTOR RET
A 231R	56P03-C	56TB1-A 8	IMU OG ERROR SIG
A 240W	56P03-C*	56TB1-A 4	MG TORQUE MOTOR HI
A 232R	56P03-D	56TB2-N 8	COS AOG 1X S3
A 241R	56P03-D*	56TB1-D 3	IG TORQUE MOTOR HI
A 232W	56P03-E	56TB2-N 7	COS AOG 1X S1
A 241W	56P03-E*	56TB1-D 4	IG TORQUE MOTOR RET
A 233R	56P03-F	56TB2-U 8	SIN AOG 1X S4
A 242R	56P03-F*	56TB1-D 4	IG TORQUE MOTOR RET
A 233W	56P03-G	56TB2-U 7	SIN AOG 1X S2
A 242W	56P03-G*	56TB1-D 3	IG TORQUE MOTOR HI
A 234W	56P03-H	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR
A 244	56P03-H*	56TB3-T20	+28 VDC IMU
A 234R	56P03-J	56TB1-B 5	IG CDU ERROR SIG RET
A 243	56P03-J*	56TB3-F 5	GIMBAL LOCK SIGNAL
A 235R	56P03-K	56TB1-A 6	MG CDU ERROR SIG RET
A 235W	56P03-L	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR
A 236W	56P03-M	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
A 236R	56P03-N	56TB3-R 4	PITCH YAW RSVR S3
A 237W	56P03-P	56TB3-M13	PITCH ERROR BODY AND BODY OFFSET AXIS LO
A 237R	56P03-R	56TB3-M14	PITCH-YAW RSVR S4
A 231L	56P03-U	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 231W	56P03-V	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 231K	56P03-W	56TB1-A 7	IMU MG ERROR SIG
A 238R	56P03-X	56TB1-B 2	OG TORQUE MOTOR RET
A 238W	56P03-Y	56TB1-A 2	OG TORQUE MOTOR HI
A 239R	56P03-Z	56TB1-A 4	MG TORQUE MOTOR HI

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 259W	56P05-A	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING RED
	A 253R	56P05-A*	56TB3-S 8	SXT AT 64X RSVR COS HI
	A 264	56P05-AA	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
	A 259R	56P05-B	56TB3-C18	+28 VDC OPTICS
	A 253W	56P05-B*	56TB3-S 7	SXT AT 64X RSVR COS LO
	A 263W	56P05-BB	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
	A 259L	56P05-C	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING BLK
	A 254R	56P05-C*	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
	A 265R	56P05-CC	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
*	A 247R	56P05-CC	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
	A 598R	56P05-D	56TB2-U 2	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
	A 254W	56P05-D*	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
	A 265W	56P05-DD	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
*	A 247W	56P05-DD	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
	A 598W	56P05-E	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	A 255R	56P05-E*	56TB3-G16	TRUNNION CDU 1/4X COS LO
	A 251R	56P05-EE	56P04-H	AS 16X RSVR P2 TRIM
	A 255W	56P05-F*	56TB3-F16	TRUNNION CDU 1/4X COS HI
	A 251W	56P05-FF	56P04-F	AS 16X RSVR P4 TRIM
	A 256R	56P05-G*	56TB3-G10	TRUNNION CDU 1/4X SIN HI
	A 256W	56P05-H*	56TB3-F10	TRUNNION CDU 1/4X SIN LO
	A 263R	56P05-HH	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
	A 246W	56P05-I*	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING RED
	A 247W	56P05-J	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
	A 268R	56P05-J	56P04-C	800 CPS 28 V 1 PCT LO OPTICS
	A 246L	56P05-J*	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING BLK
	A 247R	56P05-K	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS
	A 268W	56P05-K	56P04-A	800 CPS 28 V 1 PCT HI OPTICS
	A 257R	56P05-K*	56TB3-T16	SXT TRUNNION TACH HI
	A 266R	56P05-L	56TB1-T 1	400 CPS VAR ILLUM PWR
	A 266W	56P05-M	56TB1-T 2	400 CPS 6 V LO
	A 257W	56P05-M*	56TB3-T17	SXT TRUNNION TACH LO
	A 248R	56P05-N*	56TB3-R 8	SXT AS 16X RSVR SIN HI
	A 246R	56P05-P	56TB3-C18	+28 VDC OPTICS
	A 248W	56P05-P*	56TB3-R 7	SXT AS 16X RSVR SIN LO
	A 258R	56P05-Q*	56TB3-R10	SXT AS 16X RSVR COS LO
	A 270	56P05-R	56TB3-F21	STRUCTURE GND
	A 258W	56P05-R*	56TB3-R11	SXT AS 16X RSVR COS HI
	A 249	56P05-S	56TB3-K21	0 VDC OPTICS

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 250	56P05-T	56TB3-K21	0 VDC OPTICS
A 260R	56P05-U*	56TB3-S17	SXT SHAFT TACH HI
A 260W	56P05-V*	56TB3-S16	SXT SHAFT TACH LO
A 267W	56P05-W	56P04-J	AT 64X RSVR P4 TRIM
A 261R	56P05-W*	56TB3-N13	SHAFT CDU 1/2X COS LO P4
A 267R	56P05-X	56P04-K	AT 64X RSVR P2 TRIM
A 261W	56P05-X*	56TB3-N14	SHAFT CDU 1/2X COS HI P2
A 252R	56P05-Y	56TB3-T 8	SXT AT 64X RSVR SIN LO
A 262R	56P05-Y*	56TB3-K10	SHAFT CDU 1/2X SIN HI P1
A 252W	56P05-Z	56TB3-T 7	SXT AT 64X RSVR SIN HI
A 262W	56P05-Z*	56TB3-K11	SHAFT CDU 1/2X SIN LO P3

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 268W	56P04-A	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
*	A 268R	56P04-C	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
*	A 251W	56P04-F	56P05-FF	AS 16X RSVR P4 TRIM
*	A 251R	56P04-H	56P05-EE	AS 16X RSVR P2 TRIM
*	A 267W	56P04-J	56P05-W	AT 64X RSVR P4 TRIM
*	A 267R	56P04-K	56P05-X	AT 64X RSVR P2 TRIM

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 271R	56P06-A	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 286	56P06-A*	56TB3-K 3	IRIG TEMP IND SENSOR RET
A 271W	56P06-B	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO
A 282R	56P06-B*	56TB3-L13	PRESSURE SENSOR +28 VDC HI
A 271L	56P06-C	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 282W	56P06-C*	56TB3-K13	PRESSURE SENSOR +28 VDC LO
A 284	56P06-D	56TB3-T20	+28 VDC IMU
A 283R	56P06-D*	56TB3-K19	IMU PRESSURE MONITOR HI
A 287	56P06-E	56TB2-D 4	0 VDC IMU
A 283W	56P06-E*	56TB3-H19	IMU PRESSURE MONITOR LO
A 272	56P06-F	56TB1-D 5	-28 VDC
A 281R	56P06-F*	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 288	56P06-G	56TB3-F21	STRUCTURE GND
A 281W	56P06-G*	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 273R	56P06-H	56TB1-A 2	OG TORQUE MOTOR HI
A 273W	56P06-J	56TB1-B 2	OG TORQUE MOTOR RET
A 274	56P06-K	56TB3-G 5	IMU TEMP SENSOR COM
A 275W	56P06-L	56TB3-L 3	IRIG TEMP CONT SENSOR RET
A 275R	56P06-M	56TB3-L 4	IRIG TEMP CONT SENSOR HI
A 276	56P06-N	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 285	56P06-P	56TB3-M 1	ACCEL TEMP IND SENSOR RET
A 279W	56P06-R	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY
A 278R	56P06-V	56TB3-N 5	IMU CONTROL HTR HI
A 278W	56P06-W	56TB3-N 4	IMU CONTROL HTR LO
A 279R	56P06-X	56TB3-N 1	IMU EMERGENCY HTR HI
A 277	56P06-Y	56TB3-N 6	EMERG HTR CONT MODULE LO
A 280	56P06-Z	56TB3-H 4	IRIG TEMP IND SENSOR HI

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 299R	56P08-A	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 299W	56P08-B	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 315	56P08-B*	56TB3-K15	0 VDC OPTICS
A 308W	56P08-C*	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING RED
A 308L	56P08-D*	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING BLK
A 300W	56P08-E	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING RED
A 309R	56P08-E*	56TB3-N16	SCT SHAFT TACH HI
A 300R	56P08-F	56TB3-C19	+28 VDC OPTICS
A 309W	56P08-F*	56TB3-N17	SCT SHAFT TACH LO
A 300L	56P08-G	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING BLK
A 310R	56P08-G*	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
A 308R	56P08-H	56TB3-C19	+28 VDC OPTICS
A 311	56P08-H*	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
A 310W	56P08-I*	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
A 301R	56P08-J	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
A 312W	56P08-J*	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 301W	56P08-K	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
A 312R	56P08-K*	56TB3-K11	SHAFT CDU 1/2X SIN LO P1
A 313W	56P08-M*	56TB3-N13	SHAFT CDU 1/2X COS LO P2
A 302R	56P08-N	56TB3-R17	SCT TRUNNION TACH HI
A 313R	56P08-N*	56TB3-N14	SHAFT CDU 1/2X COS HI P4
A 302W	56P08-P	56TB3-R16	SCT TRUNNION TACH LO
A 303	56P08-R	56TB3-K15	0 VDC OPTICS
A 314R	56P08-R*	56TB1-T 1	400 CPS VAR ILLUM PWR
A 304W	56P08-S	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
A 314W	56P08-S*	56TB1-T 2	400 CPS 6 V LO
A 304R	56P08-T	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
A 316	56P08-T*	56TB3-F22	STRUCTURE GND
A 305	56P08-U	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
A 306R	56P08-V	56TB3-S13	SCT TRUNNION 1X SIN LO
A 306W	56P08-W	56TB3-S14	SCT TRUNNION 1X SIN HI
A 307R	56P08-X	56TB3-T14	SCT TRUNNION 1X COS HI
A 307W	56P08-Y	56TB3-T13	SCT TRUNNION 1X COS LO

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 355R	56P09- 1	56TB3-D13	SIN AIG 1X RET
A 356R	56P09- 2	56TB3-F13	COS AIG 1X RET
A 356W	56P09- 3	56TB3-F14	COS AIG 1X
A 330	56P09- 4	56TB3-R20	+28 VDC AGC
A 317R	56P09- 5	56TB3-T19	+20 VDC CONDITIONING
A 317W	56P09- 6	56TB3-S19	0 VDC CONDITIONING
A 386W	56P09- 7	56TB3-R19	+2.5 VDC CONDITIONING HI
A 318W	56P09- 8	56TB3-B19	800 CPS 28 V 1 PCT LO IMU
A 318R	56P09- 9	56TB3-B18	800 CPS 28 V 1 PCT HI IMU
A 342	56P09- 10	56TB3-F 5	GIMBAL LOCK SIGNAL
A 344	56P09- 11	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 336	56P09- 12	56TB1-H 8	ERROR DETECT LIGHT HI
A 332	56P09- 13	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 355W	56P09- 14	56TB3-D14	SIN AIG 1X
A 357R	56P09- 15	56TB3-C13	SIN AMG 1X RET
A 359R	56P09- 16	56TB2-U 7	SIN AOG 1X S2
A 359W	56P09- 17	56TB2-U 8	SIN AOG 1X S4
A 331	56P09- 18	56TB3-N19	0 VDC AGC
A 327	56P09- 19	56TB3-T21	+28 VDC IMU
A 326	56P09- 20	56TB3-N22	+28 VDC STBY
A 386R	56P09- 21	56TB3-S20	+2.5 VDC CONDITIONING LO
A 320R	56P09- 22	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 343	56P09- 23	56TB1-S 5	0 VDC IMU
A 348	56P09- 24	56E 21	0 VDC IMU
A 341	56P09- 25	56E 21	0 VDC IMU
A 340	56P09- 26	56E 21	0 VDC IMU
A 337	56P09- 27	56E 21	0 VDC IMU
A 358R	56P09- 28	56TB3-N20	COS AMG 1X S3
A 357W	56P09- 29	56TB3-C14	SIN AMG 1X
A 360R	56P09- 30	56TB2-N 8	COS AOG 1X S3
A 360W	56P09- 31	56TB2-N 7	COS AOG 1X S1
A 385	56P09- 32	56TB2-F 4	0 VDC IMU
A 349	56P09- 33	56TB1-L 2	X PIP ERROR MONITOR
A 320W	56P09- 34	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 346	56P09- 35	56TB3-B 4	ZERO ENCODER LIGHT HI
A 347	56P09- 36	56E 21	0 VDC IMU
A 339	56P09- 37	56E 21	0 VDC IMU
A 338W	56P09- 38	56TB2-R 3	OG CDU ERROR SIG RET
A 338R	56P09- 39	56TB2-N 3	OG CDU 16X ERROR SIG

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 289R	56P07-A	56TB1-T 8	Z GYRO TORQUE +
A 296W	56P07-A*	56TB1-N 2	Y PIP ERROR LO
A 289W	56P07-B	56TB1-U 7	Z GYRO TORQUE RET
A 297R	56P07-B*	56TB1-T 5	Z PIP ERROR HI
A 289L	56P07-C	56TB1-U 8	Z GYRO TORQUE -
A 297W	56P07-C*	56TB1-T 4	Z PIP ERROR LO
A 290R	56P07-D	56TB1-M 8	X GYRO TORQUE +
A 290W	56P07-E	56TB1-L 8	X GYRO TORQUE RET
A 290L	56P07-F	56TB1-L 7	X GYRO TORQUE -
A 298R	56P07-F*	56TB1-C 3	OG ADA
A 291R	56P07-G	56TB1-T 6	Y GYRO TORQUE +
A 298L	56P07-G*	56TB1-B 4	MG ADA
A 291W	56P07-H	56TB1-U 5	Y GYRO TORQUE RET
A 298K	56P07-H*	56TB1-C 4	IG ADA
A 291L	56P07-J	56TB1-U 6	Y GYRO TORQUE -
A 298W	56P07-J*	56TB1-B 3	0 VDC IMU
A 292R	56P07-K	56TB1-U 4	Z PIP TORQUE +
A 292W	56P07-L	56TB1-T 3	Z PIP TORQUE RET
A 292L	56P07-M	56TB1-U 3	Z PIP TORQUE -
A 293R	56P07-N	56TB1-L 4	Y PIP TORQUE +
A 293W	56P07-P	56TB1-L 3	Y PIP TORQUE RET
A 293L	56P07-R	56TB1-M 4	Y PIP TORQUE -
A 294R	56P07-U	56TB1-M 5	X PIP TORQUE +
A 294W	56P07-V	56TB1-L 6	X PIP TORQUE RET
A 294L	56P07-W	56TB1-L 5	X PIP TORQUE -
A 295R	56P07-X	56TB1-M 7	X PIP ERROR HI
A 295W	56P07-Y	56TB1-M 6	X PIP ERROR LO
A 296R	56P07-Z	56TB1-M 3	Y PIP ERROR HI

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 358W	56P09- 40	56TB3-N21	COS AMG 1X S1
A 361	56P09- 41	56TB1-C 8	Z GYRO ERROR SIG
A 379R	56P09- 42	56TB3-K19	IMU PRESSURE MONITOR HI
A 350	56P09- 43	56TB1-M 2	Y PIP ERROR MONITOR
A 351	56P09- 44	56TB1-T 7	Z PIP ERROR MONITOR
A 321R	56P09- 45	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
A 345	56P09- 46	56TB1-U 2	IMU DELAY LIGHT HI
A 335	56P09- 47	56TB3-B 3	CDU FAIL LIGHT HI
A 334	56P09- 48	56TB3-M 6	IMU FAIL LIGHT HI
A 333	56P09- 49	56TB3-B 5	ACCEL FAIL LIGHT HI
A 363W	56P09- 50	56TB1-A 8	IMU OG ERROR SIG
A 363K	56P09- 51	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 362	56P09- 52	56TB1-C 7	X GYRO ERROR SIG
A 379W	56P09- 53	56TB3-H19	IMU PRESSURE MONITOR LO
A 381	56P09- 54	56TB3-M19	+3 VDC AGC
A 321W	56P09- 55	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
A 322R	56P09- 56	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 322W	56P09- 57	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 323W	56P09- 58	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
A 323R	56P09- 59	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
A 363R	56P09- 60	56TB1-A 7	IMU MG ERROR SIG
A 363L	56P09- 61	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 380	56P09- 62	56TB3-L19	+13 VDC AGC
A 382	56P09- 63	56TB3-N19	0 VDC AGC
A 371L	56P09- 64	56TB3-G19	AGC TEMP MONITOR NO 1
A 328	56P09- 65	56TB3-H20	+28 VDC OPTICS
A 329	56P09- 66	56TB3-L21	0 VDC OPTICS
A 319R	56P09- 67	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 325R	56P09- 68	56TB1-H 7	25.6 KC HI OPTICS
A 324R	56P09- 69	56TB1-H 4	25.6 KC HI IMU
A 365R	56P09- 70	56TB2-H 7	MG CDU 1X ERROR SIG
A 365W	56P09- 71	56TB2-G 7	MG CDU ERROR SIG RET
A 366R	56P09- 72	56TB2-N 2	OG CDU 1X ERROR SIG
A 370	56P09- 73	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
A 371R	56P09- 74	56TB3-F19	AGC TEMP MONITOR NO 2
A 371W	56P09- 75	56TB3-D19	AGC TEMP MONITOR NO 3
A 378R	56P09- 76	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
A 378W	56P09- 77	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
A 319L	56P09- 78	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 665	56P10- 1	56TB3-B20	STRUCTURE GND
	A 461	56P10- 8	56J22-171	MAIN PANEL GIMBAL LOCK LIGHT
	A 462	56P10- 9	56TB3-F 1	0 VDC SPACECRAFT
	A 453	56P10- 10	56J09- 29	GIMBAL LOCK LIGHT CONDITION LAMP TEST
	A 454	56P10- 12	56TB3-F 5	GIMBAL LOCK SIGNAL
	A 452	56P10- 13	56TB1-S 5	0 VDC IMU
	A 455	56P10- 24	56TB2-S 8	GIMBAL LOCK LIGHT HI
	A 459R	56P10- 38	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
	A 459W	56P10- 39	56TB3-L 6	400 CPS 0.5 V PI PHASE
*	A 447	56P10- 48	56J09- 95	400 CPS 26 V HI
	A 460	56P10- 49	56TB3-B14	400 CPS 26 V LO
	A 607W	56P10- 68	56TB3-K14	400 CPS 115 V LO
	A 607R	56P10- 69	56TB3-L14	400 CPS 115 V HI
	A 663L	56P10- 81	56TB1-T 2	400 CPS 6 V LO
*	A 606W	56P10- 93	56J09- 62	400 CPS 6 V HI
	A 663R	56P10- 94	56TB1-R 2	400 CPS 6 V LO
	A 663W	56P10- 95	56TB1-S 2	400 CPS 6 V LO
*	A 606R	56P10-106	56J09- 61	400 CPS 6 V HI
*	A 606L	56P10-107	56J09- 53	400 CPS 6 V HI
*	A 606K	56P10-108	56J09- 52	400 CPS 6 V LO

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR H	SHEET 82

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 633	56P11-A	56TB3-G21	+28 VDC AGC BUSS A	
A 634	56P11-A	56J21- 1	+28 VDC AGC BUSS A	167
A 635	56P11-A	56J21- 73	+28 VDC AGC BUSS A	167
A 609	56P11-B	56TB3-C20	+28 VDC IMU BUSS A	
A 610	56P11-B	56TB3-C20	+28 VDC IMU BUSS A	
A 611	56P11-B	56TB3-C20	+28 VDC IMU BUSS A	
A 612	56P11-C	56TB3-C21	+28 VDC IMU BUSS A	
A 613	56P11-C	56TB3-C21	+28 VDC IMU BUSS A	
A 614	56P11-C	56TB3-C21	+28 VDC IMU BUSS A	
A 649	56P11-D	56TB1-N 8	0 VDC IMU	
A 650	56P11-D	56TB1-S 6	0 VDC IMU	
A 654	56P11-E	56TB2-M 7	0 VDC IMU	
A 655	56P11-E	56TB2-V 4	0 VDC IMU	
A 651	56P11-F	56TB2-M 3	0 VDC IMU	
A 652	56P11-F	56TB2-D 4	0 VDC IMU	
A 653	56P11-F	56TB3-N 3	0 VDC IMU	
A 643	56P11-G	56TB3-D15	0 VDC OPTICS	
A 644	56P11-G	56TB3-K20	0 VDC OPTICS	
A 645	56P11-G	56TB3-L21	0 VDC OPTICS	
A 625	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A	
A 626	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A	
A 627	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A	
A 639	56P11-J	56J21- 2	0 VDC AGC	169
A 640	56P11-J	56J21- 74	0 VDC AGC	169
A 608W	56P11-K	56TB3-K14	400 CPS 115 V LO	
A 631	56P11-L	56TB3-F21	STRUCTURE GND	
A 623	56P11-M	56TB3-D22	+28 VDC STBY BUSS A	
A 624	56P11-M	56TB3-D22	+28 VDC STBY BUSS A	
A 608R	56P11-N	56TB3-L14	400 CPS 115 V HI	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 319W	56P09- 79	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 325W	56P09- 80	56TB1-G 7	25.6 KC LO OPTICS
A 324W	56P09- 81	56TB1-G 4	25.6 KC LO IMU
A 364W	56P09- 82	56TB2-G 2	IG CDU ERROR SIG RET
A 366W	56P09- 83	56TB2-R 2	OG CDU ERROR SIG RET
A 384	56P09- 84	56TB3-D 6	TEMPERATURE CONTROL SIG LO
A 368	56P09- 85	56TB3-C 5	IRIG TEMP (TELEMETRY)
A 383R	56P09- 86	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
A 372R	56P09- 87	56TB3-D 9	SHAFT CDU MDA (TEST) HI
A 372W	56P09- 88	56TB3-D10	SHAFT CDU MDA (TEST) LO
A 374R	56P09- 89	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
A 375R	56P09- 90	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
A 376R	56P09- 91	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
A 376W	56P09- 92	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
A 352R	56P09- 93	56TB1-D 4	IG TORQUE MOTOR RET
A 354R	56P09- 94	56TB1-B 2	OG TORQUE MOTOR RET
A 354W	56P09- 95	56TB1-A 2	OG TORQUE MOTOR HI
A 364R	56P09- 96	56TB2-H 2	IG CDU 1X ERROR SIG
A 369	56P09- 97	56TB3-D 5	HTR CURRENT (TELEMETERY)
A 367	56P09- 98	56TB3-D 4	ACCEL TEMP (TELEMETRY)
A 383W	56P09- 99	56TB3-C 8	TRUNNION CDU MDA LO (TEST)
A 373R	56P09-100	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
A 373W	56P09-101	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)
A 374W	56P09-102	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
A 375W	56P09-103	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
A 377R	56P09-104	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
A 377W	56P09-105	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
A 352W	56P09-106	56TB1-D 3	IG TORQUE MOTOR HI
A 353R	56P09-107	56TB1-A 3	MG TORQUE MOTOR RET
A 353W	56P09-108	56TB1-A 4	MG TORQUE MOTOR HI

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 636	56P12-A	56TB3-G22	+28 VDC AGC BUSS B	
A 637	56P12-A	56J21-139	+28 VDC AGC BUSS B	168
A 638	56P12-A	56J21-207	+28 VDC AGC BUSS B	168
A 615	56P12-B	56TB3-D20	+28 VDC IMU BUSS B	
A 616	56P12-B	56TB3-D20	+28 VDC IMU BUSS B	
A 617	56P12-B	56TB3-D20	+28 VDC IMU BUSS B	
A 618	56P12-C	56TB3-D21	+28 VDC IMU BUSS B	
A 619	56P12-C	56TB3-D21	+28 VDC IMU BUSS B	
A 620	56P12-C	56TB3-D21	+28 VDC IMU BUSS B	
A 656	56P12-D	56TB1-N 4	0 VDC IMU	
A 657	56P12-D	56TB3-S 3	0 VDC IMU	
A 658	56P12-E	56TB3-T 3	0 VDC IMU	
A 659	56P12-E	56TB1-S 3	0 VDC IMU	
A 660	56P12-F	56TB2-M 1	0 VDC IMU	
A 661	56P12-F	56TB2-L 4	0 VDC IMU	
A 662	56P12-F	56TB1-D 7	0 VDC IMU	
A 646	56P12-G	56TB3-C15	0 VDC OPTICS	
A 647	56P12-G	56TB3-K22	0 VDC OPTICS	
A 648	56P12-G	56TB3-L20	0 VDC OPTICS	
A 628	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B	
A 629	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B	
A 630	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B	
A 641	56P12-J	56J21-140	0 VDC AGC	170
A 642	56P12-J	56J21-208	0 VDC AGC	170
A 632	56P12-L	56TB3-F22	STRUCTURE GND	
A 621	56P12-M	56TB3-C22	+28 VDC STBY BUSS B	
A 622	56P12-M	56TB3-C22	+28 VDC STBY BUSS B	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA 29K	56TB1-B 7	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO	
*	AA155K	56TB1-B 7	56J15-B2	IMU GIMBAL AND GYRO ERROR SIG LO	
*	A 231L	56TB1-B 8	56P03-U	IMU IG AND Y GYRO ERROR SIG	
*	A 363L	56TB1-B 8	56P09- 61	IMU IG AND Y GYRO ERROR SIG	
*	AA 29W	56TB1-B 8	56J11-B6	IMU IG AND Y GYRO ERROR SIG	
*	AA155R	56TB1-B 8	56J15-A2	IMU IG AND Y GYRO ERROR SIG	
*	A 223W	56TB1-C 2	56P02-S	3200 CPS 2 V LO	
*	AA 28K	56TB1-C 2	56J11-L2	3200 CPS 2 V LO	
*	AA 28L	56TB1-C 2	56J11-M2	3200 CPS 2 V LO	
*	A 298R	56TB1-C 3	56P07-F*	OG ADA	
*	AA 23K	56TB1-C 3	56J11-G1	OG ADA	
*	A 298K	56TB1-C 4	56P07-H*	IG ADA	
*	AA 23R	56TB1-C 4	56J11-F1	IG ADA	
*	A 234W	56TB1-C 5	56P03-H	IG CDU ATTITUDE STEERING ERROR	
*	AA 16R	56TB1-C 5	56J11-C1	IG CDU ATTITUDE STEERING ERROR	
*	A 224R	56TB1-C 6	56P02-T	3200 CPS 2 V FEEDBACK HI	
*	A 323R	56TB1-C 6	56P09- 59	3200 CPS 2 V FEEDBACK HI	
*	AA 42W	56TB1-C 6	56J11-F3	3200 CPS 2 V FEEDBACK HI	
*	A 229W	56TB1-C 7	56P03-A	X GYRO ERROR SIG	
*	A 362	56TB1-C 7	56P09- 52	X GYRO ERROR SIG	
*	AA155L	56TB1-C 7	56J15-B1	X GYRO ERROR SIG	
*	A 230W	56TB1-C 8	56P03-B	Z GYRO ERROR SIG	
*	A 361	56TB1-C 8	56P09- 41	Z GYRO ERROR SIG	
*	AA155W	56TB1-C 8	56J15-A1	Z GYRO ERROR SIG	
*	A 223R	56TB1-D 2	56P02-R	3200 CPS 2 V HI	
*	AA 28R	56TB1-D 2	56J11-M1	3200 CPS 2 V HI	
*	AA 28W	56TB1-D 2	56J11-L1	3200 CPS 2 V HI	
*	A 241R	56TB1-D 3	56P03-D*	IG TORQUE MOTOR HI	
*	A 242W	56TB1-D 3	56P03-G*	IG TORQUE MOTOR HI	
*	A 352W	56TB1-D 3	56P09-106	IG TORQUE MOTOR HI	
*	AA 30R	56TB1-D 3	56J11-D6	IG TORQUE MOTOR HI	
*	A 241W	56TB1-D 4	56P03-E*	IG TORQUE MOTOR RET	
*	A 242R	56TB1-D 4	56P03-F*	IG TORQUE MOTOR RET	
*	A 352R	56TB1-D 4	56P09- 93	IG TORQUE MOTOR RET	
*	AA 30W	56TB1-D 4	56J11-D5	IG TORQUE MOTOR RET	
*	A 272	56TB1-D 5	56P06-F	-28 VDC	
*	AA 27	56TB1-D 5	56J11-N6	-28 VDC	
*	A 26	56TB1-D 6	56P01- 4	COARSE ALIGN RELAY CONTROL	
*	AA 35	56TB1-D 6	56J11-L3	COARSE ALIGN RELAY CONTROL	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 224B	56TB1-D 7	SHLD A 224	0 VDC IMU	
	A 229B	56TB1-D 7	SHLD A 229	0 VDC IMU	
	AA572	56TB1-D 7	56TB1-D 8	0 VDC IMU	
	AA590	56TB1-D 7	56TB2-V 2	0 VDC IMU	
*	A 662	56TB1-D 7	56P12-F	0 VDC IMU	
	A 230B	56TB1-D 8	SHLD A 230	0 VDC IMU	
	AA587	56TB1-D 8	56TB1-N 8	0 VDC IMU	
*	AA572	56TB1-D 8	56TB1-D 7	0 VDC IMU	
*	A 466	56TB1-F 1	56J10- 7	SPARE FAIL LIGHT HI	305
*	A 565	56TB1-F 1	56J08- 50	SPARE FAIL LIGHT HI	
*	A 158	56TB1-F 8	56J06- 81	ATTIT CONT MODE COMMAND FROM AGC	
*	A 475	56TB1-F 8	56J10- 12	ATTIT CONT MODE COMMAND FROM AGC	314
*	A 179	56TB1-G 1	56J08- 67	+28 VDC MDV	
*	A 410	56TB1-G 1	56J09- 67	+28 VDC MDV	
*	A 271L	56TB1-G 2	56P06-C	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 319R	56TB1-G 2	56P09- 67	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	AA 60W	56TB1-G 2	56J12-P2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 324W	56TB1-G 4	56P09- 81	25.6 KC LO IMU	
*	A 564R	56TB1-G 4	56E 3	25.6 KC LO IMU	
*	AA 64R	56TB1-G 4	56J12-P5	25.6 KC LO IMU	
*	A 508	56TB1-G 5	56J10- 10	+28 VDC TO COMPUTER RELAY	327
*	AA 79	56TB1-G 5	56J12-M4	+28 VDC TO COMPUTER RELAY	
*	A 325W	56TB1-G 7	56P09- 80	25.6 KC LO OPTICS	
*	A 560W	56TB1-G 7	56E 16	25.6 KC LO OPTICS	
*	AA 63R	56TB1-G 7	56J12-N6	25.6 KC LO OPTICS	
*	A 271W	56TB1-H 2	56P06-B	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 319L	56TB1-H 2	56P09- 78	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	AA 60R	56TB1-H 2	56J12-R1	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 271R	56TB1-H 3	56P06-A	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 319W	56TB1-H 3	56P09- 79	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 60L	56TB1-H 3	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 324R	56TB1-H 4	56P09- 69	25.6 KC HI IMU	
*	A 564W	56TB1-H 4	56E 4	25.6 KC HI IMU	
*	AA 64W	56TB1-H 4	56J12-N4	25.6 KC HI IMU	
*	A 478	56TB1-H 5	56J10- 9	AGC FAIL SIG	326
*	AA 78	56TB1-H 5	56J12-M3	AGC FAIL SIG	
*	A 198	56TB1-H 6	56J08- 71	AGC POWER SUPPLY FAIL SIG HI	
*	A 332	56TB1-H 6	56P09- 13	AGC POWER SUPPLY FAIL SIG HI	
*	AA 80	56TB1-H 6	56J12-M1	AGC POWER SUPPLY FAIL SIG HI	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 238W	56TB1-A 2	56P03-Y	OG TORQUE MOTOR HI
*	A 273R	56TB1-A 2	56P06-H	OG TORQUE MOTOR HI
*	A 354W	56TB1-A 2	56P09- 95	OG TORQUE MOTOR HI
*	AA 34R	56TB1-A 2	56J11-H6	OG TORQUE MOTOR HI
*	A 239W	56TB1-A 3	56P03-A*	MG TORQUE MOTOR RET
*	A 240R	56TB1-A 3	56P03-B*	MG TORQUE MOTOR RET
*	A 353R	56TB1-A 3	56P09-107	MG TORQUE MOTOR RET
*	AA 32W	56TB1-A 3	56J11-G6	MG TORQUE MOTOR RET
*	A 239R	56TB1-A 4	56P03-Z	MG TORQUE MOTOR HI
*	A 240W	56TB1-A 4	56P03-C*	MG TORQUE MOTOR HI
*	A 353W	56TB1-A 4	56P09-108	MG TORQUE MOTOR HI
*	AA 32R	56TB1-A 4	56J11-F6	MG TORQUE MOTOR HI
*	A 235W	56TB1-A 5	56P03-L	MG CDU ATTITUDE STEERING ERROR
*	AA 20R	56TB1-A 5	56J11-C2	MG CDU ATTITUDE STEERING ERROR
	A 235B	56TB1-A 6	SHLD A 235	MG CDU ERROR SIG RET
*	A 235R	56TB1-A 6	56P03-K	MG CDU ERROR SIG RET
*	AA 20W	56TB1-A 6	56J11-B2	MG CDU ERROR SIG RET
*	A 231K	56TB1-A 7	56P03-W	IMU MG ERROR SIG
*	A 363R	56TB1-A 7	56P09- 60	IMU MG ERROR SIG
*	AA 29R	56TB1-A 7	56J11-A5	IMU MG ERROR SIG
*	A 231R	56TB1-A 8	56P03-C	IMU OG ERROR SIG
*	A 363W	56TB1-A 8	56P09- 50	IMU OG ERROR SIG
*	AA 29L	56TB1-A 8	56J11-A6	IMU OG ERROR SIG
*	A 238R	56TB1-B 2	56P03-X	OG TORQUE MOTOR RET
*	A 273W	56TB1-B 2	56P06-J	OG TORQUE MOTOR RET
*	A 354R	56TB1-B 2	56P09- 94	OG TORQUE MOTOR RET
*	AA 34W	56TB1-B 2	56J11-H5	OG TORQUE MOTOR RET
*	A 298W	56TB1-B 3	56P07-J*	0 VDC IMU
*	AA 23W	56TB1-B 3	56J11-G2	0 VDC IMU
*	A 298L	56TB1-B 4	56P07-G*	MG ADA
*	AA 23L	56TB1-B 4	56J11-H1	MG ADA
	A 234B	56TB1-B 5	SHLD A 234	IG CDU ERROR SIG RET
*	A 234R	56TB1-B 5	56P03-J	IG CDU ERROR SIG RET
*	AA 16W	56TB1-B 5	56J11-B1	IG CDU ERROR SIG RET
*	A 224W	56TB1-B 6	56P02-U	3200 CPS 2 V FEEDBACK LO
*	A 323W	56TB1-B 6	56P09- 58	3200 CPS 2 V FEEDBACK LO
*	AA 42R	56TB1-B 6	56J11-G3	3200 CPS 2 V FEEDBACK LO
*	A 231W	56TB1-B 7	56P03-V	IMU GIMBAL AND GYRO ERROR SIG LO
*	A 363K	56TB1-B 7	56P09- 51	IMU GIMBAL AND GYRO ERROR SIG LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 325R	56TB1-H 7	56P09- 68	25.6 KC HI OPTICS	
*	A 560R	56TB1-H 7	56E 17	25.6 KC HI OPTICS	
*	AA 63W	56TB1-H 7	56J12-P6	25.6 KC HI OPTICS	
*	A 187	56TB1-H 8	56J08- 51	ERROR DETECT LIGHT HI	
*	A 336	56TB1-H 8	56P09- 12	ERROR DETECT LIGHT HI	
*	AA 83	56TB1-H 8	56J12-L2	ERROR DETECT LIGHT HI	
*	A 18	56TB1-K 1	56P01- 91	MODE LAMP TEST PWR	
*	A 605W	56TB1-K 1	56J09- 84	MODE LAMP TEST PWR	
*	A 4	56TB1-K 3	56P01- 48	COARSE ALIGN MODE COMMAND FROM AGC	
*	A 479L	56TB1-K 3	56J10- 22	COARSE ALIGN MODE COMMAND FROM AGC	308
*	A 3	56TB1-K 4	56P01- 38	ZERO ENCODER MODE COMMAND FROM AGC	
*	A 479W	56TB1-K 4	56J10- 21	ZERO ENCODER MODE COMMAND FROM AGC	307
*	A 5	56TB1-K 5	56P01- 13	FINE ALIGN MODE COMMAND FROM AGC	
*	A 479R	56TB1-K 5	56J10- 24	FINE ALIGN MODE COMMAND FROM AGC	310
*	A 7	56TB1-K 6	56P01- 58	ENTRY MODE COMMAND FROM AGC	
*	A 480R	56TB1-K 6	56J10- 25	ENTRY MODE COMMAND FROM AGC	311
*	A 154	56TB1-K 7	56J06- 12	MODE RELAY COMMON TO AGC	
*	A 480W	56TB1-K 7	56J10- 26	MODE RELAY COMMON TO AGC	312
*	A 521	56TB1-K 7	56J10- 13	MODE RELAY COMMON TO AGC	315
*	A 6	56TB1-K 8	56P01- 27	CDU MANUAL MODE COMMAND FROM AGC	
*	A 480L	56TB1-K 8	56J10- 23	CDU MANUAL MODE COMMAND FROM AGC	309
*	A 349	56TB1-L 2	56P09- 33	X PIP ERROR MONITOR	
*	AA120	56TB1-L 2	56J13-D2	X PIP ERROR MONITOR	
*	A 293W	56TB1-L 3	56P07-P	Y PIP TORQUE RET	
*	AA122W	56TB1-L 3	56J13-M3	Y PIP TORQUE RET	
*	A 293R	56TB1-L 4	56P07-N	Y PIP TORQUE +	
*	AA122R	56TB1-L 4	56J13-L3	Y PIP TORQUE +	
*	A 294L	56TB1-L 5	56P07-W	X PIP TORQUE -	
*	AA119L	56TB1-L 5	56J13-L1	X PIP TORQUE -	
*	A 294W	56TB1-L 6	56P07-V	X PIP TORQUE RET	
*	AA119W	56TB1-L 6	56J13-K1	X PIP TORQUE RET	
*	A 290L	56TB1-L 7	56P07-F	X GYRO TORQUE -	
*	AA124L	56TB1-L 7	56J13-G6	X GYRO TORQUE -	
*	A 290W	56TB1-L 8	56P07-E	X GYRO TORQUE RET	
*	AA124W	56TB1-L 8	56J13-F6	X GYRO TORQUE RET	
*	A 602K	56TB1-M 1	56P01- 90	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
*	A 605K	56TB1-M 1	56J09- 63	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
*	A 350	56TB1-M 2	56P09- 43	Y PIP ERROR MONITOR	
*	AA123	56TB1-M 2	56J13-F2	Y PIP ERROR MONITOR	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 603R	56TB1-R 2	56J08- 19	400 CPS 6 V LO
*	A 603W	56TB1-R 2	56J08- 36	400 CPS 6 V LO
*	A 663R	56TB1-R 2	56P10- 94	400 CPS 6 V LO
*	A 603L	56TB1-R 3	56J08- 46	PROJECTION LAMP LO INTENSITY
*	A 604W	56TB1-R 3	56J09- 46	PROJECTION LAMP LO INTENSITY
	AA612	56TB1-S 1	56TB1-T 1	400 CPS VAR ILLUM PWR
*	A 153R	56TB1-S 1	56J06-108	400 CPS VAR ILLUM PWR
*	A 561R	56TB1-S 1	56E 9	400 CPS VAR ILLUM PWR
*	AA611	56TB1-S 1	56TB1-R 1	400 CPS VAR ILLUM PWR
	AA511	56TB1-S 2	56TB1-T 2	400 CPS 6 V LO
*	A 153W	56TB1-S 2	56J06-107	400 CPS 6 V LO
*	A 561W	56TB1-S 2	56E 10	400 CPS 6 V LO
*	A 663W	56TB1-S 2	56P10- 95	400 CPS 6 V LO
*	AA512	56TB1-S 2	56TB1-R 2	400 CPS 6 V LO
	A 292B	56TB1-S 3	SHLD A 292	0 VDC IMU
	AA591	56TB1-S 3	56TB2-M 4	0 VDC IMU
	AA632	56TB1-S 3	56TB1-S 4	0 VDC IMU
*	A 659	56TB1-S 3	56P12-E	0 VDC IMU
*	AA 46	56TB1-S 3	56J11-P6	0 VDC IMU
	AA127B	56TB1-S 4	SHLD AA127	0 VDC IMU
	AA633	56TB1-S 4	56TB1-S 5	0 VDC IMU
*	AA632	56TB1-S 4	56TB1-S 3	0 VDC IMU
	AA133B	56TB1-S 5	SHLD AA133	0 VDC IMU
	AA634	56TB1-S 5	56TB1-S 6	0 VDC IMU
*	A 211	56TB1-S 5	56J08- 92	0 VDC IMU
*	A 343	56TB1-S 5	56P09- 23	0 VDC IMU
*	A 452	56TB1-S 5	56P10- 13	0 VDC IMU
*	AA633	56TB1-S 5	56TB1-S 4	0 VDC IMU
	A 291B	56TB1-S 6	SHLD A 291	0 VDC IMU
*	A 650	56TB1-S 6	56P11-D	0 VDC IMU
*	AA 98	56TB1-S 6	56J12-R5	0 VDC IMU
*	AA601	56TB1-S 6	56TB1-S 7	0 VDC IMU
*	AA634	56TB1-S 6	56TB1-S 5	0 VDC IMU
	AA601	56TB1-S 7	56TB1-S 6	0 VDC IMU
	AA602	56TB1-S 7	56TB2-D 8	0 VDC IMU
*	A 556	56TB1-S 7	56E 19	0 VDC IMU
*	AA600	56TB1-S 7	56TB1-S 8	0 VDC IMU
	A 289B	56TB1-S 8	SHLD A 289	0 VDC IMU
	AA136B	56TB1-S 8	SHLD AA136	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA600	56TB1-S 8	56TB1-S 7	0 VDC IMU
*	AA588	56TB1-S 8	56TB1-N 4	0 VDC IMU
*	A 266R	56TB1-T 1	56P05-L	400 CPS VAR ILLUM PWR
*	A 314R	56TB1-T 1	56P08-R*	400 CPS VAR ILLUM PWR
*	A 602W	56TB1-T 1	56P01-108	400 CPS VAR ILLUM PWR
*	AA612	56TB1-T 1	56TB1-S 1	400 CPS VAR ILLUM PWR
*	A 266W	56TB1-T 2	56P05-M	400 CPS 6 V LO
*	A 314W	56TB1-T 2	56P08-S*	400 CPS 6 V LO
*	A 663L	56TB1-T 2	56P10- 81	400 CPS 6 V LO
*	AA511	56TB1-T 2	56TB1-S 2	400 CPS 6 V LO
*	A 292W	56TB1-T 3	56P07-L	Z PIP TORQUE RET
*	AA127W	56TB1-T 3	56J14-P3	Z PIP TORQUE RET
*	A 297W	56TB1-T 4	56P07-C*	Z PIP ERROR LO
*	AA126R	56TB1-T 4	56J14-A2	Z PIP ERROR LO
*	A 297R	56TB1-T 5	56P07-B*	Z PIP ERROR HI
*	AA126W	56TB1-T 5	56J14-A1	Z PIP ERROR HI
*	A 291R	56TB1-T 6	56P07-G	Y GYRO TORQUE +
*	AA133R	56TB1-T 6	56J14-M1	Y GYRO TORQUE +
*	A 351	56TB1-T 7	56P09- 44	Z PIP ERROR MONITOR
*	AA128	56TB1-T 7	56J14-H6	Z PIP ERROR MONITOR
*	A 289R	56TB1-T 8	56P07-A	Z GYRO TORQUE +
*	AA136R	56TB1-T 8	56J14-L6	Z GYRO TORQUE +
*	A 22	56TB1-U 2	56P01- 26	IMU DELAY LIGHT HI
*	A 193	56TB1-U 2	56J08- 42	IMU DELAY LIGHT HI
*	A 345	56TB1-U 2	56P09- 46	IMU DELAY LIGHT HI
*	A 292L	56TB1-U 3	56P07-M	Z PIP TORQUE -
*	AA127L	56TB1-U 3	56J14-P2	Z PIP TORQUE -
*	A 292R	56TB1-U 4	56P07-K	Z PIP TORQUE +
*	AA127R	56TB1-U 4	56J14-P1	Z PIP TORQUE +
*	A 291W	56TB1-U 5	56P07-H	Y GYRO TORQUE RET
*	AA133W	56TB1-U 5	56J14-M3	Y GYRO TORQUE RET
*	A 291L	56TB1-U 6	56P07-J	Y GYRO TORQUE -
*	AA133L	56TB1-U 6	56J14-M2	Y GYRO TORQUE -
*	A 289W	56TB1-U 7	56P07-B	Z GYRO TORQUE RET
*	AA136W	56TB1-U 7	56J14-N6	Z GYRO TORQUE RET
*	A 289L	56TB1-U 8	56P07-C	Z GYRO TORQUE -
*	AA136L	56TB1-U 8	56J14-M6	Z GYRO TORQUE -

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 296R	56TB1-M 3	56P07-Z	Y PIP ERROR HI
*	AA121W	56TB1-M 3	56J13-A3	Y PIP ERROR HI
*	A 293L	56TB1-M 4	56P07-R	Y PIP TORQUE -
*	AA122L	56TB1-M 4	56J13-N3	Y PIP TORQUE -
*	A 294R	56TB1-M 5	56P07-U	X PIP TORQUE +
*	AA119R	56TB1-M 5	56J13-H1	X PIP TORQUE +
*	A 295W	56TB1-M 6	56P07-Y	X PIP ERROR LO
*	AA118R	56TB1-M 6	56J13-B1	X PIP ERROR LO
*	A 295R	56TB1-M 7	56P07-X	X PIP ERROR HI
*	AA118W	56TB1-M 7	56J13-A1	X PIP ERROR HI
*	A 290R	56TB1-M 8	56P07-D	X GYRO TORQUE +
*	AA124R	56TB1-M 8	56J13-D6	X GYRO TORQUE +
*	A 602L	56TB1-N 1	56P01-106	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
*	A 605L	56TB1-N 1	56J09- 64	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
*	A 296W	56TB1-N 2	56P07-A*	Y PIP ERROR LO
*	AA121R	56TB1-N 2	56J13-B3	Y PIP ERROR LO
*	A 603R	56TB1-N 3	56J08- 55	PROJECTION LAMP HI INTENSITY
*	A 604R	56TB1-N 3	56J09- 55	PROJECTION LAMP HI INTENSITY
	A 293B	56TB1-N 4	SHLD A 293	0 VDC IMU
	A 587	56TB1-N 4	56TB1-N 5	0 VDC IMU
	AA122B	56TB1-N 4	SHLD AA122	0 VDC IMU
	AA588	56TB1-N 4	56TB1-S 8	0 VDC IMU
	AA589	56TB1-N 4	56TB2-M 5	0 VDC IMU
*	A 656	56TB1-N 4	56P12-D	0 VDC IMU
	A 294B	56TB1-N 5	SHLD A 294	0 VDC IMU
	A 588	56TB1-N 5	56TB1-N 8	0 VDC IMU
	AA119B	56TB1-N 5	SHLD AA119	0 VDC IMU
*	A 587	56TB1-N 5	56TB1-N 4	0 VDC IMU
*	AA 99	56TB1-N 5	56J12-R2	0 VDC IMU
	A 290B	56TB1-N 8	SHLD A 290	0 VDC IMU
	AA124B	56TB1-N 8	SHLD AA124	0 VDC IMU
*	A 588	56TB1-N 8	56TB1-N 5	0 VDC IMU
*	A 649	56TB1-N 8	56P11-D	0 VDC IMU
*	AA100	56TB1-N 8	56J12-R4	0 VDC IMU
*	AA587	56TB1-N 8	56TB1-D 8	0 VDC IMU
	AA611	56TB1-R 1	56TB1-S 1	400 CPS VAR ILLUM PWR
*	A 602R	56TB1-R 1	56P01-103	400 CPS VAR ILLUM PWR
*	A 605R	56TB1-R 1	56J09- 54	400 CPS VAR ILLUM PWR
	AA512	56TB1-R 2	56TB1-S 2	400 CPS 6 V LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 1W	56TB2-A 1	56P01- 95	PANEL BRIGHTNESS CONTROL
*	A 431W	56TB2-A 1	56J09- 44	PANEL BRIGHTNESS CONTROL
*	A 1R	56TB2-A 2	56P01- 80	PANEL BRIGHTNESS CONTROL
*	A 431R	56TB2-A 2	56J09- 32	PANEL BRIGHTNESS CONTROL
	A 92B	56TB2-A 4	SHLD A 92	OG CDU ENCODER COM
*	A 92R	56TB2-A 4	56J03- 94	OG CDU ENCODER COM
*	AA163R	56TB2-A 4	56J15-D3	OG CDU ENCODER COM
	A 45B	56TB2-A 5	SHLD A 45	IG CDU ENCODER COM
*	A 45R	56TB2-A 5	56J01- 94	IG CDU ENCODER COM
*	AA161R	56TB2-A 5	56J15-C1	IG CDU ENCODER COM
*	A 69L	56TB2-A 6	56J02-108	MG CDU ENCODER PHASE 2
*	AA162R	56TB2-A 6	56J15-D2	MG CDU ENCODER PHASE 2
*	A 220R	56TB2-A 7	56P02-J	SIN AMG 16X S2
*	AA172W	56TB2-A 7	56J15-F8	SIN AMG 16X S2
*	A 226R	56TB2-A 8	56P02-Y	SIN AIG 16X S2
*	AA171W	56TB2-A 8	56J15-D8	SIN AIG 16X S2
*	A 11	56TB2-B 1	56P01- 69	LOCK CDU RELAY CONTROL
*	AA174	56TB2-B 1	56J15-S3	LOCK CDU RELAY CONTROL
*	A 8	56TB2-B 2	56P01- 12	ZERO ENCODER RELAY CONTROL
*	AA173	56TB2-B 2	56J15-S1	ZERO ENCODER RELAY CONTROL
*	A 92W	56TB2-B 4	56J03-107	OG CDU ENCODER PHASE 1
*	AA163W	56TB2-B 4	56J15-D4	OG CDU ENCODER PHASE 1
*	A 45W	56TB2-B 5	56J01-107	IG CDU ENCODER PHASE 1
*	AA161W	56TB2-B 5	56J15-C2	IG CDU ENCODER PHASE 1
*	A 69W	56TB2-B 6	56J02-107	MG CDU ENCODER PHASE 1
*	AA162W	56TB2-B 6	56J15-F1	MG CDU ENCODER PHASE 1
*	A 68R	56TB2-B 7	56J02-101	SIN AMG 16X S4
*	A 220W	56TB2-B 7	56P02-K	SIN AMG 16X S4
*	AA172R	56TB2-B 7	56J15-F9	SIN AMG 16X S4
*	A 44R	56TB2-B 8	56J01-101	SIN AIG 16X S4
*	A 226W	56TB2-B 8	56P02-Z	SIN AIG 16X S4
*	AA171R	56TB2-B 8	56J15-D7	SIN AIG 16X S4
*	A 10	56TB2-C 1	56P01- 5	FINE ALIGN RELAY CONTROL
*	AA170	56TB2-C 1	56J15-H4	FINE ALIGN RELAY CONTROL
*	A 30	56TB2-C 2	56P01- 37	BACKUP MODE RELAY CONTROL
*	A 159	56TB2-C 2	56J06- 37	BACKUP MODE RELAY CONTROL
*	AA156	56TB2-C 2	56J15-R1	BACKUP MODE RELAY CONTROL
*	A 92L	56TB2-C 4	56J03-108	OG CDU ENCODER PHASE 2
*	AA163L	56TB2-C 4	56J15-C3	OG CDU ENCODER PHASE 2

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 226B	56TB2-D 8	SHLD A 226	0 VDC IMU
*	AA577	56TB2-D 8	56TB2-D 7	0 VDC IMU
*	AA602	56TB2-D 8	56TB1-S 7	0 VDC IMU
	A 24B	56TB2-F 2	SHLD A 24	IG CDU ERROR SIG RET
	A 39B	56TB2-F 2	SHLD A 39	IG CDU ERROR SIG RET
	A 364B	56TB2-F 2	SHLD A 364	IG CDU ERROR SIG RET
	AA580	56TB2-F 2	56TB2-G 2	IG CDU ERROR SIG RET
	AA569R	56TB2-F 3	56E 60	
*	A 13R	56TB2-F 3	56E 61	
*	A 155R	56TB2-F 3	56E 55	
*	AA176R	56TB2-F 3	56E 59	
*	AA487R	56TB2-F 3	56J21-122	
*	A 385	56TB2-F 4	56P09- 32	0 VDC IMU
*	AA637	56TB2-F 4	56J15-R2	0 VDC IMU
	A 25B	56TB2-F 7	SHLD A 25	MG CDU ERROR SIG RET
	A 63B	56TB2-F 7	SHLD A 63	MG CDU ERROR SIG RET
	A 365B	56TB2-F 7	SHLD A 365	MG CDU ERROR SIG RET
	AA579	56TB2-F 7	56TB2-G 7	MG CDU ERROR SIG RET
	A 42B	56TB2-G 1	SHLD A 42	IG CDU ERROR SIG RET
*	A 42W	56TB2-G 1	56J01- 90	IG CDU ERROR SIG RET
*	AA196R	56TB2-G 1	56J16-D2	IG CDU ERROR SIG RET
*	A 24W	56TB2-G 2	56P01- 71	IG CDU ERROR SIG RET
*	A 39W	56TB2-G 2	56J01- 45	IG CDU ERROR SIG RET
*	A 364W	56TB2-G 2	56P09- 82	IG CDU ERROR SIG RET
*	AA 15R	56TB2-G 2	56J11-B1	IG CDU ERROR SIG RET
*	AA195R	56TB2-G 2	56J16-D2	IG CDU ERROR SIG RET
*	AA580	56TB2-G 2	56TB2-F 2	IG CDU ERROR SIG RET
*	A 38W	56TB2-G 3	56J01- 57	IG CDU ERROR SIG RET S1
*	AA194R	56TB2-G 3	56J16-D2	IG CDU ERROR SIG RET
*	A 19R	56TB2-G 4	56P01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 216R	56TB2-G 4	56P02-A	800 CPS 28 V 1 PCT HI IMU
*	A 577R	56TB2-G 4	56E 1	800 CPS 28 V 1 PCT HI IMU
*	AA222R	56TB2-G 4	56J16-S4	800 CPS 28 V 1 PCT HI IMU
*	AA409W	56TB2-G 4	56J20-F5	800 CPS 28 V 1 PCT HI IMU
*	A 216W	56TB2-G 5	56P02-B	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	AA222W	56TB2-G 5	56J16-P4	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	A 62W	56TB2-G 6	56J02- 57	MG CDU ERROR SIG RET
*	AA199R	56TB2-G 6	56J16-D4	MG CDU ERROR SIG RET
*	A 25W	56TB2-G 7	56P01- 83	MG CDU ERROR SIG RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 63W	56TB2-G 7	56J02- 45	MG CDU ERROR SIG RET
*	A 365W	56TB2-G 7	56P09- 71	MG CDU ERROR SIG RET
*	AA 19R	56TB2-G 7	56J11-B2	MG CDU ERROR SIG RET
*	AA200R	56TB2-G 7	56J16-D4	MG CDU ERROR SIG RET
*	AA579	56TB2-G 7	56TB2-F 7	MG CDU ERROR SIG RET
	A 66B	56TB2-G 8	SHLD A 66	MG CDU ERROR SIG RET
*	A 66W	56TB2-G 8	56J02- 90	MG CDU ERROR SIG RET
*	AA201R	56TB2-G 8	56J16-D4	MG CDU ERROR SIG RET
*	A 42R	56TB2-H 1	56J01-104	IG CDU 16X ERROR SIG
*	AA196W	56TB2-H 1	56J16-C1	IG CDU 16X ERROR SIG
*	A 24R	56TB2-H 2	56P01- 70	IG CDU 1X ERROR SIG
*	A 39R	56TB2-H 2	56J01- 35	IG CDU 1X ERROR SIG S2
*	A 364R	56TB2-H 2	56P09- 96	IG CDU 1X ERROR SIG
*	AA 15W	56TB2-H 2	56J11-A1	IG CDU 1X ERROR SIG
*	AA195W	56TB2-H 2	56J16-C2	IG CDU 1X ERROR SIG
*	A 38R	56TB2-H 3	56J01- 67	IG CDU 1/2X ERROR SIG S3
*	AA194W	56TB2-H 3	56J16-D1	IG CDU 1/2X ERROR SIG
*	A 19W	56TB2-H 4	56P01- 10	800 CPS 28 V 1 PCT LO IMU
*	A 577W	56TB2-H 4	56E 2	800 CPS 28 V 1 PCT LO IMU
*	AA222L	56TB2-H 4	56J16-S3	800 CPS 28 V 1 PCT LO IMU
*	AA409R	56TB2-H 4	56J20-F6	800 CPS 28 V 1 PCT LO IMU
*	A 577L	56TB2-H 5	56E 5	ZEROING RSVR 800 CPS
*	AA222K	56TB2-H 5	56J16-R4	ZEROING RSVR 800 CPS
*	A 62R	56TB2-H 6	56J02- 67	MG CDU 1/2X ERROR SIG
*	AA199W	56TB2-H 6	56J16-D3	MG CDU 1/2X ERROR SIG
*	A 25R	56TB2-H 7	56P01- 82	MG CDU 1X ERROR SIG
*	A 63R	56TB2-H 7	56J02- 35	MG CDU 1X ERROR SIG
*	A 365R	56TB2-H 7	56P09- 70	MG CDU 1X ERROR SIG
*	AA 19W	56TB2-H 7	56J11-A2	MG CDU 1X ERROR SIG
*	AA200W	56TB2-H 7	56J16-C4	MG CDU 1X ERROR SIG
*	A 66R	56TB2-H 8	56J02-104	MG CDU 16X ERROR SIG
*	AA201W	56TB2-H 8	56J16-C3	MG CDU 16X ERROR SIG
*	A 321R	56TB2-K 1	56P09- 45	800 CPS 28 V 1 PCT HI OPTICS
*	A 416R	56TB2-K 1	56J09- 80	800 CPS 28 V 1 PCT HI OPTICS
*	A 558R	56TB2-K 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
*	AA224W	56TB2-K 1	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS
*	AA557	56TB2-K 1	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
	AA557	56TB2-K 2	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 265R	56TB2-K 2	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 45L	56TB2-C 5	56J01-108	IG CDU ENCODER PHASE 2
*	AA161L	56TB2-C 5	56J15-D1	IG CDU ENCODER PHASE 2
	A 69B	56TB2-C 6	SHLD A 69	MG CDU ENCODER COM
*	A 69R	56TB2-C 6	56J02- 94	MG CDU ENCODER COM
*	AA162L	56TB2-C 6	56J15-F2	MG CDU ENCODER COM
*	A 68W	56TB2-C 7	56J02- 87	SIN AMG 16X TO CDU
*	AA172L	56TB2-C 7	56J15-D9	SIN AMG 16X TO CDU
*	A 44W	56TB2-C 8	56J01- 87	SIN AIG 16X TO CDU
*	AA171L	56TB2-C 8	56J15-F7	SIN AIG 16X TO CDU
*	A 557	56TB2-D 1	56E 8	+28 VDC CDU NOT LOCK
*	AA177	56TB2-D 1	56J15-R6	+28 VDC CDU NOT LOCK
	AA569L	56TB2-D 2	56J16-B7	AGC COM
*	A 13W	56TB2-D 2	56P01- 68	AGC COM
*	A 155W	56TB2-D 2	56J06- 68	AGC COM
*	AA176L	56TB2-D 2	56J15-B3	AGC COM
*	AA487L	56TB2-D 2	56J21-121	AGC COM
	A 13B	56TB2-D 3	SHLD A 13	AGC SIG 178 SHLD RET
	A 155B	56TB2-D 3	SHLD A 155	AGC SIG 178 SHLD RET
	AA176B	56TB2-D 3	SHLD AA176	AGC SIG 178 SHLD RET
	AA487B	56TB2-D 3	SHLD AA487	AGC SIG 178 SHLD RET
*	AA569A	56TB2-D 3	SHLD AA569	AGC SIG 178 SHLD RET
	AA608	56TB2-D 4	56E 27	0 VDC IMU
*	A 287	56TB2-D 4	56P06-E	0 VDC IMU
*	A 652	56TB2-D 4	56P11-F	0 VDC IMU
*	AA605	56TB2-D 4	56TB2-D 5	0 VDC IMU
	A 458	56TB2-D 5	56E 48	0 VDC IMU
	AA605	56TB2-D 5	56TB2-D 4	0 VDC IMU
*	A 550	56TB2-D 5	56E 21	0 VDC IMU
*	AA604	56TB2-D 5	56TB2-D 6	0 VDC IMU
	AA604	56TB2-D 6	56TB2-D 5	0 VDC IMU
*	A 214	56TB2-D 6	56J08- 82	0 VDC IMU
*	A 450	56TB2-D 6	56J09- 26	0 VDC IMU
*	A 549	56TB2-D 6	56E 20	0 VDC IMU
*	AA603	56TB2-D 6	56TB2-D 7	0 VDC IMU
	A 68B	56TB2-D 7	SHLD A 68	0 VDC IMU
	A 220B	56TB2-D 7	SHLD A 220	0 VDC IMU
	AA577	56TB2-D 7	56TB2-D 8	0 VDC IMU
	AA603	56TB2-D 7	56TB2-D 6	0 VDC IMU
	A 44B	56TB2-D 8	SHLD A 44	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 301R	56TB2-K 2	56P08-J	800 CPS 28 V 1 PCT HI OPTICS
*	A 76W	56TB2-K 3	56J02- 32	MG CDU MDA OUTPUT
*	AA203R	56TB2-K 3	56J16-P3	MG CDU MDA OUTPUT
	AA555	56TB2-K 4	56TB2-L 4	0 VDC IMU
*	A 52R	56TB2-K 4	56J01- 43	0 VDC IMU
*	A 76R	56TB2-K 4	56J02- 43	0 VDC IMU
*	A 97R	56TB2-K 4	56J03- 43	0 VDC IMU
*	AA223	56TB2-K 4	56J16-P2	0 VDC IMU
*	A 97W	56TB2-K 5	56J03- 32	OG CDU MDA OUTPUT
*	AA215R	56TB2-K 5	56J16-N2	OG CDU MDA OUTPUT
*	A 97L	56TB2-K 6	56J03- 31	OG CDU MDA OUTPUT
*	AA215W	56TB2-K 6	56J16-N1	OG CDU MDA OUTPUT
*	A 102	56TB2-K 8	56J03- 30	+28 VDC IMU FOR OG MDA
*	AA212	56TB2-K 8	56J16-T2	+28 VDC IMU FOR OG MDA
*	A 321W	56TB2-L 1	56P09- 55	800 CPS 28 V 1 PCT LO OPTICS
*	A 416W	56TB2-L 1	56J09- 69	800 CPS 28 V 1 PCT LO OPTICS
*	A 558W	56TB2-L 1	56E 13	800 CPS 28 V 1 PCT LO OPTICS
*	AA224R	56TB2-L 1	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
*	AA556	56TB2-L 1	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
	AA556	56TB2-L 2	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 265W	56TB2-L 2	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
*	A 301W	56TB2-L 2	56P08-K	800 CPS 28 V 1 PCT LO OPTICS
*	A 76L	56TB2-L 3	56J02- 31	MG CDU MDA OUTPUT
*	AA203W	56TB2-L 3	56J16-R3	MG CDU MDA OUTPUT
	A 601	56TB2-L 4	56TB2-M 4	0 VDC IMU
*	A 169	56TB2-L 4	56J06- 78	0 VDC IMU
*	A 661	56TB2-L 4	56P12-F	0 VDC IMU
*	AA555	56TB2-L 4	56TB2-K 4	0 VDC IMU
*	A 52L	56TB2-L 5	56J01- 31	IG CDU MDA OUTPUT
*	AA198W	56TB2-L 5	56J16-R1	IG CDU MDA OUTPUT
*	A 52W	56TB2-L 6	56J01- 32	IG CDU MDA OUTPUT
*	AA198R	56TB2-L 6	56J16-P1	IG CDU MDA OUTPUT
	AA581	56TB2-M 1	56TB2-M 2	0 VDC IMU
*	A 660	56TB2-M 1	56P12-F	0 VDC IMU
*	AA 43	56TB2-M 1	56J11-R3	0 VDC IMU
*	AA461	56TB2-M 1	56J20-H2	0 VDC IMU
	AA582	56TB2-M 2	56TB2-M 3	0 VDC IMU
*	AA 44	56TB2-M 2	56J11-R1	0 VDC IMU
*	AA581	56TB2-M 2	56TB2-M 1	0 VDC IMU

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014607
SCALE - NONE
REV LTR H
SHEET 96

MIL 2084 4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 87W	56TB2-N 7	56J03- 6	COS AOG 1X S1
*	A 232W	56TB2-N 7	56P03-E	COS AOG 1X S1
*	A 360W	56TB2-N 7	56P09- 31	COS AOG 1X S1
*	AA204R	56TB2-N 7	56J16-C8	COS AOG 1X S1
*	AA506R	56TB2-N 7	56J22-142	COS AOG 1X S1
*	A 232R	56TB2-N 8	56P03-D	COS AOG 1X S3
*	A 360R	56TB2-N 8	56P09- 30	COS AOG 1X S3
*	AA204W	56TB2-N 8	56J16-B8	COS AOG 1X S3
*	AA506L	56TB2-N 8	56J22-141	COS AOG 1X S3
*	A 85W	56TB2-R 1	56J03- 57	OG CDU ERROR SIG RET
*	AA206R	56TB2-R 1	56J16-D6	OG CDU ERROR SIG RET
*	A 23W	56TB2-R 2	56P01- 97	OG CDU ERROR SIG RET
*	A 86W	56TB2-R 2	56J03- 45	OG CDU ERROR SIG RET
*	A 366W	56TB2-R 2	56P09- 83	OG CDU ERROR SIG RET
*	AA 21R	56TB2-R 2	56J11-B3	OG CDU ERROR SIG RET
*	AA207R	56TB2-R 2	56J16-D6	OG CDU ERROR SIG RET
*	AA578	56TB2-R 2	56TB2-S 2	OG CDU ERROR SIG RET
	AA571R	56TB2-R 3	56J17-B2	OG CDU ERROR SIG RET
	AA615	56TB2-R 3	56TB2-S 3	OG CDU ERROR SIG RET
*	A 89W	56TB2-R 3	56J03- 90	OG CDU ERROR SIG RET
*	A 338W	56TB2-R 3	56P09- 38	OG CDU ERROR SIG RET
*	AA208W	56TB2-R 3	56J16-D6	OG CDU ERROR SIG RET
*	A 9	56TB2-R 4	56P01- 57	ENTRY RELAY CONTROL
*	AA221	56TB2-R 4	56J16-M1	ENTRY RELAY CONTROL
*	A 80	56TB2-R 5	56J02- 30	+28 VDC IMU FOR MG MDA
*	AA211	56TB2-R 5	56J16-11	+28 VDC IMU FOR MG MDA
*	A 96L	56TB2-R 6	56J03-105	OG CDU MDA SLEW SIG
*	AA214W	56TB2-R 6	56J16-A6	OG CDU MDA SLEW SIG
	A 96B	56TB2-R 7	SHLD A 96	OG CDU MDA INPUT RET
*	A 96W	56TB2-R 7	56J03- 92	OG CDU MDA INPUT RET
*	AA214L	56TB2-R 7	56J16-B5	OG CDU MDA INPUT RET
*	A 87R	56TB2-R 8	56J03- 20	COS AOG 1X TO CDU
*	AA204L	56TB2-R 8	56J16-C9	COS AOG 1X TO CDU
*	A 100	56TB2-S 1	56J03- 34	OG CDU 1X RSVR LOAD
*	AA218	56TB2-S 1	56J16-F6	OG CDU 1X RSVR LOAD
	A 23B	56TB2-S 2	SHLD A 23	OG CDU ERROR SIG RET
	A 86B	56TB2-S 2	SHLD A 86	OG CDU ERROR SIG RET
	A 366B	56TB2-S 2	SHLD A 366	OG CDU ERROR SIG RET
	AA578	56TB2-S 2	56TB2-R 2	OG CDU ERROR SIG RET

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR H	SHEET 98

MIL 2084 4-63

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 89B	56TB2-S 3	SHLD A 89	OG CDU ERROR SIG RET
	A 338B	56TB2-S 3	SHLD A 338	OG CDU ERROR SIG RET
*	AA571A	56TB2-S 3	SHLD AA571	OG CDU ERROR SIG RET
*	AA615	56TB2-S 3	56TB2-R 3	OG CDU ERROR SIG RET
*	A 185	56TB2-S 4	56J08- 93	STEP-DOWN-R
*	A 411	56TB2-S 4	56J09- 93	STEP-DOWN-R
*	A 186	56TB2-S 5	56J08- 79	STEP-DOWN-C
*	A 412	56TB2-S 5	56J09- 79	STEP-DOWN-C
*	A 183	56TB2-S 6	56J08-106	STEP-UP-R
*	A 413	56TB2-S 6	56J09-106	STEP-UP-R
*	A 184	56TB2-S 7	56J08- 78	STEP-UP-C
*	A 414	56TB2-S 7	56J09- 78	STEP-UP-C
*	A 202	56TB2-S 8	56J08- 18	GIMBAL LOCK LIGHT HI
*	A 455	56TB2-S 8	56P10- 24	GIMBAL LOCK LIGHT HI
*	A 101	56TB2-T 1	56J03- 89	OG CDU 16X RSVR LOAD
*	AA219	56TB2-T 1	56J16-F5	OG CDU 16X RSVR LOAD
	AA621	56TB2-T 2	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 299W	56TB2-T 2	56P08-B	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 599W	56TB2-T 2	56J04- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 600W	56TB2-T 2	56J05- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	AA225R	56TB2-T 2	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 322W	56TB2-T 3	56P09- 57	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 598W	56TB2-T 3	56P05-E	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	AA621	56TB2-T 3	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 219W	56TB2-T 5	56P02-H	COS AMG 16X S1
*	AA231R	56TB2-T 5	56J16-H3	COS AMG 16X S1
*	A 51L	56TB2-T 6	56J01-105	IG CDU MDA SLEW SIG
*	AA197W	56TB2-T 6	56J16-A2	IG CDU MDA SLEW SIG
	A 51B	56TB2-T 7	SHLD A 51	IG CDU MDA INPUT RET
*	A 51W	56TB2-T 7	56J01- 92	IG CDU MDA INPUT RET
*	AA197L	56TB2-T 7	56J16-B1	IG CDU MDA INPUT RET
*	A 88R	56TB2-T 8	56J03- 21	SIN AOG 1X TO CDU
*	AA205L	56TB2-T 8	56J16-B9	SIN AOG 1X TO CDU
*	A 597R	56TB2-U 1	56J09- 49	TRUNNION CDU MOTOR EXC
*	A 600R	56TB2-U 1	56J05- 3	TRUNNION CDU MOTOR EXC
*	A 597L	56TB2-U 2	56J09- 82	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
*	A 598R	56TB2-U 2	56P05-D	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
*	A 299R	56TB2-U 3	56P08-A	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 322R	56TB2-U 3	56P09- 56	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR H	SHEET 99

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA583	56TB2-M 3	56TB2-M 4	0 VDC IMU
*	A 651	56TB2-M 3	56P11-F	0 VDC IMU
*	AA 45	56TB2-M 3	56J11-R2	0 VDC IMU
*	AA582	56TB2-M 3	56TB2-M 2	0 VDC IMU
	AA584	56TB2-M 4	56TB2-M 5	0 VDC IMU
*	A 20	56TB2-M 4	56P01- 78	0 VDC IMU
*	A 601	56TB2-M 4	56TB2-L 4	0 VDC IMU
*	AA583	56TB2-M 4	56TB2-M 3	0 VDC IMU
*	AA591	56TB2-M 4	56TB1-S 3	0 VDC IMU
	AA585	56TB2-M 5	56TB2-M 6	0 VDC IMU
*	AA584	56TB2-M 5	56TB2-M 4	0 VDC IMU
*	AA589	56TB2-M 5	56TB1-N 4	0 VDC IMU
	AA586	56TB2-M 6	56TB2-M 7	0 VDC IMU
	AA592	56TB2-M 6	56TB3-T 3	0 VDC IMU
*	AA585	56TB2-M 6	56TB2-M 5	0 VDC IMU
*	A 654	56TB2-M 7	56P11-E	0 VDC IMU
*	AA460	56TB2-M 7	56J20-G1	0 VDC IMU
*	AA539	56TB2-M 7	56TB2-M 8	0 VDC IMU
*	AA586	56TB2-M 7	56TB2-M 6	0 VDC IMU
	A 87B	56TB2-M 8	SHLD A 87	0 VDC IMU
	A 232B	56TB2-M 8	SHLD A 232	0 VDC IMU
	A 360B	56TB2-M 8	SHLD A 360	0 VDC IMU
	AA506B	56TB2-M 8	SHLD AA506	0 VDC IMU
	AA539	56TB2-M 8	56TB2-M 7	0 VDC IMU
*	A 85R	56TB2-N 1	56J03- 67	OG CDU 1/2X ERROR SIG
*	AA206W	56TB2-N 1	56J16-D5	OG CDU 1/2X ERROR SIG
*	A 23R	56TB2-N 2	56P01- 96	OG CDU 1X ERROR SIG
*	A 86R	56TB2-N 2	56J03- 35	OG CDU 1X ERROR SIG
*	A 366R	56TB2-N 2	56P09- 72	OG CDU 1X ERROR SIG
*	AA 21W	56TB2-N 2	56J11-A3	OG CDU 1X ERROR SIG
*	AA207W	56TB2-N 2	56J16-C6	OG CDU 1X ERROR SIG
	AA571L	56TB2-N 3	56J17-A2	OG CDU 16X ERROR SIG
*	A 89R	56TB2-N 3	56J03-104	OG CDU 16X ERROR SIG
*	A 338R	56TB2-N 3	56P09- 39	OG CDU 16X ERROR SIG
*	AA208R	56TB2-N 3	56J16-C5	OG CDU 16X ERROR SIG
*	A 56	56TB2-N 5	56J01- 30	+28 VDC IMU FOR IG MDA
*	AA210	56TB2-N 5	56J16-S1	+28 VDC IMU FOR IG MDA
*	A 96R	56TB2-N 6	56J03-106	OG CDU MDA TACH SIG
*	AA214R	56TB2-N 6	56J16-A5	OG CDU MDA TACH SIG

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR H	SHEET 97

MIL 2084 4-63

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 597K	56TB2-U 3	56J09- 96	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	AA225W	56TB2-U 3	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 67W	56TB2-U 4	56J02- 86	COS AMG 16X TO CDU
*	AA231L	56TB2-U 4	56J16-G4	COS AMG 16X TO CDU
*	A 67R	56TB2-U 5	56J02-100	COS AMG 16X S3
*	A 219R	56TB2-U 5	56P02-G	COS AMG 16X S3
*	AA231W	56TB2-U 5	56J16-G3	COS AMG 16X S3
*	A 51R	56TB2-U 6	56J01-106	IG CDU MDA TACH SIG
*	AA197R	56TB2-U 6	56J16-A1	IG CDU MDA TACH SIG
*	A 233W	56TB2-U 7	56P03-G	SIN AOG 1X S2
*	A 359R	56TB2-U 7	56P09- 16	SIN AOG 1X S2
*	AA205W	56TB2-U 7	56J16-A8	SIN AOG 1X S2
*	AA505R	56TB2-U 7	56J22-107	SIN AOG 1X S2
*	A 88W	56TB2-U 8	56J03- 7	SIN AOG 1X S4
*	A 233R	56TB2-U 8	56P03-F	SIN AOG 1X S4
*	A 359W	56TB2-U 8	56P09- 17	SIN AOG 1X S4
*	AA205R	56TB2-U 8	56J16-A9	SIN AOG 1X S4
*	AA505L	56TB2-U 8	56J22-139	SIN AOG 1X S4
*	A 597W	56TB2-V 1	56J09- 38	SHAFT CDU MOTOR EXC
*	A 599R	56TB2-V 1	56J04- 3	SHAFT CDU MOTOR EXC
	A 91B	56TB2-V 2	SHLD A 91	0 VDC IMU
	A 218B	56TB2-V 2	SHLD A 218	0 VDC IMU
	AA540	56TB2-V 2	56TB2-V 3	0 VDC IMU
*	AA590	56TB2-V 2	56TB1-D 7	0 VDC IMU
	A 217B	56TB2-V 3	SHLD A 217	0 VDC IMU
	AA596	56TB2-V 3	56TB2-V 4	0 VDC IMU
*	AA540	56TB2-V 3	56TB2-V 2	0 VDC IMU
	A 90B	56TB2-V 4	SHLD A 90	0 VDC IMU
	AA597	56TB2-V 4	56TB2-V 5	0 VDC IMU
*	A 655	56TB2-V 4	56P11-E	0 VDC IMU
*	AA596	56TB2-V 4	56TB2-V 3	0 VDC IMU
	A 67B	56TB2-V 5	SHLD A 67	0 VDC IMU
	A 219B	56TB2-V 5	SHLD A 219	0 VDC IMU
	AA598	56TB2-V 5	56TB2-V 6	0 VDC IMU
*	AA597	56TB2-V 5	56TB2-V 4	0 VDC IMU
	A 43B	56TB2-V 6	SHLD A 43	0 VDC IMU
	A 225B	56TB2-V 6	SHLD A 225	0 VDC IMU
	AA599	56TB2-V 6	56TB2-V 8	0 VDC IMU
*	AA598	56TB2-V 6	56TB2-V 5	0 VDC IMU

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR H	SHEET 100

MIL 2084 4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 200	56TB3-B 3	56J08- 72	CDU FAIL LIGHT HI	
*	A 335	56TB3-B 3	56P09- 47	CDU FAIL LIGHT HI	
*	A 474R	56TB3-B 3	56J10- 4	CDU FAIL LIGHT HI	302
*	A 203	56TB3-B 4	56J08- 41	ZERO ENCODER LIGHT HI	
*	A 346	56TB3-B 4	56P09- 35	ZERO ENCODER LIGHT HI	
*	A 474W	56TB3-B 4	56J10- 3	ZERO ENCODER LIGHT HI	301
*	A 190	56TB3-B 5	56J08- 73	ACCEL FAIL LIGHT HI	
*	A 333	56TB3-B 5	56P09- 49	ACCEL FAIL LIGHT HI	
*	A 474L	56TB3-B 5	56J10- 5	ACCEL FAIL LIGHT HI	303
*	A 209W	56TB3-B 6	56J08- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 448W	56TB3-B 6	56J09- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 374R	56TB3-B 7	56P09- 89	DIRECT SHAFT CONTROLLER HI (TEST)	
*	AA342R	56TB3-B 7	56J18-N4	DIRECT SHAFT CONTROLLER HI (TEST)	
*	A 374W	56TB3-B 8	56P09-102	DIRECT SHAFT CONTROLLER LO (TEST)	
*	AA342W	56TB3-B 8	56J18-M4	DIRECT SHAFT CONTROLLER LO (TEST)	
*	A 377R	56TB3-B 9	56P09-104	SXT SHAFT MDA OUTPUT HI (TEST)	
*	AA392R	56TB3-B 9	56J19-L3	SXT SHAFT MDA OUTPUT HI (TEST)	
*	A 377W	56TB3-B10	56P09-105	SXT SHAFT MDA OUTPUT LO (TEST)	
*	AA392W	56TB3-B10	56J19-K3	SXT SHAFT MDA OUTPUT LO (TEST)	
*	A 394	56TB3-B11	56J09- 72	ZERO OPTICS RELAY CONTROL	
*	AA337	56TB3-B11	56J18-R4	ZERO OPTICS RELAY CONTROL	
*	A 182W	56TB3-B12	56J08- 81	400 CPS 26 V SLEW	
*	A 409W	56TB3-B12	56J09- 81	400 CPS 26 V SLEW	
*	A 182R	56TB3-B13	56J08- 68	400 CPS 26 V MDV RSVR EXC	
*	A 409R	56TB3-B13	56J09- 68	400 CPS 26 V MDV RSVR EXC	
*	A 199	56TB3-B14	56J08- 95	400 CPS 26 V LO	
*	A 460	56TB3-B14	56P10- 49	400 CPS 26 V LO	
	A 664	56TB3-B15	56TB3-T15	0 VDC OPTICS	
	AA514	56TB3-B15	56TB3-C15	0 VDC OPTICS	
*	AA538	56TB3-B15	56TB3-G 9	0 VDC OPTICS	
	AA517W	56TB3-B18	56J22-153	800 CPS 28 V 1 PCT HI IMU	
*	A 318R	56TB3-B18	56P09- 9	800 CPS 28 V 1 PCT HI IMU	
*	AA410W	56TB3-B18	56J20-F5	800 CPS 28 V 1 PCT HI IMU	
	AA517R	56TB3-B19	56J22-120	800 CPS 28 V 1 PCT LO IMU	
*	A 318W	56TB3-B19	56P09- 8	800 CPS 28 V 1 PCT LO IMU	
*	AA410R	56TB3-B19	56J20-F6	800 CPS 28 V 1 PCT LO IMU	
	A 548	56TB3-B20	56E 12	STRUCTURE GND	
	AA613	56TB3-B20	56TB3-B21	STRUCTURE GND	
	AA619	56TB3-B20	56E 68	STRUCTURE GND	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014607
SCALE-NONE | REV LTR H | SHEET 102

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA620	56TB3-B20	56E 69	STRUCTURE GND
*	A 33	56TB3-B20	56P01- 84	STRUCTURE GND
*	A 665	56TB3-B20	56P10- 1	STRUCTURE GND
	AA614	56TB3-B21	56TB3-F21	STRUCTURE GND
*	A 178	56TB3-B21	56J06- 91	STRUCTURE GND
*	A 215	56TB3-B21	56J08- 29	STRUCTURE GND
*	AA613	56TB3-B21	56TB3-B20	STRUCTURE GND
*	A 396	56TB3-C 1	56J09- 98	ACCEL BRIDGE AMP PIN 6
*	AA257	56TB3-C 1	56J17-F7	ACCEL BRIDGE AMP PIN 6
*	A 281R	56TB3-C 2	56P06-F*	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA250R	56TB3-C 2	56J17-P4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 281W	56TB3-C 3	56P06-G*	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 320W	56TB3-C 3	56P09- 34	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 567W	56TB3-C 3	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	AA412R	56TB3-C 3	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 370	56TB3-C 4	56P09- 73	BLOWER CURRENT SENSOR (TELEMETERY)
*	AA271	56TB3-C 4	56J17-F6	BLOWER CURRENT SENSOR (TELEMETERY)
*	A 368	56TB3-C 5	56P09- 85	IRIG TEMP (TELEMETRY)
*	AA273	56TB3-C 5	56J17-F4	IRIG TEMP (TELEMETRY)
*	A 209R	56TB3-C 6	56J08- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 448R	56TB3-C 6	56J09- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 373W	56TB3-C 7	56P09-101	DIRECT TRUNNION CONTROLLER LO (TEST)
*	AA340W	56TB3-C 7	56J18-M1	DIRECT TRUNNION CONTROLLER LO (TEST)
*	A 383W	56TB3-C 8	56P09- 99	TRUNNION CDU MDA LO (TEST)
*	AA341W	56TB3-C 8	56J18-M3	TRUNNION CDU MDA LO (TEST)
*	A 375R	56TB3-C 9	56P09- 90	SXT TRUNNION MDA OUTPUT HI (TEST)
*	AA391R	56TB3-C 9	56J19-L1	SXT TRUNNION MDA OUTPUT HI (TEST)
*	A 375W	56TB3-C10	56P09-103	SXT TRUNNION MDA OUTPUT LO (TEST)
*	AA391W	56TB3-C10	56J19-K1	SXT TRUNNION MDA OUTPUT LO (TEST)
*	A 122W	56TB3-C11	56J04- 32	SHAFT CDU MOTOR CONTROL WINDING
*	AA321	56TB3-C11	56J18-R2	SHAFT CDU MOTOR CONTROL WINDING
*	A 145W	56TB3-C12	56J05- 32	TRUNNION CDU MOTOR CONTROL WINDING
*	AA320	56TB3-C12	56J18-R1	TRUNNION CDU MOTOR CONTROL WINDING
*	A 65R	56TB3-C13	56J02- 21	SIN AMG 1X RET
*	A 222W	56TB3-C13	56P02-N	SIN AMG 1X RET S2
*	A 357R	56TB3-C13	56P09- 15	SIN AMG 1X RET
*	AA507L	56TB3-C13	56J22-144	SIN AMG 1X RET
*	A 65W	56TB3-C14	56J02- 7	SIN AMG 1X
*	A 222R	56TB3-C14	56P02-P	SIN AMG 1X S4

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 88B	56TB2-V 8	SHLD A 88	0 VDC IMU
	A 233B	56TB2-V 8	SHLD A 233	0 VDC IMU
	A 359B	56TB2-V 8	SHLD A 359	0 VDC IMU
	AA505B	56TB2-V 8	SHLD AA505	0 VDC IMU
*	AA599	56TB2-V 8	56TB2-V 6	0 VDC IMU
*	AA635	56TB2-V 8	56TB3-T 3	0 VDC IMU
*	A 55	56TB2-W 1	56J01- 34	IG CDU 1X RSVR LOAD S1
*	AA216	56TB2-W 1	56J16-F2	IG CDU 1X RSVR LOAD
*	A 91R	56TB2-W 2	56J03-101	SIN AOG 16X S4
*	A 218W	56TB2-W 2	56P02-F	SIN AOG 16X S4
*	AA213R	56TB2-W 2	56J16-D9	SIN AOG 16X S4
*	A 217W	56TB2-W 3	56P02-D	COS AOG 16X S1
*	AA209R	56TB2-W 3	56J16-D7	COS AOG 16X S1
*	A 90R	56TB2-W 4	56J03-100	COS AOG 16X S3
*	A 217R	56TB2-W 4	56P02-C	COS AOG 16X S3
*	AA209W	56TB2-W 4	56J16-F7	COS AOG 16X S3
*	A 75R	56TB2-W 5	56J02-106	MG CDU MDA TACH SIG
*	AA202R	56TB2-W 5	56J16-A3	MG CDU MDA TACH SIG
*	A 43R	56TB2-W 6	56J01-100	COS AIG 16X S3
*	A 225R	56TB2-W 6	56P02-W	COS AIG 16X S3
*	AA230W	56TB2-W 6	56J16-G1	COS AIG 16X S3
*	A 43W	56TB2-W 7	56J01- 86	COS AIG 16X TO CDU
*	AA230L	56TB2-W 7	56J16-G2	COS AIG 16X TO CDU
*	A 79	56TB2-X 1	56J02- 34	MG CDU 1X RSVR LOAD
*	AA217	56TB2-X 1	56J16-F4	MG CDU 1X RSVR LOAD
*	A 91W	56TB2-X 2	56J03- 87	SIN AOG 16X TO CDU
*	AA213L	56TB2-X 2	56J16-F9	SIN AOG 16X TO CDU
*	A 218R	56TB2-X 3	56P02-E	SIN AOG 16X S2
*	AA213W	56TB2-X 3	56J16-D8	SIN AOG 16X S2
*	A 90W	56TB2-X 4	56J03- 86	COS AOG 16X TO CDU
*	AA209L	56TB2-X 4	56J16-F8	COS AOG 16X TO CDU
*	A 75L	56TB2-X 5	56J02-105	MG CDU MDA SLEW SIG
*	AA202W	56TB2-X 5	56J16-A4	MG CDU MDA SLEW SIG
	A 75B	56TB2-X 6	SHLD A 75	MG CDU MDA INPUT RET
*	A 75W	56TB2-X 6	56J02- 92	MG CDU MDA INPUT RET
*	AA202L	56TB2-X 6	56J16-B3	MG CDU MDA INPUT RET
*	A 225W	56TB2-X 7	56P02-X	COS AIG 16X S1
*	AA230R	56TB2-X 7	56J16-H1	COS AIG 16X S1

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 357W	56TB3-C14	56P09- 29	SIN AMG 1X
*	AA507R	56TB3-C14	56J22-111	SIN AMG 1X
	AA609	56TB3-C15	56TB3-D15	0 VDC OPTICS
*	A 595	56TB3-C15	56TB3-K20	0 VDC OPTICS
*	A 596	56TB3-C15	56TB3-K22	0 VDC OPTICS
*	A 646	56TB3-C15	56P12-G	0 VDC OPTICS
*	AA514	56TB3-C15	56TB3-B15	0 VDC OPTICS
*	AA566	56TB3-C15	56TB3-K21	0 VDC OPTICS
*	A 300L	56TB3-C16	56P08-G	SCT TRUNNION MOTOR CONTROL WINDING BLK
*	A 376W	56TB3-C16	56P09- 92	SCT TRUNNION MOTOR CONTROL WINDING
*	AA360W	56TB3-C16	56J19-T3	SCT TRUNNION MOTOR CONTROL WINDING
*	A 300W	56TB3-C17	56P08-E	SCT TRUNNION MOTOR CONTROL WINDING RED
*	A 376R	56TB3-C17	56P09- 91	SCT TRUNNION MOTOR CONTROL WINDING
*	AA360R	56TB3-C17	56J19-T2	SCT TRUNNION MOTOR CONTROL WINDING
*	A 246R	56TB3-C18	56P05-P	+28 VDC OPTICS
*	A 259R	56TB3-C18	56P05-B	+28 VDC OPTICS
*	AA515	56TB3-C18	56TB3-M20	+28 VDC OPTICS
*	A 300R	56TB3-C19	56P08-F	+28 VDC OPTICS
*	A 308R	56TB3-C19	56P08-H	+28 VDC OPTICS
*	AA558	56TB3-C19	56TB3-M20	+28 VDC OPTICS
*	A 609	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	A 610	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	A 611	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	AA428	56TB3-C20	56J20-N1	+28 VDC IMU BUSS A
*	AA622	56TB3-C20	56J20-R1	+28 VDC IMU BUSS A
*	A 612	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	A 613	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	A 614	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	AA432	56TB3-C21	56J20-S1	+28 VDC IMU BUSS A
*	AA623	56TB3-C21	56J20-P1	+28 VDC IMU BUSS A
*	A 621	56TB3-C22	56P12-M	+28 VDC STBY BUSS B
*	A 622	56TB3-C22	56P12-M	+28 VDC STBY BUSS B
*	AA443	56TB3-C22	56J20-R4	+28 VDC STBY BUSS B
*	AA627	56TB3-C22	56J20-S4	+28 VDC STBY BUSS B
*	A 439	56TB3-D 1	56J09- 94	0 VDC IMU
*	AA264	56TB3-D 1	56J17-M1	0 VDC IMU
*	A 320R	56TB3-D 2	56P09- 22	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 567R	56TB3-D 2	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA250W	56TB3-D 2	56J17-R4	800 CPS 28 V 5 PCT L-90 DEG HI IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA358R	56TB3-D17	56J19-S2	SXT TRUNNION MOTOR CONTROL WINDING	
*	A 259W	56TB3-D18	56P05-A	SXT SHAFT MOTOR CONTROL WINDING RED	
*	AA359R	56TB3-D18	56J19-P1	SXT SHAFT MOTOR CONTROL WINDING	
	AA526	56TB3-D19	56J21-129	AGC TEMP MONITOR NO 3	173
*	A 371W	56TB3-D19	56P09- 75	AGC TEMP MONITOR NO 3	
*	AA418	56TB3-D19	56J20-B1	AGC TEMP MONITOR NO 3	
*	A 615	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	A 616	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	A 617	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	AA433	56TB3-D20	56J20-N2	+28 VDC IMU BUSS B	
*	AA624	56TB3-D20	56J20-R2	+28 VDC IMU BUSS B	
*	A 618	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	A 619	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	A 620	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	AA437	56TB3-D21	56J20-S2	+28 VDC IMU BUSS B	
*	AA625	56TB3-D21	56J20-P2	+28 VDC IMU BUSS B	
*	A 623	56TB3-D22	56P11-M	+28 VDC STBY BUSS A	
*	A 624	56TB3-D22	56P11-M	+28 VDC STBY BUSS A	
*	AA441	56TB3-D22	56J20-R3	+28 VDC STBY BUSS A	
*	AA626	56TB3-D22	56J20-S3	+28 VDC STBY BUSS A	
*	A 462	56TB3-F 1	56P10- 9	0 VDC SPACECRAFT	
*	AA278	56TB3-F 1	56J17-M3	0 VDC SPACECRAFT	
*	A 28	56TB3-F 3	56P01- 88	CONDITION LAMP TEST	
*	A 390	56TB3-F 3	56J09- 73	CONDITION LAMP TEST	
*	A 464	56TB3-F 3	56J10- 2	CONDITION LAMP TEST	328
*	AA235	56TB3-F 3	56J17-P6	CONDITION LAMP TEST	
	AA518	56TB3-F 4	56J22-190	ATTITUDE CONTROL RELAY CONTROL	
*	A 12	56TB3-F 4	56P01- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 166	56TB3-F 4	56J06- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 243	56TB3-F 5	56P03-J*	GIMBAL LOCK SIGNAL	
*	A 342	56TB3-F 5	56P09- 10	GIMBAL LOCK SIGNAL	
*	A 454	56TB3-F 5	56P10- 12	GIMBAL LOCK SIGNAL	
	A 421B	56TB3-F 7	SHLD A 421	TRUNNION CDU DAC LO	
*	A 421W	56TB3-F 7	56J09- 47	TRUNNION CDU DAC LO	
*	AA344R	56TB3-F 7	56J18-H3	TRUNNION CDU DAC LO	
	A 422B	56TB3-F 8	SHLD A 422	SHAFT CDU DAC LO	
*	A 422W	56TB3-F 8	56J09- 57	SHAFT CDU DAC LO	
*	AA345R	56TB3-F 8	56J18-H2	SHAFT CDU DAC LO	
*	A 130W	56TB3-F10	56J05- 22	TRUNNION CDU 1/4X SIN LO	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 256W	56TB3-F10	56P05-H*	TRUNNION CDU 1/4X SIN LO	
*	AA330R	56TB3-F10	56J18-F2	TRUNNION CDU 1/4X SIN LO	
*	A 427R	56TB3-F11	56J09- 35	SHAFT CDU MDA CONTROLLER SIG HI	
*	AA336W	56TB3-F11	56J18-F6	SHAFT CDU MDA CONTROLLER SIG HI	
	A 427B	56TB3-F12	SHLD A 427	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 427W	56TB3-F12	56J09- 34	SHAFT CDU MDA CONTROLLER SIG LO	
*	AA336R	56TB3-F12	56J18-F7	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 40W	56TB3-F13	56J01- 6	COS AIG 1X RET P1	
*	A 227W	56TB3-F13	56P02-B*	COS AIG 1X RET S1	
*	A 356R	56TB3-F13	56P09- 2	COS AIG 1X RET	
*	AA510L	56TB3-F13	56J22-150	COS AIG 1X RET	
*	A 40R	56TB3-F14	56J01- 20	COS AIG 1X P3	
*	A 227R	56TB3-F14	56P02-A*	COS AIG 1X S3	
*	A 356W	56TB3-F14	56P09- 3	COS AIG 1X	
*	AA510R	56TB3-F14	56J22-151	COS AIG 1X	
*	A 131R	56TB3-F16	56J05- 9	TRUNNION CDU 1/4X COS HI	
*	A 255W	56TB3-F16	56P05-F*	TRUNNION CDU 1/4X COS HI	
*	AA381W	56TB3-F16	56J19-F5	TRUNNION CDU 1/4X COS HI	
*	A 308L	56TB3-F17	56P08-D*	SCT SHAFT MOTOR CONTROL WINDING BLK	
*	A 378W	56TB3-F17	56P09- 77	SCT SHAFT MOTOR CONTROL WINDING	
*	AA361W	56TB3-F17	56J19-R2	SCT SHAFT MOTOR CONTROL WINDING	
*	A 259L	56TB3-F18	56P05-C	SXT SHAFT MOTOR CONTROL WINDING BLK	
*	AA359W	56TB3-F18	56J19-R1	SXT SHAFT MOTOR CONTROL WINDING	
	AA529	56TB3-F19	56J21-162	AGC TEMP MONITOR NO 2	172
*	A 371R	56TB3-F19	56P09- 74	AGC TEMP MONITOR NO 2	
*	AA417	56TB3-F19	56J20-A2	AGC TEMP MONITOR NO 2	
*	A 270	56TB3-F21	56P05-R	STRUCTURE GND	
*	A 288	56TB3-F21	56P06-G	STRUCTURE GND	
*	A 631	56TB3-F21	56P11-L	STRUCTURE GND	
*	AA607	56TB3-F21	56TB3-F22	STRUCTURE GND	
*	AA614	56TB3-F21	56TB3-B21	STRUCTURE GND	
	AA607	56TB3-F22	56TB3-F21	STRUCTURE GND	
*	A 316	56TB3-F22	56P08-T*	STRUCTURE GND	
*	A 451	56TB3-F22	56J09- 91	STRUCTURE GND	
*	A 632	56TB3-F22	56P12-L	STRUCTURE GND	
*	AA462	56TB3-F22	56J20-G4	STRUCTURE GND	
*	A 401R	56TB3-G 1	56J09-100	IMU HTR CURRENT AMP PIN 5	
*	AA258K	56TB3-G 1	56J17-N6	IMU HTR CURRENT AMP PIN 5	
*	A 401K	56TB3-G 2	56J09- 88	IMU TEMP CONT K2 PIN 5	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA412W	56TB3-D 2	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 192	56TB3-D 3	56J08- 62	IMU TEMP CONT FAIL LIGHT HI
*	A 344	56TB3-D 3	56P09- 11	IMU TEMP CONT FAIL LIGHT HI
*	AA275	56TB3-D 3	56J17-P5	IMU TEMP CONT FAIL LIGHT HI
*	A 367	56TB3-D 4	56P09- 98	ACCEL TEMP (TELEMETRY)
*	AA272	56TB3-D 4	56J17-F5	ACCEL TEMP (TELEMETRY)
*	A 369	56TB3-D 5	56P09- 97	HTR CURRENT (TELEMETERY)
*	AA274	56TB3-D 5	56J17-F3	HTR CURRENT (TELEMETRY)
*	A 384	56TB3-D 6	56P09- 84	TEMPERATURE CONTROL SIG LO
*	AA636	56TB3-D 6	56J17-F2	TEMPERATURE CONTROL SIG LO
*	A 373R	56TB3-D 7	56P09-100	DIRECT TRUNNION CONTROLLER HI (TEST)
*	AA340R	56TB3-D 7	56J18-N1	DIRECT TRUNNION CONTROLLER HI (TEST)
*	A 383R	56TB3-D 8	56P09- 86	TRUNNION CDU MDA HI (TEST)
*	AA341R	56TB3-D 8	56J18-N3	TRUNNION CDU MDA HI (TEST)
*	A 372R	56TB3-D 9	56P09- 87	SHAFT CDU MDA (TEST) HI
*	AA343R	56TB3-D 9	56J18-N6	SHAFT CDU MDA (TEST) HI
*	A 372W	56TB3-D10	56P09- 88	SHAFT CDU MDA (TEST) LO
*	AA343W	56TB3-D10	56J18-M6	SHAFT CDU MDA (TEST) LO
*	A 122L	56TB3-D11	56J04- 31	SHAFT CDU MOTOR CONTROL WINDING
*	AA322	56TB3-D11	56J18-P2	SHAFT CDU MOTOR CONTROL WINDING
*	A 145L	56TB3-D12	56J05- 31	TRUNNION CDU MOTOR CONTROL WINDING
*	AA319	56TB3-D12	56J18-P1	TRUNNION CDU MOTOR CONTROL WINDING
*	A 41R	56TB3-D13	56J01- 21	SIN AIG 1X RET P4
*	A 228R	56TB3-D13	56P02-F*	SIN AIG 1X RET S2
*	A 355R	56TB3-D13	56P09- 1	SIN AIG 1X RET
*	AA509L	56TB3-D13	56J22-116	SIN AIG 1X RET
*	A 41W	56TB3-D14	56J01- 7	SIN AIG 1X P2
*	A 228W	56TB3-D14	56P02-G*	SIN AIG 1X S4
*	A 355W	56TB3-D14	56P09- 14	SIN AIG 1X
*	AA509R	56TB3-D14	56J22-148	SIN AIG 1X
	A 593	56TB3-D15	56TB3-L20	0 VDC OPTICS
	AA630	56TB3-D15	56TB3-G15	0 VDC OPTICS
*	A 594	56TB3-D15	56TB3-L22	0 VDC OPTICS
*	A 643	56TB3-D15	56P11-G	0 VDC OPTICS
*	AA563	56TB3-D15	56TB3-L21	0 VDC OPTICS
*	AA609	56TB3-D15	56TB3-C15	0 VDC OPTICS
*	A 246L	56TB3-D16	56P05-J*	SXT TRUNNION MOTOR CONTROL WINDING BLK
*	AA358W	56TB3-D16	56J19-S3	SXT TRUNNION MOTOR CONTROL WINDING
*	A 246W	56TB3-D17	56P05-I*	SXT TRUNNION MOTOR CONTROL WINDING RED

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA258L	56TB3-G 2	56J17-N5	IMU TEMP CONT K2 PIN 5	
*	A 443	56TB3-G 3	56J09- 89	IRIG ZERO DEVIATION CHECK	
*	AA253	56TB3-G 3	56J17-B8	IRIG ZERO DEVIATION CHECK	
*	A 442	56TB3-G 4	56J09- 85	IRIG TEMP BRIDGE AMP PIN 6	
*	AA254	56TB3-G 4	56J17-C7	IRIG TEMP BRIDGE AMP PIN 6	
*	A 274	56TB3-G 5	56P06-K	IMU TEMP SENSOR COM	
*	AA277	56TB3-G 5	56J17-M2	IMU TEMP SENSOR COM	
*	A 421R	56TB3-G 7	56J09- 56	TRUNNION CDU DAC OUTPUT HI	
*	AA344W	56TB3-G 7	56J18-G3	TRUNNION CDU DAC OUTPUT HI	
*	A 422R	56TB3-G 8	56J09- 48	SHAFT CDU DAC OUTPUT HI	
*	AA345W	56TB3-G 8	56J18-G2	SHAFT CDU DAC OUTPUT HI	
	A 130B	56TB3-G 9	SHLD A 130	0 VDC OPTICS	
	A 256B	56TB3-G 9	SHLD A 256	0 VDC OPTICS	
	AA538	56TB3-G 9	56TB3-B15	0 VDC OPTICS	
	AA541	56TB3-G 9	56TB3-H 9	0 VDC OPTICS	
*	A 130R	56TB3-G10	56J05- 8	TRUNNION CDU 1/4X SIN HI	
*	A 256R	56TB3-G10	56P05-G*	TRUNNION CDU 1/4X SIN HI	
*	AA330W	56TB3-G10	56J18-F1	TRUNNION CDU 1/4X SIN HI	
*	A 426R	56TB3-G11	56J09- 19	TRUNNION CDU MDA CONTROLLER SIG HI	
*	AA335W	56TB3-G11	56J18-C7	TRUNNION CDU MDA CONTROLLER SIG HI	
	A 426B	56TB3-G12	SHLD A 426	TRUNNION CDU MDA CONTROLLER SIG LO	
*	A 426W	56TB3-G12	56J09- 33	TRUNNION CDU MDA CONTROLLER SIG LO	
*	AA335R	56TB3-G12	56J18-D7	TRUNNION CDU MDA CONTROLLER SIG LO	
*	A 111R	56TB3-G13	56J04- 7	SHAFT CDU 1X SIN OUTPUT LO	
*	AA334R	56TB3-G13	56J18-D6	SHAFT CDU 1X SIN OUTPUT LO	
*	A 111W	56TB3-G14	56J04- 21	SHAFT CDU 1X SIN OUTPUT HI	
*	AA334W	56TB3-G14	56J18-C6	SHAFT CDU 1X SIN OUTPUT HI	
	A 111B	56TB3-G15	SHLD A 111	0 VDC OPTICS	
	AA550	56TB3-G15	56TB3-H15	0 VDC OPTICS	
*	AA630	56TB3-G15	56TB3-D15	0 VDC OPTICS	
*	A 131W	56TB3-G16	56J05- 10	TRUNNION CDU 1/4X COS LO	
*	A 255R	56TB3-G16	56P05-E*	TRUNNION CDU 1/4X COS LO	
*	AA381R	56TB3-G16	56J19-F6	TRUNNION CDU 1/4X COS LO	
*	A 308W	56TB3-G17	56P08-C*	SCT SHAFT MOTOR CONTROL WINDING RED	
*	A 378R	56TB3-G17	56P09- 76	SCT SHAFT MOTOR CONTROL WINDING	
*	AA361R	56TB3-G17	56J19-P2	SCT SHAFT MOTOR CONTROL WINDING	
*	A 404	56TB3-G18	56J09- 59	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
*	AA387	56TB3-G18	56J19-M6	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
	AA530	56TB3-G19	56J21-196	AGC TEMP MONITOR NO 1	171

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 228B	56TB3-H13	SHLD A 228	0 VDC IMU
	A 355B	56TB3-H13	SHLD A 355	0 VDC IMU
	AA509B	56TB3-H13	SHLD AA509	0 VDC IMU
	AA554	56TB3-H13	56TB3-H14	0 VDC IMU
*	AA513	56TB3-H13	56TB3-H12	0 VDC IMU
	A 40B	56TB3-H14	SHLD A 40	0 VDC IMU
	A 227B	56TB3-H14	SHLD A 227	0 VDC IMU
	A 356B	56TB3-H14	SHLD A 356	0 VDC IMU
	AA508B	56TB3-H14	SHLD AA508	0 VDC IMU
	AA510B	56TB3-H14	SHLD AA510	0 VDC IMU
*	AA554	56TB3-H14	56TB3-H13	0 VDC IMU
	A 255B	56TB3-H15	SHLD A 255	0 VDC OPTICS
	A 263B	56TB3-H15	SHLD A 263	0 VDC OPTICS
	A 304B	56TB3-H15	SHLD A 304	0 VDC OPTICS
	AA551	56TB3-H15	56TB3-K15	0 VDC OPTICS
*	AA550	56TB3-H15	56TB3-G15	0 VDC OPTICS
*	A 263R	56TB3-H16	56P05-HH	SXT SHAFT 1/2X RSVR ERROR HI
*	AA375W	56TB3-H16	56J19-A5	SXT SHAFT 1/2X RSVR ERROR HI
*	A 263W	56TB3-H17	56P05-BB	SXT SHAFT 1/2X RSVR ERROR LO
*	AA375R	56TB3-H17	56J19-B5	SXT SHAFT 1/2X RSVR ERROR LO
*	A 283W	56TB3-H19	56P06-E*	IMU PRESSURE MONITOR LO
*	A 379W	56TB3-H19	56P09- 53	IMU PRESSURE MONITOR LO
*	AA415	56TB3-H19	56J20-B4	IMU PRESSURE MONITOR LO
*	A 328	56TB3-H20	56P09- 65	+28 VDC OPTICS
*	AA406	56TB3-H20	56J20-N6	+28 VDC OPTICS
*	A 625	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	A 626	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	A 627	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	AA446	56TB3-H21	56J20-P5	+28 VDC OPTICS BUSS A
*	AA449	56TB3-H21	56J20-S5	+28 VDC OPTICS BUSS A
*	AA628	56TB3-H21	56J20-R5	+28 VDC OPTICS BUSS A
*	A 628	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B
*	A 629	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B
*	A 630	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B
*	AA450	56TB3-H22	56J20-P6	+28 VDC OPTICS BUSS B
*	AA453	56TB3-H22	56J20-S6	+28 VDC OPTICS BUSS B
*	AA629	56TB3-H22	56J20-R6	+28 VDC OPTICS BUSS B
*	A 438	56TB3-K 1	56J09- 92	IMU TEMP ALARM AMP PIN 5
*	AA260	56TB3-K 1	56J17-H2	IMU TEMP ALARM AMP PIN 5

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 446	56TB3-K 2	56J09-105	IMU TEMP ALARM BIAS RESISTOR
*	AA259	56TB3-K 2	56J17-H1	IMU TEMP ALARM BIAS RESISTOR
*	A 286	56TB3-K 3	56P06-A*	IRIG TEMP IND SENSOR RET
*	AA266	56TB3-K 3	56J17-C5	IRIG TEMP IND SENSOR RET
*	A 391	56TB3-K 4	56J09- 21	TRUNNION ENCODER PIN 9
*	AA286	56TB3-K 4	56J17-B9	TRUNNION ENCODER PIN 9
*	A 444	56TB3-K 5	56J09- 75	IMU TEMP ALARM AMP PIN 14
*	AA261	56TB3-K 5	56J17-G1	IMU TEMP ALARM AMP PIN 14
*	A 210R	56TB3-K 6	56J08- 35	400 CPS 0.5 V ZERO PHASE
*	A 459R	56TB3-K 6	56P10- 38	400 CPS 0.5 V ZERO PHASE
*	A 110R	56TB3-K 7	56J04- 6	SHAFT CDU 1X COS OUTPUT HI
*	AA338R	56TB3-K 7	56J18-D4	SHAFT CDU 1X COS OUTPUT HI
*	A 110W	56TB3-K 8	56J04- 20	SHAFT CDU 1X COS OUTPUT LO
*	AA338W	56TB3-K 8	56J18-D5	SHAFT CDU 1X COS OUTPUT LO
	A 110B	56TB3-K 9	SHLD A 110	0 VDC OPTICS
	A 262B	56TB3-K 9	SHLD A 262	0 VDC OPTICS
	A 312B	56TB3-K 9	SHLD A 312	0 VDC OPTICS
	AA331B	56TB3-K 9	SHLD AA331	0 VDC OPTICS
	AA543	56TB3-K 9	56TB3-L 9	0 VDC OPTICS
*	AA542	56TB3-K 9	56TB3-H 9	0 VDC OPTICS
*	A 107W	56TB3-K10	56J04- 67	SHAFT CDU 1/2X SIN HI S1
*	A 262R	56TB3-K10	56P05-Y*	SHAFT CDU 1/2X SIN HI P1
*	A 312W	56TB3-K10	56P08-J*	SHAFT CDU 1/2X SIN HI S1
*	AA332W	56TB3-K10	56J18-G1	SHAFT CDU 1/2X SIN HI S1
*	A 107R	56TB3-K11	56J04- 57	SHAFT CDU 1/2X SIN LO S3
*	A 262W	56TB3-K11	56P05-Z*	SHAFT CDU 1/2X SIN LO P3
*	A 312R	56TB3-K11	56P08-K*	SHAFT CDU 1/2X SIN LO P1
*	AA332R	56TB3-K11	56J18-H1	SHAFT CDU 1/2X SIN LO S3
*	A 148W	56TB3-K12	56J05- 66	TRUNNION CDU 1/2X RSVR LOAD LO
*	AA318R	56TB3-K12	56J18-F4	TRUNNION CDU 1/2X RSVR LOAD LO
*	A 282W	56TB3-K13	56P06-C*	PRESSURE SENSOR +28 VDC LO
*	AA464W	56TB3-K13	56J20-B6	PRESSURE SENSOR +28 VDC LO
*	A 607W	56TB3-K14	56P10- 68	400 CPS 115 V LO
*	A 608W	56TB3-K14	56P11-K	400 CPS 115 V LO
*	AA465W	56TB3-K14	56J20-G3	400 CPS 115 V LO
	A 131B	56TB3-K15	SHLD A 131	0 VDC OPTICS
	AA552	56TB3-K15	56TB3-L15	0 VDC OPTICS
*	A 303	56TB3-K15	56P08-R	0 VDC OPTICS
*	A 315	56TB3-K15	56P08-B*	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 371L	56TB3-G19	56P09- 64	AGC TEMP MONITOR NO 1
*	AA416	56TB3-G19	56J20-A1	AGC TEMP MONITOR NO 1
*	A 633	56TB3-G21	56P11-A	+28 VDC AGC BUSS A
*	AA420	56TB3-G21	56J20-K5	+28 VDC AGC BUSS A
*	A 636	56TB3-G22	56P12-A	+28 VDC AGC BUSS B
*	AA421	56TB3-G22	56J20-K6	+28 VDC AGC BUSS B
*	A 401L	56TB3-H 1	56J09- 87	IMU TEMP CONT AMP PIN 5
*	AA258R	56TB3-H 1	56J17-M6	IMU TEMP CONT AMP PIN 5
*	A 401W	56TB3-H 2	56J09-101	IMU TEMP CONT K1 PIN 3
*	AA258W	56TB3-H 2	56J17-M5	IMU TEMP CONT K1 PIN 3
*	A 399	56TB3-H 3	56J09-102	IMU TEMP CONT -5 DEG GAIN CHECK
*	AA252	56TB3-H 3	56J17-B7	IMU TEMP CONT -5 DEG GAIN CHECK
*	A 280	56TB3-H 4	56P06-Z	IRIG TEMP IND SENSOR HI
*	AA276	56TB3-H 4	56J17-C6	IRIG TEMP IND SENSOR HI
*	A 403	56TB3-H 5	56J09- 74	IMU TEMP ALARM AMP PIN 15
*	AA262	56TB3-H 5	56J17-G2	IMU TEMP ALARM AMP PIN 15
*	A 181	56TB3-H 6	56J08- 66	MDV SLEW CONTROL 0.5 V 400 CPS
*	A 408	56TB3-H 6	56J09- 66	MDV SLEW CONTROL 0.5 V 400 CPS
*	A 135W	56TB3-H 7	56J05- 90	TRUNNION CDU 16X ERROR SIG LO
*	AA329R	56TB3-H 7	56J19-B2	TRUNNION CDU 16X ERROR SIG LO
*	A 135R	56TB3-H 8	56J05-104	TRUNNION CDU 16X ERROR SIG HI
*	AA329L	56TB3-H 8	56J19-C2	TRUNNION CDU 16X ERROR SIG HI
	A 107B	56TB3-H 9	SHLD A 107	0 VDC OPTICS
	A 112B	56TB3-H 9	SHLD A 112	0 VDC OPTICS
	A 135B	56TB3-H 9	SHLD A 135	0 VDC OPTICS
	AA329B	56TB3-H 9	SHLD AA329	0 VDC OPTICS
	AA542	56TB3-H 9	56TB3-K 9	0 VDC OPTICS
*	AA541	56TB3-H 9	56TB3-G 9	0 VDC OPTICS
*	A 112R	56TB3-H10	56J04-104	SHAFT CDU 16X ERROR SIG HI
*	AA331L	56TB3-H10	56J19-B4	SHAFT CDU 16X ERROR SIG HI
*	A 112W	56TB3-H11	56J04- 90	SHAFT CDU 16X ERROR SIG LO
*	AA331R	56TB3-H11	56J19-B3	SHAFT CDU 16X ERROR SIG LO
	A 65B	56TB3-H12	SHLD A 65	0 VDC IMU
	A 222B	56TB3-H12	SHLD A 222	0 VDC IMU
	A 357B	56TB3-H12	SHLD A 357	0 VDC IMU
	AA466	56TB3-H12	56TB3-R 3	0 VDC IMU
	AA507B	56TB3-H12	SHLD AA507	0 VDC IMU
	AA513	56TB3-H12	56TB3-H13	0 VDC IMU
	A 41B	56TB3-H13	SHLD A 41	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA551	56TB3-K15	56TB3-H15	0 VDC OPTICS
*	A 304W	56TB3-K16	56P08-S	SCT TRUNNION 1X RSVR ERROR HI
*	AA377W	56TB3-K16	56J19-B7	SCT TRUNNION 1X RSVR ERROR HI
*	A 304R	56TB3-K17	56P08-T	SCT TRUNNION 1X RSVR ERROR LO
*	AA377R	56TB3-K17	56J19-B8	SCT TRUNNION 1X RSVR ERROR LO
*	A 405	56TB3-K18	56J09- 58	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	AA388	56TB3-K18	56J19-M5	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	A 283R	56TB3-K19	56P06-D*	IMU PRESSURE MONITOR HI
*	A 379R	56TB3-K19	56P09- 42	IMU PRESSURE MONITOR HI
*	AA414	56TB3-K19	56J20-A4	IMU PRESSURE MONITOR HI
	A 595	56TB3-K20	56TB3-C15	0 VDC OPTICS
*	A 644	56TB3-K20	56P11-G	0 VDC OPTICS
*	AA325	56TB3-K20	56J18-S3	0 VDC OPTICS
*	AA327	56TB3-K20	56J18-T3	0 VDC OPTICS
*	AA333	56TB3-K20	56J18-R3	0 VDC OPTICS
	AA566	56TB3-K21	56TB3-C15	0 VDC OPTICS
*	A 249	56TB3-K21	56P05-S	0 VDC OPTICS
*	A 250	56TB3-K21	56P05-T	0 VDC OPTICS
*	AA390	56TB3-K21	56J19-R4	0 VDC OPTICS
*	AA393	56TB3-K21	56J19-P5	0 VDC OPTICS
	A 596	56TB3-K22	56TB3-C15	0 VDC OPTICS
*	A 647	56TB3-K22	56P12-G	0 VDC OPTICS
*	AA364	56TB3-K22	56J19-S4	0 VDC OPTICS
*	AA369	56TB3-K22	56J19-S5	0 VDC OPTICS
*	AA408	56TB3-K22	56J20-N3	0 VDC OPTICS
*	A 2	56TB3-L 1	56P01- 65	IRIG TEMP GAIN SWITCH NC
*	A 398	56TB3-L 1	56J09- 86	IRIG TEMP GAIN SWITCH NC
*	AA290	56TB3-L 1	56J17-C8	IRIG TEMP GAIN SWITCH NC
*	A 32	56TB3-L 2	56P01- 55	IMU TD RELAY NO
*	AA249	56TB3-L 2	56J17-F8	IMU TD RELAY NO
*	A 275W	56TB3-L 3	56P06-L	IRIG TEMP CONT SENSOR RET
*	AA268	56TB3-L 3	56J17-B5	IRIG TEMP CONT SENSOR RET
*	A 275R	56TB3-L 4	56P06-M	IRIG TEMP CONT SENSOR HI
*	AA267	56TB3-L 4	56J17-B6	IRIG TEMP CONT SENSOR HI
*	A 400	56TB3-L 5	56J09- 76	IMU TEMP CONT K2 PIN 6
*	AA263	56TB3-L 5	56J17-L1	IMU TEMP CONT K2 PIN 6
*	A 210W	56TB3-L 6	56J08- 45	400 CPS 0.5 V PI PHASE
*	A 459W	56TB3-L 6	56P10- 39	400 CPS 0.5 V PI PHASE
*	A 121R	56TB3-L 7	56J04-106	SHAFT CDU TACH HI

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA282	56TB3-L21	56J17-R6	0 VDC OPTICS
*	AA407	56TB3-L21	56J20-N4	0 VDC OPTICS
	A 594	56TB3-L22	56TB3-D15	0 VDC OPTICS
*	A 429	56TB3-L22	56J09- 1	0 VDC OPTICS
*	AA365	56TB3-L22	56J19-T4	0 VDC OPTICS
*	AA367	56TB3-L22	56J19-T6	0 VDC OPTICS
*	A 285	56TB3-M 1	56P06-P	ACCEL TEMP IND SENSOR RET
*	AA269	56TB3-M 1	56J17-D5	ACCEL TEMP IND SENSOR RET
*	A 31	56TB3-M 2	56P01- 45	IMU TD RELAY C
*	AA251	56TB3-M 2	56J17-D8	IMU TD RELAY C
*	A 392	56TB3-M 3	56J09- 2	TRUNNION ENCODER PIN 8
*	AA285	56TB3-M 3	56J17-A9	TRUNNION ENCODER PIN 8
*	A 397	56TB3-M 4	56J09-104	ACCEL ZERO DEVIATION CHECK
*	AA256	56TB3-M 4	56J17-D7	ACCEL ZERO DEVIATION CHECK
*	A 441	56TB3-M 5	56J09-103	IMU IMU TEMP CONT +5 DEG GAIN CHECK
*	AA255	56TB3-M 5	56J17-D6	IMU IMU TEMP CONT +5 DEG GAIN CHECK
*	A 188	56TB3-M 6	56J08- 60	IMU FAIL LIGHT HI
*	A 334	56TB3-M 6	56P09- 48	IMU FAIL LIGHT HI
*	A 465	56TB3-M 6	56J10- 6	IMU FAIL LIGHT HI
*	A 144W	56TB3-M 7	56J05- 92	TRUNNION CDU TACH LO
*	AA315R	56TB3-M 7	56J18-B9	TRUNNION CDU TACH LO
*	A 144R	56TB3-M 8	56J05-106	TRUNNION CDU TACH HI
*	AA315L	56TB3-M 8	56J18-A9	TRUNNION CDU TACH HI
	A 144B	56TB3-M 9	SHLD A 144	0 VDC OPTICS
	A 425B	56TB3-M 9	SHLD A 425	0 VDC OPTICS
	AA315B	56TB3-M 9	SHLD AA315	0 VDC OPTICS
	AA545	56TB3-M 9	56TB3-N 9	0 VDC OPTICS
*	AA544	56TB3-M 9	56TB3-L 9	0 VDC OPTICS
*	A 425R	56TB3-M10	56J09- 10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
*	AA326W	56TB3-M10	56J18-D8	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
*	A 425W	56TB3-M11	56J09- 23	RSVR DRIVE AMP INPUT LO
*	AA326L	56TB3-M11	56J18-F9	RSVR DRIVE AMP INPUT LO
*	A 425L	56TB3-M12	56J09- 24	RSVR DRIVE AMP SHAFT SIG (RSVD) HI
*	AA326R	56TB3-M12	56J18-F8	RSVR DRIVE AMP SHAFT SIG (RSVD) HI
*	A 237W	56TB3-M13	56P03-P	PITCH ERROR BODY AND BODY OFFSET AXIS LO
*	AA289W	56TB3-M13	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
*	A 237R	56TB3-M14	56P03-R	PITCH-YAW RSVR S4
*	AA289R	56TB3-M14	56J17-C2	PITCH-YAW RSVR S4
	A 254B	56TB3-M15	SHLD A 254	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 309B	56TB3-M15	SHLD A 309	0 VDC OPTICS
	A 310B	56TB3-M15	SHLD A 310	0 VDC OPTICS
	AA534	56TB3-M15	56TB3-N15	0 VDC OPTICS
*	AA533	56TB3-M15	56TB3-L15	0 VDC OPTICS
*	A 254R	56TB3-M16	56P05-C*	SXT TRUNNION 1X RSVR ERROR HI
*	AA374W	56TB3-M16	56J19-D1	SXT TRUNNION 1X RSVR ERROR HI
*	A 254W	56TB3-M17	56P05-D*	SXT TRUNNION 1X RSVR ERROR LO
*	AA374R	56TB3-M17	56J19-D2	SXT TRUNNION 1X RSVR ERROR LO
*	A 113	56TB3-M18	56J04- 89	SHAFT CDU 16X LOAD
*	AA385	56TB3-M18	56J19-C4	SHAFT CDU 16X LOAD
	AA525	56TB3-M19	56J21- 96	+3 VDC AGC
*	A 381	56TB3-M19	56P09- 54	+3 VDC AGC
*	AA426	56TB3-M19	56J20-D6	+3 VDC AGC
	AA515	56TB3-M20	56TB3-C18	+28 VDC OPTICS
	AA558	56TB3-M20	56TB3-C19	+28 VDC OPTICS
*	A 122R	56TB3-M20	56J04- 43	+28 VDC OPTICS
*	A 145R	56TB3-M20	56J05- 43	+28 VDC OPTICS
*	A 445	56TB3-M20	56J09- 71	+28 VDC OPTICS
*	AA457	56TB3-M20	56J20-M6	+28 VDC OPTICS
*	A 29	56TB3-M21	56P01- 89	+28 VDC MDV
*	AA280	56TB3-M21	56J17-R5	+28 VDC MDV
*	AA405	56TB3-M21	56J20-M5	+28 VDC MDV
*	A 435	56TB3-M22	56J09- 51	+28 VDC MDV
*	A 507	56TB3-M22	56J10- 8	+28 VDC MDV
*	AA 82	56TB3-M22	56J12-L1	+28 VDC MDV
*	AA404	56TB3-M22	56J20-L5	+28 VDC MDV
*	A 279R	56TB3-N 1	56P06-X	IMU EMERGENCY HTR HI
*	AA265L	56TB3-N 1	56J17-M4	IMU EMERGENCY HTR HI
*	A 279W	56TB3-N 2	56P06-R	EMERGENCY HTR LO-OPER AND STBY
*	AA265R	56TB3-N 2	56J17-N4	EMERGENCY HTR LO-OPER AND STBY
	A 279B	56TB3-N 3	SHLD A 279	0 VDC IMU
	AA270B	56TB3-N 3	SHLD AA270	0 VDC IMU
*	A 592	56TB3-N 3	56TB3-R 3	0 VDC IMU
*	A 653	56TB3-N 3	56P11-F	0 VDC IMU
*	AA295	56TB3-N 3	56J17-S3	0 VDC IMU
*	A 278W	56TB3-N 4	56P06-W	IMU CONTROL HTR LO
*	AA270L	56TB3-N 4	56J17-N1	IMU CONTROL HTR LO
*	A 278R	56TB3-N 5	56P06-V	IMU CONTROL HTR HI
*	AA270R	56TB3-N 5	56J17-P1	IMU CONTROL HTR HI

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA316L	56TB3-L 7	56J18-A8	SHAFT CDU TACH HI
*	A 121W	56TB3-L 8	56J04- 92	SHAFT CDU TACH LO
*	AA316R	56TB3-L 8	56J18-A7	SHAFT CDU TACH LO
	A 121B	56TB3-L 9	SHLD A 121	0 VDC OPTICS
	A 132B	56TB3-L 9	SHLD A 132	0 VDC OPTICS
	AA316B	56TB3-L 9	SHLD AA316	0 VDC OPTICS
	AA544	56TB3-L 9	56TB3-M 9	0 VDC OPTICS
*	AA543	56TB3-L 9	56TB3-K 9	0 VDC OPTICS
*	A 132R	56TB3-L10	56J05- 12	TRUNNION CDU 1/2X RSVR P2
*	AA317W	56TB3-L10	56J18-A6	TRUNNION CDU 1/2X RSVR P2
*	A 132W	56TB3-L11	56E 18	TRUNNION CDU 1/2X RSVR P3
*	AA317R	56TB3-L11	56J18-B6	TRUNNION CDU 1/2X RSVR P3
*	A 148R	56TB3-L12	56J05- 56	TRUNNION CDU 1/2X RSVR LOAD HI
*	AA318W	56TB3-L12	56J18-F3	TRUNNION CDU 1/2X RSVR LOAD HI
*	A 282R	56TB3-L13	56P06-B*	PRESSURE SENSOR +28 VDC HI
*	AA464R	56TB3-L13	56J20-A6	PRESSURE SENSOR +28 VDC HI
*	A 607R	56TB3-L14	56P10- 69	400 CPS 115 V HI
*	A 608R	56TB3-L14	56P11-N	400 CPS 115 V HI
*	AA465R	56TB3-L14	56J20-H3	400 CPS 115 V HI
	AA533	56TB3-L15	56TB3-M15	0 VDC OPTICS
*	A 436	56TB3-L15	56J09- 83	0 VDC OPTICS
*	AA552	56TB3-L15	56TB3-K15	0 VDC OPTICS
*	A 310R	56TB3-L16	56P08-G*	SCT SHAFT 1/2X RSVR ERROR LO
*	AA379R	56TB3-L16	56J19-C8	SCT SHAFT 1/2X RSVR ERROR LO
*	A 310W	56TB3-L17	56P08-I*	SCT SHAFT 1/2X RSVR ERROR HI
*	AA379W	56TB3-L17	56J19-D8	SCT SHAFT 1/2X RSVR ERROR HI
*	A 428	56TB3-L18	56J09- 99	COSECANT RELAY CONTROL
*	AA389	56TB3-L18	56J19-N5	COSECANT RELAY CONTROL
	AA521	56TB3-L19	56J21- 62	+13 VDC AGC
*	A 380	56TB3-L19	56P09- 62	+13 VDC AGC
*	AA425	56TB3-L19	56J20-C6	+13 VDC AGC
*	A 593	56TB3-L20	56TB3-D15	0 VDC OPTICS
*	A 648	56TB3-L20	56P12-G	0 VDC OPTICS
*	AA 66	56TB3-L20	56J12-R6	0 VDC OPTICS
*	AA228	56TB3-L20	56J16-R5	0 VDC OPTICS
*	AA229	56TB3-L20	56J16-R6	0 VDC OPTICS
	AA563	56TB3-L21	56TB3-D15	0 VDC OPTICS
*	A 329	56TB3-L21	56P09- 66	0 VDC OPTICS
*	A 645	56TB3-L21	56P11-G	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 277	56TB3-N 6	56P06-Y	EMERG HTR CONT MODULE LO
*	A 402	56TB3-N 6	56J09- 90	EMERG HTR CONT MODULE LO
*	A 114R	56TB3-N 7	56J04-100	SHAFT CDU 16X RSVR COS LO P3
*	AA313R	56TB3-N 7	56J18-A5	SHAFT CDU 16X RSVR COS LO P3
*	A 114W	56TB3-N 8	56J04- 86	SHAFT CDU 16X RSVR COS HI P1
*	AA313W	56TB3-N 8	56J18-A4	SHAFT CDU 16X RSVR COS HI P1
	A 114B	56TB3-N 9	SHLD A 114	0 VDC OPTICS
	A 115B	56TB3-N 9	SHLD A 115	0 VDC OPTICS
	AA308B	56TB3-N 9	SHLD AA308	0 VDC OPTICS
	AA546	56TB3-N 9	56TB3-R 9	0 VDC OPTICS
*	AA545	56TB3-N 9	56TB3-M 9	0 VDC OPTICS
*	A 115W	56TB3-N10	56J04- 87	SHAFT CDU 16X RSVR SIN HI P2
*	AA314W	56TB3-N10	56J18-B5	SHAFT CDU 16X RSVR SIN HI P2
*	A 115R	56TB3-N11	56J04-101	SHAFT CDU 16X RSVR SIN LO P4
*	AA314R	56TB3-N11	56J18-C5	SHAFT CDU 16X RSVR SIN LO P4
*	A 108R	56TB3-N13	56J04- 66	SHAFT CDU 1/2X COS LO S4
*	A 261R	56TB3-N13	56P05-W*	SHAFT CDU 1/2X COS LO P4
*	A 313W	56TB3-N13	56P08-M*	SHAFT CDU 1/2X COS LO P2
*	AA396R	56TB3-N13	56J19-D6	SHAFT CDU 1/2X COS LO S4
*	A 108W	56TB3-N14	56J04- 56	SHAFT CDU 1/2X COS HI S2
*	A 261W	56TB3-N14	56P05-X*	SHAFT CDU 1/2X COS HI P2
*	A 313R	56TB3-N14	56P08-N*	SHAFT CDU 1/2X COS HI P4
*	AA396W	56TB3-N14	56J19-D5	SHAFT CDU 1/2X COS HI S2
	A 108B	56TB3-N15	SHLD A 108	0 VDC OPTICS
	AA535	56TB3-N15	56TB3-R15	0 VDC OPTICS
*	AA534	56TB3-N15	56TB3-M15	0 VDC OPTICS
*	A 309R	56TB3-N16	56P08-E*	SCT SHAFT TACH HI
*	AA373W	56TB3-N16	56J19-B9	SCT SHAFT TACH HI
*	A 309W	56TB3-N17	56P08-F*	SCT SHAFT TACH LO
*	AA373R	56TB3-N17	56J19-C9	SCT SHAFT TACH LO
*	A 136	56TB3-N18	56J05- 89	TRUNNION CDU 16X LOAD
*	AA384	56TB3-N18	56J19-C3	TRUNNION CDU 16X LOAD
	AA522	56TB3-N19	56J21- 63	0 VDC AGC
*	A 331	56TB3-N19	56P09- 18	0 VDC AGC
*	A 382	56TB3-N19	56P09- 63	0 VDC AGC
*	AA424	56TB3-N19	56J20-K4	0 VDC AGC
*	A 64R	56TB3-N20	56J02- 20	COS AMG 1X S3
*	A 221R	56TB3-N20	56P02-L	COS AMG 1X S3
*	A 358R	56TB3-N20	56P09- 28	COS AMG 1X S3

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MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A | 1014607

SCALE-NONE | REV LTR H | SHEET 116

MIL 2084 4-63

INCHES
0 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA386R	56TB3-R14	56J19-F8	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	A 134B	56TB3-R15	SHLD A 134	0 VDC OPTICS
	A 261B	56TB3-R15	SHLD A 261	0 VDC OPTICS
	A 313B	56TB3-R15	SHLD A 313	0 VDC OPTICS
	AA553	56TB3-R15	56TB3-S15	0 VDC OPTICS
*	AA535	56TB3-R15	56TB3-N15	0 VDC OPTICS
*	A 302W	56TB3-R16	56P08-P	SCT TRUNNION TACH LO
*	AA372R	56TB3-R16	56J19-A8	SCT TRUNNION TACH LO
*	A 302R	56TB3-R17	56P08-N	SCT TRUNNION TACH HI
*	AA372W	56TB3-R17	56J19-A9	SCT TRUNNION TACH HI
*	A 305	56TB3-R18	56P08-U	SCT TRUNNION 1X RSVR LOAD
*	AA378	56TB3-R18	56J19-A7	SCT TRUNNION 1X RSVR LOAD
*	A 386W	56TB3-R19	56P09- 7	+2.5 VDC CONDITIONING HI
*	AA463W	56TB3-R19	56J20-D5	+2.5 VDC CONDITIONING HI
*	A 330	56TB3-R20	56P09- 4	+28 VDC AGC
*	AA422	56TB3-R20	56J20-H4	+28 VDC AGC
	A 236B	56TB3-S 3	SHLD A 236	0 VDC IMU
	AA265B	56TB3-S 3	SHLD AA265	0 VDC IMU
*	A 657	56TB3-S 3	56P12-D	0 VDC IMU
*	AA296	56TB3-S 3	56J17-S1	0 VDC IMU
*	AA631	56TB3-S 3	56TB3-R 3	0 VDC IMU
*	A 116L	56TB3-S 4	56J04-108	SHAFT CDU ENCODER PHASE 2
*	AA284L	56TB3-S 4	56J17-F9	SHAFT CDU ENCODER PHASE 2
	A 116B	56TB3-S 5	SHLD A 116	SHAFT CDU ENCODER COM
*	A 116R	56TB3-S 5	56J04- 94	SHAFT CDU ENCODER COM
*	AA284R	56TB3-S 5	56J17-D9	SHAFT CDU ENCODER COM
*	A 116W	56TB3-S 6	56J04-107	SHAFT CDU ENCODER PHASE 1
*	AA284W	56TB3-S 6	56J17-C9	SHAFT CDU ENCODER PHASE 1
*	A 253W	56TB3-S 7	56P05-B*	SXT AT 64X RSVR COS LO
*	AA308R	56TB3-S 7	56J18-B1	SXT AT 64X RSVR COS LO
*	A 253R	56TB3-S 8	56P05-A*	SXT AT 64X RSVR COS HI
*	AA308L	56TB3-S 8	56J18-A1	SXT AT 64X RSVR COS HI
	A 138B	56TB3-S 9	SHLD A 138	0 VDC OPTICS
	A 253B	56TB3-S 9	SHLD A 253	0 VDC OPTICS
	AA310B	56TB3-S 9	SHLD AA310	0 VDC OPTICS
	AA548	56TB3-S 9	56TB3-T 9	0 VDC OPTICS
*	AA547	56TB3-S 9	56TB3-R 9	0 VDC OPTICS
*	A 138W	56TB3-S10	56J05- 87	TRUNNION CDU 16X RSVR SIN HI P2
*	AA310L	56TB3-S10	56J18-B3	TRUNNION CDU 16X RSVR SIN HI P2

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR H	SHEET 118

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 138R	56TB3-S11	56J05-101	TRUNNION CDU 16X RSVR SIN LO P4
*	AA310R	56TB3-S11	56J18-B4	TRUNNION CDU 16X RSVR SIN LO P4
*	A 109W	56TB3-S12	56J04- 35	SHAFT CDU 1X P2 (S2)
*	AA328R	56TB3-S12	56J18-L5	SHAFT CDU 1X P2 (S2)
*	A 306R	56TB3-S13	56P08-V	SCT TRUNNION 1X SIN LO
*	AA383W	56TB3-S13	56J19-G3	SCT TRUNNION 1X SIN LO
*	A 306W	56TB3-S14	56P08-W	SCT TRUNNION 1X SIN HI
*	AA383R	56TB3-S14	56J19-G2	SCT TRUNNION 1X SIN HI
	A 257B	56TB3-S15	SHLD A 257	0 VDC OPTICS
	A 260B	56TB3-S15	SHLD A 260	0 VDC OPTICS
	A 302B	56TB3-S15	SHLD A 302	0 VDC OPTICS
	AA536	56TB3-S15	56TB3-T15	0 VDC OPTICS
*	AA553	56TB3-S15	56TB3-R15	0 VDC OPTICS
*	A 260W	56TB3-S16	56P05-V*	SXT SHAFT TACH LO
*	AA371R	56TB3-S16	56J19-A2	SXT SHAFT TACH LO
*	A 260R	56TB3-S17	56P05-U*	SXT SHAFT TACH HI
*	AA371W	56TB3-S17	56J19-A3	SXT SHAFT TACH HI
*	A 264	56TB3-S18	56P05-AA	SXT SHAFT 1/2X RSVR LOAD
*	AA376	56TB3-S18	56J19-C5	SXT SHAFT 1/2X RSVR LOAD
*	A 317W	56TB3-S19	56P09- 6	0 VDC CONDITIONING
*	AA427W	56TB3-S19	56J20-C5	0 VDC CONDITIONING
*	A 386R	56TB3-S20	56P09- 21	+2.5 VDC CONDITIONING LO
*	AA463R	56TB3-S20	56J20-D4	+2.5 VDC CONDITIONING LO
	A 559	56TB3-S21	56E 6	+28 VDC IMU
	AA560	56TB3-S21	56TB3-T21	+28 VDC IMU
*	A 21	56TB3-S21	56P01- 7	+28 VDC IMU
*	AA456	56TB3-S21	56J20-K2	+28 VDC IMU
	A 237B	56TB3-T 3	SHLD A 237	0 VDC IMU
	A 591	56TB3-T 3	56TB3-R 3	0 VDC IMU
	AA635	56TB3-T 3	56TB2-V 8	0 VDC IMU
*	A 658	56TB3-T 3	56P12-E	0 VDC IMU
*	AA248	56TB3-T 3	56J17-S2	0 VDC IMU
*	AA592	56TB3-T 3	56TB2-M 6	0 VDC IMU
*	A 139W	56TB3-T 4	56J05-107	TRUNNION CDU ENCODER PHASE 1
*	AA281W	56TB3-T 4	56J17-A6	TRUNNION CDU ENCODER PHASE 1
	A 139B	56TB3-T 5	SHLD A 139	TRUNNION CDU ENCODER COM
*	A 139R	56TB3-T 5	56J05- 94	TRUNNION CDU ENCODER COM
*	AA281R	56TB3-T 5	56J17-A7	TRUNNION CDU ENCODER COM
*	A 139L	56TB3-T 6	56J05-108	TRUNNION CDU ENCODER PHASE 2

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR H	SHEET 119

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA419W	56TB3-N20	56J20-A3	COS AMG 1X S3
*	AA508L	56TB3-N20	56J22-113	COS AMG 1X S3
*	A 64W	56TB3-N21	56J02- 6	COS AMG 1X S1
*	A 221W	56TB3-N21	56P02-M	COS AMG 1X S1
*	A 358W	56TB3-N21	56P09- 40	COS AMG 1X S1
*	AA419R	56TB3-N21	56J20-B3	COS AMG 1X S1
*	AA508R	56TB3-N21	56J22-114	COS AMG 1X S1
*	A 326	56TB3-N22	56P09- 20	+28 VDC STBY
*	AA445	56TB3-N22	56J20-P3	+28 VDC STBY
	A 278B	56TB3-R 3	SHLD A 278	0 VDC IMU
	A 592	56TB3-R 3	56TB3-N 3	0 VDC IMU
	AA631	56TB3-R 3	56TB3-S 3	0 VDC IMU
*	A 591	56TB3-R 3	56TB3-T 3	0 VDC IMU
*	AA297	56TB3-R 3	56J17-S4	0 VDC IMU
*	AA466	56TB3-R 3	56TB3-H12	0 VDC IMU
*	A 236R	56TB3-R 4	56P03-N	PITCH YAW RSVR S3
*	AA247R	56TB3-R 4	56J17-D2	PITCH YAW RSVR S3
*	A 236W	56TB3-R 5	56P03-M	YAW ERROR BODY OFFSET AXIS LO
*	AA247W	56TB3-R 5	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	A 276	56TB3-R 6	56P06-N	ACCEL INDICATING SENSOR HI
*	A 395	56TB3-R 6	56J09- 97	ACCEL INDICATING SENSOR HI
*	A 248W	56TB3-R 7	56P05-P*	SXT AS 16X RSVR SIN LO
*	AA311R	56TB3-R 7	56J18-D3	SXT AS 16X RSVR SIN LO
*	A 248R	56TB3-R 8	56P05-N*	SXT AS 16X RSVR SIN HI
*	AA311W	56TB3-R 8	56J18-D2	SXT AS 16X RSVR SIN HI
	A 248B	56TB3-R 9	SHLD A 248	0 VDC OPTICS
	A 258B	56TB3-R 9	SHLD A 258	0 VDC OPTICS
	AA307B	56TB3-R 9	SHLD AA307	0 VDC OPTICS
	AA547	56TB3-R 9	56TB3-S 9	0 VDC OPTICS
*	AA546	56TB3-R 9	56TB3-N 9	0 VDC OPTICS
*	A 258R	56TB3-R10	56P05-Q*	SXT AS 16X RSVR COS LO
*	AA312W	56TB3-R10	56J18-D1	SXT AS 16X RSVR COS LO
*	A 258W	56TB3-R11	56P05-R*	SXT AS 16X RSVR COS HI
*	AA312R	56TB3-R11	56J18-C1	SXT AS 16X RSVR COS HI
*	A 109R	56TB3-R12	56J04- 45	SHAFT CDU 1X P3 (S3)
*	AA328L	56TB3-R12	56J18-L6	SHAFT CDU 1X P3 (S3)
*	A 134W	56TB3-R13	56J05- 67	TRUNNION CDU 1/2X RSVR S3
*	AA386W	56TB3-R13	56J19-F9	TRUNNION CDU 1/2X RSVR S3
*	A 134R	56TB3-R14	56J05- 68	TRUNNION CDU 1/2X RSVR S1 PHASE CORR

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR H	SHEET 117

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA281L	56TB3-T 6	56J17-A8	TRUNNION CDU ENCODER PHASE 2
*	A 252W	56TB3-T 7	56P05-Z	SXT AT 64X RSVR SIN HI
*	AA307R	56TB3-T 7	56J18-B2	SXT AT 64X RSVR SIN HI
*	A 252R	56TB3-T 8	56P05-Y	SXT AT 64X RSVR SIN LO
*	AA307L	56TB3-T 8	56J18-C2	SXT AT 64X RSVR SIN LO
	A 137B	56TB3-T 9	SHLD A 137	0 VDC OPTICS
	A 252B	56TB3-T 9	SHLD A 252	0 VDC OPTICS
	AA309B	56TB3-T 9	SHLD AA309	0 VDC OPTICS
	AA549	56TB3-T 9	56TB3-T15	0 VDC OPTICS
*	AA548	56TB3-T 9	56TB3-S 9	0 VDC OPTICS
*	A 137W	56TB3-T10	56J05- 86	TRUNNION CDU 16X RSVR COS HI P1
*	AA309L	56TB3-T10	56J18-A2	TRUNNION CDU 16X RSVR COS HI P1
*	A 137R	56TB3-T11	56J05-100	TRUNNION CDU 16X RSVR COS LO P3
*	AA309R	56TB3-T11	56J18-A3	TRUNNION CDU 16X RSVR COS LO P3
*	A 109L	56TB3-T12	56J04- 34	SHAFT CDU 1X P1 (S1)
*	AA328W	56TB3-T12	56J18-K6	SHAFT CDU 1X P1 (S1)
*	A 307W	56TB3-T13	56P08-Y	SCT TRUNNION 1X COS LO
*	AA382R	56TB3-T13	56J19-G1	SCT TRUNNION 1X COS LO
*	A 307R	56TB3-T14	56P08-X	SCT TRUNNION 1X COS HI
*	AA382W	56TB3-T14	56J19-H1	SCT TRUNNION 1X COS HI
	A 306B	56TB3-T15	SHLD A 306	0 VDC OPTICS
	A 307B	56TB3-T15	SHLD A 307	0 VDC OPTICS
*	A 664	56TB3-T15	56TB3-B15	0 VDC OPTICS
*	AA536	56TB3-T15	56TB3-S15	0 VDC OPTICS
*	AA549	56TB3-T15	56TB3-T 9	0 VDC OPTICS
*	A 257R	56TB3-T16	56P05-K*	SXT TRUNNION TACH HI
*	AA370W	56TB3-T16	56J19-A1	SXT TRUNNION TACH HI
*	A 257W	56TB3-T17	56P05-M*	SXT TRUNNION TACH LO
*	AA370R	56TB3-T17	56J19-B1	SXT TRUNNION TACH LO
*	A 311	56TB3-T18	56P08-H*	SCT SHAFT 1/2X RSVR LOAD
*	AA380	56TB3-T18	56J19-C7	SCT SHAFT 1/2X RSVR LOAD
*	A 317R	56TB3-T19	56P09- 5	+20 VDC CONDITIONING
*	AA427R	56TB3-T19	56J20-B5	+20 VDC CONDITIONING
	AA559	56TB3-T20	56TB3-T21	+28 VDC IMU
*	A 244	56TB3-T20	56P03-H*	+28 VDC IMU
*	A 284	56TB3-T20	56P06-D	+28 VDC IMU
*	AA454	56TB3-T20	56J20-K1	+28 VDC IMU
*	A 327	56TB3-T21	56P09- 19	+28 VDC IMU
*	AA455	56TB3-T21	56J20-K1	+28 VDC IMU

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR H	SHEET 120

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA559	56TB3-T21	56TB3-T20	+28 VDC IMU
*	AA560	561B3-T21	56TB3-S21	+28 VDC IMU

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A

1014607

SCALE - NONE

REV LTR H

SHEET 121

MIL 2084 4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

APPLICATION

NEXT ASSY	USED ON

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
K₂	K₁ REPLACES REV J WITH CHANGE K₂ CHANGED PER TDRR 10942	7/14/64	W.K.

Ⓚ₁ REPLACES REV J WITH CHANGE

SEE SHEET 2 FOR REVISION STATUS OF SHEETS

REV	
SHEET	
REV STATUS OF SHEETS	REV
	SHEET

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN A. ALDERSON DATE 12-30-63
CHECKED 1-24-64
APPROVAL 4/27/64
APPROVAL
NASA APPROVAL
MIT APPROVAL
CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION LIST OF AGE INTERCONNECT HARNESS AND PSA END CONNECTOR ASSY

CODE IDENT NO.
SIZE A
1014607
REV K
SCALE
SHEET 1 OF 121

INTERCONNECT LIST

CONDUCTOR FROM TO SIGNAL DESCRIPTION

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
1	K	31	K	61	K	91	K	121	K
2	K	32	K	62	K	92	K		
3	K	33	K	63	K	93	K		
4	K	34	K	64	K	94	K		
5	K	35	K	65	K	95	K		
6	K	36	K	66	K	96	K		
7	K	37	K	67	K	97	K		
8	K	38	K	68	K	98	K		
9	K	39	K	69	K	99	K		
10	K	40	K	70	K	100	K		
11	K	41	K	71	K	101	K		
12	K	42	K	72	K	102	K		
13	K	43	K	73	K	103	K		
14	K	44	K	74	K	104	K		
15	K	45	K	75	K	105	K		
16	K	46	K	76	K	106	K		
17	K	47	K	77	K	107	K		
18	K	48	K	78	K	108	K		
19	K	49	K	79	K	109	K		
20	K	50	K	80	K	110	K		
21	K	51	K	81	K	111	K		
22	K	52	K	82	K	112	K		
23	K	53	K	83	K	113	K		
24	K	54	K	84	K	114	K		
25	K	55	K	85	K	115	K		
26	K	56	K	86	K	116	K		
27	K	57	K	87	K	117	K		
28	K	58	K	88	K	118	K		
29	K	59	K	89	K	119	K		
30	K	60	K	90	K	120	K		

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014607
SCALE - NONE | REV LTR K | SHEET 2

MIL 2064-4-64

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 13B	SHLD A 13	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 14B	SHLD A 14	56E 44	AGC SIG 178 SHLD RET
*	A 15B	SHLD A 15	56E 44	AGC SIG 178 SHLD RET
*	A 16B	SHLD A 16	56E 44	AGC SIG 178 SHLD RET
*	A 23B	SHLD A 23	56TB2-S 2	OG CDU ERROR SIG RET
*	A 24B	SHLD A 24	56TB2-F 2	IG CDU ERROR SIG RET
*	A 25B	SHLD A 25	56TB2-F 7	MG CDU ERROR SIG RET
*	A 27B	SHLD A 27	56E 44	AGC SIG 178 SHLD RET
*	A 39B	SHLD A 39	56TB2-F 2	IG CDU ERROR SIG RET
*	A 40B	SHLD A 40	56TB3-H14	0 VDC IMU
*	A 41B	SHLD A 41	56TB3-H13	0 VDC IMU
*	A 42B	SHLD A 42	56TB2-G 1	IG CDU ERROR SIG RET
*	A 43B	SHLD A 43	56TB2-V 6	0 VDC IMU
*	A 44B	SHLD A 44	56TB2-D 8	0 VDC IMU
*	A 45B	SHLD A 45	56TB2-A 5	IG CDU ENCODER COM
*	A 51B	SHLD A 51	56TB2-T 7	IG CDU MDA INPUT RET
*	A 63B	SHLD A 63	56TB2-F 7	MG CDU ERROR SIG RET
*	A 64B	SHLD A 64	56E 48	0 VDC IMU
*	A 65B	SHLD A 65	56TB3-H12	0 VDC IMU
*	A 66B	SHLD A 66	56TB2-G 8	MG CDU ERROR SIG RET
*	A 67B	SHLD A 67	56TB2-V 5	0 VDC IMU
*	A 68B	SHLD A 68	56TB2-D 7	0 VDC IMU
*	A 69B	SHLD A 69	56TB2-C 6	MG CDU ENCODER COM
*	A 75B	SHLD A 75	56TB2-X 6	MG CDU MDA INPUT RET
*	A 86B	SHLD A 86	56TB2-S 2	OG CDU ERROR SIG RET
*	A 87B	SHLD A 87	56TB2-M 8	0 VDC IMU
*	A 88B	SHLD A 88	56TB2-V 8	0 VDC IMU
*	A 89B	SHLD A 89	56TB2-S 3	OG CDU ERROR SIG RET
*	A 90B	SHLD A 90	56TB2-V 4	0 VDC IMU
*	A 91B	SHLD A 91	56TB2-V 2	0 VDC IMU
*	A 92B	SHLD A 92	56TB2-A 4	OG CDU ENCODER COM
*	A 96B	SHLD A 96	56TB2-R 7	OG CDU MDA INPUT RET
*	A 107B	SHLD A 107	56TB3-H 9	0 VDC OPTICS
*	A 108B	SHLD A 108	56TB3-N15	0 VDC OPTICS
*	A 110B	SHLD A 110	56TB3-K 9	0 VDC OPTICS
*	A 111B	SHLD A 111	56TB3-G15	0 VDC OPTICS
*	A 112B	SHLD A 112	56TB3-H 9	0 VDC OPTICS
*	A 114B	SHLD A 114	56TB3-N 9	0 VDC OPTICS
*	A 115B	SHLD A 115	56TB3-N 9	0 VDC OPTICS

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014607
SCALE - NONE | REV LTR K | SHEET 3

MIL 2064-4-64

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 116B	SHLD A 116	56TB3-S 5	SHAFT CDU ENCODER COM
*	A 121B	SHLD A 121	56TB3-L 9	0 VDC OPTICS
*	A 130B	SHLD A 130	56TB3-G 9	0 VDC OPTICS
*	A 131B	SHLD A 131	56TB3-K15	0 VDC OPTICS
*	A 132B	SHLD A 132	56TB3-L 9	0 VDC OPTICS
*	A 134B	SHLD A 134	56TB3-R15	0 VDC OPTICS
*	A 135B	SHLD A 135	56TB3-H 9	0 VDC OPTICS
*	A 137B	SHLD A 137	56TB3-T 9	0 VDC OPTICS
*	A 138B	SHLD A 138	56TB3-S 9	0 VDC OPTICS
*	A 139B	SHLD A 139	56TB3-T 5	TRUNNION CDU ENCODER COM
*	A 144B	SHLD A 144	56TB3-M 9	0 VDC OPTICS
*	A 155B	SHLD A 155	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 156B	SHLD A 156	56E 44	AGC SIG 178 SHLD RET
*	A 217B	SHLD A 217	56TB2-V 3	0 VDC IMU
*	A 218B	SHLD A 218	56TB2-V 2	0 VDC IMU
*	A 219B	SHLD A 219	56TB2-V 5	0 VDC IMU
*	A 220B	SHLD A 220	56TB2-D 7	0 VDC IMU
*	A 221B	SHLD A 221	56E 48	0 VDC IMU
*	A 222B	SHLD A 222	56TB3-H12	0 VDC IMU
*	A 224B	SHLD A 224	56TB1-D 7	0 VDC IMU
*	A 225B	SHLD A 225	56TB2-V 6	0 VDC IMU
*	A 226B	SHLD A 226	56TB2-D 8	0 VDC IMU
*	A 227B	SHLD A 227	56TB3-H14	0 VDC IMU
*	A 228B	SHLD A 228	56TB3-H13	0 VDC IMU
*	A 229B	SHLD A 229	56TB1-D 7	0 VDC IMU
*	A 230B	SHLD A 230	56TB1-D 8	0 VDC IMU
*	A 232B	SHLD A 232	56TB2-M 8	0 VDC IMU
*	A 233B	SHLD A 233	56TB2-V 8	0 VDC IMU
*	A 234B	SHLD A 234	56TB1-B 5	IG CDU ERROR SIG RET
*	A 235B	SHLD A 235	56TB1-A 6	MG CDU ERROR SIG RET
*	A 236B	SHLD A 236	56TB3-S 3	0 VDC IMU
*	A 237B	SHLD A 237	56TB3-T 3	0 VDC IMU
*	A 248B	SHLD A 248	56TB3-R 9	0 VDC OPTICS
*	A 252B	SHLD A 252	56TB3-T 9	0 VDC OPTICS
*	A 253B	SHLD A 253	56TB3-S 9	0 VDC OPTICS
*	A 254B	SHLD A 254	56TB3-M15	0 VDC OPTICS
*	A 255B	SHLD A 255	56TB3-H15	0 VDC OPTICS
*	A 256B	SHLD A 256	56TB3-G 9	0 VDC OPTICS
*	A 257B	SHLD A 257	56TB3-S15	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 449B	SHLD A 449	56E 44	AGC SIG 178 SHLD RET
*	A 671B	SHLD A 671	56TB3-F 8	SHAFT CDU DAC LO
*	A 672B	SHLD A 672	56TB3-F 7	TRUNNION CDU DAC LO
	AA 70A	SHLD AA 70	56J12-H1	COMPUTER 102.4 KPPS SYNC RET
*	AA 92B	SHLD AA 92	56E 27	0 VDC IMU
*	AA119B	SHLD AA119	56TB1-N 5	0 VDC IMU
*	AA122B	SHLD AA122	56TB1-N 4	0 VDC IMU
*	AA124B	SHLD AA124	56TB1-N 8	0 VDC IMU
*	AA127B	SHLD AA127	56TB1-S 4	0 VDC IMU
*	AA133B	SHLD AA133	56TB1-S 5	0 VDC IMU
*	AA136B	SHLD AA136	56TB1-S 8	0 VDC IMU
*	AA176B	SHLD AA176	56TB2-D 3	AGC SIG 178 SHLD RET
	AA197A	SHLD AA197	56J16-B1	IG CDU MDA INPUT RET
	AA202A	SHLD AA202	56J16-B3	MG CDU MDA INPUT RET
	AA214A	SHLD AA214	56J16-B5	OG CDU MDA INPUT RET
	AA226A	SHLD AA226	56E 30	0 VDC IMU
	AA227A	SHLD AA227	56E 30	0 VDC IMU
	AA232A	SHLD AA232	56E 30	0 VDC IMU
*	AA232B	SHLD AA232	56E 31	0 VDC IMU
*	AA244B	SHLD AA244	56J22- 41	
*	AA245B	SHLD AA245	56J22- 5	
*	AA246B	SHLD AA246	56J22- 8	
*	AA265B	SHLD AA265	56TB3-S 3	0 VDC IMU
*	AA270B	SHLD AA270	56TB3-N 3	0 VDC IMU
*	AA287B	SHLD AA287	56J22- 2	
*	AA288B	SHLD AA288	56J22- 11	
*	AA307B	SHLD AA307	56TB3-R 9	0 VDC OPTICS
*	AA308B	SHLD AA308	56TB3-N 9	0 VDC OPTICS
*	AA309B	SHLD AA309	56TB3-T 9	0 VDC OPTICS
*	AA310B	SHLD AA310	56TB3-S 9	0 VDC OPTICS
*	AA315B	SHLD AA315	56TB3-M 9	0 VDC OPTICS
*	AA316B	SHLD AA316	56TB3-L 9	0 VDC OPTICS
*	AA329B	SHLD AA329	56TB3-H 9	0 VDC OPTICS
*	AA331B	SHLD AA331	56TB3-K 9	0 VDC OPTICS
	AA467A	SHLD AA467	56E 46	AGC SIG 180 SHLD RET
	AA468A	SHLD AA468	56E 46	AGC SIG 180 SHLD RET
	AA469A	SHLD AA469	56E 46	AGC SIG 180 SHLD RET
	AA470A	SHLD AA470	56E 46	AGC SIG 180 SHLD RET
	AA471A	SHLD AA471	56E 46	AGC SIG 180 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA472A	SHLD AA472	56E 46	AGC SIG 180 SHLD RET
	AA475A	SHLD AA475	56E 47	AGC SIG 179 SHLD RET
	AA476A	SHLD AA476	56E 47	AGC SIG 179 SHLD RET
	AA477A	SHLD AA477	56E 47	AGC SIG 179 SHLD RET
	AA478A	SHLD AA478	56E 47	AGC SIG 179 SHLD RET
	AA479A	SHLD AA479	56E 47	AGC SIG 179 SHLD RET
	AA480A	SHLD AA480	56E 47	AGC SIG 179 SHLD RET
*	AA481B	SHLD AA481	56E 39	IG DAC MDA SIG LO
*	AA482B	SHLD AA482	56E 39	IG DAC MDA SIG LO
*	AA483B	SHLD AA483	56E 41	MG DAC MDA SIG LO
*	AA484B	SHLD AA484	56E 41	MG DAC MDA SIG LO
*	AA485B	SHLD AA485	56E 43	OG DAC MDA SIG LO
*	AA486B	SHLD AA486	56E 43	OG DAC MDA SIG LO
	AA487A	SHLD AA487	56E 57	AGC SIG 178 SHLD RET
*	AA487B	SHLD AA487	56TB2-D 3	AGC SIG 178 SHLD RET
	AA488A	SHLD AA488	56E 57	AGC SIG 178 SHLD RET
	AA489A	SHLD AA489	56E 57	AGC SIG 178 SHLD RET
*	AA490B	SHLD AA490	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA491B	SHLD AA491	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA492B	SHLD AA492	56E 71	0 VDC OPTICS
*	AA493B	SHLD AA493	56E 71	0 VDC OPTICS
	AA494A	SHLD AA494	56E 45	AGC SIG 180 SHLD RET
	AA495A	SHLD AA495	56E 45	AGC SIG 180 SHLD RET
*	AA496B	SHLD AA496	56E 71	0 VDC OPTICS
*	AA497B	SHLD AA497	56E 71	0 VDC OPTICS
	AA498A	SHLD AA498	56E 45	AGC SIG 180 SHLD RET
	AA499A	SHLD AA499	56E 45	AGC SIG 180 SHLD RET
*	AA500B	SHLD AA500	56E 27	0 VDC IMU
*	AA503B	SHLD AA503	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA504B	SHLD AA504	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA505B	SHLD AA505	56TB2-V 8	0 VDC IMU
*	AA506B	SHLD AA506	56TB2-M 8	0 VDC IMU
*	AA507B	SHLD AA507	56TB3-H12	0 VDC IMU
*	AA508B	SHLD AA508	56TB3-H14	0 VDC IMU
*	AA509B	SHLD AA509	56TB3-H13	0 VDC IMU
*	AA510B	SHLD AA510	56TB3-H14	0 VDC IMU
	AA569A	SHLD AA569	56TB2-D 3	AGC SIG 178 SHLD RET
	AA571A	SHLD AA571	56TB2-S 3	OG CDU ERROR SIG RET
*	AA639B	SHLD AA639	56E 70	AGC SIG 179 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 258B	SHLD A 258	56TB3-R 9	0 VDC OPTICS
*	A 260B	SHLD A 260	56TB3-S15	0 VDC OPTICS
*	A 261B	SHLD A 261	56TB3-R15	0 VDC OPTICS
*	A 262B	SHLD A 262	56TB3-K 9	0 VDC OPTICS
*	A 263B	SHLD A 263	56TB3-H15	0 VDC OPTICS
*	A 278B	SHLD A 278	56TB3-R 3	0 VDC IMU
*	A 279B	SHLD A 279	56TB3-N 3	0 VDC IMU
*	A 289B	SHLD A 289	56TB1-S 8	0 VDC IMU
*	A 290B	SHLD A 290	56TB1-N 8	0 VDC IMU
*	A 291B	SHLD A 291	56TB1-S 6	0 VDC IMU
*	A 292B	SHLD A 292	56TB1-S 3	0 VDC IMU
*	A 293B	SHLD A 293	56TB1-N 4	0 VDC IMU
*	A 294B	SHLD A 294	56TB1-N 5	0 VDC IMU
*	A 302B	SHLD A 302	56TB3-S15	0 VDC OPTICS
*	A 304B	SHLD A 304	56TB3-H15	0 VDC OPTICS
*	A 306B	SHLD A 306	56TB3-T15	0 VDC OPTICS
*	A 307B	SHLD A 307	56TB3-T15	0 VDC OPTICS
*	A 309B	SHLD A 309	56TB3-M15	0 VDC OPTICS
*	A 310B	SHLD A 310	56TB3-M15	0 VDC OPTICS
*	A 312B	SHLD A 312	56TB3-K 9	0 VDC OPTICS
*	A 313B	SHLD A 313	56TB3-R15	0 VDC OPTICS
*	A 338B	SHLD A 338	56TB2-S 3	OG CDU ERROR SIG RET
*	A 355B	SHLD A 355	56TB3-H13	0 VDC IMU
*	A 356B	SHLD A 356	56TB3-H14	0 VDC IMU
*	A 357B	SHLD A 357	56TB3-H12	0 VDC IMU
*	A 358B	SHLD A 358	56E 48	0 VDC IMU
*	A 359B	SHLD A 359	56TB2-V 8	0 VDC IMU
*	A 360B	SHLD A 360	56TB2-M 8	0 VDC IMU
*	A 364B	SHLD A 364	56TB2-F 2	IG CDU ERROR SIG RET
*	A 365B	SHLD A 365	56TB2-F 7	MG CDU ERROR SIG RET
*	A 366B	SHLD A 366	56TB2-S 2	OG CDU ERROR SIG RET
*	A 407B	SHLD A 407	56E 44	AGC SIG 178 SHLD RET
*	A 425B	SHLD A 425	56TB3-M 9	0 VDC OPTICS
*	A 426B	SHLD A 426	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
*	A 427B	SHLD A 427	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO
*	A 433B	SHLD A 433	56E 44	AGC SIG 178 SHLD RET
*	A 434B	SHLD A 434	56E 44	AGC SIG 178 SHLD RET
*	A 437B	SHLD A 437	56E 44	AGC SIG 178 SHLD RET
	A 440A	SHLD A 440	56E 44	AGC SIG 178 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA640B	SHLD AA640	56E 70	AGC SIG 179 SHLD RET
*	AA641B	SHLD AA641	56E 70	AGC SIG 179 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 53R	56E 9	56J01- 28	400 CPS VAR ILLUM PWR
*	A 77R	56E 9	56J02- 28	400 CPS VAR ILLUM PWR
*	A 98R	56E 9	56J03- 28	400 CPS VAR ILLUM PWR
*	A 123R	56E 9	56J04- 28	400 CPS VAR ILLUM PWR
*	A 146R	56E 9	56J05- 28	400 CPS VAR ILLUM PWR
	A 561W	56E 10	56TB1-S 2	400 CPS 6 V LO
*	A 53W	56E 10	56J01- 29	400 CPS 6 V LO
*	A 77W	56E 10	56J02- 29	400 CPS 6 V LO
*	A 98W	56E 10	56J03- 29	400 CPS 6 V LO
*	A 123W	56E 10	56J04- 29	400 CPS 6 V LO
*	A 146W	56E 10	56J05- 29	400 CPS 6 V LO
	A 567W	56E 11	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 578W	56E 11	56J01- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 579W	56E 11	56J02- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 580W	56E 11	56J03- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 54	56E 12	56J01- 41	STRUCTURE GND
*	A 78	56E 12	56J02- 41	STRUCTURE GND
*	A 99	56E 12	56J03- 41	STRUCTURE GND
*	A 124	56E 12	56J04- 41	STRUCTURE GND
*	A 147	56E 12	56J05- 41	STRUCTURE GND
*	A 548	56E 12	56TB3-B20	STRUCTURE GND
	A 558W	56E 13	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 104W	56E 13	56J04- 14	800 CPS 28 V 1 PCT LO OPTICS
*	A 584R	56E 13	56J04- 25	800 CPS 28 V 1 PCT LO OPTICS
*	A 584W	56E 13	56J04- 11	800 CPS 28 V 1 PCT LO OPTICS
*	A 585R	56E 13	56J05- 4	800 CPS 28 V 1 PCT LO OPTICS
*	A 585W	56E 13	56J05- 18	800 CPS 28 V 1 PCT LO OPTICS
*	A 586W	56E 13	56J05- 14	800 CPS 28 V 1 PCT LO OPTICS
	A 558R	56E 14	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 104R	56E 14	56J04- 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 584L	56E 14	56J04- 12	800 CPS 28 V 1 PCT HI OPTICS
*	A 585L	56E 14	56J05- 17	800 CPS 28 V 1 PCT HI OPTICS
*	A 586R	56E 14	56J05- 1	800 CPS 28 V 1 PCT HI OPTICS
	A 560W	56E 16	56TB1-G 7	25.6 KC LO OPTICS
*	A 117W	56E 16	56J04- 60	25.6 KC LO OPTICS
*	A 583W	56E 16	56J05- 60	25.6 KC LO OPTICS
	A 560R	56E 17	56TB1-H 7	25.6 KC HI OPTICS
*	A 117R	56E 17	56J04- 50	25.6 KC HI OPTICS
*	A 583R	56E 17	56J05- 50	25.6 KC HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 132W	56E 18	56TB3-L11	TRUNNION CDU 1/2X RSVR P3	
*	A 133	56E 18	56J05- 11	TRUNNION CDU 1/2X RSVR P3	
*	A 149	56E 18	56J05- 25	TRUNNION CDU 1/2X RSVR P3	
	A 556	56E 19	56TB1-S 7	0 VDC IMU	
*	A 194	56E 19	56J08- 31	0 VDC IMU	
*	A 195	56E 19	56J08- 70	0 VDC IMU	
*	A 204	56E 19	56J08- 30	0 VDC IMU	
*	A 205	56E 19	56J08- 28	0 VDC IMU	
*	A 208	56E 19	56J08- 17	0 VDC IMU	
*	A 212	56E 19	56J08- 52	0 VDC IMU	
	A 549	56E 20	56TB2-D 6	0 VDC IMU	
*	A 189	56E 20	56J08- 61	0 VDC IMU	
*	A 191	56E 20	56J08- 84	0 VDC IMU	
*	A 201	56E 20	56J08- 83	0 VDC IMU	
*	A 213	56E 20	56J08- 63	0 VDC IMU	
	A 550	56E 21	56TB2-D 5	0 VDC IMU	
*	A 337	56E 21	56P09- 27	0 VDC IMU	
*	A 339	56E 21	56P09- 37	0 VDC IMU	
*	A 340	56E 21	56P09- 26	0 VDC IMU	
*	A 341	56E 21	56P09- 25	0 VDC IMU	
*	A 347	56E 21	56P09- 36	0 VDC IMU	
*	A 348	56E 21	56P09- 24	0 VDC IMU	
	A 494W	56E 22	56J21-211	COMMONED RETURNS GROUND	214B
	A 495W	56E 22	56J21-176	COMMONED RETURNS GROUND	215B
	A 496W	56E 22	56J21-143	COMMONED RETURNS GROUND	216B
	A 497W	56E 22	56J21-110	COMMONED RETURNS GROUND	217B
	A 498W	56E 22	56J21- 77	COMMONED RETURNS GROUND	218B
	A 499W	56E 22	56J21- 42	COMMONED RETURNS GROUND	219B
	A 500W	56E 22	56J21-213	COMMONED RETURNS GROUND	221B
	A 501W	56E 22	56J21-178	COMMONED RETURNS GROUND	222B
	A 502W	56E 22	56J21-145	COMMONED RETURNS GROUND	223B
	A 505W	56E 22	56J21- 5	COMMONED RETURNS GROUND	220B
*	A 554	56E 22	56E 23	COMMONED RETURNS GROUND	
	A 482W	56E 23	56J21- 81	COMMONED RETURNS GROUND	232B
	A 483W	56E 23	56J21- 7	COMMONED RETURNS GROUND	227B
	A 484W	56E 23	56J21-215	COMMONED RETURNS GROUND	228B
	A 485W	56E 23	56J21-180	COMMONED RETURNS GROUND	229B
	A 486W	56E 23	56J21-147	COMMONED RETURNS GROUND	230B
	A 487W	56E 23	56J21-114	COMMONED RETURNS GROUND	231B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 577R	56E 1	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	A 84R	56E 1	56J03- 1	800 CPS 28 V 1 PCT HI IMU
*	A 572R	56E 1	56J01- 1	800 CPS 28 V 1 PCT HI IMU
*	A 573L	56E 1	56J01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 573R	56E 1	56J01- 25	800 CPS 28 V 1 PCT HI IMU
*	A 574R	56E 1	56J02- 1	800 CPS 28 V 1 PCT HI IMU
*	A 575L	56E 1	56J02- 11	800 CPS 28 V 1 PCT HI IMU
*	A 575R	56E 1	56J02- 25	800 CPS 28 V 1 PCT HI IMU
*	A 576L	56E 1	56J03- 11	800 CPS 28 V 1 PCT HI IMU
*	A 576R	56E 1	56J03- 25	800 CPS 28 V 1 PCT HI IMU
	A 577W	56E 2	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	A 84W	56E 2	56J03- 14	800 CPS 28 V 1 PCT LO IMU
*	A 572W	56E 2	56J01- 14	800 CPS 28 V 1 PCT LO IMU
*	A 574W	56E 2	56J02- 14	800 CPS 28 V 1 PCT LO IMU
	A 564R	56E 3	56TB1-G 4	25.6 KC LO IMU
*	A 46W	56E 3	56J01- 60	25.6 KC LO IMU
*	A 70W	56E 3	56J02- 60	25.6 KC LO IMU
*	A 93W	56E 3	56J03- 60	25.6 KC LO IMU
	A 564W	56E 4	56TB1-H 4	25.6 KC HI IMU
*	A 46R	56E 4	56J01- 50	25.6 KC HI IMU
*	A 70R	56E 4	56J02- 50	25.6 KC HI IMU
*	A 93R	56E 4	56J03- 50	25.6 KC HI IMU
	A 577L	56E 5	56TB2-H 5	ZEROING RSVR 800 CPS
*	A 573W	56E 5	56J01- 12	ZEROING RSVR 800 CPS
*	A 575W	56E 5	56J02- 12	ZEROING RSVR 800 CPS
*	A 576W	56E 5	56J03- 12	ZEROING RSVR 800 CPS
*	A 48	56E 6	56J01- 16	+28 VDC IMU
*	A 72	56E 6	56J02- 16	+28 VDC IMU
*	A 559	56E 6	56TB3-S21	+28 VDC IMU
*	A 581	56E 6	56J03- 16	+28 VDC IMU
	A 567R	56E 7	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 578R	56E 7	56J01- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 579R	56E 7	56J02- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 580R	56E 7	56J03- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	A 557	56E 8	56TB2-D 1	+28 VDC CDU NOT LOCK
*	A 50	56E 8	56J01- 15	+28 VDC CDU NOT LOCK
*	A 74	56E 8	56J02- 15	+28 VDC CDU NOT LOCK
*	A 582	56E 8	56J03- 15	+28 VDC CDU NOT LOCK
	A 561R	56E 9	56TB1-S 1	400 CPS VAR ILLUM PWR

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 488W	56E 23	56J21- 46	COMMONED RETURNS GROUND	233B
	A 503W	56E 23	56J21-112	COMMONED RETURNS GROUND	224B
	A 504W	56E 23	56J21- 44	COMMONED RETURNS GROUND	226B
	A 506W	56E 23	56J21- 79	COMMONED RETURNS GROUND	225B
	A 554	56E 23	56E 22	COMMONED RETURNS GROUND	
	A 555	56E 23	56E 24	COMMONED RETURNS GROUND	
	A 470W	56E 24	56J21- 48	COMMONED RETURNS GROUND	244B
	A 471W	56E 24	56J21- 83	COMMONED RETURNS GROUND	242B
	A 489W	56E 24	56J21- 9	COMMONED RETURNS GROUND	234B
	A 490W	56E 24	56J21-217	COMMONED RETURNS GROUND	235B
	A 491W	56E 24	56J21-182	COMMONED RETURNS GROUND	236B
	A 492W	56E 24	56J21-149	COMMONED RETURNS GROUND	237B
	A 493W	56E 24	56J21-116	COMMONED RETURNS GROUND	238B
	A 552	56E 24	56E 26	COMMONED RETURNS GROUND	
*	A 555	56E 24	56E 23	COMMONED RETURNS GROUND	
	A 467W	56E 25	56J21- 85	COMMONED RETURNS GROUND	205B
	A 468R	56E 25	56J21- 13	COMMONED RETURNS GROUND	209B
	A 472W	56E 25	56J21-151	COMMONED RETURNS GROUND	203B
	A 510W	56E 25	56J21- 15	COMMONED RETURNS GROUND	207B
	A 511W	56E 25	56J21-118	COMMONED RETURNS GROUND	204B
	A 514W	56E 25	56J21-184	COMMONED RETURNS GROUND	202B
	A 515W	56E 25	56J21-186	COMMONED RETURNS GROUND	210B
	A 516W	56E 25	56J21-219	COMMONED RETURNS GROUND	201B
	A 517W	56E 25	56J21-221	COMMONED RETURNS GROUND	208B
	A 551	56E 25	56E 26	COMMONED RETURNS GROUND	
*	A 519	56E 26	56J10- 82	COMMONED RETURNS GROUND	330
*	A 551	56E 26	56E 25	COMMONED RETURNS GROUND	
*	A 552	56E 26	56E 24	COMMONED RETURNS GROUND	
	AA 92B	56E 27	SHLD AA 92	0 VDC IMU	
	AA500B	56E 27	SHLD AA500	0 VDC IMU	
*	AA500L	56E 27	56J21-104	0 VDC IMU	155B
*	AA608	56E 27	56TB2-D 4	0 VDC IMU	
	AA503B	56E 28	SHLD AA503	COMPUTER 3200 PPS SYNC RET	
	AA504B	56E 28	SHLD AA504	COMPUTER 3200 PPS SYNC RET	
*	AA 36	56E 28	56J11-M5	COMPUTER 3200 PPS SYNC RET	
*	AA503L	56E 28	56J21-204	COMPUTER 3200 PPS SYNC RET	152B
*	AA504L	56E 28	56J21-242	COMPUTER 3200 PPS SYNC RET	151B
	AA490B	56E 29	SHLD AA490	COMPUTER 25.6 KPPS SYNC RET	
	AA491B	56E 29	SHLD AA491	COMPUTER 25.6 KPPS SYNC RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA477R	56E 40	56J21-233	MG DAC MDA SIG LO	122B
*	AA478L	56E 40	56J21-193	MG DAC MDA SIG LO	123B
	AA483B	56E 41	SHLD AA483	MG DAC MDA SIG LO	
	AA484B	56E 41	SHLD AA484	MG DAC MDA SIG LO	
*	AA168	56E 41	56J15-A7	MG DAC MDA SIG LO	
*	AA483R	56E 41	56J21-166	MG DAC MDA SIG LO	130B
*	AA484L	56E 41	56J21- 98	MG DAC MDA SIG LO	131B
*	AA166	56E 42	56J15-A9	OG DAC MDA SIG LO	
*	AA479R	56E 42	56J21- 57	OG DAC MDA SIG LO	118B
*	AA480L	56E 42	56J21- 59	OG DAC MDA SIG LO	119B
	AA485B	56E 43	SHLD AA485	OG DAC MDA SIG LO	
	AA486B	56E 43	SHLD AA486	OG DAC MDA SIG LO	
*	AA169	56E 43	56J15-A9	OG DAC MDA SIG LO	
*	AA485R	56E 43	56J21- 65	OG DAC MDA SIG LO	126B
*	AA486L	56E 43	56J21- 31	OG DAC MDA SIG LO	127B
	A 14B	56E 44	SHLD A 14	AGC SIG 178 SHLD RET	
	A 15B	56E 44	SHLD A 15	AGC SIG 178 SHLD RET	
	A 16B	56E 44	SHLD A 16	AGC SIG 178 SHLD RET	
	A 27B	56E 44	SHLD A 27	AGC SIG 178 SHLD RET	
	A 156B	56E 44	SHLD A 156	AGC SIG 178 SHLD RET	
	A 407B	56E 44	SHLD A 407	AGC SIG 178 SHLD RET	
	A 433B	56E 44	SHLD A 433	AGC SIG 178 SHLD RET	
	A 434B	56E 44	SHLD A 434	AGC SIG 178 SHLD RET	
	A 437B	56E 44	SHLD A 437	AGC SIG 178 SHLD RET	
	A 449B	56E 44	SHLD A 449	AGC SIG 178 SHLD RET	
	A 566	56E 44	56E 57	AGC SIG 178 SHLD RET	
*	A 440A	56E 44	SHLD A 440	AGC SIG 178 SHLD RET	
	AA568	56E 45	56E 46	AGC SIG 180 SHLD RET	
*	AA473	56E 45	56J21- 23	AGC SIG 180 SHLD RET	180
*	AA494A	56E 45	SHLD AA494	AGC SIG 180 SHLD RET	
*	AA495A	56E 45	SHLD AA495	AGC SIG 180 SHLD RET	
*	AA498A	56E 45	SHLD AA498	AGC SIG 180 SHLD RET	
*	AA499A	56E 45	SHLD AA499	AGC SIG 180 SHLD RET	
*	AA467A	56E 46	SHLD AA467	AGC SIG 180 SHLD RET	
*	AA468A	56E 46	SHLD AA468	AGC SIG 180 SHLD RET	
*	AA469A	56E 46	SHLD AA469	AGC SIG 180 SHLD RET	
*	AA470A	56E 46	SHLD AA470	AGC SIG 180 SHLD RET	
*	AA471A	56E 46	SHLD AA471	AGC SIG 180 SHLD RET	
*	AA472A	56E 46	SHLD AA472	AGC SIG 180 SHLD RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA568	56E 46	56E 45	AGC SIG 180 SHLD RET	
*	AA474	56E 47	56E 70	AGC SIG 179 SHLD RET	
*	AA475A	56E 47	SHLD AA475	AGC SIG 179 SHLD RET	
*	AA476A	56E 47	SHLD AA476	AGC SIG 179 SHLD RET	
*	AA477A	56E 47	SHLD AA477	AGC SIG 179 SHLD RET	
*	AA478A	56E 47	SHLD AA478	AGC SIG 179 SHLD RET	
*	AA479A	56E 47	SHLD AA479	AGC SIG 179 SHLD RET	
*	AA480A	56E 47	SHLD AA480	AGC SIG 179 SHLD RET	
	A 64B	56E 48	SHLD A 64	0 VDC IMU	
	A 221B	56E 48	SHLD A 221	0 VDC IMU	
	A 358B	56E 48	SHLD A 358	0 VDC IMU	
*	A 458	56E 48	56TB2-D 5	0 VDC IMU	
*	AA348	56E 50	56J18-H3	TRUNNION CDU DAC LO	
*	AA496R	56E 50	56J21-236	TRUNNION CDU DAC LO	114B
*	AA497L	56E 50	56J21-198	TRUNNION CDU DAC LO	115B
*	AA243W	56E 51	56J17-H6	TRUNNION CDU DAC LO	
*	AA349	56E 51	56J18-H3	TRUNNION CDU DAC LO	
*	AA498R	56E 51	56J21-231	TRUNNION CDU DAC LO	108B
*	AA499R	56E 51	56J21-191	TRUNNION CDU DAC LO	109B
*	AA346	56E 52	56J18-H2	SHAFT CDU DAC LO	
*	AA492R	56E 52	56J21-164	SHAFT CDU DAC LO	116B
*	AA493L	56E 52	56J21-131	SHAFT CDU DAC LO	117B
*	AA242W	56E 53	56J17-H4	SHAFT CDU DAC LO	
*	AA347	56E 53	56J18-H2	SHAFT CDU DAC LO	
*	AA494R	56E 53	56J21-157	SHAFT CDU DAC LO	110B
*	AA495R	56E 53	56J21-124	SHAFT CDU DAC LO	111B
	A 155R	56E 55	56TB2-F 3		
	A 156R	56E 55	56J21-229		164B
*	A 406	56E 56	56J09- 60	AGC COMMON	
*	A 415	56E 56	56J09- 42	AGC COMMON	
*	A 420	56E 56	56J09- 36	AGC COMMON	
*	A 440W	56E 56	56J21-119	AGC COMMON	101A
*	A 566	56E 57	56E 44	AGC SIG 178 SHLD RET	
*	AA487A	56E 57	SHLD AA487	AGC SIG 178 SHLD RET	
*	AA488A	56E 57	SHLD AA488	AGC SIG 178 SHLD RET	
*	AA489A	56E 57	SHLD AA489	AGC SIG 178 SHLD RET	
*	AA562	56E 57	56J21- 53	AGC SIG 178 SHLD RET	178
	A 407R	56E 58	56J21- 17		105B
	A 433R	56E 58	56J21- 87		102B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA 69	56E 29	56J12-F2	COMPUTER 25.6 KPPS SYNC RET	
*	AA490R	56E 29	56J21-170	COMPUTER 25.6 KPPS SYNC RET	153B
*	AA491L	56E 29	56J21-137	COMPUTER 25.6 KPPS SYNC RET	154B
*	AA226A	56E 30	SHLD AA226	0 VDC IMU	
*	AA227A	56E 30	SHLD AA227	0 VDC IMU	
*	AA232A	56E 30	SHLD AA232	0 VDC IMU	
	AA232B	56E 31	SHLD AA232	0 VDC IMU	
*	AA 67	56E 31	56J12-F1	COMPUTER 800 PPS SYNC RET	
*	AA 91	56E 31	56J12-R4	0 VDC IMU	
*	AA232W	56E 31	56J16-L3	COMPUTER 800 PPS SYNC RET	
	AA129W	56E 33	56J21- 66	0 VDC IMU	142A
	AA130R	56E 33	56J21- 32	0 VDC IMU	143A
	AA131W	56E 33	56J21-239	0 VDC IMU	144A
	AA132W	56E 33	56J21-201	0 VDC IMU	145A
	AA134R	56E 33	56J21-167	0 VDC IMU	146A
	AA135W	56E 33	56J21-134	0 VDC IMU	147A
*	AA137	56E 33	56J14-R6	0 VDC IMU	
*	AA 77	56E 34	56J12-B5	0 VDC IMU	
*	AA125	56E 34	56J13-R6	0 VDC IMU	
*	AA501R	56E 34	56J21-133	0 VDC IMU	139B
*	AA502R	56E 34	56J21-100	0 VDC IMU	140B
*	AA158	56E 35	56J15-L5	COMPUTER RET	
*	AA467R	56E 35	56J21-125	COMPUTER RET	132A
*	AA468R	56E 35	56J21- 92	COMPUTER RET	133A
*	AA159	56E 36	56J15-L5	COMPUTER RET	
*	AA469R	56E 36	56J21-194	COMPUTER RET	134A
*	AA470R	56E 36	56J21-160	COMPUTER RET	135A
*	AA160	56E 37	56J15-L5	COMPUTER RET	
*	AA471R	56E 37	56J21- 94	COMPUTER RET	137A
*	AA472R	56E 37	56J21-127	COMPUTER RET	136A
*	AA164	56E 38	56J15-A5	IG DAC MDA SIG LO	
*	AA475R	56E 38	56J21- 25	IG DAC MDA SIG LO	120B
*	AA476L	56E 38	56J21- 27	IG DAC MDA SIG LO	121B
	AA481B	56E 39	SHLD AA481	IG DAC MDA SIG LO	
	AA482B	56E 39	SHLD AA482	IG DAC MDA SIG LO	
*	AA167	56E 39	56J15-A5	IG DAC MDA SIG LO	
*	AA481R	56E 39	56J21-238	IG DAC MDA SIG LO	128B
*	AA482L	56E 39	56J21-200	IG DAC MDA SIG LO	129B
*	AA165	56E 40	56J15-A7	MG DAC MDA SIG LO	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 434R	56E 58	56J21- 89		103B
	A 437R	56E 58	56J21- 55		104B
	A 449W	56E 58	56J21- 19		106B
*	A 440R	56E 58	56J21-120		101B
	AA176R	56E 59	56TB2-F 3		
*	AA488R	56E 59	56J21-189		160B
*	AA489R	56E 60	56J21-153		158B
*	AA569R	56E 60	56TB2-F 3		
	A 13R	56E 61	56TB2-F 3		
	A 14R	56E 61	56J21-155		159B
	A 15R	56E 61	56J21-223		161B
	A 16R	56E 61	56J21-227		163B
	A 27R	56E 61	56J21-225		162B
*	A 570	56E 62	56J10- 1	GROUP 2 SHIELD	245
*	A 571	56E 63	56J21-107	GROUP 2 SHIELD	245
*	A 568	56E 64	56J21-187	GROUP 3 SHIELD	250
*	A 569	56E 65	56J10- 27	GROUP 3 SHIELD	250
*	AA617	56E 66	56J11-L4	STRUCTURE GND	
*	AA618	56E 67	56J11-L4	STRUCTURE GND	
*	AA619	56E 68	56TB3-B20	STRUCTURE GND	
*	AA620	56E 69	56TB3-B20	STRUCTURE GND	
	AA474	56E 70	56E 47	AGC SIG 179 SHLD RET	
	AA639B	56E 70	SHLD AA639	AGC SIG 179 SHLD RET	
	AA640B	56E 70	SHLD AA640	AGC SIG 179 SHLD RET	
	AA641B	56E 70	SHLD AA641	AGC SIG 179 SHLD RET	
*	AA642	56E 70	56J21- 22	AGC SIG 179 SHLD RET	179
	AA492B	56E 71	SHLD AA492	0 VDC OPTICS	
	AA493B	56E 71	SHLD AA493	0 VDC OPTICS	
	AA496B	56E 71	SHLD AA496	0 VDC OPTICS	
	AA497B	56E 71	SHLD AA497	0 VDC OPTICS	
*	AA638	56E 71	56J18-T5	0 VDC OPTICS	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 574R	56J02- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 579W	56J02- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 579R	56J02- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 64W	56J02- 6	56TB3-N21	COS AMG 1X S1
A 65W	56J02- 7	56TB3-C14	SIN AMG 1X
A 575L	56J02- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 575W	56J02- 12	56E 5	ZEROING RSVR 800 CPS
A 574W	56J02- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 74	56J02- 15	56E 8	+28 VDC CDU NOT LOCK
A 72	56J02- 16	56E 6	+28 VDC IMU
A 64R	56J02- 20	56TB3-N20	COS AMG 1X S3
A 65R	56J02- 21	56TB3-C13	SIN AMG 1X RET
A 575R	56J02- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 77R	56J02- 28	56E 9	400 CPS VAR ILLUM PWR
A 77W	56J02- 29	56E 10	400 CPS 6 V LO
A 80	56J02- 30	56TB2-R 5	+28 VDC IMU FOR MG MDA
A 76L	56J02- 31	56TB2-L 3	MG CDU MDA OUTPUT
A 76W	56J02- 32	56TB2-K 3	MG CDU MDA OUTPUT
A 79	56J02- 34	56TB2-X 1	MG CDU 1X RSVR LOAD
A 63R	56J02- 35	56TB2-H 7	MG CDU 1X ERROR SIG
A 78	56J02- 41	56E 12	STRUCTURE GND
A 76R	56J02- 43	56TB2-K 4	0 VDC IMU
A 63W	56J02- 45	56TB2-G 7	MG CDU ERROR SIG RET
A 70R	56J02- 50	56E 4	25.6 KC HI IMU
A 62W	56J02- 57	56TB2-G 6	MG CDU ERROR SIG RET
A 70W	56J02- 60	56E 3	25.6 KC LO IMU
A 62R	56J02- 67	56TB2-H 6	MG CDU 1/2X ERROR SIG
A 67W	56J02- 86	56TB2-U 4	COS AMG 16X TO CDU
A 68W	56J02- 87	56TB2-C 7	SIN AMG 16X TO CDU
A 66W	56J02- 90	56TB2-G 8	MG CDU ERROR SIG RET
A 75W	56J02- 92	56TB2-X 6	MG CDU MDA INPUT RET
A 69R	56J02- 94	56TB2-C 6	MG CDU ENCODER COM
A 67R	56J02-100	56TB2-U 5	COS AMG 16X S3
A 68R	56J02-101	56TB2-B 7	SIN AMG 16X S4
A 66R	56J02-104	56TB2-H 8	MG CDU 16X ERROR SIG
A 75L	56J02-105	56TB2-X 5	MG CDU MDA SLEW SIG
A 75R	56J02-106	56TB2-W 5	MG CDU MDA TACH SIG
A 69W	56J02-107	56TB2-B 6	MG CDU ENCODER PHASE 1
A 69L	56J02-108	56TB2-A 6	MG CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 84R	56J03- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 580W	56J03- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 580R	56J03- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 87W	56J03- 6	56TB2-N 7	COS AOG 1X S1
A 88W	56J03- 7	56TB2-U 8	SIN AOG 1X S4
A 576L	56J03- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 576W	56J03- 12	56E 5	ZEROING RSVR 800 CPS
A 84W	56J03- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 582	56J03- 15	56E 8	+28 VDC CDU NOT LOCK
A 581	56J03- 16	56E 6	+28 VDC IMU
A 87R	56J03- 20	56TB2-R 8	COS AOG 1X TO CDU
A 88R	56J03- 21	56TB2-T 8	SIN AOG 1X TO CDU
A 576R	56J03- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 98R	56J03- 28	56E 9	400 CPS VAR ILLUM PWR
A 98W	56J03- 29	56E 10	400 CPS 6 V LO
A 102	56J03- 30	56TB2-K 8	+28 VDC IMU FOR OG MDA
A 97L	56J03- 31	56TB2-K 6	OG CDU MDA OUTPUT
A 97W	56J03- 32	56TB2-K 5	OG CDU MDA OUTPUT
A 100	56J03- 34	56TB2-S 1	OG CDU 1X RSVR LOAD
A 86R	56J03- 35	56TB2-N 2	OG CDU 1X ERROR SIG
A 99	56J03- 41	56E 12	STRUCTURE GND
A 97R	56J03- 43	56TB2-K 4	0 VDC IMU
A 86W	56J03- 45	56TB2-R 2	OG CDU ERROR SIG RET
A 93R	56J03- 50	56E 4	25.6 KC HI IMU
A 85W	56J03- 57	56TB2-R 1	OG CDU ERROR SIG RET
A 93W	56J03- 60	56E 3	25.6 KC LO IMU
A 85R	56J03- 67	56TB2-N 1	OG CDU 1/2X ERROR SIG
A 90W	56J03- 86	56TB2-X 4	COS AOG 16X TO CDU
A 91W	56J03- 87	56TB2-X 2	SIN AOG 16X TO CDU
A 101	56J03- 89	56TB2-T 1	OG CDU 16X RSVR LOAD
A 89W	56J03- 90	56TB2-R 3	OG CDU ERROR SIG RET
A 96W	56J03- 92	56TB2-R 7	OG CDU MDA INPUT RET
A 92R	56J03- 94	56TB2-A 4	OG CDU ENCODER COM
A 90R	56J03-100	56TB2-W 4	COS AOG 16X S3
A 91R	56J03-101	56TB2-W 2	SIN AOG 16X S4
A 89R	56J03-104	56TB2-N 3	OG CDU 16X ERROR SIG
A 96L	56J03-105	56TB2-R 6	OG CDU MDA SLEW SIG
A 96R	56J03-106	56TB2-N 6	OG CDU MDA TACH SIG
A 92W	56J03-107	56TB2-B 4	OG CDU ENCODER PHASE 1

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 572R	56J01- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 578W	56J01- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 578R	56J01- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 40W	56J01- 6	56TB3-F13	COS AIG 1X RET P1
A 41W	56J01- 7	56TB3-D14	SIN AIG 1X P2
A 573L	56J01- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 573W	56J01- 12	56E 5	ZEROING RSVR 800 CPS
A 572W	56J01- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 50	56J01- 15	56E 8	+28 VDC CDU NOT LOCK
A 48	56J01- 16	56E 6	+28 VDC IMU
A 40R	56J01- 20	56TB3-F14	COS AIG 1X P3
A 41R	56J01- 21	56TB3-D13	SIN AIG 1X RET P4
A 573R	56J01- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 53R	56J01- 28	56E 9	400 CPS VAR ILLUM PWR
A 53W	56J01- 29	56E 10	400 CPS 6 V LO
A 56	56J01- 30	56TB2-N 5	+28 VDC IMU FOR IG MDA
A 52L	56J01- 31	56TB2-L 5	IG CDU MDA OUTPUT
A 52W	56J01- 32	56TB2-L 6	IG CDU MDA OUTPUT
A 55	56J01- 34	56TB2-W 1	IG CDU 1X RSVR LOAD S1
A 39R	56J01- 35	56TB2-H 2	IG CDU 1X ERROR SIG S2
A 54	56J01- 41	56E 12	STRUCTURE GND
A 52R	56J01- 43	56TB2-K 4	0 VDC IMU
A 39W	56J01- 45	56TB2-G 2	IG CDU ERROR SIG RET
A 46R	56J01- 50	56E 4	25.6 KC HI IMU
A 38W	56J01- 57	56TB2-G 3	IG CDU ERROR SIG RET S1
A 46W	56J01- 60	56E 3	25.6 KC LO IMU
A 38R	56J01- 67	56TB2-H 3	IG CDU 1/2X ERROR SIG S3
A 43W	56J01- 86	56TB2-W 7	COS AIG 16X TO CDU
A 44W	56J01- 87	56TB2-C 8	SIN AIG 16X TO CDU
A 42W	56J01- 90	56TB2-G 1	IG CDU ERROR SIG RET
A 51W	56J01- 92	56TB2-T 7	IG CDU MDA INPUT RET
A 45R	56J01- 94	56TB2-A 5	IG CDU ENCODER COM
A 43R	56J01-100	56TB2-W 6	COS AIG 16X S3
A 44R	56J01-101	56TB2-B 8	SIN AIG 16X S4
A 42R	56J01-104	56TB2-H 1	IG CDU 16X ERROR SIG
A 51L	56J01-105	56TB2-T 6	IG CDU MDA SLEW SIG
A 51R	56J01-106	56TB2-U 6	IG CDU MDA TACH SIG
A 45W	56J01-107	56TB2-B 5	IG CDU ENCODER PHASE 1
A 45L	56J01-108	56TB2-C 5	IG CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 92L	56J03-108	56TB2-C 4	OG CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 586R	56J05- 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 600W	56J05- 2	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 600R	56J05- 3	56TB2-U 1	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 585R	56J05- 4	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130R	56J05- 8	56TB3-G10	TRUNNION CDU 1/4X SIN HI
A 131R	56J05- 9	56TB3-F16	TRUNNION CDU 1/4X COS HI
A 131W	56J05- 10	56TB3-G16	TRUNNION CDU 1/4X COS LO
A 133	56J05- 11	56E 18	TRUNNION CDU 1/2X RSVR P3
A 132R	56J05- 12	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
A 586W	56J05- 14	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 585L	56J05- 17	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 585W	56J05- 18	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130W	56J05- 22	56TB3-F10	TRUNNION CDU 1/4X SIN LO
A 149	56J05- 25	56E 18	TRUNNION CDU 1/2X RSVR P3
A 146R	56J05- 28	56E 9	400 CPS VAR ILLUM PWR
A 146W	56J05- 29	56E 10	400 CPS 6 V LO
A 145L	56J05- 31	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
A 145W	56J05- 32	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
A 147	56J05- 41	56E 12	STRUCTURE GND
A 145R	56J05- 43	56TB3-B16	+28 VDC OPTICS SWITCHED
A 583R	56J05- 50	56E 17	25.6 KC HI OPTICS
A 148R	56J05- 56	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI
A 583W	56J05- 60	56E 16	25.6 KC LO OPTICS
A 148W	56J05- 66	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO
A 134W	56J05- 67	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
A 134R	56J05- 68	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
A 137W	56J05- 86	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
A 138W	56J05- 87	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
A 136	56J05- 89	56TB3-N18	TRUNNION CDU 16X LOAD
A 135W	56J05- 90	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
A 144W	56J05- 92	56TB3-M 7	TRUNNION CDU TACH LO
A 139R	56J05- 94	56TB3-T 5	TRUNNION CDU ENCODER COM
A 137R	56J05-100	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
A 138R	56J05-101	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
A 135R	56J05-104	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
A 144R	56J05-106	56TB3-M 8	TRUNNION CDU TACH HI
A 139W	56J05-107	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1
A 139L	56J05-108	56TB3-T 6	TRUNNION CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 150R	56J06- 1	56P01- 1	PITCH ATTITUDE ERROR METER +
A 150W	56J06- 2	56P01- 2	PITCH ATTITUDE ERROR METER -
A 161	56J06- 6	56P01- 6	ENTRY RELAY CONTROL RESET
A 160	56J06- 9	56P01- 9	MODE SWITCH INTERLOCK
A 154	56J06- 12	56TB1-K 7	MODE RELAY COMMON TO AGC
A 151R	56J06- 14	56P01- 14	YAW ATTITUDE ERROR METER +
A 151W	56J06- 15	56P01- 15	YAW ATTITUDE ERROR METER -
A 157	56J06- 18	56P01- 18	MODE RELAY COMMON TO D AND C ELECT
A 175	56J06- 22	56P01- 22	ATTITUDE CONTROL MODE LIGHT
A 165	56J06- 23	56P01- 23	FINE ALIGN RELAY CONTROL
A 166	56J06- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
A 167	56J06- 25	56P01- 25	ENTRY RELAY CONTROL
A 152W	56J06- 28	56P01- 28	ROLL ATTITUDE ERROR METER -
A 152R	56J06- 29	56P01- 29	ROLL ATTITUDE ERROR METER +
A 162	56J06- 34	56P01- 34	ZERO ENCODER RELAY CONTROL
A 163	56J06- 35	56P01- 35	COARSE ALIGN RELAY CONTROL
A 164	56J06- 36	56P01- 36	CDU MANUAL RELAY CONTROL
A 159	56J06- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL
A 177	56J06- 46	56P01- 46	ATTITUDE CONTROL MODE INTERLOCK
A 170	56J06- 56	56P01- 56	MANUAL ALIGN
A 155W	56J06- 68	56TB2-D 2	AGC COM
A 156W	56J06- 69	56J21-228	TRANSFER SWITCH INDICATION TO AGC 164A
A 169	56J06- 78	56TB2-L 4	0 VDC IMU
A 176	56J06- 79	56P01- 79	ENTRY MODE LIGHT
A 158	56J06- 81	56TB1-F 8	ATTIT CONT MODE COMMAND FROM AGC
A 178	56J06- 91	56TB3-B21	STRUCTURE GND
A 172	56J06- 92	56P01- 92	COARSE ALIGN MODE LIGHT
A 168	56J06- 93	56P01- 93	MODE RELAY COMMON
A 174	56J06- 94	56P01- 94	FINE ALIGN MODE LIGHT
A 171	56J06-104	56P01-104	ZERO ENCODER MODE LIGHT
A 173	56J06-105	56P01-105	CDU MANUAL MODE LIGHT
A 153W	56J06-107	56TB1-S 2	400 CPS 6 V LO
A 153R	56J06-108	56TB1-S 1	400 CPS VAR ILLUM PWR

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 104R	56J04- 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 599W	56J04- 2	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 599R	56J04- 3	56TB2-U 1	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 110R	56J04- 6	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
A 111R	56J04- 7	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
A 584W	56J04- 11	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 584L	56J04- 12	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 104W	56J04- 14	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 110W	56J04- 20	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
A 111W	56J04- 21	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
A 584R	56J04- 25	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 123R	56J04- 28	56E 9	400 CPS VAR ILLUM PWR
A 123W	56J04- 29	56E 10	400 CPS 6 V LO
A 122L	56J04- 31	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
A 122W	56J04- 32	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
A 109L	56J04- 34	56TB3-T12	SHAFT CDU 1X P1 (S1)
A 109W	56J04- 35	56TB3-S12	SHAFT CDU 1X P2 (S2)
A 124	56J04- 41	56E 12	STRUCTURE GND
A 122R	56J04- 43	56TB3-B17	+28 VDC OPTICS SWITCHED
A 109R	56J04- 45	56TB3-R12	SHAFT CDU 1X P3 (S3)
A 117R	56J04- 50	56E 17	25.6 KC HI OPTICS
A 108W	56J04- 56	56TB3-N14	SHAFT CDU 1/2X COS HI S2
A 107R	56J04- 57	56TB3-K11	SHAFT CDU 1/2X SIN LO S3
A 117W	56J04- 60	56E 16	25.6 KC LO OPTICS
A 108R	56J04- 66	56TB3-N13	SHAFT CDU 1/2X COS LO S4
A 107W	56J04- 67	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 114W	56J04- 86	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
A 115W	56J04- 87	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
A 113	56J04- 89	56TB3-M18	SHAFT CDU 16X LOAD
A 112W	56J04- 90	56TB3-H11	SHAFT CDU 16X ERROR SIG LO
A 121W	56J04- 92	56TB3-L 8	SHAFT CDU TACH LO
A 116R	56J04- 94	56TB3-S 5	SHAFT CDU ENCODER COM
A 114R	56J04-100	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
A 115R	56J04-101	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
A 112R	56J04-104	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
A 121R	56J04-106	56TB3-L 7	SHAFT CDU TACH HI
A 116W	56J04-107	56TB3-S 6	SHAFT CDU ENCODER PHASE 1
A 116L	56J04-108	56TB3-S 4	SHAFT CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 208	56J08- 17	56E 19	0 VDC IMU
A 202	56J08- 18	56TB2-S 8	GIMBAL LOCK LIGHT HI
A 603K	56J08- 19	56TB1-R 2	400 CPS 6 V LO
A 205	56J08- 28	56E 19	0 VDC IMU
A 215	56J08- 29	56TB3-B21	STRUCTURE GND
A 204	56J08- 30	56E 19	0 VDC IMU
A 194	56J08- 31	56E 19	0 VDC IMU
A 207	56J08- 32	56J22- 71	+28 VDC SPACECRAFT
A 210R	56J08- 35	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
A 603W	56J08- 36	56TB1-R 2	400 CPS 6 V LO
A 203	56J08- 41	56TB3-B 4	ZERO ENCODER LIGHT HI
A 193	56J08- 42	56TB1-U 2	IMU DELAY LIGHT HI
A 206	56J08- 43	56J22- 72	MASTER CAUTION LIGHT RET
A 210W	56J08- 45	56TB3-L 6	400 CPS 0.5 V PI PHASE
A 603L	56J08- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY
A 565	56J08- 50	56TB1-F 1	SPARE FAIL LIGHT HI
A 187	56J08- 51	56TB1-H 8	ERROR DETECT LIGHT HI
A 212	56J08- 52	56E 19	0 VDC IMU
A 196	56J08- 53	56J22- 38	MASTER WARNING LIGHT RET
A 197	56J08- 54	56J22- 37	+28 VDC SPACECRAFT
A 603R	56J08- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY
A 188	56J08- 60	56TB3-M 6	IMU FAIL LIGHT HI
A 189	56J08- 61	56E 20	0 VDC IMU
A 192	56J08- 62	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 213	56J08- 63	56E 20	0 VDC IMU
A 209R	56J08- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED
A 181	56J08- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 400 CPS
A 179	56J08- 67	56TB1-G 1	+28 VDC MDV
A 182R	56J08- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC
A 195	56J08- 70	56E 19	0 VDC IMU
A 198	56J08- 71	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 200	56J08- 72	56TB3-B 3	CDU FAIL LIGHT HI
A 190	56J08- 73	56TB3-B 5	ACCEL FAIL LIGHT HI
A 209W	56J08- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED
A 184	56J08- 78	56TB2-S 7	STEP-UP-C
A 186	56J08- 79	56TB2-S 5	STEP-DOWN-C
A 182W	56J08- 81	56TB3-B12	400 CPS 26 V SLEW
A 214	56J08- 82	56TB2-D 6	0 VDC IMU
A 201	56J08- 83	56E 20	0 VDC IMU

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 429	56J09- 1	56TB3-L22	0 VDC OPTICS	
A 392	56J09- 2	56TB3-M 3	TRUNNION ENCODER PIN 8	
A 389W	56J09- 3	56J22-193	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 387W	56J09- 4	56J22-233	PITCH ATTIT IMPULSE CONTR OUTPUT UP	
A 387L	56J09- 5	56J22-232	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN	
A 388L	56J09- 6	56J22-197	YAW ATTIT IMPULSE CONTR OUTPUT LEFT	
A 388R	56J09- 7	56J22-235	YAW ATTIT IMPULSE CONTR INPUT	
A 425R	56J09- 10	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI	
A 668	56J09- 14	56TB3-F 2	SPACECRAFT LAMP TEST	
A 667	56J09- 15	56TB3-F 1	0 VDC SPACECRAFT	
A 389R	56J09- 16	56J22-230	ROLL ATTIT IMPULSE CONTR INPUT	
A 389L	56J09- 17	56J22-192	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT	
A 387R	56J09- 18	56J22-195	PITCH ATTIT IMPULSE CONTR INPUT	
A 426R	56J09- 19	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI	
A 388W	56J09- 20	56J22-198	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 391	56J09- 21	56TB3-K 4	TRUNNION ENCODER PIN 9	
A 425W	56J09- 23	56TB3-M11	RSVR DRIVE AMP INPUT LO	
A 425L	56J09- 24	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
A 437W	56J09- 25	56J21- 54	OPTICS ZERO ENCODER	104A
A 450	56J09- 26	56TB2-D 6	0 VDC IMU	
* A 453	56J09- 29	56P10- 10	GIMBAL LOCK LIGHT CONDITION LAMP TEST	
A 433W	56J09- 30	56J21- 86	MARK	102A
A 434W	56J09- 31	56J21- 88	NOT MARK	103A
A 431R	56J09- 32	56TB2-A 2	PANEL BRIGHTNESS CONTROL	
A 426W	56J09- 33	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO	
A 427W	56J09- 34	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
A 427R	56J09- 35	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
A 420	56J09- 36	56E 56	AGC COMMON	
A 449R	56J09- 37	56J21- 18	OPTICS MODE SW COMPUTER INDICATION	106A
A 670W	56J09- 38	56TB3-B17	+28 VDC OPTICS SWITCHED	
A 393W	56J09- 40	56J22-200	0 VDC FROM NAA	
A 393R	56J09- 41	56J22-237	+28 VDC FROM NAA	
A 415	56J09- 42	56E 56	AGC COMMON	
A 431W	56J09- 44	56TB2-A 1	PANEL BRIGHTNESS CONTROL	
A 604W	56J09- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY	
A 673	56J09- 47	56TB3-A10	+28 VDC OPTICS DAC POWER	
A 671W	56J09- 48	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
A 670R	56J09- 49	56TB3-B16	+28 VDC OPTICS SWITCHED	
A 393L	56J09- 50	56J22-238	ATTITUDE DISABLE SIG TO NAA	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 435	56J09- 51	56TB3-M22	+28 VDC MDV	
A 606K	56J09- 52	56P10-108	400 CPS 6 V LO	
A 606L	56J09- 53	56P10-107	400 CPS 6 V HI	
A 605R	56J09- 54	56TB1-R 1	400 CPS VAR ILLUM PWR	
A 604R	56J09- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY	
A 672W	56J09- 56	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
A 405	56J09- 58	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 404	56J09- 59	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 406	56J09- 60	56E 56	AGC COMMON	
A 606R	56J09- 61	56P10-106	400 CPS 6 V HI	
A 606W	56J09- 62	56P10- 93	400 CPS 6 V HI	
A 605K	56J09- 63	56TB1-M 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
A 605L	56J09- 64	56TB1-N 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
A 448R	56J09- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED	
A 408	56J09- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 400 CPS	
A 410	56J09- 67	56TB1-G 1	+28 VDC MDV	
A 409R	56J09- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC	
A 416W	56J09- 69	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS	
A 407W	56J09- 70	56J21- 16	SXT PWR ON INDICATION TO AGC	105A
A 445	56J09- 71	56TB3-M20	+28 VDC OPTICS	
A 394	56J09- 72	56TB3-B11	ZERO OPTICS RELAY CONTROL	
A 390	56J09- 73	56TB3-F 3	CONDITION LAMP TEST	
A 403	56J09- 74	56TB3-H 5	IMU TEMP ALARM AMP PIN 15	
A 444	56J09- 75	56TB3-K 5	IMU TEMP ALARM AMP PIN 14	
A 400	56J09- 76	56TB3-L 5	IMU TEMP CONT K2 PIN 6	
A 448W	56J09- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED	
A 414	56J09- 78	56TB2-S 7	STEP-UP-C	
A 412	56J09- 79	56TB2-S 5	STEP-DOWN-C	
A 416R	56J09- 80	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS	
A 409W	56J09- 81	56TB3-B12	400 CPS 26 V SLEW	
A 669W	56J09- 82	56TB2-U 2	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD	
A 436	56J09- 83	56TB3-L15	0 VDC OPTICS	
A 605W	56J09- 84	56TB1-K 1	MODE LAMP TEST PWR	
A 442	56J09- 85	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6	
A 398	56J09- 86	56TB3-L 1	IRIG TEMP GAIN SWITCH NC	
A 401L	56J09- 87	56TB3-H 1	IMU TEMP CONT AMP PIN 5	
A 401K	56J09- 88	56TB3-G 2	IMU TEMP CONT K2 PIN 5	
A 443	56J09- 89	56TB3-G 3	IRIG ZERO DEVIATION CHECK	
A 402	56J09- 90	56TB3-N 6	EMERG HTR CONT MODULE LO	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 191	56J08- 84	56E 20	0 VDC IMU
A 211	56J08- 92	56TB1-S 5	0 VDC IMU
A 185	56J08- 93	56TB2-S 4	STEP-DOWN-R
A 199	56J08- 95	56TB3-B14	400 CPS 26 V LO
A 183	56J08-106	56TB2-S 6	STEP-UP-R

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 451	56J09- 91	56TB3-F22	STRUCTURE GND
A 438	56J09- 92	56TB3-K 1	IMU TEMP ALARM AMP PIN 5
A 411	56J09- 93	56TB2-S 4	STEP-DOWN-R
A 439	56J09- 94	56TB3-D 1	0 VDC IMU
A 447	56J09- 95	56P10- 48	400 CPS 26 V HI
A 669R	56J09- 96	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 395	56J09- 97	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 396	56J09- 98	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
A 428	56J09- 99	56TB3-L18	COSECANT RELAY CONTROL
A 401R	56J09-100	56TB3-G 1	IMU HTR CURRENT AMP PIN 5
A 401W	56J09-101	56TB3-H 2	IMU TEMP CONT K1 PIN 3
A 399	56J09-102	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
A 441	56J09-103	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
A 397	56J09-104	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
A 446	56J09-105	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
A 413	56J09-106	56TB2-S 6	STEP-UP-R

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 486R	56J10- 41	56J21-146	ALARM 2	230A
A 470R	56J10- 42	56J21- 47	TIMING (1.5 CPS)	244A
A 490R	56J10- 43	56J21-216	ALARM 7	235A
A 489R	56J10- 44	56J21- 8	ALARM 6	234A
A 522	56J10- 45	56J21- 10	SPARE	248
A 523	56J10- 46	56J21- 11	SPARE	249
A 515R	56J10- 47	56J21-185	OR OF C1 THRU C33	210A
A 517R	56J10- 48	56J21-220	ERROR RESET	208A
A 468W	56J10- 49	56J21- 12	KEY RESET NAV	209A
A 492R	56J10- 51	56J21-148	ALARM 9	237A
A 491R	56J10- 53	56J21-181	ALARM 8	236A
A 513	56J10- 55	56J21-174	+3 V B	240
A 512	56J10- 56	56J21-173	GND	239
A 477	56J10- 57	56J21-108	+13 V B	241
A 509	56J10- 58	56J21- 39	GND	239
A 481	56J10- 59	56J21- 40	+28 VDC AGC	243
A 496R	56J10- 60	56J21-142	OUT 0 3	216A
A 500R	56J10- 61	56J21-212	OUT 0 8	221A
A 501R	56J10- 62	56J21-177	OUT 0 9	222A
A 502R	56J10- 63	56J21-144	OUT 0 10	223A
A 493R	56J10- 64	56J21-115	ALARM 10	238A
A 476	56J10- 70	56J21- 3	SPARE	211
A 473	56J10- 71	56J21- 75	SPARE	212
A 469	56J10- 72	56J21-141	SPARE	213
A 494R	56J10- 73	56J21-210	OUT 0 1	214A
A 495R	56J10- 74	56J21-175	OUT 0 2	215A
A 520	56J10- 75	56J21-209	SPARE	247
A 519	56J10- 82	56E 26	COMMONED RETURNS GROUND	330

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
AA 15W	56J11-A1	56TB2-H 2	IG CDU 1X ERROR SIG
AA 19W	56J11-A2	56TB2-H 7	MG CDU 1X ERROR SIG
AA 21W	56J11-A3	56TB2-N 2	OG CDU 1X ERROR SIG
AA 10R	56J11-A5	56J12-A2	IMU MG ERROR SIG
AA 29R	56J11-A5	56TB1-A 7	IMU MG ERROR SIG
AA 10L	56J11-A6	56J12-B1	IMU OG ERROR SIG
AA 29L	56J11-A6	56TB1-A 8	IMU OG ERROR SIG
AA 15R	56J11-B1	56TB2-G 2	IG CDU ERROR SIG RET
AA 16W	56J11-B1	56TB1-B 5	IG CDU ERROR SIG RET
AA 19R	56J11-B2	56TB2-G 7	MG CDU ERROR SIG RET
AA 20W	56J11-B2	56TB1-A 6	MG CDU ERROR SIG RET
AA 11R	56J11-B3	56J17-B1	OG CDU ERROR SIG RET
AA 21R	56J11-B3	56TB2-R 2	OG CDU ERROR SIG RET
AA 10K	56J11-B5	56J12-B2	IMU GIMBAL AND GYRO ERROR SIG LO
AA 29K	56J11-B5	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
AA 10W	56J11-B6	56J12-A1	IMU IG AND Y GYRO ERROR SIG
AA 29W	56J11-B6	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
AA 16R	56J11-C1	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR
AA 20R	56J11-C2	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR
AA 11W	56J11-C3	56J17-A1	OG CDU ATTITUDE STEERING ERROR
AA 30W	56J11-D5	56TB1-D 4	IG TORQUE MOTOR RET
AA 30R	56J11-D6	56TB1-D 3	IG TORQUE MOTOR HI
AA 23R	56J11-F1	56TB1-C 4	IG ADA
AA 42W	56J11-F3	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
AA 32R	56J11-F6	56TB1-A 4	MG TORQUE MOTOR HI
AA 23K	56J11-G1	56TB1-C 3	OG ADA
AA 23W	56J11-G2	56TB1-B 3	0 VDC IMU
AA 24	56J11-G2	56J11-P6	0 VDC IMU
AA 42R	56J11-G3	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
AA 32W	56J11-G6	56TB1-A 3	MG TORQUE MOTOR RET
AA 23L	56J11-H1	56TB1-B 4	MG ADA
AA 34W	56J11-H5	56TB1-B 2	OG TORQUE MOTOR RET
AA 34R	56J11-H6	56TB1-A 2	OG TORQUE MOTOR HI
AA 9W	56J11-L1	56J12-H2	3200 CPS 2 V HI
AA 28W	56J11-L1	56TB1-D 2	3200 CPS 2 V HI
AA 9R	56J11-L2	56J12-K2	3200 CPS 2 V LO
AA 28K	56J11-L2	56TB1-C 2	3200 CPS 2 V LO
AA 35	56J11-L3	56TB1-D 6	COARSE ALIGN RELAY CONTROL
AA 7	56J11-L4	56J12-K3	STRUCTURE GND

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 570	56J10- 1	56E 62	GROUP 2 SHIELD	245
A 464	56J10- 2	56TB3-F 3	CONDITION LAMP TEST	328
A 474W	56J10- 3	56TB3-B 4	ZERO ENCODER LIGHT HI	301
A 474R	56J10- 4	56TB3-B 3	CDU FAIL LIGHT HI	302
A 474L	56J10- 5	56TB3-B 5	ACCEL FAIL LIGHT HI	303
A 465	56J10- 6	56TB3-M 6	IMU FAIL LIGHT HI	304
A 466	56J10- 7	56TB1-F 1	SPARE FAIL LIGHT HI	305
A 507	56J10- 8	56TB3-M22	+28 VDC MDV	306
A 478	56J10- 9	56TB1-H 5	AGC FAIL SIG	326
A 508	56J10- 10	56TB1-G 5	+28 VDC TO COMPUTER RELAY	327
A 475	56J10- 12	56TB1-F 8	ATTIT CONT MODE COMMAND FROM AGC	314
A 521	56J10- 13	56TB1-K 7	MODE RELAY COMMON TO AGC	315
A 503R	56J10- 14	56J21-111	OUT 0 11	224A
A 506R	56J10- 15	56J21- 78	OUT 0 12	225A
A 504R	56J10- 16	56J21- 43	OUT 0 13	226A
A 483R	56J10- 17	56J21- 6	OUT 0 14	227A
A 484R	56J10- 18	56J21-214	OUT 0 15	228A
A 487R	56J10- 19	56J21-113	ALARM 3	231A
A 471R	56J10- 20	56J21- 82	POWER SYNC	242A
A 479W	56J10- 21	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC	307
A 479L	56J10- 22	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC	308
A 480L	56J10- 23	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC	309
A 479R	56J10- 24	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC	310
A 480R	56J10- 25	56TB1-K 6	ENTRY MODE COMMAND FROM AGC	311
A 480W	56J10- 26	56TB1-K 7	MODE RELAY COMMON TO AGC	312
A 569	56J10- 27	56E 65	GROUP 3 SHIELD	250
A 497R	56J10- 28	56J21-109	OUT 0 4	217A
A 498R	56J10- 29	56J21- 76	OUT 0 5	218A
A 499R	56J10- 30	56J21- 41	OUT 0 6	219A
A 505R	56J10- 31	56J21- 4	OUT 0 7	220A
A 482R	56J10- 32	56J21- 80	ALARM 4	232A
A 488R	56J10- 33	56J21- 45	ALARM 5	233A
A 516R	56J10- 34	56J21-218	KEY CODE 1	201A
A 514R	56J10- 35	56J21-183	KEY CODE 2	202A
A 472R	56J10- 36	56J21-150	KEY CODE 3	203A
A 511R	56J10- 37	56J21-117	KEY CODE 4	204A
A 467R	56J10- 38	56J21- 84	KEY CODE 5	205A
A 510R	56J10- 39	56J21- 14	TEST ALARM	207A
A 485R	56J10- 40	56J21-179	ALARM 1	229A

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA617	56J11-L4	56E 66	STRUCTURE GND	
	AA618	56J11-L4	56E 67	STRUCTURE GND	
*	AA503R	56J11-L6	56J21-203	COMPUTER 3200 PPS OUT OF PHASE SYNC	152A
	AA 28R	56J11-M1	56TB1-D 2	3200 CPS 2 V HI	
	AA 28L	56J11-M2	56TB1-C 2	3200 CPS 2 V LO	
	AA 36	56J11-M5	56E 28	COMPUTER 3200 PPS SYNC RET	
	AA 37	56J11-M5	56J11-P3	0 VDC IMU	
*	AA504R	56J11-M6	56J21-241	COMPUTER 3200 PPS IN PHASE SYNC	151A
	AA 12R	56J11-N1	56J17-P2	3200 CPS 20 V CT	
	AA 12L	56J11-N2	56J17-R2	3200 CPS 20 V LO	
	AA610	56J11-N3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
	AA 5R	56J11-N4	56J12-P3	800 CPS 28 V 1 PCT LO IMU	
	AA 5W	56J11-N5	56J12-N3	800 CPS 28 V 1 PCT HI IMU	
	AA 14	56J11-N6	56J13-P6	-28 VDC	
	AA 27	56J11-N6	56TB1-D 5	-28 VDC	
	AA 12W	56J11-P1	56J17-N2	3200 CPS 20 V HI	
	AA 38	56J11-P2	56J11-R3	0 VDC IMU	
	AA 39	56J11-P3	56J11-R3	0 VDC IMU	
*	AA 37	56J11-P3	56J11-M5	0 VDC IMU	
	AA 18	56J11-P4	56J11-R4	0 VDC IMU	
	AA 22	56J11-P4	56J11-P5	0 VDC IMU	
*	AA 22	56J11-P5	56J11-P4	0 VDC IMU	
	AA 26	56J11-P6	56J11-R6	0 VDC IMU	
	AA 46	56J11-P6	56TB1-S 3	0 VDC IMU	
*	AA 24	56J11-P6	56J11-G2	0 VDC IMU	
	AA 41	56J11-R1	56J11-R2	0 VDC IMU	
	AA 44	56J11-R1	56TB2-M 2	0 VDC IMU	
	AA 45	56J11-R2	56TB2-M 3	0 VDC IMU	
*	AA 41	56J11-R2	56J11-R1	0 VDC IMU	
	AA 43	56J11-R3	56TB2-M 1	0 VDC IMU	
*	AA 38	56J11-R3	56J11-P2	0 VDC IMU	
*	AA 39	56J11-R3	56J11-P3	0 VDC IMU	
	AA 17	56J11-R4	56J11-R5	0 VDC IMU	
*	AA 18	56J11-R4	56J11-P4	0 VDC IMU	
	AA 31	56J11-R5	56J11-R6	0 VDC IMU	
*	AA 17	56J11-R5	56J11-R4	0 VDC IMU	
	AA 33	56J11-R6	56J11-S6	0 VDC IMU	
*	AA 26	56J11-R6	56J11-P6	0 VDC IMU	
*	AA 31	56J11-R6	56J11-R5	0 VDC IMU	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA 10W	56J12-A1	56J11-B6	IMU IG AND Y GYRO ERROR SIG	
*	AA 10R	56J12-A2	56J11-A5	IMU MG ERROR SIG	
	AA 75	56J12-A5	56J13-D2	X PIP ERROR MONITOR	
	AA 76	56J12-A6	56J13-F2	Y PIP ERROR MONITOR	
*	AA 10L	56J12-B1	56J11-A6	IMU OG ERROR SIG	
*	AA 10K	56J12-B2	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA 77	56J12-B5	56E 34	0 VDC IMU	
	AA 47	56J12-B6	56J14-H6	Z PIP ERROR MONITOR	
*	AA232L	56J12-D1	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	
*	AA232R	56J12-D2	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	
	AA641L	56J12-D4	56J21- 60	ACCEL FAIL	138A
	AA640L	56J12-D5	56J21-158	CDU FAIL	124A
	AA639L	56J12-D6	56J21- 28	IMU FAIL	141A
	AA 67	56J12-F1	56E 31	COMPUTER 800 PPS SYNC RET	
	AA 68	56J12-F1	56J12-F2	COMPUTER 800 PPS SYNC RET	
	AA 69	56J12-F2	56E 29	COMPUTER 25.6 KPPS SYNC RET	
*	AA 68	56J12-F2	56J12-F1	COMPUTER 800 PPS SYNC RET	
	AA 97	56J12-F3	56J17-M3	0 VDC SPACECRAFT	
	AA641R	56J12-F4	56J21- 61	ACCEL FAIL RET	138B
	AA640R	56J12-F5	56J21-159	CDU FAIL RET	124B
	AA639R	56J12-F6	56J21- 29	IMU FAIL RET	141B
*	AA490L	56J12-G1	56J21-169	COMPUTER 25.6 KPPS IN PHASE SYNC	153A
*	AA491R	56J12-G2	56J21-136	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA 74	56J12-G3	56J22-244	ERROR DETECT LIGHT MAIN PANEL	
	AA 53	56J12-G4	56J20-L6	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP	
	AA 59	56J12-G5	56J16-R2	0 VDC IMU	
	AA 71	56J12-G5	56J12-R5	0 VDC IMU	
	AA 58	56J12-G6	56J16-N3	OG CDU FAILURE INDICATION	
	AA 70R	56J12-H1	56J21- 71	COMPUTER 102.4 KPPS SYNC RET	156B
*	AA 70A	56J12-H1	SHLD AA 70	COMPUTER 102.4 KPPS SYNC RET	
	AA 48W	56J12-H2	56J15-S4	3200 CPS 2 V HI	
*	AA 9W	56J12-H2	56J11-L1	3200 CPS 2 V HI	
	AA 52W	56J12-H4	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 62	56J12-H4	56J12-N2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 56	56J12-H5	56J16-M2	IG CDU FAILURE INDICATION	
	AA 57	56J12-H6	56J16-M3	MG CDU FAILURE INDICATION	
	AA 70L	56J12-K1	56J21- 70	COMPUTER 102.4 KPPS SYNC	156A
	AA 48R	56J12-K2	56J15-R4	3200 CPS 2 V LO	
*	AA 9R	56J12-K2	56J11-L2	3200 CPS 2 V LO	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA 72	56J12-K3	56J13-C6	STRUCTURE GND	
*	AA 7	56J12-K3	56J11-L4	STRUCTURE GND	
	AA 52R	56J12-K4	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
	AA 73L	56J12-K6	56J14-R2	+12, +120 VDC RET GYRO	
	AA 82	56J12-L1	56TB3-M22	+28 VDC MDV	
	AA 83	56J12-L2	56TB1-H 8	ERROR DETECT LIGHT HI	
	AA 95R	56J12-L5	56J13-R3	+32 VDC RET GYRO	
	AA 73R	56J12-L6	56J14-S2	+120 VDC GYRO	
	AA 80	56J12-M1	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI	
	AA 81	56J12-M1	56J21- 36	AGC POWER SUPPLY FAIL SIG HI	157A
	AA 78	56J12-M3	56TB1-H 5	AGC FAIL SIG	
	AA 79	56J12-M4	56TB1-G 5	+28 VDC TO COMPUTER RELAY	
	AA 95W	56J12-M5	56J13-S3	+32 VDC GYRO	
	AA 73W	56J12-M6	56J14-S3	+12 VDC GYRO	
	AA 61	56J12-N1	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 62	56J12-N2	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 49W	56J12-N3	56J15-P6	800 CPS 28 V 1 PCT HI IMU	
*	AA 5W	56J12-N3	56J11-N5	800 CPS 28 V 1 PCT HI IMU	
	AA 64W	56J12-N4	56TB1-H 4	25.6 KC HI IMU	
	AA 65	56J12-N4	56J12-N5	25.6 KC HI IMU	
	AA 50W	56J12-N5	56J15-N6	25.6 KC HI IMU	
*	AA 65	56J12-N5	56J12-N4	25.6 KC HI IMU	
	AA 63R	56J12-N6	56TB1-G 7	25.6 KC LO OPTICS	
	AA 94R	56J12-N6	56J17-N3	25.6 KC LO OPTICS	
	AA643	56J12-N6	56J12-R6	0 VDC OPTICS	
	AA 60L	56J12-P1	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 61	56J12-P1	56J12-N1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
	AA 60W	56J12-P2	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
	AA 49R	56J12-P3	56J15-P5	800 CPS 28 V 1 PCT LO IMU	
*	AA 5R	56J12-P3	56J11-N4	800 CPS 28 V 1 PCT LO IMU	
	AA 92L	56J12-P4	56J17-R3	COMPUTER 12.8 KPPS SYNC	
	AA 92R	56J12-P4	56J17-R3	COMPUTER 12.8 KPPS SYNC	
*	AA610	56J12-P4	56J11-N3	COMPUTER 12.8 KPPS SYNC	
	AA 50R	56J12-P5	56J15-N5	25.6 KC LO IMU	
	AA 64R	56J12-P5	56TB1-G 4	25.6 KC LO IMU	
	AA644	56J12-P5	56J12-R3	0 VDC IMU	
	AA 63W	56J12-P6	56TB1-H 7	25.6 KC HI OPTICS	
	AA 94W	56J12-P6	56J17-P3	25.6 KC HI OPTICS	
	AA 60R	56J12-R1	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA 2	56J11-S1	56J20-L1	+28 VDC IMU
	AA 40	56J11-S1	56J11-S2	+28 VDC IMU
	AA 3	56J11-S2	56J20-L2	+28 VDC IMU
*	AA 40	56J11-S2	56J11-S1	+28 VDC IMU
	AA 13	56J11-S3	56J17-R1	+28 VDC STBY
	AA 1	56J11-S4	56J15-S6	+28 VDC IMU
	AA 6	56J11-S4	56J12-S5	+28 VDC IMU
	AA 25	56J11-S4	56J11-S5	+28 VDC IMU
	AA 4	56J11-S5	56J20-K2	+28 VDC IMU
*	AA 25	56J11-S5	56J11-S4	+28 VDC IMU
*	AA 33	56J11-S6	56J11-R6	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA 89	56J12-R2	56J12-R3	0 VDC IMU
	AA 99	56J12-R2	56TB1-N 5	0 VDC IMU
	AA 90	56J12-R3	56J12-R4	0 VDC IMU
*	AA 89	56J12-R3	56J12-R2	0 VDC IMU
*	AA644	56J12-R3	56J12-P5	0 VDC IMU
	AA 91	56J12-R4	56E 31	0 VDC IMU
	AA100	56J12-R4	56TB1-N 8	0 VDC IMU
*	AA 90	56J12-R4	56J12-R3	0 VDC IMU
	AA 96	56J12-R5	56J13-R6	0 VDC IMU
	AA 98	56J12-R5	56TB1-S 6	0 VDC IMU
*	AA 71	56J12-R5	56J12-G5	0 VDC IMU
	AA 66	56J12-R6	56TB3-L20	0 VDC OPTICS
*	AA643	56J12-R6	56J12-N6	0 VDC OPTICS
	AA 54	56J12-S1	56J20-M1	+28 VDC IMU
	AA 87	56J12-S1	56J12-S3	+28 VDC IMU
	AA 55	56J12-S2	56J20-M2	+28 VDC IMU
	AA 88	56J12-S2	56J12-S4	+28 VDC IMU
*	AA 87	56J12-S3	56J12-S1	+28 VDC IMU
*	AA 88	56J12-S4	56J12-S2	+28 VDC IMU
*	AA 6	56J12-S5	56J11-S4	+28 VDC IMU
	AA 51	56J12-S6	56J20-N5	+28 VDC OPTICS

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INCHES
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA125	56J13-R6	56E 34	0 VDC IMU
*	AA 96	56J13-R6	56J12-R5	0 VDC IMU
	AA112W	56J13-S1	56J14-S2	+120 VDC GYRO
	AA109W	56J13-S2	56J14-S1	+120 VDC PIP
	AA110W	56J13-S3	56J14-S5	+32 VDC GYRO
*	AA 95W	56J13-S3	56J12-M5	+32 VDC GYRO
	AA111W	56J13-S4	56J14-S4	+32 VDC PIP
	AA107	56J13-S6	56J14-S6	+28 VDC IMU

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REV LTR K
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA126W	56J14-A1	56TB1-T 5	Z PIP ERROR HI	
	AA126R	56J14-A2	56TB1-T 4	Z PIP ERROR LO	
*	AA104	56J14-A6	56J13-A6	X GYRO DC DIFF AMP OUTPUT	
	AA143	56J14-C1	56J15-N2	+ SET X GYRO CAGE	
	AA144	56J14-C2	56J15-P2	- SET X GYRO CAGE	
	AA141	56J14-C3	56J15-N3	+ SET Y GYRO CAGE	
	AA142	56J14-C4	56J15-P3	- SET Y GYRO CAGE	
	AA139	56J14-C5	56J15-N4	+ SET Z GYRO CAGE	
	AA140	56J14-C6	56J15-P4	- SET Z GYRO CAGE	
	AA129R	56J14-D1	56J21- 67	+ DX GYRO RATE	142B
	AA130W	56J14-D2	56J21- 33	- DX GYRO RATE	143B
	AA131R	56J14-D3	56J21-240	+ DY GYRO RATE	144B
	AA132R	56J14-D4	56J21-202	- DY GYRO RATE	145B
	AA134W	56J14-D5	56J21-168	+ DZ GYRO RATE	146B
	AA135R	56J14-D6	56J21-135	- DZ GYRO RATE	147B
	AA148	56J14-F6	56J15-L2	P Z	
*	AA103	56J14-G1	56J13-H6	X GYRO CAL DUMMY	
	AA149	56J14-G6	56J15-M2	N Z	
*	AA105W	56J14-H1	56J13-K6	X GYRO TERNARY CUR SW TORQUE +	
	AA138	56J14-H3	56J15-L1	PIPA INTERROGATE PULSE	
*	AA101	56J14-H3	56J13-N5	PIPA INTERROGATE PULSE	
	AA145	56J14-H4	56J15-M1	GYRO DATA PULSE	
	AA151	56J14-H5	56J15-K3	STRUCTURE GND	
*	AA106	56J14-H5	56J13-C6	STRUCTURE GND	
	AA128	56J14-H6	56TB1-T 7	Z PIP ERROR MONITOR	
*	AA 47	56J14-H6	56J12-B6	Z PIP ERROR MONITOR	
*	AA105R	56J14-K1	56J13-L6	X GYRO TERNARY CUR SW TORQUE -	
	AA146	56J14-K3	56J15-N1	PIPA SWITCHING PULSE	
*	AA102	56J14-K3	56J13-N6	PIPA SWITCHING PULSE	
	AA147	56J14-K4	56J15-P1	GYRO RESET PULSE	
	AA136R	56J14-L6	56TB1-T 8	Z GYRO TORQUE +	
	AA133R	56J14-M1	56TB1-T 6	Y GYRO TORQUE +	
	AA133L	56J14-M2	56TB1-U 6	Y GYRO TORQUE -	
	AA133W	56J14-M3	56TB1-U 5	Y GYRO TORQUE RET	
	AA136L	56J14-M6	56TB1-U 8	Z GYRO TORQUE -	
	AA136W	56J14-N6	56TB1-U 7	Z GYRO TORQUE RET	
	AA127R	56J14-P1	56TB1-U 4	Z PIP TORQUE +	
	AA127L	56J14-P2	56TB1-U 3	Z PIP TORQUE -	
	AA127W	56J14-P3	56TB1-T 3	Z PIP TORQUE RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA118W	56J13-A1	56TB1-M 7	X PIP ERROR HI	
	AA121W	56J13-A3	56TB1-M 3	Y PIP ERROR HI	
	AA104	56J13-A6	56J14-A6	X GYRO DC DIFF AMP OUTPUT	
	AA118R	56J13-B1	56TB1-M 6	X PIP ERROR LO	
	AA121R	56J13-B3	56TB1-N 2	Y PIP ERROR LO	
	AA106	56J13-C6	56J14-H5	STRUCTURE GND	
*	AA 72	56J13-C6	56J12-K3	STRUCTURE GND	
	AA114	56J13-D1	56J15-L4	P X	
	AA120	56J13-D2	56TB1-L 2	X PIP ERROR MONITOR	
*	AA 75	56J13-D2	56J12-A5	X PIP ERROR MONITOR	
	AA116	56J13-D3	56J15-L3	P Y	
	AA124R	56J13-D6	56TB1-M 8	X GYRO TORQUE +	
	AA115	56J13-F1	56J15-M4	N X	
	AA123	56J13-F2	56TB1-M 2	Y PIP ERROR MONITOR	
*	AA 76	56J13-F2	56J12-A6	Y PIP ERROR MONITOR	
	AA117	56J13-F3	56J15-M3	N Y	
	AA124W	56J13-F6	56TB1-L 8	X GYRO TORQUE RET	
	AA124L	56J13-G6	56TB1-L 7	X GYRO TORQUE -	
	AA119R	56J13-H1	56TB1-M 5	X PIP TORQUE +	
	AA103	56J13-H6	56J14-G1	X GYRO CAL DUMMY	
	AA119W	56J13-K1	56TB1-L 6	X PIP TORQUE RET	
	AA105W	56J13-K6	56J14-H1	X GYRO TERNARY CUR SW TORQUE +	
	AA119L	56J13-L1	56TB1-L 5	X PIP TORQUE -	
	AA122R	56J13-L3	56TB1-L 4	Y PIP TORQUE +	
	AA105R	56J13-L6	56J14-K1	X GYRO TERNARY CUR SW TORQUE -	
	AA122W	56J13-M3	56TB1-L 3	Y PIP TORQUE RET	
	AA122L	56J13-N3	56TB1-M 4	Y PIP TORQUE -	
	AA101	56J13-N5	56J14-H3	PIPA INTERROGATE PULSE	
*	AA501W	56J13-N5	56J21-132	PIPA INTERROGATE PULSE	139A
	AA102	56J13-N6	56J14-K3	PIPA SWITCHING PULSE	
*	AA502W	56J13-N6	56J21- 99	PIPA SWITCHING PULSE	140A
	AA113	56J13-P6	56J14-P6	-28 VDC	
*	AA 14	56J13-P6	56J11-N6	-28 VDC	
	AA112R	56J13-R1	56J14-R2	+12, +120 VDC RET GYRO	
	AA109R	56J13-R2	56J14-R1	+120 VDC RET PIP	
	AA110R	56J13-R3	56J14-R5	+32 VDC RET GYRO	
*	AA 95R	56J13-R3	56J12-L5	+32 VDC RET GYRO	
	AA111R	56J13-R4	56J14-R4	+32 VDC RET PIP	
	AA108	56J13-R6	56J14-R6	0 VDC IMU	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA113	56J14-P6	56J13-P6	-28 VDC
	AA150R	56J14-R1	56J15-R5	+120 VDC RET PIP
*	AA109R	56J14-R1	56J13-R2	+120 VDC RET PIP
*	AA 73L	56J14-R2	56J12-K6	+12, +120 VDC RET GYRO
*	AA112R	56J14-R2	56J13-R1	+12, +120 VDC RET GYRO
	AA154R	56J14-R4	56J17-S5	+32 VDC RET PIP
*	AA111R	56J14-R4	56J13-R4	+32 VDC RET PIP
*	AA110R	56J14-R5	56J13-R3	+32 VDC RET GYRO
	AA137	56J14-R6	56E 33	0 VDC IMU
	AA153	56J14-R6	56J15-R2	0 VDC IMU
*	AA108	56J14-R6	56J13-R6	0 VDC IMU
	AA150W	56J14-S1	56J15-S5	+120 VDC PIP
*	AA109W	56J14-S1	56J13-S2	+120 VDC PIP
*	AA 73R	56J14-S2	56J12-L6	+120 VDC GYRO
*	AA112W	56J14-S2	56J13-S1	+120 VDC GYRO
*	AA 73W	56J14-S3	56J12-M6	+12 VDC GYRO
	AA154W	56J14-S4	56J17-T5	+32 VDC PIP
*	AA111W	56J14-S4	56J13-S4	+32 VDC PIP
*	AA110W	56J14-S5	56J13-S3	+32 VDC GYRO
	AA152	56J14-S6	56J15-S2	+28 VDC IMU
*	AA107	56J14-S6	56J13-S6	+28 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA172L	56J15-D9	56TB2-C 7	SIN AMG 16X TO CDU	
	AA162W	56J15-F1	56TB2-B 6	MG CDU ENCODER PHASE 1	
	AA162L	56J15-F2	56TB2-C 6	MG CDU ENCODER COM	
	AA171L	56J15-F7	56TB2-C 8	SIN AIG 16X TO CDU	
	AA172W	56J15-F8	56TB2-A 7	SIN AMG 16X S2	
	AA172R	56J15-F9	56TB2-B 7	SIN AMG 16X S4	
	AA170	56J15-H4	56TB2-C 1	FINE ALIGN RELAY CONTROL	
	AA184	56J15-H4	56J16-L1	FINE ALIGN RELAY CONTROL	
	AA178	56J15-H5	56J20-H4	+28 VDC AGC	
	AA187	56J15-K3	56J16-N4	STRUCTURE GND	
*	AA151	56J15-K3	56J14-H5	STRUCTURE GND	
*	AA471L	56J15-K4	56J21- 95	- DELTA V Z	137B
*	AA472L	56J15-K5	56J21-128	+ DELTA V Z	136B
*	AA470L	56J15-K6	56J21-161	- DELTA V Y	135B
*	AA138	56J15-L1	56J14-H3	PIPA INTERROGATE PULSE	
*	AA148	56J15-L2	56J14-F6	P Z	
*	AA116	56J15-L3	56J13-D3	P Y	
*	AA114	56J15-L4	56J13-D1	P X	
	AA158	56J15-L5	56E 35	COMPUTER RET	
	AA159	56J15-L5	56E 36	COMPUTER RET	
	AA160	56J15-L5	56E 37	COMPUTER RET	
*	AA469L	56J15-L6	56J21-195	+ DELTA V Y	134B
*	AA145	56J15-M1	56J14-H4	GYRO DATA PULSE	
*	AA149	56J15-M2	56J14-G6	N Z	
*	AA117	56J15-M3	56J13-F3	N Y	
*	AA115	56J15-M4	56J13-F1	N X	
*	AA467L	56J15-M5	56J21-126	+ DELTA V X	132B
*	AA468L	56J15-M6	56J21- 93	- DELTA V X	133B
*	AA146	56J15-N1	56J14-K3	PIPA SWITCHING PULSE	
*	AA143	56J15-N2	56J14-C1	+ SET X GYRO CAGE	
*	AA141	56J15-N3	56J14-C3	+ SET Y GYRO CAGE	
*	AA139	56J15-N4	56J14-C5	+ SET Z GYRO CAGE	
*	AA 50R	56J15-N5	56J12-P5	25.6 KC LO IMU	
*	AA 50W	56J15-N6	56J12-N5	25.6 KC HI IMU	
	AA157W	56J15-P1	56J21-102	GYRO RESET PULSE	148B
*	AA147	56J15-P1	56J14-K4	GYRO RESET PULSE	
*	AA144	56J15-P2	56J14-C2	- SET X GYRO CAGE	
*	AA142	56J15-P3	56J14-C4	- SET Y GYRO CAGE	
*	AA140	56J15-P4	56J14-C6	- SET Z GYRO CAGE	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA185R	56J15-P5	56J16-S3	800 CPS 28 V 1 PCT LO IMU	
*	AA 49R	56J15-P5	56J12-P3	800 CPS 28 V 1 PCT LO IMU	
	AA185W	56J15-P6	56J16-S4	800 CPS 28 V 1 PCT HI IMU	
*	AA 49W	56J15-P6	56J12-N3	800 CPS 28 V 1 PCT HI IMU	
	AA156	56J15-R1	56TB2-C 2	BACKUP MODE RELAY CONTROL	
	AA157R	56J15-R2	56J21-101	0 VDC IMU	148A
	AA637	56J15-R2	56TB2-F 4	0 VDC IMU	
*	AA153	56J15-R2	56J14-R6	0 VDC IMU	
*	AA 48R	56J15-R4	56J12-K2	3200 CPS 2 V LO	
	AA188R	56J15-R5	56J17-L4	+120 VDC RET PIP	
*	AA150R	56J15-R5	56J14-R1	+120 VDC RET PIP	
	AA177	56J15-R6	56TB2-D 1	+28 VDC CDU NOT LOCK	
	AA173	56J15-S1	56TB2-B 2	ZERO ENCODER RELAY CONTROL	
	AA183	56J15-S1	56J16-L2	ZERO ENCODER RELAY CONTROL	
	AA179	56J15-S2	56J20-K1	+28 VDC IMU	
*	AA152	56J15-S2	56J14-S6	+28 VDC IMU	
	AA174	56J15-S3	56TB2-B 1	LOCK CDU RELAY CONTROL	
	AA175	56J15-S3	56J22-227	LOCK CDU RELAY CONTROL	
*	AA 48W	56J15-S4	56J12-H2	3200 CPS 2 V HI	
	AA188W	56J15-S5	56J17-L5	+120 VDC PIP	
*	AA150W	56J15-S5	56J14-S1	+120 VDC PIP	
	AA186	56J15-S6	56J16-S2	+28 VDC IMU	
*	AA 1	56J15-S6	56J11-S4	+28 VDC IMU	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA155W	56J15-A1	56TB1-C 8	Z GYRO ERROR SIG	
	AA155R	56J15-A2	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG	
*	AA488L	56J15-A3	56J21-188	MANUAL CDU MODE INDICATION TO AGC	160A
	AA180R	56J15-A4	56J16-B2	IG DAC MDA SIG HI	
	AA164	56J15-A5	56E 38	IG DAC MDA SIG LO	
	AA167	56J15-A5	56E 39	IG DAC MDA SIG LO	
	AA180W	56J15-A5	56J16-B1	IG DAC MDA SIG LO	
	AA181R	56J15-A6	56J16-B4	MG DAC MDA SIG HI	
	AA165	56J15-A7	56E 40	MG DAC MDA SIG LO	
	AA168	56J15-A7	56E 41	MG DAC MDA SIG LO	
	AA181W	56J15-A7	56J16-B3	MG DAC MDA SIG LO	
	AA182R	56J15-A8	56J16-B6	OG DAC MDA SIG HI	
	AA166	56J15-A9	56E 42	OG DAC MDA SIG LO	
	AA169	56J15-A9	56E 43	OG DAC MDA SIG LO	
	AA182W	56J15-A9	56J16-B5	OG DAC MDA SIG LO	
	AA155L	56J15-B1	56TB1-C 7	X GYRO ERROR SIG	
	AA155K	56J15-B2	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA176L	56J15-B3	56TB2-D 2	AGC COM	
*	AA475L	56J15-B4	56J21- 24	IG ENCODER + DELTA THETA	120A
*	AA481L	56J15-B5	56J21-237	IG CDU + DELTA THETA COMMAND	128A
*	AA477L	56J15-B6	56J21-232	MG ENCODER + DELTA THETA	122A
*	AA483L	56J15-B7	56J21-165	MG CDU + DELTA THETA COMMAND	130A
*	AA479L	56J15-B8	56J21- 56	OG ENCODER + DELTA THETA	118A
*	AA485L	56J15-B9	56J21- 64	OG CDU + DELTA THETA COMMAND	126A
	AA161R	56J15-C1	56TB2-A 5	IG CDU ENCODER COM	
	AA161W	56J15-C2	56TB2-B 5	IG CDU ENCODER PHASE 1	
	AA163L	56J15-C3	56TB2-C 4	OG CDU ENCODER PHASE 2	
*	AA476R	56J15-C4	56J21- 26	IG ENCODER - DELTA THETA	121A
*	AA482R	56J15-C5	56J21-199	IG CDU - DELTA THETA COMMAND	129A
*	AA478R	56J15-C6	56J21-192	MG ENCODER - DELTA THETA	123A
*	AA484R	56J15-C7	56J21- 97	MG CDU - DELTA THETA COMMAND	131A
*	AA480R	56J15-C8	56J21- 58	OG ENCODER - DELTA THETA	119A
*	AA486R	56J15-C9	56J21- 30	OG CDU - DELTA THETA COMMAND	127A
	AA161L	56J15-D1	56TB2-C 5	IG CDU ENCODER PHASE 2	
	AA162R	56J15-D2	56TB2-A 6	MG CDU ENCODER PHASE 2	
	AA163R	56J15-D3	56TB2-A 4	OG CDU ENCODER COM	
	AA163W	56J15-D4	56TB2-B 4	OG CDU ENCODER PHASE 1	
	AA171R	56J15-D7	56TB2-B 8	SIN AIG 16X S4	
	AA171W	56J15-D8	56TB2-A 8	SIN AIG 16X S2	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA197R	56J16-A1	56TB2-U 6	IG CDU MDA TACH SIG	
	AA197W	56J16-A2	56TB2-T 6	IG CDU MDA SLEW SIG	
	AA202R	56J16-A3	56TB2-W 5	MG CDU MDA TACH SIG	
	AA202W	56J16-A4	56TB2-X 5	MG CDU MDA SLEW SIG	
	AA214R	56J16-A5	56TB2-N 6	OG CDU MDA TACH SIG	
	AA214W	56J16-A6	56TB2-R 6	OG CDU MDA SLEW SIG	
*	AA489L	56J16-A7	56J21-152	ZERO ENCODER MODE INDICATION TO AGC	158A
	AA205W	56J16-A8	56TB2-U 7	SIN AOG 1X S2	
	AA205R	56J16-A9	56TB2-U 8	SIN AOG 1X S4	
	AA197L	56J16-B1	56TB2-T 7	IG CDU MDA INPUT RET	
*	AA180W	56J16-B1	56J15-A5	IG DAC MDA SIG LO	
*	AA197A	56J16-B1	SHLD AA197	IG CDU MDA INPUT RET	
*	AA180R	56J16-B2	56J15-A4	IG DAC MDA SIG HI	
	AA202L	56J16-B3	56TB2-X 6	MG CDU MDA INPUT RET	
*	AA181W	56J16-B3	56J15-A7	MG DAC MDA SIG LO	
*	AA202A	56J16-B3	SHLD AA202	MG CDU MDA INPUT RET	
*	AA181R	56J16-B4	56J15-A6	MG DAC MDA SIG HI	
	AA214L	56J16-B5	56TB2-R 7	OG CDU MDA INPUT RET	
*	AA182W	56J16-B5	56J15-A9	OG DAC MDA SIG LO	
*	AA214A	56J16-B5	SHLD AA214	OG CDU MDA INPUT RET	
*	AA182R	56J16-B6	56J15-A8	OG DAC MDA SIG HI	
*	AA569L	56J16-B7	56TB2-D 2	AGC COM	
	AA204W	56J16-B8	56TB2-N 8	COS AOG 1X S3	
	AA205L	56J16-B9	56TB2-T 8	SIN AOG 1X TO CDU	
	AA196W	56J16-C1	56TB2-H 1	IG CDU 16X ERROR SIG	
	AA195W	56J16-C2	56TB2-H 2	IG CDU 1X ERROR SIG	
	AA201W	56J16-C3	56TB2-H 8	MG CDU 16X ERROR SIG	
	AA200W	56J16-C4	56TB2-H 7	MG CDU 1X ERROR SIG	
	AA208R	56J16-C5	56TB2-N 3	OG CDU 16X ERROR SIG	
	AA207W	56J16-C6	56TB2-N 2	OG CDU 1X ERROR SIG	
	AA204R	56J16-C8	56TB2-N 7	COS AOG 1X S1	
	AA204L	56J16-C9	56TB2-R 8	COS AOG 1X TO CDU	
	AA194W	56J16-D1	56TB2-H 3	IG CDU 1/2X ERROR SIG	
	AA194R	56J16-D2	56TB2-G 3	IG CDU ERROR SIG RET	
	AA195R	56J16-D2	56TB2-G 2	IG CDU ERROR SIG RET	
	AA196R	56J16-D2	56TB2-G 1	IG CDU ERROR SIG RET	
	AA199W	56J16-D3	56TB2-H 6	MG CDU 1/2X ERROR SIG	
	AA199R	56J16-D4	56TB2-G 6	MG CDU ERROR SIG RET	
	AA200R	56J16-D4	56TB2-G 7	MG CDU ERROR SIG RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA191R	56J16-N5	56J20-L3	800 CPS 28 V 1 PCT LO OPTICS
	AA224R	56J16-N5	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
	AA233R	56J16-N5	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA192R	56J16-N6	56J20-M4	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA225R	56J16-N6	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA198R	56J16-P1	56TB2-L 6	IG CDU MDA OUTPUT
	AA223	56J16-P2	56TB2-K 4	0 VDC IMU
	AA203R	56J16-P3	56TB2-K 3	MG CDU MDA OUTPUT
	AA222W	56J16-P4	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
	AA191W	56J16-P5	56J20-K3	800 CPS 28 V 1 PCT HI OPTICS
	AA224W	56J16-P5	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
	AA233W	56J16-P5	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA192W	56J16-P6	56J20-L4	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA225W	56J16-P6	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA198W	56J16-R1	56TB2-L 5	IG CDU MDA OUTPUT
*	AA 59	56J16-R2	56J12-G5	0 VDC IMU
	AA203W	56J16-R3	56TB2-L 3	MG CDU MDA OUTPUT
	AA222K	56J16-R4	56TB2-H 5	ZEROING RSVR 800 CPS
	AA228	56J16-R5	56TB3-L20	0 VDC OPTICS
	AA229	56J16-R6	56TB3-L20	0 VDC OPTICS
	AA210	56J16-S1	56TB2-N 5	+28 VDC IMU FOR IG MDA
	AA193	56J16-S2	56J20-K2	+28 VDC IMU
*	AA186	56J16-S2	56J15-S6	+28 VDC IMU
	AA222L	56J16-S3	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	AA185R	56J16-S3	56J15-P5	800 CPS 28 V 1 PCT LO IMU
	AA222R	56J16-S4	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	AA185W	56J16-S4	56J15-P6	800 CPS 28 V 1 PCT HI IMU
	AA189	56J16-S5	56J20-N5	+28 VDC OPTICS
	AA190	56J16-S6	56J20-N6	+28 VDC OPTICS
	AA211	56J16-T1	56TB2-R 5	+28 VDC IMU FOR MG MDA
	AA212	56J16-T2	56TB2-K 8	+28 VDC IMU FOR OG MDA

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 11W	56J17-A1	56J11-C3	OG CDU ATTITUDE STEERING ERROR
*	AA571L	56J17-A2	56TB2-N 3	OG CDU 16X ERROR SIG
	AA287L	56J17-A3	56J22- 1	ROLL ERROR BODY OFFSET AXIS HI
	AA244L	56J17-A4	56J22- 3	ROLL ERROR BODY AXIS HI
	AA281W	56J17-A6	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1
	AA281R	56J17-A7	56TB3-T 5	TRUNNION CDU ENCODER COM
	AA281L	56J17-A8	56TB3-T 6	TRUNNION CDU ENCODER PHASE 2
	AA285	56J17-A9	56TB3-M 3	TRUNNION ENCODER PIN 8
*	AA 11R	56J17-B1	56J11-B3	OG CDU ERROR SIG RET
*	AA571R	56J17-B2	56TB2-R 3	OG CDU ERROR SIG RET
	AA287R	56J17-B3	56J22- 39	ROLL ERROR BODY OFFSET AXIS LO
	AA244R	56J17-B4	56J22- 4	ROLL ERROR BODY AXIS LO
	AA268	56J17-B5	56TB3-L 3	IRIG TEMP CONT SENSOR RET
	AA267	56J17-B6	56TB3-L 4	IRIG TEMP CONT SENSOR HI
	AA252	56J17-B7	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
	AA253	56J17-B8	56TB3-G 3	IRIG ZERO DEVIATION CHECK
	AA286	56J17-B9	56TB3-K 4	TRUNNION ENCODER PIN 9
	AA288R	56J17-C1	56J22- 10	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289W	56J17-C1	56TB3-M13	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289R	56J17-C2	56TB3-M14	PITCH-YAW RSVR S4
	AA246L	56J17-C3	56J22- 45	YAW ERROR BODY OFFSET AXIS HI
	AA245L	56J17-C4	56J22- 6	YAW ERROR BODY AXIS HI
	AA266	56J17-C5	56TB3-K 3	IRIG TEMP IND SENSOR RET
	AA276	56J17-C6	56TB3-H 4	IRIG TEMP IND SENSOR HI
	AA254	56J17-C7	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6
	AA290	56J17-C8	56TB3-L 1	IRIG TEMP GAIN SWITCH NC
	AA284W	56J17-C9	56TB3-S 6	SHAFT CDU ENCODER PHASE 1
	AA288L	56J17-D1	56J22- 48	PITCH ERROR BODY AND BODY OFFSET AXIS HI
	AA247R	56J17-D2	56TB3-R 4	PITCH YAW RSVR S3
	AA246R	56J17-D3	56J22- 46	YAW ERROR BODY OFFSET AXIS LO
	AA247W	56J17-D3	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
	AA245R	56J17-D4	56J22- 43	YAW ERROR BODY AXIS LO
	AA269	56J17-D5	56TB3-M 1	ACCEL TEMP IND SENSOR RET
	AA255	56J17-D6	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
	AA256	56J17-D7	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
	AA251	56J17-D8	56TB3-M 2	IMU TD RELAY C
	AA284R	56J17-D9	56TB3-S 5	SHAFT CDU ENCODER COM
	AA636	56J17-F2	56TB3-D 6	TEMPERATURE CONTROL SIG LO
	AA274	56J17-F3	56TB3-D 5	HTR CURRENT (TELEMETRY)

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA201R	56J16-D4	56TB2-G 8	MG CDU ERROR SIG RET	
	AA206W	56J16-D5	56TB2-N 1	OG CDU 1/2X ERROR SIG	
	AA206R	56J16-D6	56TB2-R 1	OG CDU ERROR SIG RET	
	AA207R	56J16-D6	56TB2-R 2	OG CDU ERROR SIG RET	
	AA208W	56J16-D6	56TB2-R 3	OG CDU ERROR SIG RET	
	AA209R	56J16-D7	56TB2-W 3	COS AOG 16X S1	
	AA213W	56J16-D8	56TB2-X 3	SIN AOG 16X S2	
	AA213R	56J16-D9	56TB2-W 2	SIN AOG 16X S4	
	AA216	56J16-F2	56TB2-W 1	IG CDU 1X RSVR LOAD	
	AA217	56J16-F4	56TB2-X 1	MG CDU 1X RSVR LOAD	
	AA219	56J16-F5	56TB2-T 1	OG CDU 16X RSVR LOAD	
	AA218	56J16-F6	56TB2-S 1	OG CDU 1X RSVR LOAD	
	AA209W	56J16-F7	56TB2-W 4	COS AOG 16X S3	
	AA209L	56J16-F8	56TB2-X 4	COS AOG 16X TO CDU	
	AA213L	56J16-F9	56TB2-X 2	SIN AOG 16X TO CDU	
	AA230W	56J16-G1	56TB2-W 6	COS AIG 16X S3	
	AA230L	56J16-G2	56TB2-W 7	COS AIG 16X TO CDU	
	AA231W	56J16-G3	56TB2-U 5	COS AMG 16X S3	
	AA231L	56J16-G4	56TB2-U 4	COS AMG 16X TO CDU	
	AA230R	56J16-H1	56TB2-X 7	COS AIG 16X S1	
	AA231R	56J16-H3	56TB2-T 5	COS AMG 16X S1	
	AA220	56J16-L1	56J22-228	FINE ALIGN RELAY CONTROL	
*	AA184	56J16-L1	56J15-H4	FINE ALIGN RELAY CONTROL	
*	AA183	56J16-L2	56J15-S1	ZERO ENCODER RELAY CONTROL	
	AA226L	56J16-L3	56J21- 35	COMPUTER 800 PPS SYNC RET	150B
	AA227L	56J16-L3	56J21- 69	COMPUTER 800 PPS SYNC RET	149B
	AA232W	56J16-L3	56E 31	COMPUTER 800 PPS SYNC RET	
	AA226R	56J16-L4	56J21- 34	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
	AA232L	56J16-L4	56J12-D1	COMPUTER 800 PPS OUT OF PHASE SYNC	
	AA221	56J16-M1	56TB2-R 4	ENTRY RELAY CONTROL	
*	AA 56	56J16-M2	56J12-H5	IG CDU FAILURE INDICATION	
*	AA 57	56J16-M3	56J12-H6	MG CDU FAILURE INDICATION	
	AA227R	56J16-M4	56J21- 68	COMPUTER 800 PPS IN PHASE SYNC	149A
	AA232R	56J16-M4	56J12-D2	COMPUTER 800 PPS IN PHASE SYNC	
	AA215W	56J16-N1	56TB2-K 6	OG CDU MDA OUTPUT	
	AA215R	56J16-N2	56TB2-K 5	OG CDU MDA OUTPUT	
*	AA 58	56J16-N3	56J12-G6	OG CDU FAILURE INDICATION	
	AA234	56J16-N4	56J17-L6	STRUCTURE GND	
*	AA187	56J16-N4	56J15-K3	STRUCTURE GND	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA273	56J17-F4	56TB3-C 5	IRIG TEMP (TELEMETRY)
	AA272	56J17-F5	56TB3-D 4	ACCEL TEMP (TELEMETRY)
	AA271	56J17-F6	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
	AA257	56J17-F7	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
	AA249	56J17-F8	56TB3-L 2	IMU TD RELAY NO
	AA284L	56J17-F9	56TB3-S 4	SHAFT CDU ENCODER PHASE 2
	AA261	56J17-G1	56TB3-K 5	IMU TEMP ALARM AMP PIN 14
	AA262	56J17-G2	56TB3-H 5	IMU TEMP ALARM AMP PIN 15
	AA242R	56J17-G4	56J18-L1	SHAFT CDU ENCODER + DELTA THETA
	AA243R	56J17-G6	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA
	AA259	56J17-H1	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
	AA260	56J17-H2	56TB3-K 1	IMU TEMP ALARM AMP PIN 5
	AA242W	56J17-H4	56E 53	SHAFT CDU DAC LO
	AA243W	56J17-H6	56E 51	TRUNNION CDU DAC LO
	AA242L	56J17-K4	56J18-K1	SHAFT CDU ENCODER - DELTA THETA
	AA243L	56J17-K6	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA
	AA263	56J17-L1	56TB3-L 5	IMU TEMP CONT K2 PIN 6
	AA293	56J17-L3	56J22-243	IMU TEMP LIGHT (MAIN PANEL)
*	AA188R	56J17-L4	56J15-R5	+120 VDC RET PIP
*	AA188W	56J17-L5	56J15-S5	+120 VDC PIP
	AA241	56J17-L6	56J18-R5	STRUCTURE GND
*	AA234	56J17-L6	56J16-N4	STRUCTURE GND
	AA264	56J17-M1	56TB3-D 1	0 VDC IMU
	AA277	56J17-M2	56TB3-G 5	IMU TEMP SENSOR COM
	AA278	56J17-M3	56TB3-F 1	0 VDC SPACECRAFT
	AA292	56J17-M3	56J22-206	0 VDC SPACECRAFT
*	AA 97	56J17-M3	56J12-F3	0 VDC SPACECRAFT
	AA265L	56J17-M4	56TB3-N 1	IMU EMERGENCY HTR HI
	AA258W	56J17-M5	56TB3-H 2	IMU TEMP CONT K1 PIN 3
	AA258R	56J17-M6	56TB3-H 1	IMU TEMP CONT AMP PIN 5
	AA270L	56J17-N1	56TB3-N 4	IMU CONTROL HTR LO
*	AA 12W	56J17-N2	56J11-P1	3200 CPS 20 V HI
*	AA 94R	56J17-N3	56J12-N6	25.6 KC LO OPTICS
	AA265R	56J17-N4	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY
	AA258L	56J17-N5	56TB3-G 2	IMU TEMP CONT K2 PIN 5
	AA258K	56J17-N6	56TB3-G 1	IMU HTR CURRENT AMP PIN 5
	AA270R	56J17-P1	56TB3-N 5	IMU CONTROL HTR HI
*	AA 12R	56J17-P2	56J11-N1	3200 CPS 20 V CT
*	AA 94W	56J17-P3	56J12-P6	25.6 KC HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA250R	56J17-P4	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA275	56J17-P5	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI	
	AA235	56J17-P6	56TB3-F 3	CONDITION LAMP TEST	
*	AA 13	56J17-R1	56J11-S3	+28 VDC STBY	
*	AA 12L	56J17-R2	56J11-N2	3200 CPS 20 V LO	
*	AA 92L	56J17-R3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
*	AA 92R	56J17-R3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
*	AA500R	56J17-R3	56J21-103	COMPUTER 12.8 KPPS SYNC	155A
	AA250W	56J17-R4	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA280	56J17-R5	56TB3-M21	+28 VDC MDV	
	AA282	56J17-R6	56TB3-L21	0 VDC OPTICS	
	AA283	56J17-R6	56J17-S6	0 VDC OPTICS	
	AA291	56J17-S1	56J17-S2	0 VDC IMU	
	AA296	56J17-S1	56TB3-S 3	0 VDC IMU	
	AA248	56J17-S2	56TB3-T 3	0 VDC IMU	
*	AA291	56J17-S2	56J17-S1	0 VDC IMU	
	AA295	56J17-S3	56TB3-N 3	0 VDC IMU	
	AA297	56J17-S4	56TB3-R 3	0 VDC IMU	
*	AA154R	56J17-S5	56J14-R4	+32 VDC RET PIP	
*	AA283	56J17-S6	56J17-R6	0 VDC OPTICS	
	AA238	56J17-T1	56J20-P3	+28 VDC STBY	
	AA294	56J17-T1	56J17-T2	+28 VDC STBY	
	AA239	56J17-T2	56J20-P4	+28 VDC STBY	
*	AA294	56J17-T2	56J17-T1	+28 VDC STBY	
	AA237	56J17-T3	56J20-M2	+28 VDC IMU	
	AA236	56J17-T4	56J20-M1	+28 VDC IMU	
*	AA154W	56J17-T5	56J14-S4	+32 VDC PIP	
	AA240	56J17-T6	56J18-S1	+28 VDC OPTICS	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
AA308L	56J18-A1	56TB3-S 8	SXT AT 64X RSVR COS HI
AA309L	56J18-A2	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
AA309R	56J18-A3	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
AA313W	56J18-A4	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
AA313R	56J18-A5	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
AA317W	56J18-A6	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
AA316R	56J18-A7	56TB3-L 8	SHAFT CDU TACH LO
AA316L	56J18-A8	56TB3-L 7	SHAFT CDU TACH HI
AA315L	56J18-A9	56TB3-M 8	TRUNNION CDU TACH HI
AA308R	56J18-B1	56TB3-S 7	SXT AT 64X RSVR COS LO
AA307R	56J18-B2	56TB3-T 7	SXT AT 64X RSVR SIN HI
AA310L	56J18-B3	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
AA310R	56J18-B4	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
AA314W	56J18-B5	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
AA317R	56J18-B6	56TB3-L11	TRUNNION CDU 1/2X RSVR P3
AA300W	56J18-B8	56J19-C1	TRUNNION CDU 16X ERROR SIG HI
AA315R	56J18-B9	56TB3-M 7	TRUNNION CDU TACH LO
AA312R	56J18-C1	56TB3-R11	SXT AS 16X RSVR COS HI
AA307L	56J18-C2	56TB3-T 8	SXT AT 64X RSVR SIN LO
AA314R	56J18-C5	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
AA334W	56J18-C6	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
AA335W	56J18-C7	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI
AA300R	56J18-C8	56J19-B2	TRUNNION CDU 16X ERROR SIG LO
AA301W	56J18-C9	56J19-A4	SHAFT CDU 16X ERROR SIG HI
AA312W	56J18-D1	56TB3-R10	SXT AS 16X RSVR COS LO
AA311W	56J18-D2	56TB3-R 8	SXT AS 16X RSVR SIN HI
AA311R	56J18-D3	56TB3-R 7	SXT AS 16X RSVR SIN LO
AA338R	56J18-D4	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
AA338W	56J18-D5	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
AA334R	56J18-D6	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
AA335R	56J18-D7	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
AA326W	56J18-D8	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
AA301R	56J18-D9	56J19-B3	SHAFT CDU 16X ERROR SIG LO
AA299W	56J18-F1	56J19-D4	TRUNNION CDU 1/4X SIN HI
AA330W	56J18-F1	56TB3-G10	TRUNNION CDU 1/4X SIN HI
AA299R	56J18-F2	56J19-F4	TRUNNION CDU 1/4X SIN LO
AA330R	56J18-F2	56TB3-F10	TRUNNION CDU 1/4X SIN LO
AA318W	56J18-F3	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI
AA318R	56J18-F4	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA336W	56J18-F6	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
	AA336R	56J18-F7	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
	AA326R	56J18-F8	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
	AA326L	56J18-F9	56TB3-M11	RSVR DRIVE AMP INPUT LO	
	AA332W	56J18-G1	56TB3-K10	SHAFT CDU 1/2X SIN HI S1	
	AA345W	56J18-G2	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
	AA344W	56J18-G3	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
	AA302K	56J18-G5	56J19-H6	COSECANT AMP FEEDBACK SIG HI	
	AA302W	56J18-G6	56J19-G6	COSECANT AMP OUTPUT HI	
	AA332R	56J18-H1	56TB3-K11	SHAFT CDU 1/2X SIN LO S3	
	AA345R	56J18-H2	56TB3-F 8	SHAFT CDU DAC LO	
	AA346	56J18-H2	56E 52	SHAFT CDU DAC LO	
	AA347	56J18-H2	56E 53	SHAFT CDU DAC LO	
	AA344R	56J18-H3	56TB3-F 7	TRUNNION CDU DAC LO	
	AA348	56J18-H3	56E 50	TRUNNION CDU DAC LO	
	AA349	56J18-H3	56E 51	TRUNNION CDU DAC LO	
	AA302L	56J18-H5	56J19-H5	SHAFT CDU MDA COSECANT SIG	
	AA302R	56J18-H6	56J19-G5	COSECANT AMP FEEDBACK SIG LO	
*	AA242L	56J18-K1	56J17-K4	SHAFT CDU ENCODER - DELTA THETA	
*	AA495L	56J18-K1	56J21-123	SHAFT CDU ENCODER - DELTA THETA	111A
*	AA492L	56J18-K2	56J21-163	SHAFT CDU + DELTA THETA COMMAND	116A
*	AA496L	56J18-K3	56J21-235	TRUNNION CDU + DELTA THETA COMMAND	114A
*	AA243L	56J18-K4	56J17-K6	TRUNNION CDU ENCODER - DELTA THETA	
*	AA499L	56J18-K4	56J21-190	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA328W	56J18-K6	56TB3-T12	SHAFT CDU 1X P1 (S1)	
*	AA242R	56J18-L1	56J17-G4	SHAFT CDU ENCODER + DELTA THETA	
*	AA494L	56J18-L1	56J21-156	SHAFT CDU ENCODER + DELTA THETA	110A
*	AA493R	56J18-L2	56J21-130	SHAFT CDU - DELTA THETA COMMAND	117A
*	AA497R	56J18-L3	56J21-197	TRUNNION CDU - DELTA THETA COMMAND	115A
*	AA243R	56J18-L4	56J17-G6	TRUNNION CDU ENCODER + DELTA THETA	
*	AA498L	56J18-L4	56J21-230	TRUNNION CDU ENCODER + DELTA THETA	108A
	AA328R	56J18-L5	56TB3-S12	SHAFT CDU 1X P2 (S2)	
	AA328L	56J18-L6	56TB3-R12	SHAFT CDU 1X P3 (S3)	
	AA340W	56J18-M1	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)	
	AA350	56J18-M1	56J18-P3	0 VDC OPTICS	
	AA351	56J18-M1	56J18-M2	0 VDC OPTICS	
	AA352	56J18-M2	56J18-M3	0 VDC OPTICS	
*	AA351	56J18-M2	56J18-M1	0 VDC OPTICS	
	AA341W	56J18-M3	56TB3-C 8	TRUNNION CDU MDA LO (TEST)	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA353	56J18-M3	56J18-M4	0 VDC OPTICS
*	AA352	56J18-M3	56J18-M2	0 VDC OPTICS
	AA342W	56J18-M4	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
	AA354	56J18-M4	56J18-M5	0 VDC OPTICS
*	AA353	56J18-M4	56J18-M3	0 VDC OPTICS
	AA355	56J18-M5	56J18-M6	0 VDC OPTICS
*	AA354	56J18-M5	56J18-M4	0 VDC OPTICS
	AA343W	56J18-M6	56TB3-D10	SHAFT CDU MDA (TEST) LO
*	AA355	56J18-M6	56J18-M5	0 VDC OPTICS
	AA340R	56J18-N1	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
	AA341R	56J18-N3	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
	AA342R	56J18-N4	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
	AA343R	56J18-N6	56TB3-D 9	SHAFT CDU MDA (TEST) HI
	AA319	56J18-P1	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
	AA322	56J18-P2	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
	AA303	56J18-P3	56J19-R4	0 VDC OPTICS
*	AA350	56J18-P3	56J18-M1	0 VDC OPTICS
	AA320	56J18-R1	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
	AA321	56J18-R2	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
	AA333	56J18-R3	56TB3-K20	0 VDC OPTICS
	AA337	56J18-R4	56TB3-B11	ZERO OPTICS RELAY CONTROL
	AA616	56J18-R4	56J19-M4	ZERO OPTICS RELAY CONTROL
	AA306	56J18-R5	56J19-P3	STRUCTURE GND
*	AA241	56J18-R5	56J17-L6	STRUCTURE GND
	AA298	56J18-S1	56J19-T1	+28 VDC OPTICS
*	AA240	56J18-S1	56J17-T6	+28 VDC OPTICS
	AA323	56J18-S3	56J18-S4	0 VDC OPTICS
	AA325	56J18-S3	56TB3-K20	0 VDC OPTICS
*	AA323	56J18-S4	56J18-S3	0 VDC OPTICS
	AA305	56J18-S5	56J19-P5	0 VDC OPTICS
	AA339	56J18-S5	56J18-T5	0 VDC OPTICS
	AA304R	56J18-S6	56J19-N6	800 CPS 28 V 1 PCT LO OPTICS
*	AA233R	56J18-S6	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
	AA646	56J18-T1	56TB3-A10	+28 VDC OPTICS DAC POWER
	AA324	56J18-T3	56J18-T4	0 VDC OPTICS
	AA327	56J18-T3	56TB3-K20	0 VDC OPTICS
*	AA324	56J18-T4	56J18-T3	0 VDC OPTICS
	AA638	56J18-T5	56E 71	0 VDC OPTICS
*	AA339	56J18-T5	56J18-S5	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA370W	56J19-A1	56TB3-T16	SXT TRUNNION TACH HI
	AA371R	56J19-A2	56TB3-S16	SXT SHAFT TACH LO
	AA371W	56J19-A3	56TB3-S17	SXT SHAFT TACH HI
*	AA301W	56J19-A4	56J18-C9	SHAFT CDU 16X ERROR SIG HI
	AA375W	56J19-A5	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
	AA378	56J19-A7	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
	AA372R	56J19-A8	56TB3-R16	SCT TRUNNION TACH LO
	AA372W	56J19-A9	56TB3-R17	SCT TRUNNION TACH HI
	AA370R	56J19-B1	56TB3-T17	SXT TRUNNION TACH LO
	AA329R	56J19-B2	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
*	AA300R	56J19-B2	56J18-C8	TRUNNION CDU 16X ERROR SIG LO
	AA331R	56J19-B3	56TB3-H11	SHAFT CDU 16X ERROR SIG LO
*	AA301R	56J19-B3	56J18-D9	SHAFT CDU 16X ERROR SIG LO
	AA331L	56J19-B4	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
	AA375R	56J19-B5	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
	AA377W	56J19-B7	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
	AA377R	56J19-B8	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
	AA373W	56J19-B9	56TB3-N16	SCT SHAFT TACH HI
*	AA300W	56J19-C1	56J18-B8	TRUNNION CDU 16X ERROR SIG HI
	AA329L	56J19-C2	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
	AA384	56J19-C3	56TB3-N18	TRUNNION CDU 16X LOAD
	AA385	56J19-C4	56TB3-M18	SHAFT CDU 16X LOAD
	AA376	56J19-C5	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
	AA380	56J19-C7	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
	AA379R	56J19-C8	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
	AA373R	56J19-C9	56TB3-N17	SCT SHAFT TACH LO
	AA374W	56J19-D1	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
	AA374R	56J19-D2	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
*	AA299W	56J19-D4	56J18-F1	TRUNNION CDU 1/4X SIN HI
	AA396W	56J19-D5	56TB3-N14	SHAFT CDU 1/2X COS HI S2
	AA396R	56J19-D6	56TB3-N13	SHAFT CDU 1/2X COS LO S4
	AA379W	56J19-D8	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
*	AA299R	56J19-F4	56J18-F2	TRUNNION CDU 1/4X SIN LO
	AA381W	56J19-F5	56TB3-F16	TRUNNION CDU 1/4X COS HI
	AA381R	56J19-F6	56TB3-G16	TRUNNION CDU 1/4X COS LO
	AA386R	56J19-F8	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	AA386W	56J19-F9	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
	AA382R	56J19-G1	56TB3-T13	SCT TRUNNION 1X COS LO
	AA383R	56J19-G2	56TB3-S14	SCT TRUNNION 1X SIN HI

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA397	56J19-R4	56J19-K1	0 VDC OPTICS
	AA362	56J19-R5	56J19-S4	0 VDC OPTICS
	AA363	56J19-R6	56J19-T4	0 VDC OPTICS
	AA358R	56J19-S2	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING
	AA358W	56J19-S3	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING
	AA364	56J19-S4	56TB3-K22	0 VDC OPTICS
*	AA362	56J19-S4	56J19-R5	0 VDC OPTICS
	AA366	56J19-S5	56J19-S6	0 VDC OPTICS
	AA369	56J19-S5	56TB3-K22	0 VDC OPTICS
*	AA366	56J19-S6	56J19-S5	0 VDC OPTICS
	AA357	56J19-T1	56J20-M6	+28 VDC OPTICS
*	AA298	56J19-T1	56J18-S1	+28 VDC OPTICS
	AA360R	56J19-T2	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
	AA360W	56J19-T3	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
	AA365	56J19-T4	56TB3-L22	0 VDC OPTICS
*	AA363	56J19-T4	56J19-R6	0 VDC OPTICS
	AA368	56J19-T5	56J19-T6	0 VDC OPTICS
	AA367	56J19-T6	56TB3-L22	0 VDC OPTICS
*	AA368	56J19-T6	56J19-T5	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA304W	56J18-T6	56J19-P6	800 CPS 28 V 1 PCT HI OPTICS
*	AA233W	56J18-T6	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA383W	56J19-G3	56TB3-S13	SCT TRUNNION 1X SIN LO
*	AA302R	56J19-G5	56J18-H6	COSECANT AMP FEEDBACK SIG LO
*	AA302W	56J19-G6	56J18-G6	COSECANT AMP OUTPUT HI
	AA382W	56J19-H1	56TB3-T14	SCT TRUNNION 1X COS HI
*	AA302L	56J19-H5	56J18-H5	SHAFT CDU MDA COSECANT SIG
*	AA302K	56J19-H6	56J18-G5	COSECANT AMP FEEDBACK SIG HI
	AA391W	56J19-K1	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
	AA397	56J19-K1	56J19-R4	0 VDC OPTICS
	AA398	56J19-K1	56J19-K2	0 VDC OPTICS
	AA399	56J19-K2	56J19-K3	0 VDC OPTICS
*	AA398	56J19-K2	56J19-K1	0 VDC OPTICS
	AA392W	56J19-K3	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
	AA400	56J19-K3	56J19-K4	0 VDC OPTICS
*	AA399	56J19-K3	56J19-K2	0 VDC OPTICS
	AA401	56J19-K4	56J19-K5	0 VDC OPTICS
*	AA400	56J19-K4	56J19-K3	0 VDC OPTICS
	AA402	56J19-K5	56J19-K6	0 VDC OPTICS
*	AA401	56J19-K5	56J19-K4	0 VDC OPTICS
*	AA402	56J19-K6	56J19-K5	0 VDC OPTICS
	AA391R	56J19-L1	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
	AA392R	56J19-L3	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
*	AA616	56J19-M4	56J18-R4	ZERO OPTICS RELAY CONTROL
	AA388	56J19-M5	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA387	56J19-M6	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA389	56J19-N5	56TB3-L18	COSECANT RELAY CONTROL
*	AA304R	56J19-N6	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA359R	56J19-P1	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING
	AA361R	56J19-P2	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
	AA356	56J19-P3	56J20-G4	STRUCTURE GND
*	AA306	56J19-P3	56J18-R5	STRUCTURE GND
	AA394	56J19-P4	56J19-P5	0 VDC OPTICS
	AA393	56J19-P5	56TB3-K21	0 VDC OPTICS
*	AA305	56J19-P5	56J18-S5	0 VDC OPTICS
*	AA394	56J19-P5	56J19-P4	0 VDC OPTICS
*	AA304W	56J19-P6	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA359W	56J19-R1	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING
	AA361W	56J19-R2	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
	AA390	56J19-R4	56TB3-K21	0 VDC OPTICS
*	AA303	56J19-R4	56J18-P3	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA413	56J20-H6	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
	AA454	56J20-K1	56TB3-T20	+28 VDC IMU
	AA455	56J20-K1	56TB3-T21	+28 VDC IMU
*	AA179	56J20-K1	56J15-S2	+28 VDC IMU
	AA456	56J20-K2	56TB3-S21	+28 VDC IMU
*	AA 4	56J20-K2	56J11-S5	+28 VDC IMU
*	AA193	56J20-K2	56J16-S2	+28 VDC IMU
*	AA191W	56J20-K3	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS
	AA424	56J20-K4	56TB3-N19	0 VDC AGC
	AA420	56J20-K5	56TB3-G21	+28 VDC AGC BUSS A
	AA421	56J20-K6	56TB3-G22	+28 VDC AGC BUSS B
	AA438	56J20-L1	56J20-M1	+28 VDC IMU
	AA439	56J20-L1	56J20-L2	+28 VDC IMU
*	AA 2	56J20-L1	56J11-S1	+28 VDC IMU
	AA440	56J20-L2	56J20-M2	+28 VDC IMU
*	AA 3	56J20-L2	56J11-S2	+28 VDC IMU
*	AA439	56J20-L2	56J20-L1	+28 VDC IMU
*	AA191R	56J20-L3	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
*	AA192W	56J20-L4	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA403	56J20-L5	56J21- 37	+28 VDC MDV
	AA404	56J20-L5	56TB3-M22	+28 VDC MDV
*	AA 53	56J20-L6	56J12-G4	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP
*	AA 54	56J20-M1	56J12-S1	+28 VDC IMU
*	AA236	56J20-M1	56J17-T4	+28 VDC IMU
*	AA438	56J20-M1	56J20-L1	+28 VDC IMU
*	AA 55	56J20-M2	56J12-S2	+28 VDC IMU
*	AA237	56J20-M2	56J17-T3	+28 VDC IMU
*	AA440	56J20-M2	56J20-L2	+28 VDC IMU
*	AA192R	56J20-M4	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA405	56J20-M5	56TB3-M21	+28 VDC MDV
	AA457	56J20-M6	56TB3-M20	+28 VDC OPTICS
*	AA357	56J20-M6	56J19-T1	+28 VDC OPTICS
	AA428	56J20-N1	56TB3-C20	+28 VDC IMU BUSS A
	AA429	56J20-N1	56J20-P1	+28 VDC IMU BUSS A
	AA433	56J20-N2	56TB3-D20	+28 VDC IMU BUSS B
	AA434	56J20-N2	56J20-P2	+28 VDC IMU BUSS B
	AA408	56J20-N3	56TB3-K22	0 VDC OPTICS
	AA407	56J20-N4	56TB3-L21	0 VDC OPTICS
*	AA 51	56J20-N5	56J12-S6	+28 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA189	56J20-N5	56J16-S5	+28 VDC OPTICS
	AA406	56J20-N6	56TB3-H20	+28 VDC OPTICS
*	AA190	56J20-N6	56J16-S6	+28 VDC OPTICS
	AA623	56J20-P1	56TB3-C21	+28 VDC IMU BUSS A
*	AA429	56J20-P1	56J20-N1	+28 VDC IMU BUSS A
	AA625	56J20-P2	56TB3-D21	+28 VDC IMU BUSS B
*	AA434	56J20-P2	56J20-N2	+28 VDC IMU BUSS B
	AA445	56J20-P3	56TB3-N22	+28 VDC STBY
*	AA238	56J20-P3	56J17-T1	+28 VDC STBY
*	AA239	56J20-P4	56J17-T2	+28 VDC STBY
	AA446	56J20-P5	56TB3-H21	+28 VDC OPTICS BUSS A
	AA447	56J20-P5	56J20-R5	+28 VDC OPTICS BUSS A
	AA450	56J20-P6	56TB3-H22	+28 VDC OPTICS BUSS B
	AA451	56J20-P6	56J20-R6	+28 VDC OPTICS BUSS B
	AA431	56J20-R1	56J20-S1	+28 VDC IMU BUSS A
	AA622	56J20-R1	56TB3-C20	+28 VDC IMU BUSS A
	AA436	56J20-R2	56J20-S2	+28 VDC IMU BUSS B
	AA624	56J20-R2	56TB3-D20	+28 VDC IMU BUSS B
	AA441	56J20-R3	56TB3-D22	+28 VDC STBY BUSS A
	AA442	56J20-R3	56J20-S3	+28 VDC STBY BUSS A
	AA443	56J20-R4	56TB3-C22	+28 VDC STBY BUSS B
	AA444	56J20-R4	56J20-S4	+28 VDC STBY BUSS B
	AA448	56J20-R5	56J20-S5	+28 VDC OPTICS BUSS A
	AA628	56J20-R5	56TB3-H21	+28 VDC OPTICS BUSS A
*	AA447	56J20-R5	56J20-P5	+28 VDC OPTICS BUSS A
	AA452	56J20-R6	56J20-S6	+28 VDC OPTICS BUSS B
	AA629	56J20-R6	56TB3-H22	+28 VDC OPTICS BUSS B
*	AA451	56J20-R6	56J20-P6	+28 VDC OPTICS BUSS B
	AA432	56J20-S1	56TB3-C21	+28 VDC IMU BUSS A
*	AA431	56J20-S1	56J20-R1	+28 VDC IMU BUSS A
	AA437	56J20-S2	56TB3-D21	+28 VDC IMU BUSS B
*	AA436	56J20-S2	56J20-R2	+28 VDC IMU BUSS B
	AA626	56J20-S3	56TB3-D22	+28 VDC STBY BUSS A
*	AA442	56J20-S3	56J20-R3	+28 VDC STBY BUSS A
	AA627	56J20-S4	56TB3-C22	+28 VDC STBY BUSS B
*	AA444	56J20-S4	56J20-R4	+28 VDC STBY BUSS B
	AA449	56J20-S5	56TB3-H21	+28 VDC OPTICS BUSS A
*	AA448	56J20-S5	56J20-R5	+28 VDC OPTICS BUSS A
	AA453	56J20-S6	56TB3-H22	+28 VDC OPTICS BUSS B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA416	56J20-A1	56TB3-G19	AGC TEMP MONITOR NO 1
	AA417	56J20-A2	56TB3-F19	AGC TEMP MONITOR NO 2
	AA419W	56J20-A3	56TB3-N20	COS AMG 1X S3
	AA414	56J20-A4	56TB3-K19	IMU PRESSURE MONITOR HI
	AA464R	56J20-A6	56TB3-L13	PRESSURE SENSOR +28 VDC HI
	AA418	56J20-B1	56TB3-D19	AGC TEMP MONITOR NO 3
	AA419R	56J20-B3	56TB3-N21	COS AMG 1X S1
	AA415	56J20-B4	56TB3-H19	IMU PRESSURE MONITOR LO
	AA427R	56J20-B5	56TB3-T19	+20 VDC CONDITIONING
	AA464W	56J20-B6	56TB3-K13	PRESSURE SENSOR +28 VDC LO
	AA427W	56J20-C5	56TB3-S19	0 VDC CONDITIONING
	AA425	56J20-C6	56TB3-L19	+13 VDC AGC
	AA463R	56J20-D4	56TB3-S20	+2.5 VDC CONDITIONING LO
	AA463W	56J20-D5	56TB3-R19	+2.5 VDC CONDITIONING HI
	AA426	56J20-D6	56TB3-M19	+3 VDC AGC
	AA409W	56J20-F5	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
	AA410W	56J20-F5	56TB3-B18	800 CPS 28 V 1 PCT HI IMU
	AA409R	56J20-F6	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
	AA410R	56J20-F6	56TB3-B19	800 CPS 28 V 1 PCT LO IMU
	AA458	56J20-G1	56J20-H1	0 VDC IMU
	AA460	56J20-G1	56TB2-M 7	0 VDC IMU
	AA465W	56J20-G3	56TB3-K14	400 CPS 115 V LO
	AA462	56J20-G4	56TB3-F22	STRUCTURE GND
*	AA356	56J20-G4	56J19-P3	STRUCTURE GND
	AA411	56J20-G5	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA 52W	56J20-G5	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA413	56J20-G6	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	AA 52R	56J20-G6	56J12-K4	800 CPS 28 V 5 PCT L-90 DEG LO IMU
	AA459	56J20-H1	56J20-H2	0 VDC IMU
*	AA458	56J20-H1	56J20-G1	0 VDC IMU
	AA461	56J20-H2	56TB2-M 1	0 VDC IMU
*	AA459	56J20-H2	56J20-H1	0 VDC IMU
	AA465R	56J20-H3	56TB3-L14	400 CPS 115 V HI
	AA422	56J20-H4	56TB3-R20	+28 VDC AGC
	AA423	56J20-H4	56J21-234	+28 VDC AGC
*	AA178	56J20-H4	56J15-H5	+28 VDC AGC
	AA412W	56J20-H5	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA411	56J20-H5	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA412R	56J20-H6	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA452	56J20-S6	56J20-R6	+28 VDC OPTICS BUSS B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 634	56J21- 1	56P11-A	+28 VDC AGC BUSS A	167
*	A 639	56J21- 2	56P11-J	0 VDC AGC	169
*	A 476	56J21- 3	56J10- 70	SPARE	211
*	A 505R	56J21- 4	56J10- 31	OUT 0 7	220A
*	A 505W	56J21- 5	56E 22	COMMONED RETURNS GROUND	220B
*	A 483R	56J21- 6	56J10- 17	OUT 0 14	227A
*	A 483W	56J21- 7	56E 23	COMMONED RETURNS GROUND	227B
*	A 489R	56J21- 8	56J10- 44	ALARM 6	234A
*	A 489W	56J21- 9	56E 24	COMMONED RETURNS GROUND	234B
*	A 522	56J21- 10	56J10- 45	SPARE	248
*	A 523	56J21- 11	56J10- 46	SPARE	249
*	A 468W	56J21- 12	56J10- 49	KEY RESET NAV	209A
*	A 468R	56J21- 13	56E 25	COMMONED RETURNS GROUND	209B
*	A 510R	56J21- 14	56J10- 39	TEST ALARM	207A
*	A 510W	56J21- 15	56E 25	COMMONED RETURNS GROUND	207B
*	A 407W	56J21- 16	56J09- 70	SXT PWR ON INDICATION TO AGC	105A
*	A 407R	56J21- 17	56E 58		105B
*	A 449R	56J21- 18	56J09- 37	OPTICS MODE SW COMPUTER INDICATION	106A
*	A 449W	56J21- 19	56E 58		106B
	AA642	56J21- 22	56E 70	AGC SIG 179 SHLD RET	179
	AA473	56J21- 23	56E 45	AGC SIG 180 SHLD RET	180
	AA475L	56J21- 24	56J15-B4	IG ENCODER + DELTA THETA	120A
	AA475R	56J21- 25	56E 38	IG DAC MDA SIG LO	120B
	AA476R	56J21- 26	56J15-C4	IG ENCODER - DELTA THETA	121A
	AA476L	56J21- 27	56E 38	IG DAC MDA SIG LO	121B
*	AA639L	56J21- 28	56J12-D6	IMU FAIL	141A
*	AA639R	56J21- 29	56J12-F6	IMU FAIL RET	141B
	AA486R	56J21- 30	56J15-C9	OG CDU - DELTA THETA COMMAND	127A
	AA486L	56J21- 31	56E 43	OG DAC MDA SIG LO	127B
*	AA130R	56J21- 32	56E 33	0 VDC IMU	143A
*	AA130W	56J21- 33	56J14-D2	- DX GYRO RATE	143B
*	AA226R	56J21- 34	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
*	AA226L	56J21- 35	56J16-L3	COMPUTER 800 PPS SYNC RET	150B
*	AA 81	56J21- 36	56J12-M1	AGC POWER SUPPLY FAIL SIG HI	157A
*	AA403	56J21- 37	56J20-L5	+28 VDC MDV	157B
*	A 509	56J21- 39	56J10- 58	GND	239
*	A 481	56J21- 40	56J10- 59	+28 VDC AGC	243
*	A 499R	56J21- 41	56J10- 30	OUT 0 6	219A
*	A 499W	56J21- 42	56E 22	COMMONED RETURNS GROUND	219B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 504R	56J21- 43	56J10- 16	OUT 0 13	226A
*	A 504W	56J21- 44	56E 23	COMMONED RETURNS GROUND	226B
*	A 488R	56J21- 45	56J10- 33	ALARM 5	233A
*	A 488W	56J21- 46	56E 23	COMMONED RETURNS GROUND	233B
*	A 470R	56J21- 47	56J10- 42	TIMING (1.5 CPS)	244A
*	A 470W	56J21- 48	56E 24	COMMONED RETURNS GROUND	244B
	AA562	56J21- 53	56E 57	AGC SIG 178 SHLD RET	178
*	A 437W	56J21- 54	56J09- 25	OPTICS ZERO ENCODER	104A
*	A 437R	56J21- 55	56E 58		104B
	AA479L	56J21- 56	56J15-B8	OG ENCODER + DELTA THETA	118A
	AA479R	56J21- 57	56E 42	OG DAC MDA SIG LO	118B
	AA480R	56J21- 58	56J15-C8	OG ENCODER - DELTA THETA	119A
	AA480L	56J21- 59	56E 42	OG DAC MDA SIG LO	119B
*	AA641L	56J21- 60	56J12-D4	ACCEL FAIL	138A
*	AA641R	56J21- 61	56J12-F4	ACCEL FAIL RET	138B
*	AA521	56J21- 62	56TB3-L19	+13 VDC AGC	176
*	AA522	56J21- 63	56TB3-N19	0 VDC AGC	177
	AA485L	56J21- 64	56J15-B9	OG CDU + DELTA THETA COMMAND	126A
	AA485R	56J21- 65	56E 43	OG DAC MDA SIG LO	126B
*	AA129W	56J21- 66	56E 33	0 VDC IMU	142A
*	AA129R	56J21- 67	56J14-D1	+ DX GYRO RATE	142B
*	AA227R	56J21- 68	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	149A
*	AA227L	56J21- 69	56J16-L3	COMPUTER 800 PPS SYNC RET	149B
*	AA 70L	56J21- 70	56J12-K1	COMPUTER 102.4 KPPS SYNC	156A
*	AA 70R	56J21- 71	56J12-H1	COMPUTER 102.4 KPPS SYNC RET	156B
*	A 635	56J21- 73	56P11-A	+28 VDC AGC BUSS A	167
*	A 640	56J21- 74	56P11-J	0 VDC AGC	169
*	A 473	56J21- 75	56J10- 71	SPARE	212
*	A 498R	56J21- 76	56J10- 29	OUT 0 5	218A
*	A 498W	56J21- 77	56E 22	COMMONED RETURNS GROUND	218B
*	A 506R	56J21- 78	56J10- 15	OUT 0 12	225A
*	A 506W	56J21- 79	56E 23	COMMONED RETURNS GROUND	225B
*	A 482R	56J21- 80	56J10- 32	ALARM 4	232A
*	A 482W	56J21- 81	56E 23	COMMONED RETURNS GROUND	232B
*	A 471R	56J21- 82	56J10- 20	POWER SYNC	242A
*	A 471W	56J21- 83	56E 24	COMMONED RETURNS GROUND	242B
*	A 467R	56J21- 84	56J10- 38	KEY CODE 5	205A
*	A 467W	56J21- 85	56E 25	COMMONED RETURNS GROUND	205B
*	A 433W	56J21- 86	56J09- 30	MARK	102A

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SCALE - NONE	REV LTR K	SHEET 62

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 433R	56J21- 87	56E 58		102B
*	A 434W	56J21- 88	56J09- 31	NOT MARK	103A
*	A 434R	56J21- 89	56E 58		103B
	AA468R	56J21- 92	56E 35	COMPUTER RET	133A
	AA468L	56J21- 93	56J15-M6	- DELTA V X	133B
	AA471R	56J21- 94	56E 37	COMPUTER RET	137A
	AA471L	56J21- 95	56J15-K4	- DELTA V Z	137B
*	AA525	56J21- 96	56TB3-M19	+3 VDC AGC	175
	AA484R	56J21- 97	56J15-C7	MG CDU - DELTA THETA COMMAND	131A
	AA484L	56J21- 98	56E 41	MG DAC MDA SIG LO	131B
	AA502W	56J21- 99	56J13-N6	PIPA SWITCHING PULSE	140A
	AA502R	56J21-100	56E 34	0 VDC IMU	140B
*	AA157R	56J21-101	56J15-R2	0 VDC IMU	148A
*	AA157W	56J21-102	56J15-P1	GYRO RESET PULSE	148B
	AA500R	56J21-103	56J17-R3	COMPUTER 12.8 KPPS SYNC	155A
	AA500L	56J21-104	56E 27	0 VDC IMU	155B
	A 571	56J21-107	56E 63	GROUP 2 SHIELD	245
*	A 477	56J21-108	56J10- 57	+13 V B	241
*	A 497R	56J21-109	56J10- 28	OUT 0 4	217A
*	A 497W	56J21-110	56E 22	COMMONED RETURNS GROUND	217B
*	A 503R	56J21-111	56J10- 14	OUT 0 11	224A
*	A 503W	56J21-112	56E 23	COMMONED RETURNS GROUND	224B
*	A 487R	56J21-113	56J10- 19	ALARM 3	231A
*	A 487W	56J21-114	56E 23	COMMONED RETURNS GROUND	231B
*	A 493R	56J21-115	56J10- 64	ALARM 10	238A
*	A 493W	56J21-116	56E 24	COMMONED RETURNS GROUND	238B
*	A 511R	56J21-117	56J10- 37	KEY CODE 4	204A
*	A 511W	56J21-118	56E 25	COMMONED RETURNS GROUND	204B
	A 440W	56J21-119	56E 56	AGC COMMON	101A
	A 440R	56J21-120	56E 58		101B
	AA487L	56J21-121	56TB2-D 2	AGC COM	165A
	AA487R	56J21-122	56TB2-F 3		165B
	AA495L	56J21-123	56J18-K1	SHAFT CDU ENCODER - DELTA THETA	111A
	AA495R	56J21-124	56E 53	SHAFT CDU DAC LO	111B
	AA467R	56J21-125	56E 35	COMPUTER RET	132A
	AA467L	56J21-126	56J15-M5	+ DELTA V X	132B
	AA472R	56J21-127	56E 37	COMPUTER RET	136A
	AA472L	56J21-128	56J15-K5	+ DELTA V Z	136B
*	AA526	56J21-129	56TB3-D19	AGC TEMP MONITOR NO 3	173

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA493R	56J21-130	56J18-L2	SHAFT CDU - DELTA THETA COMMAND	117A
	AA493L	56J21-131	56E 52	SHAFT CDU DAC LO	117B
	AA501W	56J21-132	56J13-N5	PIPA INTERROGATE PULSE	139A
	AA501R	56J21-133	56E 34	0 VDC IMU	139B
*	AA135W	56J21-134	56E 33	0 VDC IMU	147A
*	AA135R	56J21-135	56J14-D6	- DZ GYRO RATE	147B
	AA491R	56J21-136	56J12-G2	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA491L	56J21-137	56E 29	COMPUTER 25.6 KPPS SYNC RET	154B
*	A 637	56J21-139	56P12-A	+28 VDC AGC BUSS B	168
*	A 641	56J21-140	56P12-J	0 VDC AGC	170
*	A 469	56J21-141	56J10- 72	SPARE	213
*	A 496R	56J21-142	56J10- 60	OUT 0 3	216A
*	A 496W	56J21-143	56E 22	COMMONED RETURNS GROUND	216B
*	A 502R	56J21-144	56J10- 63	OUT 0 10	223A
*	A 502W	56J21-145	56E 22	COMMONED RETURNS GROUND	223B
*	A 486R	56J21-146	56J10- 41	ALARM 2	230A
*	A 486W	56J21-147	56E 23	COMMONED RETURNS GROUND	230B
*	A 492R	56J21-148	56J10- 51	ALARM 9	237A
*	A 492W	56J21-149	56E 24	COMMONED RETURNS GROUND	237B
*	A 472R	56J21-150	56J10- 36	KEY CODE 3	203A
*	A 472W	56J21-151	56E 25	COMMONED RETURNS GROUND	203B
	AA489L	56J21-152	56J16-A7	ZERO ENCODER MODE INDICATION TO AGC	158A
	AA489R	56J21-153	56E 60		158B
*	A 14W	56J21-154	56P01- 59	COARSE ALIGN MODE INDICATION TO AGC	159A
*	A 14R	56J21-155	56E 61		159B
	AA494L	56J21-156	56J18-L1	SHAFT CDU ENCODER + DELTA THETA	110A
	AA494R	56J21-157	56E 53	SHAFT CDU DAC LO	110B
*	AA640L	56J21-158	56J12-D5	CDU FAIL	124A
*	AA640R	56J21-159	56J12-F5	CDU FAIL RET	124B
	AA470R	56J21-160	56E 36	COMPUTER RET	135A
	AA470L	56J21-161	56J15-K6	- DELTA V Y	135B
*	AA529	56J21-162	56TB3-F19	AGC TEMP MONITOR NO 2	172
	AA492L	56J21-163	56J18-K2	SHAFT CDU + DELTA THETA COMMAND	116A
	AA492R	56J21-164	56E 52	SHAFT CDU DAC LO	116B
	AA483L	56J21-165	56J15-B7	MG CDU + DELTA THETA COMMAND	130A
	AA483R	56J21-166	56E 41	MG DAC MDA SIG LO	130B
*	AA134R	56J21-167	56E 33	0 VDC IMU	146A
*	AA134W	56J21-168	56J14-D5	+ DZ GYRO RATE	146B
	AA490L	56J21-169	56J12-G1	COMPUTER 25.6 KPPS IN PHASE SYNC	153A

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SCALE - NONE	REV LTR K	SHEET 64

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 500W	56J21-213	56E 22	COMMONED RETURNS GROUND	221B
*	A 484R	56J21-214	56J10- 18	OUT 0 15	228A
*	A 484W	56J21-215	56E 23	COMMONED RETURNS GROUND	228B
*	A 490R	56J21-216	56J10- 43	ALARM 7	235A
*	A 490W	56J21-217	56E 24	COMMONED RETURNS GROUND	235B
*	A 516R	56J21-218	56J10- 34	KEY CODE 1	201A
*	A 516W	56J21-219	56E 25	COMMONED RETURNS GROUND	201B
*	A 517R	56J21-220	56J10- 48	ERROR RESET	208A
*	A 517W	56J21-221	56E 25	COMMONED RETURNS GROUND	208B
*	A 15W	56J21-222	56P01- 49	FINE ALIGN MODE INDICATION TO AGC	161A
*	A 15R	56J21-223	56E 61		161B
*	A 27W	56J21-224	56P01- 76	ATTIT CONT MODE INDICATION TO AGC	162A
*	A 27R	56J21-225	56E 61		162B
*	A 16W	56J21-226	56P01- 39	ENTRY MODE INDICATION TO AGC	163A
*	A 16R	56J21-227	56E 61		163B
*	A 156W	56J21-228	56J06- 69	TRANSFER SWITCH INDICATION TO AGC	164A
*	A 156R	56J21-229	56E 55		164B
	AA498L	56J21-230	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA	108A
	AA498R	56J21-231	56E 51	TRUNNION CDU DAC LO	108B
	AA477L	56J21-232	56J15-B6	MG ENCODER + DELTA THETA	122A
	AA477R	56J21-233	56E 40	MG DAC MDA SIG LO	122B
*	AA423	56J21-234	56J20-H4	+28 VDC AGC	166
	AA496L	56J21-235	56J18-K3	TRUNNION CDU + DELTA THETA COMMAND	114A
	AA496R	56J21-236	56E 50	TRUNNION CDU DAC LO	114B
	AA481L	56J21-237	56J15-B5	IG CDU + DELTA THETA COMMAND	128A
	AA481R	56J21-238	56E 39	IG DAC MDA SIG LO	128B
*	AA131W	56J21-239	56E 33	0 VDC IMU	144A
*	AA131R	56J21-240	56J14-D3	+ DY GYRO RATE	144B
	AA504R	56J21-241	56J11-M6	COMPUTER 3200 PPS IN PHASE SYNC	151A
	AA504L	56J21-242	56E 28	COMPUTER 3200 PPS SYNC RET	151B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA287L	56J22- 1	56J17-A3	ROLL ERROR BODY OFFSET AXIS HI
	AA287B	56J22- 2	SHLD AA287	
*	AA244L	56J22- 3	56J17-A4	ROLL ERROR BODY AXIS HI
*	AA244R	56J22- 4	56J17-B4	ROLL ERROR BODY AXIS LO
	AA245B	56J22- 5	SHLD AA245	
*	AA245L	56J22- 6	56J17-C4	YAW ERROR BODY AXIS HI
	AA246B	56J22- 8	SHLD AA246	
*	AA288R	56J22- 10	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA288B	56J22- 11	SHLD AA288	
*	A 197	56J22- 37	56J08- 54	+28 VDC SPACECRAFT
*	A 196	56J22- 38	56J08- 53	MASTER WARNING LIGHT RET
*	AA287R	56J22- 39	56J17-B3	ROLL ERROR BODY OFFSET AXIS LO
	AA244B	56J22- 41	SHLD AA244	
*	AA245R	56J22- 43	56J17-D4	YAW ERROR BODY AXIS LO
*	AA246L	56J22- 45	56J17-C3	YAW ERROR BODY OFFSET AXIS HI
*	AA246R	56J22- 46	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	AA288L	56J22- 48	56J17-D1	PITCH ERROR BODY AND BODY OFFSET AXIS HI
*	A 207	56J22- 71	56J08- 32	+28 VDC SPACECRAFT
*	A 206	56J22- 72	56J08- 43	MASTER CAUTION LIGHT RET
	AA505R	56J22-107	56TB2-U 7	SIN AOG 1X S2
	AA507R	56J22-111	56TB3-C14	SIN AMG 1X
	AA508L	56J22-113	56TB3-N20	COS AMG 1X S3
	AA508R	56J22-114	56TB3-N21	COS AMG 1X S1
	AA509L	56J22-116	56TB3-D13	SIN AIG 1X RET
*	AA517R	56J22-120	56TB3-B19	800 CPS 28 V 1 PCT LO IMU
	AA505L	56J22-139	56TB2-U 8	SIN AOG 1X S4
	AA506L	56J22-141	56TB2-N 8	COS AOG 1X S3
	AA506R	56J22-142	56TB2-N 7	COS AOG 1X S1
	AA507L	56J22-144	56TB3-C13	SIN AMG 1X RET
	AA509R	56J22-148	56TB3-D14	SIN AIG 1X
	AA510L	56J22-150	56TB3-F13	COS AIG 1X RET
	AA510R	56J22-151	56TB3-F14	COS AIG 1X
*	AA517W	56J22-153	56TB3-B18	800 CPS 28 V 1 PCT HI IMU
*	A 461	56J22-171	56P10- 8	MAIN PANEL GIMBAL LOCK LIGHT
	AA647	56J22-172	56TB3-F 2	SPACECRAFT LAMP TEST
*	AA518	56J22-190	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
*	A 389L	56J22-192	56J09- 17	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT
*	A 389W	56J22-193	56J09- 3	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 387R	56J22-195	56J09- 18	PITCH ATTIT IMPULSE CONTR INPUT

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SCALE - NONE	REV LTR K	SHEET 67

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA490R	56J21-170	56E 29	COMPUTER 25.6 KPPS SYNC RET	153B
*	A 512	56J21-173	56J10- 56	GND	239
*	A 513	56J21-174	56J10- 55	+3 V B	240
*	A 495R	56J21-175	56J10- 74	OUT 0 2	215A
*	A 495W	56J21-176	56E 22	COMMONED RETURNS GROUND	215B
*	A 501R	56J21-177	56J10- 62	OUT 0 9	222A
*	A 501W	56J21-178	56E 22	COMMONED RETURNS GROUND	222B
*	A 485R	56J21-179	56J10- 40	ALARM 1	229A
*	A 485W	56J21-180	56E 23	COMMONED RETURNS GROUND	229B
*	A 491R	56J21-181	56J10- 53	ALARM 8	236A
*	A 491W	56J21-182	56E 24	COMMONED RETURNS GROUND	236B
*	A 514R	56J21-183	56J10- 35	KEY CODE 2	202A
*	A 514W	56J21-184	56E 25	COMMONED RETURNS GROUND	202B
*	A 515R	56J21-185	56J10- 47	OR OF C1 THRU C33	210A
*	A 515W	56J21-186	56E 25	COMMONED RETURNS GROUND	210B
	A 568	56J21-187	56E 64	GROUP 3 SHIELD	250
	AA488L	56J21-188	56J15-A3	MANUAL CDU MODE INDICATION TO AGC	160A
	AA488R	56J21-189	56E 59		160B
	AA499L	56J21-190	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA499R	56J21-191	56E 51	TRUNNION CDU DAC LO	109B
	AA478R	56J21-192	56J15-C6	MG ENCODER - DELTA THETA	123A
	AA478L	56J21-193	56E 40	MG DAC MDA SIG LO	123B
	AA469R	56J21-194	56E 36	COMPUTER RET	134A
	AA469L	56J21-195	56J15-L6	+ DELTA V Y	134B
*	AA530	56J21-196	56TB3-G19	AGC TEMP MONITOR NO 1	171
	AA497R	56J21-197	56J18-L3	TRUNNION CDU - DELTA THETA COMMAND	115A
	AA497L	56J21-198	56E 50	TRUNNION CDU DAC LO	115B
	AA482R	56J21-199	56J15-C5	IG CDU - DELTA THETA COMMAND	129A
	AA482L	56J21-200	56E 39	IG DAC MDA SIG LO	129B
*	AA132W	56J21-201	56E 33	0 VDC IMU	145A
*	AA132R	56J21-202	56J14-D4	- DY GYRO RATE	145B
	AA503R	56J21-203	56J11-L6	COMPUTER 3200 PPS OUT OF PHASE SYNC	152A
	AA503L	56J21-204	56E 28	COMPUTER 3200 PPS SYNC RET	152B
*	A 638	56J21-207	56P12-A	+28 VDC AGC BUSS B	168
*	A 642	56J21-208	56P12-J	0 VDC AGC	170
*	A 520	56J21-209	56J10- 75	SPARE	247
*	A 494R	56J21-210	56J10- 73	OUT 0 1	214A
*	A 494W	56J21-211	56E 22	COMMONED RETURNS GROUND	214B
*	A 500R	56J21-212	56J10- 61	OUT 0 8	221A

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SCALE - NONE	REV LTR K	SHEET 65

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 388L	56J22-197	56J09- 6	YAW ATTIT IMPULSE CONTR OUTPUT LEFT
*	A 388W	56J22-198	56J09- 20	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 393W	56J22-200	56J09- 40	0 VDC FROM NAA
*	AA292	56J22-206	56J17-M3	0 VDC SPACECRAFT
*	AA175	56J22-227	56J15-S3	LOCK CDU RELAY CONTROL
*	AA220	56J22-228	56J16-L1	FINE ALIGN RELAY CONTROL
*	A 389R	56J22-230	56J09- 16	ROLL ATTIT IMPULSE CONTR INPUT
*	A 387L	56J22-232	56J09- 5	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN
*	A 387W	56J22-233	56J09- 4	PITCH ATTIT IMPULSE CONTR OUTPUT UP
*	A 388R	56J22-235	56J09- 7	YAW ATTIT IMPULSE CONTR INPUT
*	A 393R	56J22-237	56J09- 41	+28 VDC FROM NAA
*	A 393L	56J22-238	56J09- 50	ATTITUDE DISABLE SIG TO NAA
*	AA293	56J22-243	56J17-L3	IMU TEMP LIGHT (MAIN PANEL)
*	AA 74	56J22-244	56J12-G3	ERROR DETECT LIGHT MAIN PANEL

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SCALE - NONE	REV LTR K	SHEET 68

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INCHES
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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 11	56P01- 69	56TB2-B 1	LOCK CDU RELAY CONTROL	
	A 24R	56P01- 70	56TB2-H 2	IG CDU 1X ERROR SIG	
	A 24W	56P01- 71	56TB2-G 2	IG CDU ERROR SIG RET	
	A 27W	56P01- 76	56J21-224	ATTIT CONT MODE INDICATION TO AGC	162A
	A 20	56P01- 78	56TB2-M 4	0 VDC IMU	
*	A 176	56P01- 79	56J06- 79	ENTRY MODE LIGHT	
	A 1R	56P01- 80	56TB2-A 2	PANEL BRIGHTNESS CONTROL	
	A 25R	56P01- 82	56TB2-H 7	MG CDU 1X ERROR SIG	
	A 25W	56P01- 83	56TB2-G 7	MG CDU ERROR SIG RET	
	A 33	56P01- 84	56TB3-B20	STRUCTURE GND	
	A 28	56P01- 88	56TB3-F 3	CONDITION LAMP TEST	
	A 29	56P01- 89	56TB3-M21	+28 VDC MDV	
	A 602K	56P01- 90	56TB1-M 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
	A 18	56P01- 91	56TB1-K 1	MODE LAMP TEST PWR	
*	A 172	56P01- 92	56J06- 92	COARSE ALIGN MODE LIGHT	
*	A 168	56P01- 93	56J06- 93	MODE RELAY COMMON	
*	A 174	56P01- 94	56J06- 94	FINE ALIGN MODE LIGHT	
	A 1W	56P01- 95	56TB2-A 1	PANEL BRIGHTNESS CONTROL	
	A 23R	56P01- 96	56TB2-N 2	OG CDU 1X ERROR SIG	
	A 23W	56P01- 97	56TB2-R 2	OG CDU ERROR SIG RET	
	A 602R	56P01-103	56TB1-R 1	400 CPS VAR ILLUM PWR	
*	A 171	56P01-104	56J06-104	ZERO ENCODER MODE LIGHT	
*	A 173	56P01-105	56J06-105	CDU MANUAL MODE LIGHT	
	A 602L	56P01-106	56TB1-N 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
	A 602W	56P01-108	56TB1-T 1	400 CPS VAR ILLUM PWR	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 216R	56P02-A	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
A 227R	56P02-A*	56TB3-F14	COS AIG 1X S3
A 216W	56P02-B	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
A 227W	56P02-B*	56TB3-F13	COS AIG 1X RET S1
A 217R	56P02-C	56TB2-W 4	COS AOG 16X S3
A 217W	56P02-D	56TB2-W 3	COS AOG 16X S1
A 218R	56P02-E	56TB2-X 3	SIN AOG 16X S2
A 218W	56P02-F	56TB2-W 2	SIN AOG 16X S4
A 228R	56P02-F*	56TB3-D13	SIN AIG 1X RET S2
A 219R	56P02-G	56TB2-U 5	COS AMG 16X S3
A 228W	56P02-G*	56TB3-D14	SIN AIG 1X S4
A 219W	56P02-H	56TB2-T 5	COS AMG 16X S1
A 220R	56P02-J	56TB2-A 7	SIN AMG 16X S2
A 220W	56P02-K	56TB2-B 7	SIN AMG 16X S4
A 221R	56P02-L	56TB3-N20	COS AMG 1X S3
A 221W	56P02-M	56TB3-N21	COS AMG 1X S1
A 222W	56P02-N	56TB3-C13	SIN AMG 1X RET S2
A 222R	56P02-P	56TB3-C14	SIN AMG 1X S4
A 223R	56P02-R	56TB1-D 2	3200 CPS 2 V HI
A 223W	56P02-S	56TB1-C 2	3200 CPS 2 V LO
A 224R	56P02-T	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
A 224W	56P02-U	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
A 225R	56P02-W	56TB2-W 6	COS AIG 16X S3
A 225W	56P02-X	56TB2-X 7	COS AIG 16X S1
A 226R	56P02-Y	56TB2-A 8	SIN AIG 16X S2
A 226W	56P02-Z	56TB2-B 8	SIN AIG 16X S4

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 150R	56P01- 1	56J06- 1	PITCH ATTITUDE ERROR METER +	
*	A 150W	56P01- 2	56J06- 2	PITCH ATTITUDE ERROR METER -	
	A 26	56P01- 4	56TB1-D 6	COARSE ALIGN RELAY CONTROL	
	A 10	56P01- 5	56TB2-C 1	FINE ALIGN RELAY CONTROL	
*	A 161	56P01- 6	56J06- 6	ENTRY RELAY CONTROL RESET	
	A 21	56P01- 7	56TB3-S21	+28 VDC IMU	
*	A 160	56P01- 9	56J06- 9	MODE SWITCH INTERLOCK	
	A 19W	56P01- 10	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU	
	A 19R	56P01- 11	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU	
	A 8	56P01- 12	56TB2-B 2	ZERO ENCODER RELAY CONTROL	
	A 5	56P01- 13	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC	
*	A 151R	56P01- 14	56J06- 14	YAW ATTITUDE ERROR METER +	
*	A 151W	56P01- 15	56J06- 15	YAW ATTITUDE ERROR METER -	
*	A 157	56P01- 18	56J06- 18	MODE RELAY COMMON TO D AND C ELECT	
*	A 175	56P01- 22	56J06- 22	ATTITUDE CONTROL MODE LIGHT	
*	A 165	56P01- 23	56J06- 23	FINE ALIGN RELAY CONTROL	
	A 12	56P01- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL	
*	A 167	56P01- 25	56J06- 25	ENTRY RELAY CONTROL	
	A 22	56P01- 26	56TB1-U 2	IMU DELAY LIGHT HI	
	A 6	56P01- 27	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC	
*	A 152W	56P01- 28	56J06- 28	ROLL ATTITUDE ERROR METER -	
*	A 152R	56P01- 29	56J06- 29	ROLL ATTITUDE ERROR METER +	
*	A 162	56P01- 34	56J06- 34	ZERO ENCODER RELAY CONTROL	
*	A 163	56P01- 35	56J06- 35	COARSE ALIGN RELAY CONTROL	
*	A 164	56P01- 36	56J06- 36	CDU MANUAL RELAY CONTROL	
	A 30	56P01- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL	
	A 3	56P01- 38	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC	
	A 16W	56P01- 39	56J21-226	ENTRY MODE INDICATION TO AGC	163A
	A 31	56P01- 45	56TB3-M 2	IMU TD RELAY C	
*	A 177	56P01- 46	56J06- 46	ATTITUDE CONTROL MODE INTERLOCK	
	A 4	56P01- 48	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC	
	A 15W	56P01- 49	56J21-222	FINE ALIGN MODE INDICATION TO AGC	161A
	A 32	56P01- 55	56TB3-L 2	IMU TD RELAY NO	
*	A 170	56P01- 56	56J06- 56	MANUAL ALIGN	
	A 9	56P01- 57	56TB2-R 4	ENTRY RELAY CONTROL	
	A 7	56P01- 58	56TB1-K 6	ENTRY MODE COMMAND FROM AGC	
	A 14W	56P01- 59	56J21-154	COARSE ALIGN MODE INDICATION TO AGC	159A
	A 2	56P01- 65	56TB3-L 1	IRIG TEMP GAIN SWITCH NC	
	A 13W	56P01- 68	56TB2-D 2	AGC COM	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 229W	56P03-A	56TB1-C 7	X GYRO ERROR SIG
A 239W	56P03-A*	56TB1-A 3	MG TORQUE MOTOR RET
A 230W	56P03-B	56TB1-C 8	Z GYRO ERROR SIG
A 240R	56P03-B*	56TB1-A 3	MG TORQUE MOTOR RET
A 231R	56P03-C	56TB1-A 8	IMU OG ERROR SIG
A 240W	56P03-C*	56TB1-A 4	MG TORQUE MOTOR HI
A 232R	56P03-D	56TB2-N 8	COS AOG 1X S3
A 241R	56P03-D*	56TB1-D 3	IG TORQUE MOTOR HI
A 232W	56P03-E	56TB2-N 7	COS AOG 1X S1
A 241W	56P03-E*	56TB1-D 4	IG TORQUE MOTOR RET
A 233R	56P03-F	56TB2-U 8	SIN AOG 1X S4
A 242R	56P03-F*	56TB1-D 4	IG TORQUE MOTOR RET
A 233W	56P03-G	56TB2-U 7	SIN AOG 1X S2
A 242W	56P03-G*	56TB1-D 3	IG TORQUE MOTOR HI
A 234W	56P03-H	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR
A 244	56P03-H*	56TB3-T20	+28 VDC IMU
A 234R	56P03-J	56TB1-B 5	IG CDU ERROR SIG RET
A 243	56P03-J*	56TB3-F 5	GIMBAL LOCK SIGNAL
A 235R	56P03-K	56TB1-A 6	MG CDU ERROR SIG RET
A 235W	56P03-L	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR
A 236W	56P03-M	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
A 236R	56P03-N	56TB3-R 4	PITCH YAW RSVR S3
A 237W	56P03-P	56TB3-M13	PITCH ERROR BODY AND BODY OFFSET AXIS LO
A 237R	56P03-R	56TB3-M14	PITCH-YAW RSVR S4
A 231L	56P03-U	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 231W	56P03-V	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 231K	56P03-W	56TB1-A 7	IMU MG ERROR SIG
A 238R	56P03-X	56TB1-B 2	OG TORQUE MOTOR RET
A 238W	56P03-Y	56TB1-A 2	OG TORQUE MOTOR HI
A 239R	56P03-Z	56TB1-A 4	MG TORQUE MOTOR HI

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INCHES
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 259W	56P05-A	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING RED
	A 253R	56P05-A*	56TB3-S 8	SXT AT 64X RSVR COS HI
	A 264	56P05-AA	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
	A 259R	56P05-B	56TB3-C18	+28 VDC OPTICS
	A 253W	56P05-B*	56TB3-S 7	SXT AT 64X RSVR COS LO
	A 263W	56P05-BB	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
	A 259L	56P05-C	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING BLK
	A 254R	56P05-C*	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
	A 265R	56P05-CC	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
*	A 247R	56P05-CC	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
	A 598R	56P05-D	56TB2-U 2	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
	A 254W	56P05-D*	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
	A 265W	56P05-DD	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
*	A 247W	56P05-DD	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
	A 598W	56P05-E	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	A 255W	56P05-E*	56TB3-F16	TRUNNION CDU 1/4X COS HI
	A 251R	56P05-EE	56P04-H	AS 16X RSVR P2 TRIM
	A 255R	56P05-F*	56TB3-G16	TRUNNION CDU 1/4X COS LO
	A 251W	56P05-FF	56P04-F	AS 16X RSVR P4 TRIM
	A 256R	56P05-G*	56TB3-G10	TRUNNION CDU 1/4X SIN HI
	A 256W	56P05-H*	56TB3-F10	TRUNNION CDU 1/4X SIN LO
	A 263R	56P05-HH	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
	A 246W	56P05-I*	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING RED
	A 247W	56P05-J	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
	A 268R	56P05-J	56P04-C	800 CPS 28 V 1 PCT LO OPTICS
	A 246L	56P05-J*	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING BLK
	A 247R	56P05-K	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS
	A 268W	56P05-K	56P04-A	800 CPS 28 V 1 PCT HI OPTICS
	A 257R	56P05-K*	56TB3-T16	SXT TRUNNION TACH HI
	A 266R	56P05-L	56TB1-T 1	400 CPS VAR ILLUM PWR
	A 266W	56P05-M	56TB1-T 2	400 CPS 6 V LO
	A 257W	56P05-M*	56TB3-T17	SXT TRUNNION TACH LO
	A 248W	56P05-N*	56TB3-R 7	SXT AS 16X RSVR SIN LO
	A 246R	56P05-P	56TB3-C18	+28 VDC OPTICS
	A 248R	56P05-P*	56TB3-R 8	SXT AS 16X RSVR SIN HI
	A 258R	56P05-Q*	56TB3-R10	SXT AS 16X RSVR COS LO
	A 270	56P05-R	56TB3-F21	STRUCTURE GND
	A 258W	56P05-R*	56TB3-R11	SXT AS 16X RSVR COS HI
	A 249	56P05-S	56TB3-K21	0 VDC OPTICS

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 250	56P05-T	56TB3-K21	0 VDC OPTICS
A 260R	56P05-U*	56TB3-S17	SXT SHAFT TACH HI
A 260W	56P05-V*	56TB3-S16	SXT SHAFT TACH LO
A 267W	56P05-W	56P04-J	AT 64X RSVR P4 TRIM
A 261R	56P05-W*	56TB3-N13	SHAFT CDU 1/2X COS LO P4
A 267R	56P05-X	56P04-K	AT 64X RSVR P2 TRIM
A 261W	56P05-X*	56TB3-N14	SHAFT CDU 1/2X COS HI P2
A 252W	56P05-Y	56TB3-T 7	SXT AT 64X RSVR SIN HI
A 262R	56P05-Y*	56TB3-K10	SHAFT CDU 1/2X SIN HI P1
A 252R	56P05-Z	56TB3-T 8	SXT AT 64X RSVR SIN LO
A 262W	56P05-Z*	56TB3-K11	SHAFT CDU 1/2X SIN LO P3

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 268W	56P04-A	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
*	A 268R	56P04-C	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
*	A 251W	56P04-F	56P05-FF	AS 16X RSVR P4 TRIM
*	A 251R	56P04-H	56P05-EE	AS 16X RSVR P2 TRIM
*	A 267W	56P04-J	56P05-W	AT 64X RSVR P4 TRIM
*	A 267R	56P04-K	56P05-X	AT 64X RSVR P2 TRIM

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 271R	56P06-A	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 286	56P06-A*	56TB3-K 3	IRIG TEMP IND SENSOR RET
A 271W	56P06-B	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO
A 282R	56P06-B*	56TB3-L13	PRESSURE SENSOR +28 VDC HI
A 271L	56P06-C	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 282W	56P06-C*	56TB3-K13	PRESSURE SENSOR +28 VDC LO
A 284	56P06-D	56TB3-T20	+28 VDC IMU
A 283R	56P06-D*	56TB3-K19	IMU PRESSURE MONITOR HI
A 287	56P06-E	56TB2-D 4	0 VDC IMU
A 283W	56P06-E*	56TB3-H19	IMU PRESSURE MONITOR LO
A 272	56P06-F	56TB1-D 5	-28 VDC
A 281R	56P06-F*	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 288	56P06-G	56TB3-F21	STRUCTURE GND
A 281W	56P06-G*	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 273R	56P06-H	56TB1-A 2	OG TORQUE MOTOR HI
A 273W	56P06-J	56TB1-B 2	OG TORQUE MOTOR RET
A 274	56P06-K	56TB3-G 5	IMU TEMP SENSOR COM
A 275W	56P06-L	56TB3-L 3	IRIG TEMP CONT SENSOR RET
A 275R	56P06-M	56TB3-L 4	IRIG TEMP CONT SENSOR HI
A 276	56P06-N	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 285	56P06-P	56TB3-M 1	ACCEL TEMP IND SENSOR RET
A 279W	56P06-R	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY
A 278R	56P06-V	56TB3-N 5	IMU CONTROL HTR HI
A 278W	56P06-W	56TB3-N 4	IMU CONTROL HTR LO
A 279R	56P06-X	56TB3-N 1	IMU EMERGENCY HTR HI
A 277	56P06-Y	56TB3-N 6	EMERG HTR CONT MODULE LO
A 280	56P06-Z	56TB3-H 4	IRIG TEMP IND SENSOR HI

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INCHES
0 1 2
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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 289R	56P07-A	56TB1-T 8	Z GYRO TORQUE +
A 296W	56P07-A*	56TB1-N 2	Y PIP ERROR LO
A 289W	56P07-B	56TB1-U 7	Z GYRO TORQUE RET
A 297R	56P07-B*	56TB1-T 5	Z PIP ERROR HI
A 289L	56P07-C	56TB1-U 8	Z GYRO TORQUE -
A 297W	56P07-C*	56TB1-T 4	Z PIP ERROR LO
A 290R	56P07-D	56TB1-M 8	X GYRO TORQUE +
A 290W	56P07-E	56TB1-L 8	X GYRO TORQUE RET
A 290L	56P07-F	56TB1-L 7	X GYRO TORQUE -
A 298R	56P07-F*	56TB1-C 3	OG ADA
A 291R	56P07-G	56TB1-T 6	Y GYRO TORQUE +
A 298L	56P07-G*	56TB1-B 4	MG ADA
A 291W	56P07-H	56TB1-U 5	Y GYRO TORQUE RET
A 298K	56P07-H*	56TB1-C 4	IG ADA
A 291L	56P07-J	56TB1-U 6	Y GYRO TORQUE -
A 298W	56P07-J*	56TB1-B 3	0 VDC IMU
A 292R	56P07-K	56TB1-U 4	Z PIP TORQUE +
A 292W	56P07-L	56TB1-T 3	Z PIP TORQUE RET
A 292L	56P07-M	56TB1-U 3	Z PIP TORQUE -
A 293R	56P07-N	56TB1-L 4	Y PIP TORQUE +
A 293W	56P07-P	56TB1-L 3	Y PIP TORQUE RET
A 293L	56P07-R	56TB1-M 4	Y PIP TORQUE -
A 294R	56P07-U	56TB1-M 5	X PIP TORQUE +
A 294W	56P07-V	56TB1-L 6	X PIP TORQUE RET
A 294L	56P07-W	56TB1-L 5	X PIP TORQUE -
A 295R	56P07-X	56TB1-M 7	X PIP ERROR HI
A 295W	56P07-Y	56TB1-M 6	X PIP ERROR LO
A 296R	56P07-Z	56TB1-M 3	Y PIP ERROR HI

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 299R	56P08-A	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 299W	56P08-B	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 315	56P08-B*	56TB3-K15	0 VDC OPTICS
A 308W	56P08-C*	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING RED
A 308L	56P08-D*	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING BLK
A 300W	56P08-E	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING RED
A 309R	56P08-E*	56TB3-N16	SCT SHAFT TACH HI
A 300R	56P08-F	56TB3-C19	+28 VDC OPTICS
A 309W	56P08-F*	56TB3-N17	SCT SHAFT TACH LO
A 300L	56P08-G	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING BLK
A 310R	56P08-G*	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
A 308R	56P08-H	56TB3-C19	+28 VDC OPTICS
A 311	56P08-H*	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
A 310W	56P08-I*	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
A 301R	56P08-J	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
A 312W	56P08-J*	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 301W	56P08-K	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
A 312R	56P08-K*	56TB3-K11	SHAFT CDU 1/2X SIN LO P1
A 313W	56P08-M*	56TB3-N13	SHAFT CDU 1/2X COS LO P2
A 302R	56P08-N	56TB3-R17	SCT TRUNNION TACH HI
A 313R	56P08-N*	56TB3-N14	SHAFT CDU 1/2X COS HI P4
A 302W	56P08-P	56TB3-R16	SCT TRUNNION TACH LO
A 303	56P08-R	56TB3-K15	0 VDC OPTICS
A 314R	56P08-R*	56TB1-T 1	400 CPS VAR ILLUM PWR
A 304W	56P08-S	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
A 314W	56P08-S*	56TB1-T 2	400 CPS 6 V LO
A 304R	56P08-T	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
A 316	56P08-T*	56TB3-F22	STRUCTURE GND
A 305	56P08-U	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
A 306R	56P08-V	56TB3-S13	SCT TRUNNION 1X SIN LO
A 306W	56P08-W	56TB3-S14	SCT TRUNNION 1X SIN HI
A 307R	56P08-X	56TB3-T14	SCT TRUNNION 1X COS HI
A 307W	56P08-Y	56TB3-T13	SCT TRUNNION 1X COS LO

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SHEET 78

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 355R	56P09- 1	56TB3-D13	SIN AIG 1X RET
A 356R	56P09- 2	56TB3-F13	COS AIG 1X RET
A 356W	56P09- 3	56TB3-F14	COS AIG 1X
A 330	56P09- 4	56TB3-R20	+28 VDC AGC
A 317R	56P09- 5	56TB3-T19	+20 VDC CONDITIONING
A 317W	56P09- 6	56TB3-S19	0 VDC CONDITIONING
A 386W	56P09- 7	56TB3-R19	+2.5 VDC CONDITIONING HI
A 318W	56P09- 8	56TB3-B19	800 CPS 28 V 1 PCT LO IMU
A 318R	56P09- 9	56TB3-B18	800 CPS 28 V 1 PCT HI IMU
A 342	56P09- 10	56TB3-F 5	GIMBAL LOCK SIGNAL
A 344	56P09- 11	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 336	56P09- 12	56TB1-H 8	ERROR DETECT LIGHT HI
A 332	56P09- 13	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 355W	56P09- 14	56TB3-D14	SIN AIG 1X
A 357R	56P09- 15	56TB3-C13	SIN AMG 1X RET
A 359R	56P09- 16	56TB2-U 7	SIN AOG 1X S2
A 359W	56P09- 17	56TB2-U 8	SIN AOG 1X S4
A 331	56P09- 18	56TB3-N19	0 VDC AGC
A 327	56P09- 19	56TB3-T21	+28 VDC IMU
A 326	56P09- 20	56TB3-N22	+28 VDC STBY
A 386R	56P09- 21	56TB3-S20	+2.5 VDC CONDITIONING LO
A 320R	56P09- 22	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 343	56P09- 23	56TB1-S 5	0 VDC IMU
A 348	56P09- 24	56E 21	0 VDC IMU
A 341	56P09- 25	56E 21	0 VDC IMU
A 340	56P09- 26	56E 21	0 VDC IMU
A 337	56P09- 27	56E 21	0 VDC IMU
A 358R	56P09- 28	56TB3-N20	COS AMG 1X S3
A 357W	56P09- 29	56TB3-C14	SIN AMG 1X
A 360R	56P09- 30	56TB2-N 8	COS AOG 1X S3
A 360W	56P09- 31	56TB2-N 7	COS AOG 1X S1
A 385	56P09- 32	56TB2-F 4	0 VDC IMU
A 349	56P09- 33	56TB1-L 2	X PIP ERROR MONITOR
A 320W	56P09- 34	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 346	56P09- 35	56TB3-B 4	ZERO ENCODER LIGHT HI
A 347	56P09- 36	56E 21	0 VDC IMU
A 339	56P09- 37	56E 21	0 VDC IMU
A 338W	56P09- 38	56TB2-R 3	OG CDU ERROR SIG RET
A 338R	56P09- 39	56TB2-N 3	OG CDU 16X ERROR SIG

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REV LTR K
SHEET 79

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 358W	56P09- 40	56TB3-N21	COS AMG 1X S1
A 361	56P09- 41	56TB1-C 8	Z GYRO ERROR SIG
A 379R	56P09- 42	56TB3-K19	IMU PRESSURE MONITOR HI
A 350	56P09- 43	56TB1-M 2	Y PIP ERROR MONITOR
A 351	56P09- 44	56TB1-T 7	Z PIP ERROR MONITOR
A 321R	56P09- 45	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
A 345	56P09- 46	56TB1-U 2	IMU DELAY LIGHT HI
A 335	56P09- 47	56TB3-B 3	CDU FAIL LIGHT HI
A 334	56P09- 48	56TB3-M 6	IMU FAIL LIGHT HI
A 333	56P09- 49	56TB3-B 5	ACCEL FAIL LIGHT HI
A 363W	56P09- 50	56TB1-A 8	IMU OG ERROR SIG
A 363K	56P09- 51	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 362	56P09- 52	56TB1-C 7	X GYRO ERROR SIG
A 379W	56P09- 53	56TB3-H19	IMU PRESSURE MONITOR LO
A 381	56P09- 54	56TB3-M19	+3 VDC AGC
A 321W	56P09- 55	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
A 322R	56P09- 56	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 322W	56P09- 57	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 323W	56P09- 58	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
A 323R	56P09- 59	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
A 363R	56P09- 60	56TB1-A 7	IMU MG ERROR SIG
A 363L	56P09- 61	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 380	56P09- 62	56TB3-L19	+13 VDC AGC
A 382	56P09- 63	56TB3-N19	0 VDC AGC
A 371L	56P09- 64	56TB3-G19	AGC TEMP MONITOR NO 1
A 328	56P09- 65	56TB3-H20	+28 VDC OPTICS
A 329	56P09- 66	56TB3-L21	0 VDC OPTICS
A 319R	56P09- 67	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 325R	56P09- 68	56TB1-H 7	25.6 KC HI OPTICS
A 324R	56P09- 69	56TB1-H 4	25.6 KC HI IMU
A 365R	56P09- 70	56TB2-H 7	MG CDU 1X ERROR SIG
A 365W	56P09- 71	56TB2-G 7	MG CDU ERROR SIG RET
A 366R	56P09- 72	56TB2-N 2	OG CDU 1X ERROR SIG
A 370	56P09- 73	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
A 371R	56P09- 74	56TB3-F19	AGC TEMP MONITOR NO 2
A 371W	56P09- 75	56TB3-D19	AGC TEMP MONITOR NO 3
A 378R	56P09- 76	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
A 378W	56P09- 77	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
A 319L	56P09- 78	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 665	56P10- 1	56TB3-B20	STRUCTURE GND
	A 461	56P10- 8	56J22-171	MAIN PANEL GIMBAL LOCK LIGHT
	A 462	56P10- 9	56TB3-F 1	0 VDC SPACECRAFT
	A 453	56P10- 10	56J09- 29	GIMBAL LOCK LIGHT CONDITION LAMP TEST
	A 454	56P10- 12	56TB3-F 5	GIMBAL LOCK SIGNAL
	A 452	56P10- 13	56TB1-S 5	0 VDC IMU
	A 455	56P10- 24	56TB2-S 8	GIMBAL LOCK LIGHT HI
	A 459R	56P10- 38	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
	A 459W	56P10- 39	56TB3-L 6	400 CPS 0.5 V PI PHASE
*	A 447	56P10- 48	56J09- 95	400 CPS 26 V HI
	A 460	56P10- 49	56TB3-B14	400 CPS 26 V LO
	A 607W	56P10- 68	56TB3-K14	400 CPS 115 V LO
	A 607R	56P10- 69	56TB3-L14	400 CPS 115 V HI
	A 663L	56P10- 81	56TB1-T 2	400 CPS 6 V LO
*	A 606W	56P10- 93	56J09- 62	400 CPS 6 V HI
	A 663R	56P10- 94	56TB1-R 2	400 CPS 6 V LO
	A 663W	56P10- 95	56TB1-S 2	400 CPS 6 V LO
*	A 606R	56P10-106	56J09- 61	400 CPS 6 V HI
*	A 606L	56P10-107	56J09- 53	400 CPS 6 V HI
*	A 606K	56P10-108	56J09- 52	400 CPS 6 V LO

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 633	56P11-A	56TB3-G21	+28 VDC AGC BUSS A	
A 634	56P11-A	56J21- 1	+28 VDC AGC BUSS A	167
A 635	56P11-A	56J21- 73	+28 VDC AGC BUSS A	167
A 609	56P11-B	56TB3-C20	+28 VDC IMU BUSS A	
A 610	56P11-B	56TB3-C20	+28 VDC IMU BUSS A	
A 611	56P11-B	56TB3-C20	+28 VDC IMU BUSS A	
A 612	56P11-C	56TB3-C21	+28 VDC IMU BUSS A	
A 613	56P11-C	56TB3-C21	+28 VDC IMU BUSS A	
A 614	56P11-C	56TB3-C21	+28 VDC IMU BUSS A	
A 649	56P11-D	56TB1-N 8	0 VDC IMU	
A 650	56P11-D	56TB1-S 6	0 VDC IMU	
A 654	56P11-E	56TB2-M 7	0 VDC IMU	
A 655	56P11-E	56TB2-V 4	0 VDC IMU	
A 651	56P11-F	56TB2-M 3	0 VDC IMU	
A 652	56P11-F	56TB2-D 4	0 VDC IMU	
A 653	56P11-F	56TB3-N 3	0 VDC IMU	
A 643	56P11-G	56TB3-D15	0 VDC OPTICS	
A 644	56P11-G	56TB3-K20	0 VDC OPTICS	
A 645	56P11-G	56TB3-L21	0 VDC OPTICS	
A 625	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A	
A 626	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A	
A 627	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A	
A 639	56P11-J	56J21- 2	0 VDC AGC	169
A 640	56P11-J	56J21- 74	0 VDC AGC	169
A 608W	56P11-K	56TB3-K14	400 CPS 115 V LO	
A 631	56P11-L	56TB3-F21	STRUCTURE GND	
A 623	56P11-M	56TB3-D22	+28 VDC STBY BUSS A	
A 624	56P11-M	56TB3-D22	+28 VDC STBY BUSS A	
A 608R	56P11-N	56TB3-L14	400 CPS 115 V HI	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 319W	56P09- 79	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 325W	56P09- 80	56TB1-G 7	25.6 KC LO OPTICS
A 324W	56P09- 81	56TB1-G 4	25.6 KC LO IMU
A 364W	56P09- 82	56TB2-G 2	IG CDU ERROR SIG RET
A 366W	56P09- 83	56TB2-R 2	OG CDU ERROR SIG RET
A 384	56P09- 84	56TB3-D 6	TEMPERATURE CONTROL SIG LO
A 368	56P09- 85	56TB3-C 5	IRIG TEMP (TELEMETRY)
A 383R	56P09- 86	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
A 372R	56P09- 87	56TB3-D 9	SHAFT CDU MDA (TEST) HI
A 372W	56P09- 88	56TB3-D10	SHAFT CDU MDA (TEST) LO
A 374R	56P09- 89	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
A 375R	56P09- 90	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
A 376R	56P09- 91	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
A 376W	56P09- 92	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
A 352R	56P09- 93	56TB1-D 4	IG TORQUE MOTOR RET
A 354R	56P09- 94	56TB1-B 2	OG TORQUE MOTOR RET
A 354W	56P09- 95	56TB1-A 2	OG TORQUE MOTOR HI
A 364R	56P09- 96	56TB2-H 2	IG CDU 1X ERROR SIG
A 369	56P09- 97	56TB3-D 5	HTR CURRENT (TELEMETERY)
A 367	56P09- 98	56TB3-D 4	ACCEL TEMP (TELEMETRY)
A 383W	56P09- 99	56TB3-C 8	TRUNNION CDU MDA LO (TEST)
A 373R	56P09-100	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
A 373W	56P09-101	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)
A 374W	56P09-102	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
A 375W	56P09-103	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
A 377R	56P09-104	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
A 377W	56P09-105	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
A 352W	56P09-106	56TB1-D 3	IG TORQUE MOTOR HI
A 353R	56P09-107	56TB1-A 3	MG TORQUE MOTOR RET
A 353W	56P09-108	56TB1-A 4	MG TORQUE MOTOR HI

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CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 636	56P12-A	56TB3-G22	+28 VDC AGC BUSS B	
A 637	56P12-A	56J21-139	+28 VDC AGC BUSS B	168
A 638	56P12-A	56J21-207	+28 VDC AGC BUSS B	168
A 615	56P12-B	56TB3-D20	+28 VDC IMU BUSS B	
A 616	56P12-B	56TB3-D20	+28 VDC IMU BUSS B	
A 617	56P12-B	56TB3-D20	+28 VDC IMU BUSS B	
A 618	56P12-C	56TB3-D21	+28 VDC IMU BUSS B	
A 619	56P12-C	56TB3-D21	+28 VDC IMU BUSS B	
A 620	56P12-C	56TB3-D21	+28 VDC IMU BUSS B	
A 656	56P12-D	56TB1-N 4	0 VDC IMU	
A 657	56P12-D	56TB3-S 3	0 VDC IMU	
A 658	56P12-E	56TB3-T 3	0 VDC IMU	
A 659	56P12-E	56TB1-S 3	0 VDC IMU	
A 660	56P12-F	56TB2-M 1	0 VDC IMU	
A 661	56P12-F	56TB2-L 4	0 VDC IMU	
A 662	56P12-F	56TB1-D 7	0 VDC IMU	
A 646	56P12-G	56TB3-C15	0 VDC OPTICS	
A 647	56P12-G	56TB3-K22	0 VDC OPTICS	
A 648	56P12-G	56TB3-L20	0 VDC OPTICS	
A 628	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B	
A 629	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B	
A 630	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B	
A 641	56P12-J	56J21-140	0 VDC AGC	170
A 642	56P12-J	56J21-208	0 VDC AGC	170
A 632	56P12-L	56TB3-F22	STRUCTURE GND	
A 621	56P12-M	56TB3-C22	+28 VDC STBY BUSS B	
A 622	56P12-M	56TB3-C22	+28 VDC STBY BUSS B	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 29K	56TB1-B 7	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO
*	AA155K	56TB1-B 7	56J15-B2	IMU GIMBAL AND GYRO ERROR SIG LO
*	A 231L	56TB1-B 8	56P03-U	IMU IG AND Y GYRO ERROR SIG
*	A 363L	56TB1-B 8	56P09- 61	IMU IG AND Y GYRO ERROR SIG
*	AA 29W	56TB1-B 8	56J11-B6	IMU IG AND Y GYRO ERROR SIG
*	AA155R	56TB1-B 8	56J15-A2	IMU IG AND Y GYRO ERROR SIG
*	A 223W	56TB1-C 2	56P02-S	3200 CPS 2 V LO
*	AA 28K	56TB1-C 2	56J11-L2	3200 CPS 2 V LO
*	AA 28L	56TB1-C 2	56J11-M2	3200 CPS 2 V LO
*	A 298R	56TB1-C 3	56P07-F*	OG ADA
*	AA 23K	56TB1-C 3	56J11-G1	OG ADA
*	A 298K	56TB1-C 4	56P07-H*	IG ADA
*	AA 23R	56TB1-C 4	56J11-F1	IG ADA
*	A 234W	56TB1-C 5	56P03-H	IG CDU ATTITUDE STEERING ERROR
*	AA 16R	56TB1-C 5	56J11-C1	IG CDU ATTITUDE STEERING ERROR
*	A 224R	56TB1-C 6	56P02-T	3200 CPS 2 V FEEDBACK HI
*	A 323R	56TB1-C 6	56P09- 59	3200 CPS 2 V FEEDBACK HI
*	AA 42W	56TB1-C 6	56J11-F3	3200 CPS 2 V FEEDBACK HI
*	A 229W	56TB1-C 7	56P03-A	X GYRO ERROR SIG
*	A 362	56TB1-C 7	56P09- 52	X GYRO ERROR SIG
*	AA155L	56TB1-C 7	56J15-B1	X GYRO ERROR SIG
*	A 230W	56TB1-C 8	56P03-B	Z GYRO ERROR SIG
*	A 361	56TB1-C 8	56P09- 41	Z GYRO ERROR SIG
*	AA155W	56TB1-C 8	56J15-A1	Z GYRO ERROR SIG
*	A 223R	56TB1-D 2	56P02-R	3200 CPS 2 V HI
*	AA 28R	56TB1-D 2	56J11-M1	3200 CPS 2 V HI
*	AA 28W	56TB1-D 2	56J11-L1	3200 CPS 2 V HI
*	A 241R	56TB1-D 3	56P03-D*	IG TORQUE MOTOR HI
*	A 242W	56TB1-D 3	56P03-G*	IG TORQUE MOTOR HI
*	A 352W	56TB1-D 3	56P09-106	IG TORQUE MOTOR HI
*	AA 30R	56TB1-D 3	56J11-D6	IG TORQUE MOTOR HI
*	A 241W	56TB1-D 4	56P03-E*	IG TORQUE MOTOR RET
*	A 242R	56TB1-D 4	56P03-F*	IG TORQUE MOTOR RET
*	A 352R	56TB1-D 4	56P09- 93	IG TORQUE MOTOR RET
*	AA 30W	56TB1-D 4	56J11-D5	IG TORQUE MOTOR RET
*	A 272	56TB1-D 5	56P06-F	-28 VDC
*	AA 27	56TB1-D 5	56J11-N6	-28 VDC
*	A 26	56TB1-D 6	56P01- 4	COARSE ALIGN RELAY CONTROL
*	AA 35	56TB1-D 6	56J11-L3	COARSE ALIGN RELAY CONTROL

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 224B	56TB1-D 7	SHLD A 224	0 VDC IMU	
	A 229B	56TB1-D 7	SHLD A 229	0 VDC IMU	
	AA572	56TB1-D 7	56TB1-D 8	0 VDC IMU	
	AA590	56TB1-D 7	56TB2-V 2	0 VDC IMU	
*	A 662	56TB1-D 7	56P12-F	0 VDC IMU	
	A 230B	56TB1-D 8	SHLD A 230	0 VDC IMU	
	AA587	56TB1-D 8	56TB1-N 8	0 VDC IMU	
*	AA572	56TB1-D 8	56TB1-D 7	0 VDC IMU	
*	A 466	56TB1-F 1	56J10- 7	SPARE FAIL LIGHT HI	305
*	A 565	56TB1-F 1	56J08- 50	SPARE FAIL LIGHT HI	
*	A 158	56TB1-F 8	56J06- 81	ATTIT CONT MODE COMMAND FROM AGC	
*	A 475	56TB1-F 8	56J10- 12	ATTIT CONT MODE COMMAND FROM AGC	314
*	A 179	56TB1-G 1	56J08- 67	+28 VDC MDV	
*	A 410	56TB1-G 1	56J09- 67	+28 VDC MDV	
*	A 271L	56TB1-G 2	56P06-C	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 319R	56TB1-G 2	56P09- 67	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	AA 60W	56TB1-G 2	56J12-P2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 324W	56TB1-G 4	56P09- 81	25.6 KC LO IMU	
*	A 564R	56TB1-G 4	56E 3	25.6 KC LO IMU	
*	AA 64R	56TB1-G 4	56J12-P5	25.6 KC LO IMU	
*	A 508	56TB1-G 5	56J10- 10	+28 VDC TO COMPUTER RELAY	327
*	AA 79	56TB1-G 5	56J12-M4	+28 VDC TO COMPUTER RELAY	
*	A 325W	56TB1-G 7	56P09- 80	25.6 KC LO OPTICS	
*	A 560W	56TB1-G 7	56E 16	25.6 KC LO OPTICS	
*	AA 63R	56TB1-G 7	56J12-N6	25.6 KC LO OPTICS	
*	A 271W	56TB1-H 2	56P06-B	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 319L	56TB1-H 2	56P09- 78	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	AA 60R	56TB1-H 2	56J12-R1	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 271R	56TB1-H 3	56P06-A	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 319W	56TB1-H 3	56P09- 79	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 60L	56TB1-H 3	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 324R	56TB1-H 4	56P09- 69	25.6 KC HI IMU	
*	A 564W	56TB1-H 4	56E 4	25.6 KC HI IMU	
*	AA 64W	56TB1-H 4	56J12-N4	25.6 KC HI IMU	
*	A 478	56TB1-H 5	56J10- 9	AGC FAIL SIG	326
*	AA 78	56TB1-H 5	56J12-M3	AGC FAIL SIG	
*	A 198	56TB1-H 6	56J08- 71	AGC POWER SUPPLY FAIL SIG HI	
*	A 332	56TB1-H 6	56P09- 13	AGC POWER SUPPLY FAIL SIG HI	
*	AA 80	56TB1-H 6	56J12-M1	AGC POWER SUPPLY FAIL SIG HI	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 238W	56TB1-A 2	56P03-Y	OG TORQUE MOTOR HI
*	A 273R	56TB1-A 2	56P06-H	OG TORQUE MOTOR HI
*	A 354W	56TB1-A 2	56P09- 95	OG TORQUE MOTOR HI
*	AA 34R	56TB1-A 2	56J11-H6	OG TORQUE MOTOR HI
*	A 239W	56TB1-A 3	56P03-A*	MG TORQUE MOTOR RET
*	A 240R	56TB1-A 3	56P03-B*	MG TORQUE MOTOR RET
*	A 353R	56TB1-A 3	56P09-107	MG TORQUE MOTOR RET
*	AA 32W	56TB1-A 3	56J11-G6	MG TORQUE MOTOR RET
*	A 239R	56TB1-A 4	56P03-Z	MG TORQUE MOTOR HI
*	A 240W	56TB1-A 4	56P03-C*	MG TORQUE MOTOR HI
*	A 353W	56TB1-A 4	56P09-108	MG TORQUE MOTOR HI
*	AA 32R	56TB1-A 4	56J11-F6	MG TORQUE MOTOR HI
*	A 235W	56TB1-A 5	56P03-L	MG CDU ATTITUDE STEERING ERROR
*	AA 20R	56TB1-A 5	56J11-C2	MG CDU ATTITUDE STEERING ERROR
	A 235B	56TB1-A 6	SHLD A 235	MG CDU ERROR SIG RET
*	A 235R	56TB1-A 6	56P03-K	MG CDU ERROR SIG RET
*	AA 20W	56TB1-A 6	56J11-B2	MG CDU ERROR SIG RET
*	A 231K	56TB1-A 7	56P03-W	IMU MG ERROR SIG
*	A 363R	56TB1-A 7	56P09- 60	IMU MG ERROR SIG
*	AA 29R	56TB1-A 7	56J11-A5	IMU MG ERROR SIG
*	A 231R	56TB1-A 8	56P03-C	IMU OG ERROR SIG
*	A 363W	56TB1-A 8	56P09- 50	IMU OG ERROR SIG
*	AA 29L	56TB1-A 8	56J11-A6	IMU OG ERROR SIG
*	A 238R	56TB1-B 2	56P03-X	OG TORQUE MOTOR RET
*	A 273W	56TB1-B 2	56P06-J	OG TORQUE MOTOR RET
*	A 354R	56TB1-B 2	56P09- 94	OG TORQUE MOTOR RET
*	AA 34W	56TB1-B 2	56J11-H5	OG TORQUE MOTOR RET
*	A 298W	56TB1-B 3	56P07-J*	0 VDC IMU
*	AA 23W	56TB1-B 3	56J11-G2	0 VDC IMU
*	A 298L	56TB1-B 4	56P07-G*	MG ADA
*	AA 23L	56TB1-B 4	56J11-H1	MG ADA
	A 234B	56TB1-B 5	SHLD A 234	IG CDU ERROR SIG RET
*	A 234R	56TB1-B 5	56P03-J	IG CDU ERROR SIG RET
*	AA 16W	56TB1-B 5	56J11-B1	IG CDU ERROR SIG RET
*	A 224W	56TB1-B 6	56P02-U	3200 CPS 2 V FEEDBACK LO
*	A 323W	56TB1-B 6	56P09- 58	3200 CPS 2 V FEEDBACK LO
*	AA 42R	56TB1-B 6	56J11-G3	3200 CPS 2 V FEEDBACK LO
*	A 231W	56TB1-B 7	56P03-V	IMU GIMBAL AND GYRO ERROR SIG LO
*	A 363K	56TB1-B 7	56P09- 51	IMU GIMBAL AND GYRO ERROR SIG LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 325R	56TB1-H 7	56P09- 68	25.6 KC HI OPTICS	
*	A 560R	56TB1-H 7	56E 17	25.6 KC HI OPTICS	
*	AA 63W	56TB1-H 7	56J12-P6	25.6 KC HI OPTICS	
*	A 187	56TB1-H 8	56J08- 51	ERROR DETECT LIGHT HI	
*	A 336	56TB1-H 8	56P09- 12	ERROR DETECT LIGHT HI	
*	AA 83	56TB1-H 8	56J12-L2	ERROR DETECT LIGHT HI	
*	A 18	56TB1-K 1	56P01- 91	MODE LAMP TEST PWR	
*	A 605W	56TB1-K 1	56J09- 84	MODE LAMP TEST PWR	
*	A 4	56TB1-K 3	56P01- 48	COARSE ALIGN MODE COMMAND FROM AGC	
*	A 479L	56TB1-K 3	56J10- 22	COARSE ALIGN MODE COMMAND FROM AGC	308
*	A 3	56TB1-K 4	56P01- 38	ZERO ENCODER MODE COMMAND FROM AGC	
*	A 479W	56TB1-K 4	56J10- 21	ZERO ENCODER MODE COMMAND FROM AGC	307
*	A 5	56TB1-K 5	56P01- 13	FINE ALIGN MODE COMMAND FROM AGC	
*	A 479R	56TB1-K 5	56J10- 24	FINE ALIGN MODE COMMAND FROM AGC	310
*	A 7	56TB1-K 6	56P01- 58	ENTRY MODE COMMAND FROM AGC	
*	A 480R	56TB1-K 6	56J10- 25	ENTRY MODE COMMAND FROM AGC	311
*	A 154	56TB1-K 7	56J06- 12	MODE RELAY COMMON TO AGC	
*	A 480W	56TB1-K 7	56J10- 26	MODE RELAY COMMON TO AGC	312
*	A 521	56TB1-K 7	56J10- 13	MODE RELAY COMMON TO AGC	315
*	A 6	56TB1-K 8	56P01- 27	CDU MANUAL MODE COMMAND FROM AGC	
*	A 480L	56TB1-K 8	56J10- 23	CDU MANUAL MODE COMMAND FROM AGC	309
*	A 349	56TB1-L 2	56P09- 33	X PIP ERROR MONITOR	
*	AA120	56TB1-L 2	56J13-D2	X PIP ERROR MONITOR	
*	A 293W	56TB1-L 3	56P07-P	Y PIP TORQUE RET	
*	AA122W	56TB1-L 3	56J13-M3	Y PIP TORQUE RET	
*	A 293R	56TB1-L 4	56P07-N	Y PIP TORQUE +	
*	AA122R	56TB1-L 4	56J13-L3	Y PIP TORQUE +	
*	A 294L	56TB1-L 5	56P07-W	X PIP TORQUE -	
*	AA119L	56TB1-L 5	56J13-L1	X PIP TORQUE -	
*	A 294W	56TB1-L 6	56P07-V	X PIP TORQUE RET	
*	AA119W	56TB1-L 6	56J13-K1	X PIP TORQUE RET	
*	A 290L	56TB1-L 7	56P07-F	X GYRO TORQUE -	
*	AA124L	56TB1-L 7	56J13-G6	X GYRO TORQUE -	
*	A 290W	56TB1-L 8	56P07-E	X GYRO TORQUE RET	
*	AA124W	56TB1-L 8	56J13-F6	X GYRO TORQUE RET	
*	A 602K	56TB1-M 1	56P01- 90	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
*	A 605K	56TB1-M 1	56J09- 63	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
*	A 350	56TB1-M 2	56P09- 43	Y PIP ERROR MONITOR	
*	AA123	56TB1-M 2	56J13-F2	Y PIP ERROR MONITOR	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 603K	56TB1-R 2	56J08- 19	400 CPS 6 V LO
*	A 603W	56TB1-R 2	56J08- 36	400 CPS 6 V LO
*	A 663R	56TB1-R 2	56P10- 94	400 CPS 6 V LO
*	A 603L	56TB1-R 3	56J08- 46	PROJECTION LAMP LO INTENSITY
*	A 604W	56TB1-R 3	56J09- 46	PROJECTION LAMP LO INTENSITY
	AA612	56TB1-S 1	56TB1-T 1	400 CPS VAR ILLUM PWR
*	A 153R	56TB1-S 1	56J06-108	400 CPS VAR ILLUM PWR
*	A 561R	56TB1-S 1	56E 9	400 CPS VAR ILLUM PWR
*	AA611	56TB1-S 1	56TB1-R 1	400 CPS VAR ILLUM PWR
	AA511	56TB1-S 2	56TB1-T 2	400 CPS 6 V LO
*	A 153W	56TB1-S 2	56J06-107	400 CPS 6 V LO
*	A 561W	56TB1-S 2	56E 10	400 CPS 6 V LO
*	A 663W	56TB1-S 2	56P10- 95	400 CPS 6 V LO
*	AA512	56TB1-S 2	56TB1-R 2	400 CPS 6 V LO
	A 292B	56TB1-S 3	SHLD A 292	0 VDC IMU
	AA591	56TB1-S 3	56TB2-M 4	0 VDC IMU
	AA632	56TB1-S 3	56TB1-S 4	0 VDC IMU
*	A 659	56TB1-S 3	56P12-E	0 VDC IMU
*	AA 46	56TB1-S 3	56J11-P6	0 VDC IMU
	AA127B	56TB1-S 4	SHLD AA127	0 VDC IMU
	AA633	56TB1-S 4	56TB1-S 5	0 VDC IMU
*	AA632	56TB1-S 4	56TB1-S 3	0 VDC IMU
	AA133B	56TB1-S 5	SHLD AA133	0 VDC IMU
	AA634	56TB1-S 5	56TB1-S 6	0 VDC IMU
*	A 211	56TB1-S 5	56J08- 92	0 VDC IMU
*	A 343	56TB1-S 5	56P09- 23	0 VDC IMU
*	A 452	56TB1-S 5	56P10- 13	0 VDC IMU
*	AA633	56TB1-S 5	56TB1-S 4	0 VDC IMU
	A 291B	56TB1-S 6	SHLD A 291	0 VDC IMU
*	A 650	56TB1-S 6	56P11-D	0 VDC IMU
*	AA 98	56TB1-S 6	56J12-R5	0 VDC IMU
*	AA601	56TB1-S 6	56TB1-S 7	0 VDC IMU
*	AA634	56TB1-S 6	56TB1-S 5	0 VDC IMU
	AA601	56TB1-S 7	56TB1-S 6	0 VDC IMU
	AA602	56TB1-S 7	56TB2-D 8	0 VDC IMU
*	A 556	56TB1-S 7	56E 19	0 VDC IMU
*	AA600	56TB1-S 7	56TB1-S 8	0 VDC IMU
	A 289B	56TB1-S 8	SHLD A 289	0 VDC IMU
	AA136B	56TB1-S 8	SHLD AA136	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA600	56TB1-S 8	56TB1-S 7	0 VDC IMU
*	AA588	56TB1-S 8	56TB1-N 4	0 VDC IMU
*	A 266R	56TB1-T 1	56P05-L	400 CPS VAR ILLUM PWR
*	A 314R	56TB1-T 1	56P08-R*	400 CPS VAR ILLUM PWR
*	A 602W	56TB1-T 1	56P01-108	400 CPS VAR ILLUM PWR
*	AA612	56TB1-T 1	56TB1-S 1	400 CPS VAR ILLUM PWR
*	A 266W	56TB1-T 2	56P05-M	400 CPS 6 V LO
*	A 314W	56TB1-T 2	56P08-S*	400 CPS 6 V LO
*	A 663L	56TB1-T 2	56P10- 81	400 CPS 6 V LO
*	AA511	56TB1-T 2	56TB1-S 2	400 CPS 6 V LO
*	A 292W	56TB1-T 3	56P07-L	Z PIP TORQUE RET
*	AA127W	56TB1-T 3	56J14-P3	Z PIP TORQUE RET
*	A 297W	56TB1-T 4	56P07-C*	Z PIP ERROR LO
*	AA126R	56TB1-T 4	56J14-A2	Z PIP ERROR LO
*	A 297R	56TB1-T 5	56P07-B*	Z PIP ERROR HI
*	AA126W	56TB1-T 5	56J14-A1	Z PIP ERROR HI
*	A 291R	56TB1-T 6	56P07-G	Y GYRO TORQUE +
*	AA133R	56TB1-T 6	56J14-M1	Y GYRO TORQUE +
*	A 351	56TB1-T 7	56P09- 44	Z PIP ERROR MONITOR
*	AA128	56TB1-T 7	56J14-H6	Z PIP ERROR MONITOR
*	A 289R	56TB1-T 8	56P07-A	Z GYRO TORQUE +
*	AA136R	56TB1-T 8	56J14-L6	Z GYRO TORQUE +
*	A 22	56TB1-U 2	56P01- 26	IMU DELAY LIGHT HI
*	A 193	56TB1-U 2	56J08- 42	IMU DELAY LIGHT HI
*	A 345	56TB1-U 2	56P09- 46	IMU DELAY LIGHT HI
*	A 292L	56TB1-U 3	56P07-M	Z PIP TORQUE -
*	AA127L	56TB1-U 3	56J14-P2	Z PIP TORQUE -
*	A 292R	56TB1-U 4	56P07-K	Z PIP TORQUE +
*	AA127R	56TB1-U 4	56J14-P1	Z PIP TORQUE +
*	A 291W	56TB1-U 5	56P07-H	Y GYRO TORQUE RET
*	AA133W	56TB1-U 5	56J14-M3	Y GYRO TORQUE RET
*	A 291L	56TB1-U 6	56P07-J	Y GYRO TORQUE -
*	AA133L	56TB1-U 6	56J14-M2	Y GYRO TORQUE -
*	A 289W	56TB1-U 7	56P07-B	Z GYRO TORQUE RET
*	AA136W	56TB1-U 7	56J14-N6	Z GYRO TORQUE RET
*	A 289L	56TB1-U 8	56P07-C	Z GYRO TORQUE -
*	AA136L	56TB1-U 8	56J14-M6	Z GYRO TORQUE -

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 296R	56TB1-M 3	56P07-Z	Y PIP ERROR HI
*	AA121W	56TB1-M 3	56J13-A3	Y PIP ERROR HI
*	A 293L	56TB1-M 4	56P07-R	Y PIP TORQUE -
*	AA122L	56TB1-M 4	56J13-N3	Y PIP TORQUE -
*	A 294R	56TB1-M 5	56P07-U	X PIP TORQUE +
*	AA119R	56TB1-M 5	56J13-H1	X PIP TORQUE +
*	A 295W	56TB1-M 6	56P07-Y	X PIP ERROR LO
*	AA118R	56TB1-M 6	56J13-B1	X PIP ERROR LO
*	A 295R	56TB1-M 7	56P07-X	X PIP ERROR HI
*	AA118W	56TB1-M 7	56J13-A1	X PIP ERROR HI
*	A 290R	56TB1-M 8	56P07-D	X GYRO TORQUE +
*	AA124R	56TB1-M 8	56J13-D6	X GYRO TORQUE +
*	A 602L	56TB1-N 1	56P01-106	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
*	A 605L	56TB1-N 1	56J09- 64	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
*	A 296W	56TB1-N 2	56P07-A*	Y PIP ERROR LO
*	AA121R	56TB1-N 2	56J13-B3	Y PIP ERROR LO
*	A 603R	56TB1-N 3	56J08- 55	PROJECTION LAMP HI INTENSITY
*	A 604R	56TB1-N 3	56J09- 55	PROJECTION LAMP HI INTENSITY
	A 293B	56TB1-N 4	SHLD A 293	0 VDC IMU
	A 587	56TB1-N 4	56TB1-N 5	0 VDC IMU
	AA122B	56TB1-N 4	SHLD AA122	0 VDC IMU
	AA588	56TB1-N 4	56TB1-S 8	0 VDC IMU
	AA589	56TB1-N 4	56TB2-M 5	0 VDC IMU
*	A 656	56TB1-N 4	56P12-D	0 VDC IMU
	A 294B	56TB1-N 5	SHLD A 294	0 VDC IMU
	A 588	56TB1-N 5	56TB1-N 8	0 VDC IMU
	AA119B	56TB1-N 5	SHLD AA119	0 VDC IMU
*	A 587	56TB1-N 5	56TB1-N 4	0 VDC IMU
*	AA 99	56TB1-N 5	56J12-R2	0 VDC IMU
	A 290B	56TB1-N 8	SHLD A 290	0 VDC IMU
	AA124B	56TB1-N 8	SHLD AA124	0 VDC IMU
*	A 588	56TB1-N 8	56TB1-N 5	0 VDC IMU
*	A 649	56TB1-N 8	56P11-D	0 VDC IMU
*	AA100	56TB1-N 8	56J12-R4	0 VDC IMU
*	AA587	56TB1-N 8	56TB1-D 8	0 VDC IMU
	AA611	56TB1-R 1	56TB1-S 1	400 CPS VAR ILLUM PWR
*	A 602R	56TB1-R 1	56P01-103	400 CPS VAR ILLUM PWR
*	A 605R	56TB1-R 1	56J09- 54	400 CPS VAR ILLUM PWR
	AA512	56TB1-R 2	56TB1-S 2	400 CPS 6 V LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 1W	56TB2-A 1	56P01- 95	PANEL BRIGHTNESS CONTROL
*	A 431W	56TB2-A 1	56J09- 44	PANEL BRIGHTNESS CONTROL
*	A 1R	56TB2-A 2	56P01- 80	PANEL BRIGHTNESS CONTROL
*	A 431R	56TB2-A 2	56J09- 32	PANEL BRIGHTNESS CONTROL
	A 92B	56TB2-A 4	SHLD A 92	OG CDU ENCODER COM
*	A 92R	56TB2-A 4	56J03- 94	OG CDU ENCODER COM
*	AA163R	56TB2-A 4	56J15-D3	OG CDU ENCODER COM
	A 45B	56TB2-A 5	SHLD A 45	IG CDU ENCODER COM
*	A 45R	56TB2-A 5	56J01- 94	IG CDU ENCODER COM
*	AA161R	56TB2-A 5	56J15-C1	IG CDU ENCODER COM
*	A 69L	56TB2-A 6	56J02-108	MG CDU ENCODER PHASE 2
*	AA162R	56TB2-A 6	56J15-D2	MG CDU ENCODER PHASE 2
*	A 220R	56TB2-A 7	56P02-J	SIN AMG 16X S2
*	AA172W	56TB2-A 7	56J15-F8	SIN AMG 16X S2
*	A 226R	56TB2-A 8	56P02-Y	SIN AIG 16X S2
*	AA171W	56TB2-A 8	56J15-D8	SIN AIG 16X S2
*	A 11	56TB2-B 1	56P01- 69	LOCK CDU RELAY CONTROL
*	AA174	56TB2-B 1	56J15-S3	LOCK CDU RELAY CONTROL
*	A 8	56TB2-B 2	56P01- 12	ZERO ENCODER RELAY CONTROL
*	AA173	56TB2-B 2	56J15-S1	ZERO ENCODER RELAY CONTROL
*	A 92W	56TB2-B 4	56J03-107	OG CDU ENCODER PHASE 1
*	AA163W	56TB2-B 4	56J15-D4	OG CDU ENCODER PHASE 1
*	A 45W	56TB2-B 5	56J01-107	IG CDU ENCODER PHASE 1
*	AA161W	56TB2-B 5	56J15-C2	IG CDU ENCODER PHASE 1
*	A 69W	56TB2-B 6	56J02-107	MG CDU ENCODER PHASE 1
*	AA162W	56TB2-B 6	56J15-F1	MG CDU ENCODER PHASE 1
*	A 68R	56TB2-B 7	56J02-101	SIN AMG 16X S4
*	A 220W	56TB2-B 7	56P02-K	SIN AMG 16X S4
*	AA172R	56TB2-B 7	56J15-F9	SIN AMG 16X S4
*	A 44R	56TB2-B 8	56J01-101	SIN AIG 16X S4
*	A 226W	56TB2-B 8	56P02-Z	SIN AIG 16X S4
*	AA171R	56TB2-B 8	56J15-D7	SIN AIG 16X S4
*	A 10	56TB2-C 1	56P01- 5	FINE ALIGN RELAY CONTROL
*	AA170	56TB2-C 1	56J15-H4	FINE ALIGN RELAY CONTROL
*	A 30	56TB2-C 2	56P01- 37	BACKUP MODE RELAY CONTROL
*	A 159	56TB2-C 2	56J06- 37	BACKUP MODE RELAY CONTROL
*	AA156	56TB2-C 2	56J15-R1	BACKUP MODE RELAY CONTROL
*	A 92L	56TB2-C 4	56J03-108	OG CDU ENCODER PHASE 2
*	AA163L	56TB2-C 4	56J15-C3	OG CDU ENCODER PHASE 2

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REV LTR K
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INCHES
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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 226B	56TB2-D 8	SHLD A 226	0 VDC IMU
*	AA577	56TB2-D 8	56TB2-D 7	0 VDC IMU
*	AA602	56TB2-D 8	56TB1-S 7	0 VDC IMU
	A 24B	56TB2-F 2	SHLD A 24	IG CDU ERROR SIG RET
	A 39B	56TB2-F 2	SHLD A 39	IG CDU ERROR SIG RET
	A 364B	56TB2-F 2	SHLD A 364	IG CDU ERROR SIG RET
	AA580	56TB2-F 2	56TB2-G 2	IG CDU ERROR SIG RET
	AA569R	56TB2-F 3	56E 60	
*	A 13R	56TB2-F 3	56E 61	
*	A 155R	56TB2-F 3	56E 55	
*	AA176R	56TB2-F 3	56E 59	
*	AA487R	56TB2-F 3	56J21-122	
*	A 385	56TB2-F 4	56P09- 32	0 VDC IMU
*	AA637	56TB2-F 4	56J15-R2	0 VDC IMU
	A 25B	56TB2-F 7	SHLD A 25	MG CDU ERROR SIG RET
	A 63B	56TB2-F 7	SHLD A 63	MG CDU ERROR SIG RET
	A 365B	56TB2-F 7	SHLD A 365	MG CDU ERROR SIG RET
	AA579	56TB2-F 7	56TB2-G 7	MG CDU ERROR SIG RET
	A 42B	56TB2-G 1	SHLD A 42	IG CDU ERROR SIG RET
*	A 42W	56TB2-G 1	56J01- 90	IG CDU ERROR SIG RET
*	AA196R	56TB2-G 1	56J16-D2	IG CDU ERROR SIG RET
*	A 24W	56TB2-G 2	56P01- 71	IG CDU ERROR SIG RET
*	A 39W	56TB2-G 2	56J01- 45	IG CDU ERROR SIG RET
*	A 364W	56TB2-G 2	56P09- 82	IG CDU ERROR SIG RET
*	AA 15R	56TB2-G 2	56J11-B1	IG CDU ERROR SIG RET
*	AA195R	56TB2-G 2	56J16-D2	IG CDU ERROR SIG RET
*	AA580	56TB2-G 2	56TB2-F 2	IG CDU ERROR SIG RET
*	A 38W	56TB2-G 3	56J01- 57	IG CDU ERROR SIG RET S1
*	AA194R	56TB2-G 3	56J16-D2	IG CDU ERROR SIG RET
*	A 19R	56TB2-G 4	56P01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 216R	56TB2-G 4	56P02-A	800 CPS 28 V 1 PCT HI IMU
*	A 577R	56TB2-G 4	56E 1	800 CPS 28 V 1 PCT HI IMU
*	AA222R	56TB2-G 4	56J16-S4	800 CPS 28 V 1 PCT HI IMU
*	AA409W	56TB2-G 4	56J20-F5	800 CPS 28 V 1 PCT HI IMU
*	A 216W	56TB2-G 5	56P02-B	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	AA222W	56TB2-G 5	56J16-P4	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	A 62W	56TB2-G 6	56J02- 57	MG CDU ERROR SIG RET
*	AA199R	56TB2-G 6	56J16-D4	MG CDU ERROR SIG RET
*	A 25W	56TB2-G 7	56P01- 83	MG CDU ERROR SIG RET

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SCALE - NONE	REV LTR K		SHEET 94

MIL 2084-4-64

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 63W	56TB2-G 7	56J02- 45	MG CDU ERROR SIG RET
*	A 365W	56TB2-G 7	56P09- 71	MG CDU ERROR SIG RET
*	AA 19R	56TB2-G 7	56J11-B2	MG CDU ERROR SIG RET
*	AA200R	56TB2-G 7	56J16-D4	MG CDU ERROR SIG RET
*	AA579	56TB2-G 7	56TB2-F 7	MG CDU ERROR SIG RET
	A 66B	56TB2-G 8	SHLD A 66	MG CDU ERROR SIG RET
*	A 66W	56TB2-G 8	56J02- 90	MG CDU ERROR SIG RET
*	AA201R	56TB2-G 8	56J16-D4	MG CDU ERROR SIG RET
*	A 42R	56TB2-H 1	56J01-104	IG CDU 16X ERROR SIG
*	AA196W	56TB2-H 1	56J16-C1	IG CDU 16X ERROR SIG
*	A 24R	56TB2-H 2	56P01- 70	IG CDU 1X ERROR SIG
*	A 39R	56TB2-H 2	56J01- 35	IG CDU 1X ERROR SIG S2
*	A 364R	56TB2-H 2	56P09- 96	IG CDU 1X ERROR SIG
*	AA 15W	56TB2-H 2	56J11-A1	IG CDU 1X ERROR SIG
*	AA195W	56TB2-H 2	56J16-C2	IG CDU 1X ERROR SIG
*	A 38R	56TB2-H 3	56J01- 67	IG CDU 1/2X ERROR SIG S3
*	AA194W	56TB2-H 3	56J16-D1	IG CDU 1/2X ERROR SIG
*	A 19W	56TB2-H 4	56P01- 10	800 CPS 28 V 1 PCT LO IMU
*	A 577W	56TB2-H 4	56E 2	800 CPS 28 V 1 PCT LO IMU
*	AA222L	56TB2-H 4	56J16-S3	800 CPS 28 V 1 PCT LO IMU
*	AA409R	56TB2-H 4	56J20-F6	800 CPS 28 V 1 PCT LO IMU
*	A 577L	56TB2-H 5	56E 5	ZEROING RSVR 800 CPS
*	AA222K	56TB2-H 5	56J16-R4	ZEROING RSVR 800 CPS
*	A 62R	56TB2-H 6	56J02- 67	MG CDU 1/2X ERROR SIG
*	AA199W	56TB2-H 6	56J16-D3	MG CDU 1/2X ERROR SIG
*	A 25R	56TB2-H 7	56P01- 82	MG CDU 1X ERROR SIG
*	A 63R	56TB2-H 7	56J02- 35	MG CDU 1X ERROR SIG
*	A 365R	56TB2-H 7	56P09- 70	MG CDU 1X ERROR SIG
*	AA 19W	56TB2-H 7	56J11-A2	MG CDU 1X ERROR SIG
*	AA200W	56TB2-H 7	56J16-C4	MG CDU 1X ERROR SIG
*	A 66R	56TB2-H 8	56J02-104	MG CDU 16X ERROR SIG
*	AA201W	56TB2-H 8	56J16-C3	MG CDU 16X ERROR SIG
*	A 321R	56TB2-K 1	56P09- 45	800 CPS 28 V 1 PCT HI OPTICS
*	A 416R	56TB2-K 1	56J09- 80	800 CPS 28 V 1 PCT HI OPTICS
*	A 558R	56TB2-K 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
*	AA224W	56TB2-K 1	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS
*	AA557	56TB2-K 1	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
	AA557	56TB2-K 2	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 265R	56TB2-K 2	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 45L	56TB2-C 5	56J01-108	IG CDU ENCODER PHASE 2
*	AA161L	56TB2-C 5	56J15-D1	IG CDU ENCODER PHASE 2
	A 69B	56TB2-C 6	SHLD A 69	MG CDU ENCODER COM
*	A 69R	56TB2-C 6	56J02- 94	MG CDU ENCODER COM
*	AA162L	56TB2-C 6	56J15-F2	MG CDU ENCODER COM
*	A 68W	56TB2-C 7	56J02- 87	SIN AMG 16X TO CDU
*	AA172L	56TB2-C 7	56J15-D9	SIN AMG 16X TO CDU
*	A 44W	56TB2-C 8	56J01- 87	SIN AIG 16X TO CDU
*	AA171L	56TB2-C 8	56J15-F7	SIN AIG 16X TO CDU
*	A 557	56TB2-D 1	56E 8	+28 VDC CDU NOT LOCK
*	AA177	56TB2-D 1	56J15-R6	+28 VDC CDU NOT LOCK
	AA569L	56TB2-D 2	56J16-B7	AGC COM
*	A 13W	56TB2-D 2	56P01- 68	AGC COM
*	A 155W	56TB2-D 2	56J06- 68	AGC COM
*	AA176L	56TB2-D 2	56J15-B3	AGC COM
*	AA487L	56TB2-D 2	56J21-121	AGC COM
	A 13B	56TB2-D 3	SHLD A 13	AGC SIG 178 SHLD RET
	A 155B	56TB2-D 3	SHLD A 155	AGC SIG 178 SHLD RET
	AA176B	56TB2-D 3	SHLD AA176	AGC SIG 178 SHLD RET
	AA487B	56TB2-D 3	SHLD AA487	AGC SIG 178 SHLD RET
*	AA569A	56TB2-D 3	SHLD AA569	AGC SIG 178 SHLD RET
	AA608	56TB2-D 4	56E 27	0 VDC IMU
*	A 287	56TB2-D 4	56P06-E	0 VDC IMU
*	A 652	56TB2-D 4	56P11-F	0 VDC IMU
*	AA605	56TB2-D 4	56TB2-D 5	0 VDC IMU
	A 458	56TB2-D 5	56E 48	0 VDC IMU
	AA605	56TB2-D 5	56TB2-D 4	0 VDC IMU
*	A 550	56TB2-D 5	56E 21	0 VDC IMU
*	AA604	56TB2-D 5	56TB2-D 6	0 VDC IMU
	AA604	56TB2-D 6	56TB2-D 5	0 VDC IMU
*	A 214	56TB2-D 6	56J08- 82	0 VDC IMU
*	A 450	56TB2-D 6	56J09- 26	0 VDC IMU
*	A 549	56TB2-D 6	56E 20	0 VDC IMU
*	AA603	56TB2-D 6	56TB2-D 7	0 VDC IMU
	A 68B	56TB2-D 7	SHLD A 68	0 VDC IMU
	A 220B	56TB2-D 7	SHLD A 220	0 VDC IMU
	AA577	56TB2-D 7	56TB2-D 8	0 VDC IMU
	AA603	56TB2-D 7	56TB2-D 6	0 VDC IMU
	A 44B	56TB2-D 8	SHLD A 44	0 VDC IMU

165A

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607	
SCALE - NONE	REV LTR K		SHEET 93

MIL 2084-4-64

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 301R	56TB2-K 2	56P08-J	800 CPS 28 V 1 PCT HI OPTICS
*	A 76W	56TB2-K 3	56J02- 32	MG CDU MDA OUTPUT
*	AA203R	56TB2-K 3	56J16-P3	MG CDU MDA OUTPUT
	AA555	56TB2-K 4	56TB2-L 4	0 VDC IMU
*	A 52R	56TB2-K 4	56J01- 43	0 VDC IMU
*	A 76R	56TB2-K 4	56J02- 43	0 VDC IMU
*	A 97R	56TB2-K 4	56J03- 43	0 VDC IMU
*	AA223	56TB2-K 4	56J16-P2	0 VDC IMU
*	A 97W	56TB2-K 5	56J03- 32	OG CDU MDA OUTPUT
*	AA215R	56TB2-K 5	56J16-N2	OG CDU MDA OUTPUT
*	A 97L	56TB2-K 6	56J03- 31	OG CDU MDA OUTPUT
*	AA215W	56TB2-K 6	56J16-N1	OG CDU MDA OUTPUT
*	A 102	56TB2-K 8	56J03- 30	+28 VDC IMU FOR OG MDA
*	AA212	56TB2-K 8	56J16-T2	+28 VDC IMU FOR OG MDA
*	A 321W	56TB2-L 1	56P09- 55	800 CPS 28 V 1 PCT LO OPTICS
*	A 416W	56TB2-L 1	56J09- 69	800 CPS 28 V 1 PCT LO OPTICS
*	A 558W	56TB2-L 1	56E 13	800 CPS 28 V 1 PCT LO OPTICS
*	AA224R	56TB2-L 1	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
*	AA556	56TB2-L 1	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
	AA556	56TB2-L 2	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 265W	56TB2-L 2	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
*	A 301W	56TB2-L 2	56P08-K	800 CPS 28 V 1 PCT LO OPTICS
*	A 76L	56TB2-L 3	56J02- 31	MG CDU MDA OUTPUT
*	AA203W	56TB2-L 3	56J16-R3	MG CDU MDA OUTPUT
	A 601	56TB2-L 4	56TB2-M 4	0 VDC IMU
*	A 169	56TB2-L 4	56J06- 78	0 VDC IMU
*	A 661	56TB2-L 4	56P12-F	0 VDC IMU
*	AA555	56TB2-L 4	56TB2-K 4	0 VDC IMU
*	A 52L	56TB2-L 5	56J01- 31	IG CDU MDA OUTPUT
*	AA198W	56TB2-L 5	56J16-R1	IG CDU MDA OUTPUT
*	A 52W	56TB2-L 6	56J01- 32	IG CDU MDA OUTPUT
*	AA198R	56TB2-L 6	56J16-P1	IG CDU MDA OUTPUT
	AA581	56TB2-M 1	56TB2-M 2	0 VDC IMU
*	A 660	56TB2-M 1	56P12-F	0 VDC IMU
*	AA 43	56TB2-M 1	56J11-R3	0 VDC IMU
*	AA461	56TB2-M 1	56J20-H2	0 VDC IMU
	AA582	56TB2-M 2	56TB2-M 3	0 VDC IMU
*	AA 44	56TB2-M 2	56J11-R1	0 VDC IMU
*	AA581	56TB2-M 2	56TB2-M 1	0 VDC IMU

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 87W	56TB2-N 7	56J03- 6	COS AOG 1X S1
*	A 232W	56TB2-N 7	56P03-E	COS AOG 1X S1
*	A 360W	56TB2-N 7	56P09- 31	COS AOG 1X S1
*	AA204R	56TB2-N 7	56J16-C8	COS AOG 1X S1
*	AA506R	56TB2-N 7	56J22-142	COS AOG 1X S1
*	A 232R	56TB2-N 8	56P03-D	COS AOG 1X S3
*	A 360R	56TB2-N 8	56P09- 30	COS AOG 1X S3
*	AA204W	56TB2-N 8	56J16-B8	COS AOG 1X S3
*	AA506L	56TB2-N 8	56J22-141	COS AOG 1X S3
*	A 85W	56TB2-R 1	56J03- 57	OG CDU ERROR SIG RET
*	AA206R	56TB2-R 1	56J16-D6	OG CDU ERROR SIG RET
*	A 23W	56TB2-R 2	56P01- 97	OG CDU ERROR SIG RET
*	A 86W	56TB2-R 2	56J03- 45	OG CDU ERROR SIG RET
*	A 366W	56TB2-R 2	56P09- 83	OG CDU ERROR SIG RET
*	AA 21R	56TB2-R 2	56J11-B3	OG CDU ERROR SIG RET
*	AA207R	56TB2-R 2	56J16-D6	OG CDU ERROR SIG RET
*	AA578	56TB2-R 2	56TB2-S 2	OG CDU ERROR SIG RET
	AA571R	56TB2-R 3	56J17-B2	OG CDU ERROR SIG RET
	AA615	56TB2-R 3	56TB2-S 3	OG CDU ERROR SIG RET
*	A 89W	56TB2-R 3	56J03- 90	OG CDU ERROR SIG RET
*	A 338W	56TB2-R 3	56P09- 38	OG CDU ERROR SIG RET
*	AA208W	56TB2-R 3	56J16-D6	OG CDU ERROR SIG RET
*	A 9	56TB2-R 4	56P01- 57	ENTRY RELAY CONTROL
*	AA221	56TB2-R 4	56J16-M1	ENTRY RELAY CONTROL
*	A 80	56TB2-R 5	56J02- 30	+28 VDC IMU FOR MG MDA
*	AA211	56TB2-R 5	56J16-T1	+28 VDC IMU FOR MG MDA
*	A 96L	56TB2-R 6	56J03-105	OG CDU MDA SLEW SIG
*	AA214W	56TB2-R 6	56J16-A6	OG CDU MDA SLEW SIG
	A 96B	56TB2-R 7	SHLD A 96	OG CDU MDA INPUT RET
*	A 96W	56TB2-R 7	56J03- 92	OG CDU MDA INPUT RET
*	AA214L	56TB2-R 7	56J16-B5	OG CDU MDA INPUT RET
*	A 87R	56TB2-R 8	56J03- 20	COS AOG 1X TO CDU
*	AA204L	56TB2-R 8	56J16-C9	COS AOG 1X TO CDU
*	A 100	56TB2-S 1	56J03- 34	OG CDU 1X RSVR LOAD
*	AA218	56TB2-S 1	56J16-F6	OG CDU 1X RSVR LOAD
	A 23B	56TB2-S 2	SHLD A 23	OG CDU ERROR SIG RET
	A 86B	56TB2-S 2	SHLD A 86	OG CDU ERROR SIG RET
	A 366B	56TB2-S 2	SHLD A 366	OG CDU ERROR SIG RET
	AA578	56TB2-S 2	56TB2-R 2	OG CDU ERROR SIG RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 89B	56TB2-S 3	SHLD A 89	OG CDU ERROR SIG RET
	A 338B	56TB2-S 3	SHLD A 338	OG CDU ERROR SIG RET
*	AA571A	56TB2-S 3	SHLD AA571	OG CDU ERROR SIG RET
*	AA615	56TB2-S 3	56TB2-R 3	OG CDU ERROR SIG RET
*	A 185	56TB2-S 4	56J08- 93	STEP-DOWN-R
*	A 411	56TB2-S 4	56J09- 93	STEP-DOWN-R
*	A 186	56TB2-S 5	56J08- 79	STEP-DOWN-C
*	A 412	56TB2-S 5	56J09- 79	STEP-DOWN-C
*	A 183	56TB2-S 6	56J08-106	STEP-UP-R
*	A 413	56TB2-S 6	56J09-106	STEP-UP-R
*	A 184	56TB2-S 7	56J08- 78	STEP-UP-C
*	A 414	56TB2-S 7	56J09- 78	STEP-UP-C
*	A 202	56TB2-S 8	56J08- 18	GIMBAL LOCK LIGHT HI
*	A 455	56TB2-S 8	56P10- 24	GIMBAL LOCK LIGHT HI
*	A 101	56TB2-T 1	56J03- 89	OG CDU 16X RSVR LOAD
*	AA219	56TB2-T 1	56J16-F5	OG CDU 16X RSVR LOAD
	AA621	56TB2-T 2	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 299W	56TB2-T 2	56P08-B	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 599W	56TB2-T 2	56J04- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 600W	56TB2-T 2	56J05- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	AA225R	56TB2-T 2	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 322W	56TB2-T 3	56P09- 57	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 598W	56TB2-T 3	56P05-E	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	AA621	56TB2-T 3	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 219W	56TB2-T 5	56P02-H	COS AMG 16X S1
*	AA231R	56TB2-T 5	56J16-H3	COS AMG 16X S1
*	A 51L	56TB2-T 6	56J01-105	IG CDU MDA SLEW SIG
*	AA197W	56TB2-T 6	56J16-A2	IG CDU MDA SLEW SIG
	A 51B	56TB2-T 7	SHLD A 51	IG CDU MDA INPUT RET
*	A 51W	56TB2-T 7	56J01- 92	IG CDU MDA INPUT RET
*	AA197L	56TB2-T 7	56J16-B1	IG CDU MDA INPUT RET
*	A 88R	56TB2-T 8	56J03- 21	SIN AOG 1X TO CDU
*	AA205L	56TB2-T 8	56J16-B9	SIN AOG 1X TO CDU
	AA645	56TB2-U 1	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 599R	56TB2-U 1	56J04- 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 600R	56TB2-U 1	56J05- 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 598R	56TB2-U 2	56P05-D	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
*	A 669W	56TB2-U 2	56J09- 82	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
*	A 299R	56TB2-U 3	56P08-A	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA583	56TB2-M 3	56TB2-M 4	0 VDC IMU
*	A 651	56TB2-M 3	56P11-F	0 VDC IMU
*	AA 45	56TB2-M 3	56J11-R2	0 VDC IMU
*	AA582	56TB2-M 3	56TB2-M 2	0 VDC IMU
	AA584	56TB2-M 4	56TB2-M 5	0 VDC IMU
*	A 20	56TB2-M 4	56P01- 78	0 VDC IMU
*	A 601	56TB2-M 4	56TB2-L 4	0 VDC IMU
*	AA583	56TB2-M 4	56TB2-M 3	0 VDC IMU
*	AA591	56TB2-M 4	56TB1-S 3	0 VDC IMU
	AA585	56TB2-M 5	56TB2-M 6	0 VDC IMU
*	AA584	56TB2-M 5	56TB2-M 4	0 VDC IMU
*	AA589	56TB2-M 5	56TB1-N 4	0 VDC IMU
	AA586	56TB2-M 6	56TB2-M 7	0 VDC IMU
	AA592	56TB2-M 6	56TB3-T 3	0 VDC IMU
*	AA585	56TB2-M 6	56TB2-M 5	0 VDC IMU
*	A 654	56TB2-M 7	56P11-E	0 VDC IMU
*	AA460	56TB2-M 7	56J20-G1	0 VDC IMU
*	AA539	56TB2-M 7	56TB2-M 8	0 VDC IMU
*	AA586	56TB2-M 7	56TB2-M 6	0 VDC IMU
	A 87B	56TB2-M 8	SHLD A 87	0 VDC IMU
	A 232B	56TB2-M 8	SHLD A 232	0 VDC IMU
	A 360B	56TB2-M 8	SHLD A 360	0 VDC IMU
	AA506B	56TB2-M 8	SHLD AA506	0 VDC IMU
	AA539	56TB2-M 8	56TB2-M 7	0 VDC IMU
*	A 85R	56TB2-N 1	56J03- 67	OG CDU 1/2X ERROR SIG
*	AA206W	56TB2-N 1	56J16-D5	OG CDU 1/2X ERROR SIG
*	A 23R	56TB2-N 2	56P01- 96	OG CDU 1X ERROR SIG
*	A 86R	56TB2-N 2	56J03- 35	OG CDU 1X ERROR SIG
*	A 366R	56TB2-N 2	56P09- 72	OG CDU 1X ERROR SIG
*	AA 21W	56TB2-N 2	56J11-A3	OG CDU 1X ERROR SIG
*	AA207W	56TB2-N 2	56J16-C6	OG CDU 1X ERROR SIG
	AA571L	56TB2-N 3	56J17-A2	OG CDU 16X ERROR SIG
*	A 89R	56TB2-N 3	56J03-104	OG CDU 16X ERROR SIG
*	A 338R	56TB2-N 3	56P09- 39	OG CDU 16X ERROR SIG
*	AA208R	56TB2-N 3	56J16-C5	OG CDU 16X ERROR SIG
*	A 56	56TB2-N 5	56J01- 30	+28 VDC IMU FOR IG MDA
*	AA210	56TB2-N 5	56J16-S1	+28 VDC IMU FOR IG MDA
*	A 96R	56TB2-N 6	56J03-106	OG CDU MDA TACH SIG
*	AA214R	56TB2-N 6	56J16-A5	OG CDU MDA TACH SIG

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REV LTR K
SHEET 97

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 322R	56TB2-U 3	56P09- 56	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 669R	56TB2-U 3	56J09- 96	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	AA225W	56TB2-U 3	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	AA645	56TB2-U 3	56TB2-U 1	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 67W	56TB2-U 4	56J02- 86	COS AMG 16X TO CDU
*	AA231L	56TB2-U 4	56J16-G4	COS AMG 16X TO CDU
*	A 67R	56TB2-U 5	56J02-100	COS AMG 16X S3
*	A 219R	56TB2-U 5	56P02-G	COS AMG 16X S3
*	AA231W	56TB2-U 5	56J16-G3	COS AMG 16X S3
*	A 51R	56TB2-U 6	56J01-106	IG CDU MDA TACH SIG
*	AA197R	56TB2-U 6	56J16-A1	IG CDU MDA TACH SIG
*	A 233W	56TB2-U 7	56P03-G	SIN AOG 1X S2
*	A 359R	56TB2-U 7	56P09- 16	SIN AOG 1X S2
*	AA205W	56TB2-U 7	56J16-A8	SIN AOG 1X S2
*	AA505R	56TB2-U 7	56J22-107	SIN AOG 1X S2
*	A 88W	56TB2-U 8	56J03- 7	SIN AOG 1X S4
*	A 233R	56TB2-U 8	56P03-F	SIN AOG 1X S4
*	A 359W	56TB2-U 8	56P09- 17	SIN AOG 1X S4
*	AA205R	56TB2-U 8	56J16-A9	SIN AOG 1X S4
*	AA505L	56TB2-U 8	56J22-139	SIN AOG 1X S4
	A 91B	56TB2-V 2	SHLD A 91	0 VDC IMU
	A 218B	56TB2-V 2	SHLD A 218	0 VDC IMU
	AA540	56TB2-V 2	56TB2-V 3	0 VDC IMU
*	AA590	56TB2-V 2	56TB1-D 7	0 VDC IMU
	A 217B	56TB2-V 3	SHLD A 217	0 VDC IMU
	AA596	56TB2-V 3	56TB2-V 4	0 VDC IMU
*	AA540	56TB2-V 3	56TB2-V 2	0 VDC IMU
	A 90B	56TB2-V 4	SHLD A 90	0 VDC IMU
	AA597	56TB2-V 4	56TB2-V 5	0 VDC IMU
*	A 655	56TB2-V 4	56P11-E	0 VDC IMU
*	AA596	56TB2-V 4	56TB2-V 3	0 VDC IMU
	A 67B	56TB2-V 5	SHLD A 67	0 VDC IMU
	A 219B	56TB2-V 5	SHLD A 219	0 VDC IMU
	AA598	56TB2-V 5	56TB2-V 6	0 VDC IMU
*	AA597	56TB2-V 5	56TB2-V 4	0 VDC IMU
	A 43B	56TB2-V 6	SHLD A 43	0 VDC IMU
	A 225B	56TB2-V 6	SHLD A 225	0 VDC IMU
	AA599	56TB2-V 6	56TB2-V 8	0 VDC IMU
*	AA598	56TB2-V 6	56TB2-V 5	0 VDC IMU

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HOUSTON, TEXAS
SIZE A
1014607
SCALE - NONE
REV LTR K
SHEET 100

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 673	56TB3-A10	56J09- 47	+28 VDC OPTICS DAC POWER	
*	AA646	56TB3-A10	56J18-T1	+28 VDC OPTICS DAC POWER	
*	A 200	56TB3-B 3	56J08- 72	CDU FAIL LIGHT HI	
*	A 335	56TB3-B 3	56P09- 47	CDU FAIL LIGHT HI	
*	A 474R	56TB3-B 3	56J10- 4	CDU FAIL LIGHT HI	302
*	A 203	56TB3-B 4	56J08- 41	ZERO ENCODER LIGHT HI	
*	A 346	56TB3-B 4	56P09- 35	ZERO ENCODER LIGHT HI	
*	A 474W	56TB3-B 4	56J10- 3	ZERO ENCODER LIGHT HI	301
*	A 190	56TB3-B 5	56J08- 73	ACCEL FAIL LIGHT HI	
*	A 333	56TB3-B 5	56P09- 49	ACCEL FAIL LIGHT HI	
*	A 474L	56TB3-B 5	56J10- 5	ACCEL FAIL LIGHT HI	303
*	A 209W	56TB3-B 6	56J08- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 448W	56TB3-B 6	56J09- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 374R	56TB3-B 7	56P09- 89	DIRECT SHAFT CONTROLLER HI (TEST)	
*	AA342R	56TB3-B 7	56J18-N4	DIRECT SHAFT CONTROLLER HI (TEST)	
*	A 374W	56TB3-B 8	56P09-102	DIRECT SHAFT CONTROLLER LO (TEST)	
*	AA342W	56TB3-B 8	56J18-M4	DIRECT SHAFT CONTROLLER LO (TEST)	
*	A 377R	56TB3-B 9	56P09-104	SXT SHAFT MDA OUTPUT HI (TEST)	
*	AA392R	56TB3-B 9	56J19-L3	SXT SHAFT MDA OUTPUT HI (TEST)	
*	A 377W	56TB3-B10	56P09-105	SXT SHAFT MDA OUTPUT LO (TEST)	
*	AA392W	56TB3-B10	56J19-K3	SXT SHAFT MDA OUTPUT LO (TEST)	
*	A 394	56TB3-B11	56J09- 72	ZERO OPTICS RELAY CONTROL	
*	AA337	56TB3-B11	56J18-R4	ZERO OPTICS RELAY CONTROL	
*	A 182W	56TB3-B12	56J08- 81	400 CPS 26 V SLEW	
*	A 409W	56TB3-B12	56J09- 81	400 CPS 26 V SLEW	
*	A 182R	56TB3-B13	56J08- 68	400 CPS 26 V MDV RSVR EXC	
*	A 409R	56TB3-B13	56J09- 68	400 CPS 26 V MDV RSVR EXC	
*	A 199	56TB3-B14	56J08- 95	400 CPS 26 V LO	
*	A 460	56TB3-B14	56P10- 49	400 CPS 26 V LO	
	A 664	56TB3-B15	56TB3-T15	0 VDC OPTICS	
	AA514	56TB3-B15	56TB3-C15	0 VDC OPTICS	
*	AA538	56TB3-B15	56TB3-G 9	0 VDC OPTICS	
*	A 145R	56TB3-B16	56J05- 43	+28 VDC OPTICS SWITCHED	
*	A 670R	56TB3-B16	56J09- 49	+28 VDC OPTICS SWITCHED	
*	A 122R	56TB3-B17	56J04- 43	+28 VDC OPTICS SWITCHED	
*	A 670W	56TB3-B17	56J09- 38	+28 VDC OPTICS SWITCHED	
	AA517W	56TB3-B18	56J22-153	800 CPS 28 V 1 PCT HI IMU	
*	A 318R	56TB3-B18	56P09- 9	800 CPS 28 V 1 PCT HI IMU	
*	AA410W	56TB3-B18	56J20-F5	800 CPS 28 V 1 PCT HI IMU	

MANNED
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SIZE A
1014607
SCALE - NONE
REV LTR K
SHEET 102

MIL 2084-4-64

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA517R	56TB3-B19	56J22-120	800 CPS 28 V 1 PCT LO IMU
*	A 318W	56TB3-B19	56P09- 8	800 CPS 28 V 1 PCT LO IMU
*	AA410R	56TB3-B19	56J20-F6	800 CPS 28 V 1 PCT LO IMU
	A 548	56TB3-B20	56E 12	STRUCTURE GND
	AA613	56TB3-B20	56TB3-B21	STRUCTURE GND
	AA619	56TB3-B20	56E 68	STRUCTURE GND
	AA620	56TB3-B20	56E 69	STRUCTURE GND
*	A 33	56TB3-B20	56P01- 84	STRUCTURE GND
*	A 665	56TB3-B20	56P10- 1	STRUCTURE GND
	AA614	56TB3-B21	56TB3-F21	STRUCTURE GND
*	A 178	56TB3-B21	56J06- 91	STRUCTURE GND
*	A 215	56TB3-B21	56J08- 29	STRUCTURE GND
*	AA613	56TB3-B21	56TB3-B20	STRUCTURE GND
*	A 396	56TB3-C 1	56J09- 98	ACCEL BRIDGE AMP PIN 6
*	AA257	56TB3-C 1	56J17-F7	ACCEL BRIDGE AMP PIN 6
*	A 281R	56TB3-C 2	56P06-F*	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA250R	56TB3-C 2	56J17-P4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 281W	56TB3-C 3	56P06-G*	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 320W	56TB3-C 3	56P09- 34	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 567W	56TB3-C 3	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	AA412R	56TB3-C 3	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 370	56TB3-C 4	56P09- 73	BLOWER CURRENT SENSOR (TELEMETERY)
*	AA271	56TB3-C 4	56J17-F6	BLOWER CURRENT SENSOR (TELEMETERY)
*	A 368	56TB3-C 5	56P09- 85	IRIG TEMP (TELEMETRY)
*	AA273	56TB3-C 5	56J17-F4	IRIG TEMP (TELEMETRY)
*	A 209R	56TB3-C 6	56J08- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 448R	56TB3-C 6	56J09- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 373W	56TB3-C 7	56P09-101	DIRECT TRUNNION CONTROLLER LO (TEST)
*	AA340W	56TB3-C 7	56J18-M1	DIRECT TRUNNION CONTROLLER LO (TEST)
*	A 383W	56TB3-C 8	56P09- 99	TRUNNION CDU MDA LO (TEST)
*	AA341W	56TB3-C 8	56J18-M3	TRUNNION CDU MDA LO (TEST)
*	A 375R	56TB3-C 9	56P09- 90	SXT TRUNNION MDA OUTPUT HI (TEST)
*	AA391R	56TB3-C 9	56J19-L1	SXT TRUNNION MDA OUTPUT HI (TEST)
*	A 375W	56TB3-C10	56P09-103	SXT TRUNNION MDA OUTPUT LO (TEST)
*	AA391W	56TB3-C10	56J19-K1	SXT TRUNNION MDA OUTPUT LO (TEST)
*	A 122W	56TB3-C11	56J04- 32	SHAFT CDU MOTOR CONTROL WINDING
*	AA321	56TB3-C11	56J18-R2	SHAFT CDU MOTOR CONTROL WINDING
*	A 145W	56TB3-C12	56J05- 32	TRUNNION CDU MOTOR CONTROL WINDING
*	AA320	56TB3-C12	56J18-R1	TRUNNION CDU MOTOR CONTROL WINDING

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 88B	56TB2-V 8	SHLD A 88	0 VDC IMU
	A 233B	56TB2-V 8	SHLD A 233	0 VDC IMU
	A 359B	56TB2-V 8	SHLD A 359	0 VDC IMU
	AA505B	56TB2-V 8	SHLD AA505	0 VDC IMU
*	AA599	56TB2-V 8	56TB2-V 6	0 VDC IMU
*	AA635	56TB2-V 8	56TB3-T 3	0 VDC IMU
*	A 55	56TB2-W 1	56J01- 34	IG CDU 1X RSVR LOAD S1
*	AA216	56TB2-W 1	56J16-F2	IG CDU 1X RSVR LOAD
*	A 91R	56TB2-W 2	56J03-101	SIN AOG 16X S4
*	A 218W	56TB2-W 2	56P02-F	SIN AOG 16X S4
*	AA213R	56TB2-W 2	56J16-D9	SIN AOG 16X S4
*	A 217W	56TB2-W 3	56P02-D	COS AOG 16X S1
*	AA209R	56TB2-W 3	56J16-D7	COS AOG 16X S1
*	A 90R	56TB2-W 4	56J03-100	COS AOG 16X S3
*	A 217R	56TB2-W 4	56P02-C	COS AOG 16X S3
*	AA209W	56TB2-W 4	56J16-F7	COS AOG 16X S3
*	A 75R	56TB2-W 5	56J02-106	MG CDU MDA TACH SIG
*	AA202R	56TB2-W 5	56J16-A3	MG CDU MDA TACH SIG
*	A 43R	56TB2-W 6	56J01-100	COS AIG 16X S3
*	A 225R	56TB2-W 6	56P02-W	COS AIG 16X S3
*	AA230W	56TB2-W 6	56J16-G1	COS AIG 16X S3
*	A 43W	56TB2-W 7	56J01- 86	COS AIG 16X TO CDU
*	AA230L	56TB2-W 7	56J16-G2	COS AIG 16X TO CDU
*	A 79	56TB2-X 1	56J02- 34	MG CDU 1X RSVR LOAD
*	AA217	56TB2-X 1	56J16-F4	MG CDU 1X RSVR LOAD
*	A 91W	56TB2-X 2	56J03- 87	SIN AOG 16X TO CDU
*	AA213L	56TB2-X 2	56J16-F9	SIN AOG 16X TO CDU
*	A 218R	56TB2-X 3	56P02-E	SIN AOG 16X S2
*	AA213W	56TB2-X 3	56J16-D8	SIN AOG 16X S2
*	A 90W	56TB2-X 4	56J03- 86	COS AOG 16X TO CDU
*	AA209L	56TB2-X 4	56J16-F8	COS AOG 16X TO CDU
*	A 75L	56TB2-X 5	56J02-105	MG CDU MDA SLEW SIG
*	AA202W	56TB2-X 5	56J16-A4	MG CDU MDA SLEW SIG
	A 75B	56TB2-X 6	SHLD A 75	MG CDU MDA INPUT RET
*	A 75W	56TB2-X 6	56J02- 92	MG CDU MDA INPUT RET
*	AA202L	56TB2-X 6	56J16-B3	MG CDU MDA INPUT RET
*	A 225W	56TB2-X 7	56P02-X	COS AIG 16X S1
*	AA230R	56TB2-X 7	56J16-H1	COS AIG 16X S1

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 65R	56TB3-C13	56J02- 21	SIN AMG 1X RET
*	A 222W	56TB3-C13	56P02-N	SIN AMG 1X RET S2
*	A 357R	56TB3-C13	56P09- 15	SIN AMG 1X RET
*	AA507L	56TB3-C13	56J22-144	SIN AMG 1X RET
*	A 65W	56TB3-C14	56J02- 7	SIN AMG 1X
*	A 222R	56TB3-C14	56P02-P	SIN AMG 1X S4
*	A 357W	56TB3-C14	56P09- 29	SIN AMG 1X
*	AA507R	56TB3-C14	56J22-111	SIN AMG 1X
	AA609	56TB3-C15	56TB3-D15	0 VDC OPTICS
*	A 595	56TB3-C15	56TB3-K20	0 VDC OPTICS
*	A 596	56TB3-C15	56TB3-K22	0 VDC OPTICS
*	A 646	56TB3-C15	56P12-G	0 VDC OPTICS
*	AA514	56TB3-C15	56TB3-B15	0 VDC OPTICS
*	AA566	56TB3-C15	56TB3-K21	0 VDC OPTICS
*	A 300L	56TB3-C16	56P08-G	SCT TRUNNION MOTOR CONTROL WINDING BLK
*	A 376W	56TB3-C16	56P09- 92	SCT TRUNNION MOTOR CONTROL WINDING
*	AA360W	56TB3-C16	56J19-T3	SCT TRUNNION MOTOR CONTROL WINDING
*	A 300W	56TB3-C17	56P08-E	SCT TRUNNION MOTOR CONTROL WINDING RED
*	A 376R	56TB3-C17	56P09- 91	SCT TRUNNION MOTOR CONTROL WINDING
*	AA360R	56TB3-C17	56J19-T2	SCT TRUNNION MOTOR CONTROL WINDING
*	A 246R	56TB3-C18	56P05-P	+28 VDC OPTICS
*	A 259R	56TB3-C18	56P05-B	+28 VDC OPTICS
*	AA515	56TB3-C18	56TB3-M20	+28 VDC OPTICS
*	A 300R	56TB3-C19	56P08-F	+28 VDC OPTICS
*	A 308R	56TB3-C19	56P08-H	+28 VDC OPTICS
*	AA558	56TB3-C19	56TB3-M20	+28 VDC OPTICS
*	A 609	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	A 610	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	A 611	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	AA428	56TB3-C20	56J20-N1	+28 VDC IMU BUSS A
*	AA622	56TB3-C20	56J20-R1	+28 VDC IMU BUSS A
*	A 612	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	A 613	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	A 614	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	AA432	56TB3-C21	56J20-S1	+28 VDC IMU BUSS A
*	AA623	56TB3-C21	56J20-P1	+28 VDC IMU BUSS A
*	A 621	56TB3-C22	56P12-M	+28 VDC STBY BUSS B
*	A 622	56TB3-C22	56P12-M	+28 VDC STBY BUSS B
*	AA443	56TB3-C22	56J20-R4	+28 VDC STBY BUSS B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 643	56TB3-D15	56P11-G	0 VDC OPTICS	
*	AA563	56TB3-D15	56TB3-L21	0 VDC OPTICS	
*	AA609	56TB3-D15	56TB3-C15	0 VDC OPTICS	
*	A 246L	56TB3-D16	56P05-J*	SXT TRUNNION MOTOR CONTROL WINDING BLK	
*	AA358W	56TB3-D16	56J19-S3	SXT TRUNNION MOTOR CONTROL WINDING	
*	A 246W	56TB3-D17	56P05-I*	SXT TRUNNION MOTOR CONTROL WINDING RED	
*	AA358R	56TB3-D17	56J19-S2	SXT TRUNNION MOTOR CONTROL WINDING	
*	A 259W	56TB3-D18	56P05-A	SXT SHAFT MOTOR CONTROL WINDING RED	
*	AA359R	56TB3-D18	56J19-P1	SXT SHAFT MOTOR CONTROL WINDING	
	AA526	56TB3-D19	56J21-129	AGC TEMP MONITOR NO 3	173
*	A 371W	56TB3-D19	56P09- 75	AGC TEMP MONITOR NO 3	
*	AA418	56TB3-D19	56J20-B1	AGC TEMP MONITOR NO 3	
*	A 615	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	A 616	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	A 617	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	AA433	56TB3-D20	56J20-N2	+28 VDC IMU BUSS B	
*	AA624	56TB3-D20	56J20-R2	+28 VDC IMU BUSS B	
*	A 618	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	A 619	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	A 620	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	AA437	56TB3-D21	56J20-S2	+28 VDC IMU BUSS B	
*	AA625	56TB3-D21	56J20-P2	+28 VDC IMU BUSS B	
*	A 623	56TB3-D22	56P11-M	+28 VDC STBY BUSS A	
*	A 624	56TB3-D22	56P11-M	+28 VDC STBY BUSS A	
*	AA441	56TB3-D22	56J20-R3	+28 VDC STBY BUSS A	
*	AA626	56TB3-D22	56J20-S3	+28 VDC STBY BUSS A	
*	A 462	56TB3-F 1	56P10- 9	0 VDC SPACECRAFT	
*	A 667	56TB3-F 1	56J09- 15	0 VDC SPACECRAFT	
*	AA278	56TB3-F 1	56J17-M3	0 VDC SPACECRAFT	
*	A 668	56TB3-F 2	56J09- 14	SPACECRAFT LAMP TEST	
*	AA647	56TB3-F 2	56J22-172	SPACECRAFT LAMP TEST	
*	A 28	56TB3-F 3	56P01- 88	CONDITION LAMP TEST	
*	A 390	56TB3-F 3	56J09- 73	CONDITION LAMP TEST	
*	A 464	56TB3-F 3	56J10- 2	CONDITION LAMP TEST	328
*	AA235	56TB3-F 3	56J17-P6	CONDITION LAMP TEST	
	AA518	56TB3-F 4	56J22-190	ATTITUDE CONTROL RELAY CONTROL	
*	A 12	56TB3-F 4	56P01- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 166	56TB3-F 4	56J06- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 243	56TB3-F 5	56P03-J*	GIMBAL LOCK SIGNAL	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 342	56TB3-F 5	56P09- 10	GIMBAL LOCK SIGNAL	
*	A 454	56TB3-F 5	56P10- 12	GIMBAL LOCK SIGNAL	
	A 672B	56TB3-F 7	SHLD A 672	TRUNNION CDU DAC LO	
*	AA344R	56TB3-F 7	56J18-H3	TRUNNION CDU DAC LO	
	A 671B	56TB3-F 8	SHLD A 671	SHAFT CDU DAC LO	
*	AA345R	56TB3-F 8	56J18-H2	SHAFT CDU DAC LO	
*	A 130W	56TB3-F10	56J05- 22	TRUNNION CDU 1/4X SIN LO	
*	A 256W	56TB3-F10	56P05-H*	TRUNNION CDU 1/4X SIN LO	
*	AA330R	56TB3-F10	56J18-F2	TRUNNION CDU 1/4X SIN LO	
*	A 427R	56TB3-F11	56J09- 35	SHAFT CDU MDA CONTROLLER SIG HI	
*	AA336W	56TB3-F11	56J18-F6	SHAFT CDU MDA CONTROLLER SIG HI	
	A 427B	56TB3-F12	SHLD A 427	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 427W	56TB3-F12	56J09- 34	SHAFT CDU MDA CONTROLLER SIG LO	
*	AA336R	56TB3-F12	56J18-F7	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 40W	56TB3-F13	56J01- 6	COS AIG 1X RET P1	
*	A 227W	56TB3-F13	56P02-B*	COS AIG 1X RET S1	
*	A 356R	56TB3-F13	56P09- 2	COS AIG 1X RET	
*	AA510L	56TB3-F13	56J22-150	COS AIG 1X RET	
*	A 40R	56TB3-F14	56J01- 20	COS AIG 1X P3	
*	A 227R	56TB3-F14	56P02-A*	COS AIG 1X S3	
*	A 356W	56TB3-F14	56P09- 3	COS AIG 1X	
*	AA510R	56TB3-F14	56J22-151	COS AIG 1X	
*	A 131R	56TB3-F16	56J05- 9	TRUNNION CDU 1/4X COS HI	
*	A 255W	56TB3-F16	56P05-E*	TRUNNION CDU 1/4X COS HI	
*	AA381W	56TB3-F16	56J19-F5	TRUNNION CDU 1/4X COS HI	
*	A 308L	56TB3-F17	56P08-D*	SCT SHAFT MOTOR CONTROL WINDING BLK	
*	A 378W	56TB3-F17	56P09- 77	SCT SHAFT MOTOR CONTROL WINDING	
*	AA361W	56TB3-F17	56J19-R2	SCT SHAFT MOTOR CONTROL WINDING	
*	A 259L	56TB3-F18	56P05-C	SXT SHAFT MOTOR CONTROL WINDING BLK	
*	AA359W	56TB3-F18	56J19-R1	SXT SHAFT MOTOR CONTROL WINDING	
	AA529	56TB3-F19	56J21-162	AGC TEMP MONITOR NO 2	172
*	A 371R	56TB3-F19	56P09- 74	AGC TEMP MONITOR NO 2	
*	AA417	56TB3-F19	56J20-A2	AGC TEMP MONITOR NO 2	
*	A 270	56TB3-F21	56P05-R	STRUCTURE GND	
*	A 288	56TB3-F21	56P06-G	STRUCTURE GND	
*	A 631	56TB3-F21	56P11-L	STRUCTURE GND	
*	AA607	56TB3-F21	56TB3-F22	STRUCTURE GND	
*	AA614	56TB3-F21	56TB3-B21	STRUCTURE GND	
	AA607	56TB3-F22	56TB3-F21	STRUCTURE GND	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA627	56TB3-C22	56J20-S4	+28 VDC STBY BUSS B
*	A 439	56TB3-D 1	56J09- 94	0 VDC IMU
*	AA264	56TB3-D 1	56J17-M1	0 VDC IMU
*	A 320R	56TB3-D 2	56P09- 22	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 567R	56TB3-D 2	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA250W	56TB3-D 2	56J17-R4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA412W	56TB3-D 2	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 192	56TB3-D 3	56J08- 62	IMU TEMP CONT FAIL LIGHT HI
*	A 344	56TB3-D 3	56P09- 11	IMU TEMP CONT FAIL LIGHT HI
*	AA275	56TB3-D 3	56J17-P5	IMU TEMP CONT FAIL LIGHT HI
*	A 367	56TB3-D 4	56P09- 98	ACCEL TEMP (TELEMETRY)
*	AA272	56TB3-D 4	56J17-F5	ACCEL TEMP (TELEMETRY)
*	A 369	56TB3-D 5	56P09- 97	HTR CURRENT (TELEMETERY)
*	AA274	56TB3-D 5	56J17-F3	HTR CURRENT (TELEMETRY)
*	A 384	56TB3-D 6	56P09- 84	TEMPERATURE CONTROL SIG LO
*	AA636	56TB3-D 6	56J17-F2	TEMPERATURE CONTROL SIG LO
*	A 373R	56TB3-D 7	56P09-100	DIRECT TRUNNION CONTROLLER HI (TEST)
*	AA340R	56TB3-D 7	56J18-N1	DIRECT TRUNNION CONTROLLER HI (TEST)
*	A 383R	56TB3-D 8	56P09- 86	TRUNNION CDU MDA HI (TEST)
*	AA341R	56TB3-D 8	56J18-N3	TRUNNION CDU MDA HI (TEST)
*	A 372R	56TB3-D 9	56P09- 87	SHAFT CDU MDA (TEST) HI
*	AA343R	56TB3-D 9	56J18-N6	SHAFT CDU MDA (TEST) HI
*	A 372W	56TB3-D10	56P09- 88	SHAFT CDU MDA (TEST) LO
*	AA343W	56TB3-D10	56J18-M6	SHAFT CDU MDA (TEST) LO
*	A 122L	56TB3-D11	56J04- 31	SHAFT CDU MOTOR CONTROL WINDING
*	AA322	56TB3-D11	56J18-P2	SHAFT CDU MOTOR CONTROL WINDING
*	A 145L	56TB3-D12	56J05- 31	TRUNNION CDU MOTOR CONTROL WINDING
*	AA319	56TB3-D12	56J18-P1	TRUNNION CDU MOTOR CONTROL WINDING
*	A 41R	56TB3-D13	56J01- 21	SIN AIG 1X RET P4
*	A 228R	56TB3-D13	56P02-F*	SIN AIG 1X RET S2
*	A 355R	56TB3-D13	56P09- 1	SIN AIG 1X RET
*	AA509L	56TB3-D13	56J22-116	SIN AIG 1X RET
*	A 41W	56TB3-D14	56J01- 7	SIN AIG 1X P2
*	A 228W	56TB3-D14	56P02-G*	SIN AIG 1X S4
*	A 355W	56TB3-D14	56P09- 14	SIN AIG 1X
*	AA509R	56TB3-D14	56J22-148	SIN AIG 1X
	A 593	56TB3-D15	56TB3-L20	0 VDC OPTICS
	AA630	56TB3-D15	56TB3-G15	0 VDC OPTICS
*	A 594	56TB3-D15	56TB3-L22	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 316	56TB3-F22	56P08-T*	STRUCTURE GND
*	A 451	56TB3-F22	56J09- 91	STRUCTURE GND
*	A 632	56TB3-F22	56P12-L	STRUCTURE GND
*	AA462	56TB3-F22	56J20-G4	STRUCTURE GND
*	A 401R	56TB3-G 1	56J09-100	IMU HTR CURRENT AMP PIN 5
*	AA258K	56TB3-G 1	56J17-N6	IMU HTR CURRENT AMP PIN 5
*	A 401K	56TB3-G 2	56J09- 88	IMU TEMP CONT K2 PIN 5
*	AA258L	56TB3-G 2	56J17-N5	IMU TEMP CONT K2 PIN 5
*	A 443	56TB3-G 3	56J09- 89	IRIG ZERO DEVIATION CHECK
*	AA253	56TB3-G 3	56J17-B8	IRIG ZERO DEVIATION CHECK
*	A 442	56TB3-G 4	56J09- 85	IRIG TEMP BRIDGE AMP PIN 6
*	AA254	56TB3-G 4	56J17-C7	IRIG TEMP BRIDGE AMP PIN 6
*	A 274	56TB3-G 5	56P06-K	IMU TEMP SENSOR COM
*	AA277	56TB3-G 5	56J17-M2	IMU TEMP SENSOR COM
*	A 672W	56TB3-G 7	56J09- 56	TRUNNION CDU DAC OUTPUT HI
*	AA344W	56TB3-G 7	56J18-G3	TRUNNION CDU DAC OUTPUT HI
*	A 671W	56TB3-G 8	56J09- 48	SHAFT CDU DAC OUTPUT HI
*	AA345W	56TB3-G 8	56J18-G2	SHAFT CDU DAC OUTPUT HI
	A 130B	56TB3-G 9	SHLD A 130	0 VDC OPTICS
	A 256B	56TB3-G 9	SHLD A 256	0 VDC OPTICS
	AA538	56TB3-G 9	56TB3-B15	0 VDC OPTICS
	AA541	56TB3-G 9	56TB3-H 9	0 VDC OPTICS
*	A 130R	56TB3-G10	56J05- 8	TRUNNION CDU 1/4X SIN HI
*	A 256R	56TB3-G10	56P05-G*	TRUNNION CDU 1/4X SIN HI
*	AA330W	56TB3-G10	56J18-F1	TRUNNION CDU 1/4X SIN HI
*	A 426R	56TB3-G11	56J09- 19	TRUNNION CDU MDA CONTROLLER SIG HI
*	AA335W	56TB3-G11	56J18-C7	TRUNNION CDU MDA CONTROLLER SIG HI
	A 426B	56TB3-G12	SHLD A 426	TRUNNION CDU MDA CONTROLLER SIG LO
*	A 426W	56TB3-G12	56J09- 33	TRUNNION CDU MDA CONTROLLER SIG LO
*	AA335R	56TB3-G12	56J18-D7	TRUNNION CDU MDA CONTROLLER SIG LO
*	A 111R	56TB3-G13	56J04- 7	SHAFT CDU 1X SIN OUTPUT LO
*	AA334R	56TB3-G13	56J18-D6	SHAFT CDU 1X SIN OUTPUT LO
*	A 111W	56TB3-G14	56J04- 21	SHAFT CDU 1X SIN OUTPUT HI
*	AA334W	56TB3-G14	56J18-C6	SHAFT CDU 1X SIN OUTPUT HI
	A 111B	56TB3-G15	SHLD A 111	0 VDC OPTICS
	AA550	56TB3-G15	56TB3-H15	0 VDC OPTICS
*	AA630	56TB3-G15	56TB3-D15	0 VDC OPTICS
*	A 131W	56TB3-G16	56J05- 10	TRUNNION CDU 1/4X COS LO
*	A 255R	56TB3-G16	56P05-F*	TRUNNION CDU 1/4X COS LO

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INCHES
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 65B	56TB3-H12	SHLD A 65	0 VDC IMU
	A 222B	56TB3-H12	SHLD A 222	0 VDC IMU
	A 357B	56TB3-H12	SHLD A 357	0 VDC IMU
	AA466	56TB3-H12	56TB3-R 3	0 VDC IMU
	AA507B	56TB3-H12	SHLD AA507	0 VDC IMU
	AA513	56TB3-H12	56TB3-H13	0 VDC IMU
	A 41B	56TB3-H13	SHLD A 41	0 VDC IMU
	A 228B	56TB3-H13	SHLD A 228	0 VDC IMU
	A 355B	56TB3-H13	SHLD A 355	0 VDC IMU
	AA509B	56TB3-H13	SHLD AA509	0 VDC IMU
	AA554	56TB3-H13	56TB3-H14	0 VDC IMU
*	AA513	56TB3-H13	56TB3-H12	0 VDC IMU
	A 40B	56TB3-H14	SHLD A 40	0 VDC IMU
	A 227B	56TB3-H14	SHLD A 227	0 VDC IMU
	A 356B	56TB3-H14	SHLD A 356	0 VDC IMU
	AA508B	56TB3-H14	SHLD AA508	0 VDC IMU
	AA510B	56TB3-H14	SHLD AA510	0 VDC IMU
*	AA554	56TB3-H14	56TB3-H13	0 VDC IMU
	A 255B	56TB3-H15	SHLD A 255	0 VDC OPTICS
	A 263B	56TB3-H15	SHLD A 263	0 VDC OPTICS
	A 304B	56TB3-H15	SHLD A 304	0 VDC OPTICS
	AA551	56TB3-H15	56TB3-K15	0 VDC OPTICS
*	AA550	56TB3-H15	56TB3-G15	0 VDC OPTICS
*	A 263R	56TB3-H16	56P05-HH	SXT SHAFT 1/2X RSVR ERROR HI
*	AA375W	56TB3-H16	56J19-A5	SXT SHAFT 1/2X RSVR ERROR HI
*	A 263W	56TB3-H17	56P05-BB	SXT SHAFT 1/2X RSVR ERROR LO
*	AA375R	56TB3-H17	56J19-B5	SXT SHAFT 1/2X RSVR ERROR LO
*	A 283W	56TB3-H19	56P06-E*	IMU PRESSURE MONITOR LO
*	A 379W	56TB3-H19	56P09- 53	IMU PRESSURE MONITOR LO
*	AA415	56TB3-H19	56J20-B4	IMU PRESSURE MONITOR LO
*	A 328	56TB3-H20	56P09- 65	+28 VDC OPTICS
*	AA406	56TB3-H20	56J20-N6	+28 VDC OPTICS
*	A 625	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	A 626	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	A 627	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	AA446	56TB3-H21	56J20-P5	+28 VDC OPTICS BUSS A
*	AA449	56TB3-H21	56J20-S5	+28 VDC OPTICS BUSS A
*	AA628	56TB3-H21	56J20-R5	+28 VDC OPTICS BUSS A
*	A 628	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 629	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B
*	A 630	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B
*	AA450	56TB3-H22	56J20-P6	+28 VDC OPTICS BUSS B
*	AA453	56TB3-H22	56J20-S6	+28 VDC OPTICS BUSS B
*	AA629	56TB3-H22	56J20-R6	+28 VDC OPTICS BUSS B
*	A 438	56TB3-K 1	56J09- 92	IMU TEMP ALARM AMP PIN 5
*	AA260	56TB3-K 1	56J17-H2	IMU TEMP ALARM AMP PIN 5
*	A 446	56TB3-K 2	56J09-105	IMU TEMP ALARM BIAS RESISTOR
*	AA259	56TB3-K 2	56J17-H1	IMU TEMP ALARM BIAS RESISTOR
*	A 286	56TB3-K 3	56P06-A*	IRIG TEMP IND SENSOR RET
*	AA266	56TB3-K 3	56J17-C5	IRIG TEMP IND SENSOR RET
*	A 391	56TB3-K 4	56J09- 21	TRUNNION ENCODER PIN 9
*	AA286	56TB3-K 4	56J17-B9	TRUNNION ENCODER PIN 9
*	A 444	56TB3-K 5	56J09- 75	IMU TEMP ALARM AMP PIN 14
*	AA261	56TB3-K 5	56J17-G1	IMU TEMP ALARM AMP PIN 14
*	A 210R	56TB3-K 6	56J08- 35	400 CPS 0.5 V ZERO PHASE
*	A 459R	56TB3-K 6	56P10- 38	400 CPS 0.5 V ZERO PHASE
*	A 110R	56TB3-K 7	56J04- 6	SHAFT CDU 1X COS OUTPUT HI
*	AA338R	56TB3-K 7	56J18-D4	SHAFT CDU 1X COS OUTPUT HI
*	A 110W	56TB3-K 8	56J04- 20	SHAFT CDU 1X COS OUTPUT LO
*	AA338W	56TB3-K 8	56J18-D5	SHAFT CDU 1X COS OUTPUT LO
	A 110B	56TB3-K 9	SHLD A 110	0 VDC OPTICS
	A 262B	56TB3-K 9	SHLD A 262	0 VDC OPTICS
	A 312B	56TB3-K 9	SHLD A 312	0 VDC OPTICS
	AA331B	56TB3-K 9	SHLD AA331	0 VDC OPTICS
	AA543	56TB3-K 9	56TB3-L 9	0 VDC OPTICS
*	AA542	56TB3-K 9	56TB3-H 9	0 VDC OPTICS
*	A 107W	56TB3-K10	56J04- 67	SHAFT CDU 1/2X SIN HI S1
*	A 262R	56TB3-K10	56P05-Y*	SHAFT CDU 1/2X SIN HI P1
*	A 312W	56TB3-K10	56P08-J*	SHAFT CDU 1/2X SIN HI S1
*	AA332W	56TB3-K10	56J18-G1	SHAFT CDU 1/2X SIN HI S1
*	A 107R	56TB3-K11	56J04- 57	SHAFT CDU 1/2X SIN LO S3
*	A 262W	56TB3-K11	56P05-Z*	SHAFT CDU 1/2X SIN LO P3
*	A 312R	56TB3-K11	56P08-K*	SHAFT CDU 1/2X SIN LO P1
*	AA332R	56TB3-K11	56J18-H1	SHAFT CDU 1/2X SIN LO S3
*	A 148W	56TB3-K12	56J05- 66	TRUNNION CDU 1/2X RSVR LOAD LO
*	AA318R	56TB3-K12	56J18-F4	TRUNNION CDU 1/2X RSVR LOAD LO
*	A 282W	56TB3-K13	56P06-C*	PRESSURE SENSOR +28 VDC LO
*	AA464W	56TB3-K13	56J20-B6	PRESSURE SENSOR +28 VDC LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA381R	56TB3-G16	56J19-F6	TRUNNION CDU 1/4X COS LO
*	A 308W	56TB3-G17	56P08-C*	SCT SHAFT MOTOR CONTROL WINDING RED
*	A 378R	56TB3-G17	56P09- 76	SCT SHAFT MOTOR CONTROL WINDING
*	AA361R	56TB3-G17	56J19-P2	SCT SHAFT MOTOR CONTROL WINDING
*	A 404	56TB3-G18	56J09- 59	25 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	AA387	56TB3-G18	56J19-M6	25 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA530	56TB3-G19	56J21-196	AGC TEMP MONITOR NO 1 171
*	A 371L	56TB3-G19	56P09- 64	AGC TEMP MONITOR NO 1
*	AA416	56TB3-G19	56J20-A1	AGC TEMP MONITOR NO 1
*	A 633	56TB3-G21	56P11-A	+28 VDC AGC BUSS A
*	AA420	56TB3-G21	56J20-K5	+28 VDC AGC BUSS A
*	A 636	56TB3-G22	56P12-A	+28 VDC AGC BUSS B
*	AA421	56TB3-G22	56J20-K6	+28 VDC AGC BUSS B
*	A 401L	56TB3-H 1	56J09- 87	IMU TEMP CONT AMP PIN 5
*	AA258R	56TB3-H 1	56J17-M6	IMU TEMP CONT AMP PIN 5
*	A 401W	56TB3-H 2	56J09-101	IMU TEMP CONT K1 PIN 3
*	AA258W	56TB3-H 2	56J17-M5	IMU TEMP CONT K1 PIN 3
*	A 399	56TB3-H 3	56J09-102	IMU TEMP CONT -5 DEG GAIN CHECK
*	AA252	56TB3-H 3	56J17-B7	IMU TEMP CONT -5 DEG GAIN CHECK
*	A 280	56TB3-H 4	56P06-Z	IRIG TEMP IND SENSOR HI
*	AA276	56TB3-H 4	56J17-C6	IRIG TEMP IND SENSOR HI
*	A 403	56TB3-H 5	56J09- 74	IMU TEMP ALARM AMP PIN 15
*	AA262	56TB3-H 5	56J17-G2	IMU TEMP ALARM AMP PIN 15
*	A 181	56TB3-H 6	56J08- 66	MDV SLEW CONTROL 0.5 V 400 CPS
*	A 408	56TB3-H 6	56J09- 66	MDV SLEW CONTROL 0.5 V 400 CPS
*	A 135W	56TB3-H 7	56J05- 90	TRUNNION CDU 16X ERROR SIG LO
*	AA329R	56TB3-H 7	56J19-B2	TRUNNION CDU 16X ERROR SIG LO
*	A 135R	56TB3-H 8	56J05-104	TRUNNION CDU 16X ERROR SIG HI
*	AA329L	56TB3-H 8	56J19-C2	TRUNNION CDU 16X ERROR SIG HI
	A 107B	56TB3-H 9	SHLD A 107	0 VDC OPTICS
	A 112B	56TB3-H 9	SHLD A 112	0 VDC OPTICS
	A 135B	56TB3-H 9	SHLD A 135	0 VDC OPTICS
	AA329B	56TB3-H 9	SHLD AA329	0 VDC OPTICS
	AA542	56TB3-H 9	56TB3-K 9	0 VDC OPTICS
*	AA541	56TB3-H 9	56TB3-G 9	0 VDC OPTICS
*	A 112R	56TB3-H10	56J04-104	SHAFT CDU 16X ERROR SIG HI
*	AA331L	56TB3-H10	56J19-B4	SHAFT CDU 16X ERROR SIG HI
*	A 112W	56TB3-H11	56J04- 90	SHAFT CDU 16X ERROR SIG LO
*	AA331R	56TB3-H11	56J19-B3	SHAFT CDU 16X ERROR SIG LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 607W	56TB3-K14	56P10- 68	400 CPS 115 V LO
*	A 608W	56TB3-K14	56P11-K	400 CPS 115 V LO
*	AA465W	56TB3-K14	56J20-G3	400 CPS 115 V LO
	A 131B	56TB3-K15	SHLD A 131	0 VDC OPTICS
	AA552	56TB3-K15	56TB3-L15	0 VDC OPTICS
*	A 303	56TB3-K15	56P08-R	0 VDC OPTICS
*	A 315	56TB3-K15	56P08-B*	0 VDC OPTICS
*	AA551	56TB3-K15	56TB3-H15	0 VDC OPTICS
*	A 304W	56TB3-K16	56P08-S	SCT TRUNNION 1X RSVR ERROR HI
*	AA377W	56TB3-K16	56J19-B7	SCT TRUNNION 1X RSVR ERROR HI
*	A 304R	56TB3-K17	56P08-T	SCT TRUNNION 1X RSVR ERROR LO
*	AA377R	56TB3-K17	56J19-B8	SCT TRUNNION 1X RSVR ERROR LO
*	A 405	56TB3-K18	56J09- 58	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	AA388	56TB3-K18	56J19-M5	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	A 283R	56TB3-K19	56P06-D*	IMU PRESSURE MONITOR HI
*	A 379R	56TB3-K19	56P09- 42	IMU PRESSURE MONITOR HI
*	AA414	56TB3-K19	56J20-A4	IMU PRESSURE MONITOR HI
	A 595	56TB3-K20	56TB3-C15	0 VDC OPTICS
*	A 644	56TB3-K20	56P11-G	0 VDC OPTICS
*	AA325	56TB3-K20	56J18-S3	0 VDC OPTICS
*	AA327	56TB3-K20	56J18-T3	0 VDC OPTICS
*	AA333	56TB3-K20	56J18-R3	0 VDC OPTICS
	AA566	56TB3-K21	56TB3-C15	0 VDC OPTICS
*	A 249	56TB3-K21	56P05-S	0 VDC OPTICS
*	A 250	56TB3-K21	56P05-T	0 VDC OPTICS
*	AA390	56TB3-K21	56J19-R4	0 VDC OPTICS
*	AA393	56TB3-K21	56J19-P5	0 VDC OPTICS
	A 596	56TB3-K22	56TB3-C15	0 VDC OPTICS
*	A 647	56TB3-K22	56P12-G	0 VDC OPTICS
*	AA364	56TB3-K22	56J19-S4	0 VDC OPTICS
*	AA369	56TB3-K22	56J19-S5	0 VDC OPTICS
*	AA408	56TB3-K22	56J20-N3	0 VDC OPTICS
*	A 2	56TB3-L 1	56P01- 65	IRIG TEMP GAIN SWITCH NC
*	A 398	56TB3-L 1	56J09- 86	IRIG TEMP GAIN SWITCH NC
*	AA290	56TB3-L 1	56J17-C8	IRIG TEMP GAIN SWITCH NC
*	A 32	56TB3-L 2	56P01- 55	IMU TD RELAY NO
*	AA249	56TB3-L 2	56J17-F8	IMU TD RELAY NO
*	A 275W	56TB3-L 3	56P06-L	IRIG TEMP CONT SENSOR RET
*	AA268	56TB3-L 3	56J17-B5	IRIG TEMP CONT SENSOR RET

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INCHES
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PHOTOGRAPHIC SCALE-CHEK

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 275R	56TB3-L 4	56P06-M	IRIG TEMP CONT SENSOR HI
*	AA267	56TB3-L 4	56J17-B6	IRIG TEMP CONT SENSOR HI
*	A 400	56TB3-L 5	56J09- 76	IMU TEMP CONT K2 PIN 6
*	AA263	56TB3-L 5	56J17-L1	IMU TEMP CONT K2 PIN 6
*	A 210W	56TB3-L 6	56J08- 45	400 CPS 0.5 V PI PHASE
*	A 459W	56TB3-L 6	56P10- 39	400 CPS 0.5 V PI PHASE
*	A 121R	56TB3-L 7	56J04-106	SHAFT CDU TACH HI
*	AA316L	56TB3-L 7	56J18-A8	SHAFT CDU TACH HI
*	A 121W	56TB3-L 8	56J04- 92	SHAFT CDU TACH LO
*	AA316R	56TB3-L 8	56J18-A7	SHAFT CDU TACH LO
	A 121B	56TB3-L 9	SHLD A 121	0 VDC OPTICS
	A 132B	56TB3-L 9	SHLD A 132	0 VDC OPTICS
	AA316B	56TB3-L 9	SHLD AA316	0 VDC OPTICS
	AA544	56TB3-L 9	56TB3-M 9	0 VDC OPTICS
*	AA543	56TB3-L 9	56TB3-K 9	0 VDC OPTICS
*	A 132R	56TB3-L10	56J05- 12	TRUNNION CDU 1/2X RSVR P2
*	AA317W	56TB3-L10	56J18-A6	TRUNNION CDU 1/2X RSVR P2
*	A 132W	56TB3-L11	56E 18	TRUNNION CDU 1/2X RSVR P3
*	AA317R	56TB3-L11	56J18-B6	TRUNNION CDU 1/2X RSVR P3
*	A 148R	56TB3-L12	56J05- 56	TRUNNION CDU 1/2X RSVR LOAD HI
*	AA318W	56TB3-L12	56J18-F3	TRUNNION CDU 1/2X RSVR LOAD HI
*	A 282R	56TB3-L13	56P06-B*	PRESSURE SENSOR +28 VDC HI
*	AA464R	56TB3-L13	56J20-A6	PRESSURE SENSOR +28 VDC HI
*	A 607R	56TB3-L14	56P10- 69	400 CPS 115 V HI
*	A 608R	56TB3-L14	56P11-N	400 CPS 115 V HI
*	AA465R	56TB3-L14	56J20-H3	400 CPS 115 V HI
	AA533	56TB3-L15	56TB3-M15	0 VDC OPTICS
*	A 436	56TB3-L15	56J09- 83	0 VDC OPTICS
*	AA552	56TB3-L15	56TB3-K15	0 VDC OPTICS
*	A 310R	56TB3-L16	56P08-G*	SCT SHAFT 1/2X RSVR ERROR LO
*	AA379R	56TB3-L16	56J19-C8	SCT SHAFT 1/2X RSVR ERROR LO
*	A 310W	56TB3-L17	56P08-I*	SCT SHAFT 1/2X RSVR ERROR HI
*	AA379W	56TB3-L17	56J19-D8	SCT SHAFT 1/2X RSVR ERROR HI
*	A 428	56TB3-L18	56J09- 99	COSECANT RELAY CONTROL
*	AA389	56TB3-L18	56J19-N5	COSECANT RELAY CONTROL
	AA521	56TB3-L19	56J21- 62	+13 VDC AGC
*	A 380	56TB3-L19	56P09- 62	+13 VDC AGC
*	AA425	56TB3-L19	56J20-C6	+13 VDC AGC
*	A 593	56TB3-L20	56TB3-D15	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 648	56TB3-L20	56P12-G	0 VDC OPTICS
*	AA 66	56TB3-L20	56J12-R6	0 VDC OPTICS
*	AA228	56TB3-L20	56J16-R5	0 VDC OPTICS
*	AA229	56TB3-L20	56J16-R6	0 VDC OPTICS
	AA563	56TB3-L21	56TB3-D15	0 VDC OPTICS
*	A 329	56TB3-L21	56P09- 66	0 VDC OPTICS
*	A 645	56TB3-L21	56P11-G	0 VDC OPTICS
*	AA282	56TB3-L21	56J17-R6	0 VDC OPTICS
*	AA407	56TB3-L21	56J20-N4	0 VDC OPTICS
	A 594	56TB3-L22	56TB3-D15	0 VDC OPTICS
*	A 429	56TB3-L22	56J09- 1	0 VDC OPTICS
*	AA365	56TB3-L22	56J19-T4	0 VDC OPTICS
*	AA367	56TB3-L22	56J19-T6	0 VDC OPTICS
*	A 285	56TB3-M 1	56P06-P	ACCEL TEMP IND SENSOR RET
*	AA269	56TB3-M 1	56J17-D5	ACCEL TEMP IND SENSOR RET
*	A 31	56TB3-M 2	56P01- 45	IMU TD RELAY C
*	AA251	56TB3-M 2	56J17-D8	IMU TD RELAY C
*	A 392	56TB3-M 3	56J09- 2	TRUNNION ENCODER PIN 8
*	AA285	56TB3-M 3	56J17-A9	TRUNNION ENCODER PIN 8
*	A 397	56TB3-M 4	56J09-104	ACCEL ZERO DEVIATION CHECK
*	AA256	56TB3-M 4	56J17-D7	ACCEL ZERO DEVIATION CHECK
*	A 441	56TB3-M 5	56J09-103	IMU IMU TEMP CONT +5 DEG GAIN CHECK
*	AA255	56TB3-M 5	56J17-D6	IMU IMU TEMP CONT +5 DEG GAIN CHECK
*	A 188	56TB3-M 6	56J08- 60	IMU FAIL LIGHT HI
*	A 334	56TB3-M 6	56P09- 48	IMU FAIL LIGHT HI
*	A 465	56TB3-M 6	56J10- 6	IMU FAIL LIGHT HI
*	A 144W	56TB3-M 7	56J05- 92	TRUNNION CDU TACH LO
*	AA315R	56TB3-M 7	56J18-B9	TRUNNION CDU TACH LO
*	A 144R	56TB3-M 8	56J05-106	TRUNNION CDU TACH HI
*	AA315L	56TB3-M 8	56J18-A9	TRUNNION CDU TACH HI
	A 144B	56TB3-M 9	SHLD A 144	0 VDC OPTICS
	A 425B	56TB3-M 9	SHLD A 425	0 VDC OPTICS
	AA315B	56TB3-M 9	SHLD AA315	0 VDC OPTICS
	AA545	56TB3-M 9	56TB3-N 9	0 VDC OPTICS
*	AA544	56TB3-M 9	56TB3-L 9	0 VDC OPTICS
*	A 425R	56TB3-M10	56J09- 10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
*	AA326W	56TB3-M10	56J18-D8	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
*	A 425W	56TB3-M11	56J09- 23	RSVR DRIVE AMP INPUT LO
*	AA326L	56TB3-M11	56J18-F9	RSVR DRIVE AMP INPUT LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 425L	56TB3-M12	56J09- 24	RSVR DRIVE AMP SHAFT SIG (RSVD) HI
*	AA326R	56TB3-M12	56J18-F8	RSVR DRIVE AMP SHAFT SIG (RSVD) HI
*	A 237W	56TB3-M13	56P03-P	PITCH ERROR BODY AND BODY OFFSET AXIS LO
*	AA289W	56TB3-M13	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
*	A 237R	56TB3-M14	56P03-R	PITCH-YAW RSVR S4
*	AA289R	56TB3-M14	56J17-C2	PITCH-YAW RSVR S4
	A 254B	56TB3-M15	SHLD A 254	0 VDC OPTICS
	A 309B	56TB3-M15	SHLD A 309	0 VDC OPTICS
	A 310B	56TB3-M15	SHLD A 310	0 VDC OPTICS
	AA534	56TB3-M15	56TB3-N15	0 VDC OPTICS
*	AA533	56TB3-M15	56TB3-L15	0 VDC OPTICS
*	A 254R	56TB3-M16	56P05-C*	SXT TRUNNION 1X RSVR ERROR HI
*	AA374W	56TB3-M16	56J19-D1	SXT TRUNNION 1X RSVR ERROR HI
*	A 254W	56TB3-M17	56P05-D*	SXT TRUNNION 1X RSVR ERROR LO
*	AA374R	56TB3-M17	56J19-D2	SXT TRUNNION 1X RSVR ERROR LO
*	A 113	56TB3-M18	56J04- 89	SHAFT CDU 16X LOAD
*	AA385	56TB3-M18	56J19-C4	SHAFT CDU 16X LOAD
	AA525	56TB3-M19	56J21- 96	+3 VDC AGC
*	A 381	56TB3-M19	56P09- 54	+3 VDC AGC
*	AA426	56TB3-M19	56J20-D6	+3 VDC AGC
	AA515	56TB3-M20	56TB3-C18	+28 VDC OPTICS
	AA558	56TB3-M20	56TB3-C19	+28 VDC OPTICS
*	A 445	56TB3-M20	56J09- 71	+28 VDC OPTICS
*	AA457	56TB3-M20	56J20-M6	+28 VDC OPTICS
*	A 29	56TB3-M21	56P01- 89	+28 VDC MDV
*	AA280	56TB3-M21	56J17-R5	+28 VDC MDV
*	AA405	56TB3-M21	56J20-M5	+28 VDC MDV
*	A 435	56TB3-M22	56J09- 51	+28 VDC MDV
*	A 507	56TB3-M22	56J10- 8	+28 VDC MDV
*	AA 82	56TB3-M22	56J12-L1	+28 VDC MDV
*	AA404	56TB3-M22	56J20-L5	+28 VDC MDV
*	A 279R	56TB3-N 1	56P06-X	IMU EMERGENCY HTR HI
*	AA265L	56TB3-N 1	56J17-M4	IMU EMERGENCY HTR HI
*	A 279W	56TB3-N 2	56P06-R	EMERGENCY HTR LO-OPER AND STBY
*	AA265R	56TB3-N 2	56J17-N4	EMERGENCY HTR LO-OPER AND STBY
	A 279B	56TB3-N 3	SHLD A 279	0 VDC IMU
	AA270B	56TB3-N 3	SHLD AA270	0 VDC IMU
*	A 592	56TB3-N 3	56TB3-R 3	0 VDC IMU
*	A 653	56TB3-N 3	56P11-F	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA295	56TB3-N 3	56J17-S3	0 VDC IMU
*	A 278W	56TB3-N 4	56P06-W	IMU CONTROL HTR LO
*	AA270L	56TB3-N 4	56J17-N1	IMU CONTROL HTR LO
*	A 278R	56TB3-N 5	56P06-V	IMU CONTROL HTR HI
*	AA270R	56TB3-N 5	56J17-P1	IMU CONTROL HTR HI
*	A 277	56TB3-N 6	56P06-Y	EMERG HTR CONT MODULE LO
*	A 402	56TB3-N 6	56J09- 90	EMERG HTR CONT MODULE LO
*	A 114R	56TB3-N 7	56J04-100	SHAFT CDU 16X RSVR COS LO P3
*	AA313R	56TB3-N 7	56J18-A5	SHAFT CDU 16X RSVR COS LO P3
*	A 114W	56TB3-N 8	56J04- 86	SHAFT CDU 16X RSVR COS HI P1
*	AA313W	56TB3-N 8	56J18-A4	SHAFT CDU 16X RSVR COS HI P1
	A 114B	56TB3-N 9	SHLD A 114	0 VDC OPTICS
	A 115B	56TB3-N 9	SHLD A 115	0 VDC OPTICS
	AA308B	56TB3-N 9	SHLD AA308	0 VDC OPTICS
	AA546	56TB3-N 9	56TB3-R 9	0 VDC OPTICS
*	AA545	56TB3-N 9	56TB3-M 9	0 VDC OPTICS
*	A 115W	56TB3-N10	56J04- 87	SHAFT CDU 16X RSVR SIN HI P2
*	AA314W	56TB3-N10	56J18-B5	SHAFT CDU 16X RSVR SIN HI P2
*	A 115R	56TB3-N11	56J04-101	SHAFT CDU 16X RSVR SIN LO P4
*	AA314R	56TB3-N11	56J18-C5	SHAFT CDU 16X RSVR SIN LO P4
*	A 108R	56TB3-N13	56J04- 66	SHAFT CDU 1/2X COS LO S4
*	A 261R	56TB3-N13	56P05-W*	SHAFT CDU 1/2X COS LO P4
*	A 313W	56TB3-N13	56P08-M*	SHAFT CDU 1/2X COS LO P2
*	AA396R	56TB3-N13	56J19-D6	SHAFT CDU 1/2X COS LO S4
*	A 108W	56TB3-N14	56J04- 56	SHAFT CDU 1/2X COS HI S2
*	A 261W	56TB3-N14	56P05-X*	SHAFT CDU 1/2X COS HI P2
*	A 313R	56TB3-N14	56P08-N*	SHAFT CDU 1/2X COS HI P4
*	AA396W	56TB3-N14	56J19-D5	SHAFT CDU 1/2X COS HI S2
	A 108B	56TB3-N15	SHLD A 108	0 VDC OPTICS
	AA535	56TB3-N15	56TB3-R15	0 VDC OPTICS
*	AA534	56TB3-N15	56TB3-M15	0 VDC OPTICS
*	A 309R	56TB3-N16	56P08-E*	SCT SHAFT TACH HI
*	AA373W	56TB3-N16	56J19-B9	SCT SHAFT TACH HI
*	A 309W	56TB3-N17	56P08-F*	SCT SHAFT TACH LO
*	AA373R	56TB3-N17	56J19-C9	SCT SHAFT TACH LO
*	A 136	56TB3-N18	56J05- 89	TRUNNION CDU 16X LOAD
*	AA384	56TB3-N18	56J19-C3	TRUNNION CDU 16X LOAD
	AA522	56TB3-N19	56J21- 63	0 VDC AGC
*	A 331	56TB3-N19	56P09- 18	0 VDC AGC

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 109R	56TB3-R12	56J04- 45	SHAFT CDU 1X P3 (S3)
*	AA328L	56TB3-R12	56J18-L6	SHAFT CDU 1X P3 (S3)
*	A 134W	56TB3-R13	56J05- 67	TRUNNION CDU 1/2X RSVR S3
*	AA386W	56TB3-R13	56J19-F9	TRUNNION CDU 1/2X RSVR S3
*	A 134R	56TB3-R14	56J05- 68	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
*	AA386R	56TB3-R14	56J19-F8	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	A 134B	56TB3-R15	SHLD A 134	0 VDC OPTICS
	A 261B	56TB3-R15	SHLD A 261	0 VDC OPTICS
	A 313B	56TB3-R15	SHLD A 313	0 VDC OPTICS
	AA553	56TB3-R15	56TB3-S15	0 VDC OPTICS
*	AA535	56TB3-R15	56TB3-N15	0 VDC OPTICS
*	A 302W	56TB3-R16	56P08-P	SCT TRUNNION TACH LO
*	AA372R	56TB3-R16	56J19-A8	SCT TRUNNION TACH LO
*	A 302R	56TB3-R17	56P08-N	SCT TRUNNION TACH HI
*	AA372W	56TB3-R17	56J19-A9	SCT TRUNNION TACH HI
*	A 305	56TB3-R18	56P08-U	SCT TRUNNION 1X RSVR LOAD
*	AA378	56TB3-R18	56J19-A7	SCT TRUNNION 1X RSVR LOAD
*	A 386W	56TB3-R19	56P09- 7	+2.5 VDC CONDITIONING HI
*	AA463W	56TB3-R19	56J20-D5	+2.5 VDC CONDITIONING HI
*	A 330	56TB3-R20	56P09- 4	+28 VDC AGC
*	AA422	56TB3-R20	56J20-H4	+28 VDC AGC
	A 236B	56TB3-S 3	SHLD A 236	0 VDC IMU
	AA265B	56TB3-S 3	SHLD AA265	0 VDC IMU
*	A 657	56TB3-S 3	56P12-D	0 VDC IMU
*	AA296	56TB3-S 3	56J17-S1	0 VDC IMU
*	AA631	56TB3-S 3	56TB3-R 3	0 VDC IMU
*	A 116L	56TB3-S 4	56J04-108	SHAFT CDU ENCODER PHASE 2
*	AA284L	56TB3-S 4	56J17-F9	SHAFT CDU ENCODER PHASE 2
	A 116B	56TB3-S 5	SHLD A 116	SHAFT CDU ENCODER COM
*	A 116R	56TB3-S 5	56J04- 94	SHAFT CDU ENCODER COM
*	AA284R	56TB3-S 5	56J17-D9	SHAFT CDU ENCODER COM
*	A 116W	56TB3-S 6	56J04-107	SHAFT CDU ENCODER PHASE 1
*	AA284W	56TB3-S 6	56J17-C9	SHAFT CDU ENCODER PHASE 1
*	A 253W	56TB3-S 7	56P05-B*	SXT AT 64X RSVR COS LO
*	AA308R	56TB3-S 7	56J18-B1	SXT AT 64X RSVR COS LO
*	A 253R	56TB3-S 8	56P05-A*	SXT AT 64X RSVR COS HI
*	AA308L	56TB3-S 8	56J18-A1	SXT AT 64X RSVR COS HI
	A 138B	56TB3-S 9	SHLD A 138	0 VDC OPTICS
	A 253B	56TB3-S 9	SHLD A 253	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA310B	56TB3-S 9	SHLD AA310	0 VDC OPTICS
	AA548	56TB3-S 9	56TB3-T 9	0 VDC OPTICS
*	AA547	56TB3-S 9	56TB3-R 9	0 VDC OPTICS
*	A 138W	56TB3-S10	56J05- 87	TRUNNION CDU 16X RSVR SIN HI P2
*	AA310L	56TB3-S10	56J18-B3	TRUNNION CDU 16X RSVR SIN HI P2
*	A 138R	56TB3-S11	56J05-101	TRUNNION CDU 16X RSVR SIN LO P4
*	AA310R	56TB3-S11	56J18-B4	TRUNNION CDU 16X RSVR SIN LO P4
*	A 109W	56TB3-S12	56J04- 35	SHAFT CDU 1X P2 (S2)
*	AA328R	56TB3-S12	56J18-L5	SHAFT CDU 1X P2 (S2)
*	A 306R	56TB3-S13	56P08-V	SCT TRUNNION 1X SIN LO
*	AA383W	56TB3-S13	56J19-G3	SCT TRUNNION 1X SIN LO
*	A 306W	56TB3-S14	56P08-W	SCT TRUNNION 1X SIN HI
*	AA383R	56TB3-S14	56J19-G2	SCT TRUNNION 1X SIN HI
	A 257B	56TB3-S15	SHLD A 257	0 VDC OPTICS
	A 260B	56TB3-S15	SHLD A 260	0 VDC OPTICS
	A 302B	56TB3-S15	SHLD A 302	0 VDC OPTICS
	AA536	56TB3-S15	56TB3-T15	0 VDC OPTICS
*	AA553	56TB3-S15	56TB3-R15	0 VDC OPTICS
*	A 260W	56TB3-S16	56P05-V*	SXT SHAFT TACH LO
*	AA371R	56TB3-S16	56J19-A2	SXT SHAFT TACH LO
*	A 260R	56TB3-S17	56P05-U*	SXT SHAFT TACH HI
*	AA371W	56TB3-S17	56J19-A3	SXT SHAFT TACH HI
*	A 264	56TB3-S18	56P05-AA	SXT SHAFT 1/2X RSVR LOAD
*	AA376	56TB3-S18	56J19-C5	SXT SHAFT 1/2X RSVR LOAD
*	A 317W	56TB3-S19	56P09- 6	0 VDC CONDITIONING
*	AA427W	56TB3-S19	56J20-C5	0 VDC CONDITIONING
*	A 386R	56TB3-S20	56P09- 21	+2.5 VDC CONDITIONING LO
*	AA463R	56TB3-S20	56J20-D4	+2.5 VDC CONDITIONING LO
	A 559	56TB3-S21	56E 6	+28 VDC IMU
	AA560	56TB3-S21	56TB3-T21	+28 VDC IMU
*	A 21	56TB3-S21	56P01- 7	+28 VDC IMU
*	AA456	56TB3-S21	56J20-K2	+28 VDC IMU
	A 237B	56TB3-T 3	SHLD A 237	0 VDC IMU
	A 591	56TB3-T 3	56TB3-R 3	0 VDC IMU
	AA635	56TB3-T 3	56TB2-V 8	0 VDC IMU
*	A 658	56TB3-T 3	56P12-E	0 VDC IMU
*	AA248	56TB3-T 3	56J17-S2	0 VDC IMU
*	AA592	56TB3-T 3	56TB2-M 6	0 VDC IMU
*	A 139W	56TB3-T 4	56J05-107	TRUNNION CDU ENCODER PHASE 1

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 382	56TB3-N19	56P09- 63	0 VDC AGC
*	AA424	56TB3-N19	56J20-K4	0 VDC AGC
*	A 64R	56TB3-N20	56J02- 20	COS AMG 1X S3
*	A 221R	56TB3-N20	56P02-L	COS AMG 1X S3
*	A 358R	56TB3-N20	56P09- 28	COS AMG 1X S3
*	AA419W	56TB3-N20	56J20-A3	COS AMG 1X S3
*	AA508L	56TB3-N20	56J22-113	COS AMG 1X S3
*	A 64W	56TB3-N21	56J02- 6	COS AMG 1X S1
*	A 221W	56TB3-N21	56P02-M	COS AMG 1X S1
*	A 358W	56TB3-N21	56P09- 40	COS AMG 1X S1
*	AA419R	56TB3-N21	56J20-B3	COS AMG 1X S1
*	AA508R	56TB3-N21	56J22-114	COS AMG 1X S1
*	A 326	56TB3-N22	56P09- 20	+28 VDC STBY
*	AA445	56TB3-N22	56J20-P3	+28 VDC STBY
	A 278B	56TB3-R 3	SHLD A 278	0 VDC IMU
	A 592	56TB3-R 3	56TB3-N 3	0 VDC IMU
	AA631	56TB3-R 3	56TB3-S 3	0 VDC IMU
*	A 591	56TB3-R 3	56TB3-T 3	0 VDC IMU
*	AA297	56TB3-R 3	56J17-S4	0 VDC IMU
*	AA466	56TB3-R 3	56TB3-H12	0 VDC IMU
*	A 236R	56TB3-R 4	56P03-N	PITCH YAW RSVR S3
*	AA247R	56TB3-R 4	56J17-D2	PITCH YAW RSVR S3
*	A 236W	56TB3-R 5	56P03-M	YAW ERROR BODY OFFSET AXIS LO
*	AA247W	56TB3-R 5	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	A 276	56TB3-R 6	56P06-N	ACCEL INDICATING SENSOR HI
*	A 395	56TB3-R 6	56J09- 97	ACCEL INDICATING SENSOR HI
*	A 248W	56TB3-R 7	56P05-N*	SXT AS 16X RSVR SIN LO
*	AA311R	56TB3-R 7	56J18-D3	SXT AS 16X RSVR SIN LO
*	A 248R	56TB3-R 8	56P05-P*	SXT AS 16X RSVR SIN HI
*	AA311W	56TB3-R 8	56J18-D2	SXT AS 16X RSVR SIN HI
	A 248B	56TB3-R 9	SHLD A 248	0 VDC OPTICS
	A 258B	56TB3-R 9	SHLD A 258	0 VDC OPTICS
	AA307B	56TB3-R 9	SHLD AA307	0 VDC OPTICS
	AA547	56TB3-R 9	56TB3-S 9	0 VDC OPTICS
*	AA546	56TB3-R 9	56TB3-N 9	0 VDC OPTICS
*	A 258R	56TB3-R10	56P05-Q*	SXT AS 16X RSVR COS LO
*	AA312W	56TB3-R10	56J18-D1	SXT AS 16X RSVR COS LO
*	A 258W	56TB3-R11	56P05-R*	SXT AS 16X RSVR COS HI
*	AA312R	56TB3-R11	56J18-C1	SXT AS 16X RSVR COS HI

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA281W	56TB3-T 4	56J17-A6	TRUNNION CDU ENCODER PHASE 1
	A 139B	56TB3-T 5	SHLD A 139	TRUNNION CDU ENCODER COM
*	A 139R	56TB3-T 5	56J05- 94	TRUNNION CDU ENCODER COM
*	AA281R	56TB3-T 5	56J17-A7	TRUNNION CDU-ENCODER COM
*	A 139L	56TB3-T 6	56J05-108	TRUNNION CDU ENCODER PHASE 2
*	AA281L	56TB3-T 6	56J17-A8	TRUNNION CDU ENCODER PHASE 2
*	A 252W	56TB3-T 7	56P05-Y	SXT AT 64X RSVR SIN HI
*	AA307R	56TB3-T 7	56J18-B2	SXT AT 64X RSVR SIN HI
*	A 252R	56TB3-T 8	56P05-Z	SXT AT 64X RSVR SIN LO
*	AA307L	56TB3-T 8	56J18-C2	SXT AT 64X RSVR SIN LO
	A 137B	56TB3-T 9	SHLD A 137	0 VDC OPTICS
	A 252B	56TB3-T 9	SHLD A 252	0 VDC OPTICS
	AA309B	56TB3-T 9	SHLD AA309	0 VDC OPTICS
	AA549	56TB3-T 9	56TB3-T15	0 VDC OPTICS
*	AA548	56TB3-T 9	56TB3-S 9	0 VDC OPTICS
*	A 137W	56TB3-T10	56J05- 86	TRUNNION CDU 16X RSVR COS HI P1
*	AA309L	56TB3-T10	56J18-A2	TRUNNION CDU 16X RSVR COS HI P1
*	A 137R	56TB3-T11	56J05-100	TRUNNION CDU 16X RSVR COS LO P3
*	AA309R	56TB3-T11	56J18-A3	TRUNNION CDU 16X RSVR COS LO P3
*	A 109L	56TB3-T12	56J04- 34	SHAFT CDU 1X P1 (S1)
*	AA328W	56TB3-T12	56J18-K6	SHAFT CDU 1X P1 (S1)
*	A 307W	56TB3-T13	56P08-Y	SCT TRUNNION 1X COS LO
*	AA382R	56TB3-T13	56J19-G1	SCT TRUNNION 1X COS LO
*	A 307R	56TB3-T14	56P08-X	SCT TRUNNION 1X COS HI
*	AA382W	56TB3-T14	56J19-H1	SCT TRUNNION 1X COS HI
	A 306B	56TB3-T15	SHLD A 306	0 VDC OPTICS
	A 307B	56TB3-T15	SHLD A 307	0 VDC OPTICS
*	A 664	56TB3-T15	56TB3-B15	0 VDC OPTICS
*	AA536	56TB3-T15	56TB3-S15	0 VDC OPTICS
*	AA549	56TB3-T15	56TB3-T 9	0 VDC OPTICS
*	A 257R	56TB3-T16	56P05-K*	SXT TRUNNION TACH HI
*	AA370W	56TB3-T16	56J19-A1	SXT TRUNNION TACH HI
*	A 257W	56TB3-T17	56P05-M*	SXT TRUNNION TACH LO
*	AA370R	56TB3-T17	56J19-B1	SXT TRUNNION TACH LO
*	A 311	56TB3-T18	56P08-H*	SCT SHAFT 1/2X RSVR LOAD
*	AA380	56TB3-T18	56J19-C7	SCT SHAFT 1/2X RSVR LOAD
*	A 317R	56TB3-T19	56P09- 5	+20 VDC CONDITIONING
*	AA427R	56TB3-T19	56J20-B5	+20 VDC CONDITIONING
	AA559	56TB3-T20	56TB3-T21	+28 VDC IMU

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INCHES
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 109R	56TB3-R12	56J04- 45	SHAFT CDU 1X P3 (S3)
*	AA328L	56TB3-R12	56J18-L6	SHAFT CDU 1X P3 (S3)
*	A 134W	56TB3-R13	56J05- 67	TRUNNION CDU 1/2X RSVR S3
*	AA386W	56TB3-R13	56J19-F9	TRUNNION CDU 1/2X RSVR S3
*	A 134R	56TB3-R14	56J05- 68	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
*	AA386R	56TB3-R14	56J19-F8	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	A 134B	56TB3-R15	SHLD A 134	0 VDC OPTICS
	A 261B	56TB3-R15	SHLD A 261	0 VDC OPTICS
	A 313B	56TB3-R15	SHLD A 313	0 VDC OPTICS
	AA553	56TB3-R15	56TB3-S15	0 VDC OPTICS
*	AA535	56TB3-R15	56TB3-N15	0 VDC OPTICS
*	A 302W	56TB3-R16	56P08-P	SCT TRUNNION TACH LO
*	AA372R	56TB3-R16	56J19-A8	SCT TRUNNION TACH LO
*	A 302R	56TB3-R17	56P08-N	SCT TRUNNION TACH HI
*	AA372W	56TB3-R17	56J19-A9	SCT TRUNNION TACH HI
*	A 305	56TB3-R18	56P08-U	SCT TRUNNION 1X RSVR LOAD
*	AA378	56TB3-R18	56J19-A7	SCT TRUNNION 1X RSVR LOAD
*	A 386W	56TB3-R19	56P09- 7	+2.5 VDC CONDITIONING HI
*	AA463W	56TB3-R19	56J20-D5	+2.5 VDC CONDITIONING HI
*	A 330	56TB3-R20	56P09- 4	+28 VDC AGC
*	AA422	56TB3-R20	56J20-H4	+28 VDC AGC
	A 236B	56TB3-S 3	SHLD A 236	0 VDC IMU
	AA265B	56TB3-S 3	SHLD AA265	0 VDC IMU
*	A 657	56TB3-S 3	56P12-D	0 VDC IMU
*	AA296	56TB3-S 3	56J17-S1	0 VDC IMU
*	AA631	56TB3-S 3	56TB3-R 3	0 VDC IMU
*	A 116L	56TB3-S 4	56J04-108	SHAFT CDU ENCODER PHASE 2.
*	AA284L	56TB3-S 4	56J17-F9	SHAFT CDU ENCODER PHASE 2
	A 116B	56TB3-S 5	SHLD A 116	SHAFT CDU ENCODER COM
*	A 116R	56TB3-S 5	56J04- 94	SHAFT CDU ENCODER COM
*	AA284R	56TB3-S 5	56J17-D9	SHAFT CDU ENCODER COM
*	A 116W	56TB3-S 6	56J04-107	SHAFT CDU ENCODER PHASE 1
*	AA284W	56TB3-S 6	56J17-C9	SHAFT CDU ENCODER PHASE 1
*	A 253W	56TB3-S 7	56P05-B*	SXT AT 64X RSVR COS LO
*	AA308R	56TB3-S 7	56J18-B1	SXT AT 64X RSVR COS LO
*	A 253R	56TB3-S 8	56P05-A*	SXT AT 64X RSVR COS HI
*	AA308L	56TB3-S 8	56J18-A1	SXT AT 64X RSVR COS HI
	A 138B	56TB3-S 9	SHLD A 138	0 VDC OPTICS
	A 253B	56TB3-S 9	SHLD A 253	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA310B	56TB3-S 9	SHLD AA310	0 VDC OPTICS
	AA548	56TB3-S 9	56TB3-T 9	0 VDC OPTICS
*	AA547	56TB3-S 9	56TB3-R 9	0 VDC OPTICS
*	A 138W	56TB3-S10	56J05- 87	TRUNNION CDU 16X RSVR SIN HI P2
*	AA310L	56TB3-S10	56J18-B3	TRUNNION CDU 16X RSVR SIN HI P2
*	A 138R	56TB3-S11	56J05-101	TRUNNION CDU 16X RSVR SIN LO P4
*	AA310R	56TB3-S11	56J18-B4	TRUNNION CDU 16X RSVR SIN LO P4
*	A 109W	56TB3-S12	56J04- 35	SHAFT CDU 1X P2 (S2)
*	AA328R	56TB3-S12	56J18-L5	SHAFT CDU 1X P2 (S2)
*	A 306R	56TB3-S13	56P08-V	SCT TRUNNION 1X SIN LO
*	AA383W	56TB3-S13	56J19-G3	SCT TRUNNION 1X SIN LO
*	A 306W	56TB3-S14	56P08-W	SCT TRUNNION 1X SIN HI
*	AA383R	56TB3-S14	56J19-G2	SCT TRUNNION 1X SIN HI
	A 257B	56TB3-S15	SHLD A 257	0 VDC OPTICS
	A 260B	56TB3-S15	SHLD A 260	0 VDC OPTICS
	A 302B	56TB3-S15	SHLD A 302	0 VDC OPTICS
	AA536	56TB3-S15	56TB3-T15	0 VDC OPTICS
*	AA553	56TB3-S15	56TB3-R15	0 VDC OPTICS
*	A 260W	56TB3-S16	56P05-V*	SXT SHAFT TACH LO
*	AA371R	56TB3-S16	56J19-A2	SXT SHAFT TACH LO
*	A 260R	56TB3-S17	56P05-U*	SXT SHAFT TACH HI
*	AA371W	56TB3-S17	56J19-A3	SXT SHAFT TACH HI
*	A 264	56TB3-S18	56P05-AA	SXT SHAFT 1/2X RSVR LOAD
*	AA376	56TB3-S18	56J19-C5	SXT SHAFT 1/2X RSVR LOAD
*	A 317W	56TB3-S19	56P09- 6	0 VDC CONDITIONING
*	AA427W	56TB3-S19	56J20-C5	0 VDC CONDITIONING
*	A 386R	56TB3-S20	56P09- 21	+2.5 VDC CONDITIONING LO
*	AA463R	56TB3-S20	56J20-D4	+2.5 VDC CONDITIONING LO
	A 559	56TB3-S21	56E 6	+28 VDC IMU
	AA560	56TB3-S21	56TB3-T21	+28 VDC IMU
*	A 21	56TB3-S21	56P01- 7	+28 VDC IMU
*	AA456	56TB3-S21	56J20-K2	+28 VDC IMU
	A 237B	56TB3-T 3	SHLD A 237	0 VDC IMU
	A 591	56TB3-T 3	56TB3-R 3	0 VDC IMU
	AA635	56TB3-T 3	56TB2-V 8	0 VDC IMU
*	A 658	56TB3-T 3	56P12-E	0 VDC IMU
*	AA248	56TB3-T 3	56J17-S2	0 VDC IMU
*	AA592	56TB3-T 3	56TB2-M 6	0 VDC IMU
*	A 139W	56TB3-T 4	56J05-107	TRUNNION CDU ENCODER PHASE 1

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA281W	56TB3-T 4	56J17-A6	TRUNNION CDU ENCODER PHASE 1
	A 139B	56TB3-T 5	SHLD A 139	TRUNNION CDU ENCODER COM
*	A 139R	56TB3-T 5	56J05- 94	TRUNNION CDU ENCODER COM
*	AA281R	56TB3-T 5	56J17-A7	TRUNNION CDU ENCODER COM
*	A 139L	56TB3-T 6	56J05-108	TRUNNION CDU ENCODER PHASE 2
*	AA281L	56TB3-T 6	56J17-A8	TRUNNION CDU ENCODER PHASE 2
*	A 252W	56TB3-T 7	56P05-Y	SXT AT 64X RSVR SIN HI
*	AA307R	56TB3-T 7	56J18-B2	SXT AT 64X RSVR SIN HI
*	A 252R	56TB3-T 8	56P05-Z	SXT AT 64X RSVR SIN LO
*	AA307L	56TB3-T 8	56J18-C2	SXT AT 64X RSVR SIN LO
	A 137B	56TB3-T 9	SHLD A 137	0 VDC OPTICS
	A 252B	56TB3-T 9	SHLD A 252	0 VDC OPTICS
	AA309B	56TB3-T 9	SHLD AA309	0 VDC OPTICS
	AA549	56TB3-T 9	56TB3-T15	0 VDC OPTICS
*	AA548	56TB3-T 9	56TB3-S 9	0 VDC OPTICS
*	A 137W	56TB3-T10	56J05- 86	TRUNNION CDU 16X RSVR COS HI P1
*	AA309L	56TB3-T10	56J18-A2	TRUNNION CDU 16X RSVR COS HI P1
*	A 137R	56TB3-T11	56J05-100	TRUNNION CDU 16X RSVR COS LO P3
*	AA309R	56TB3-T11	56J18-A3	TRUNNION CDU 16X RSVR COS LO P3
*	A 109L	56TB3-T12	56J04- 34	SHAFT CDU 1X P1 (S1)
*	AA328W	56TB3-T12	56J18-K6	SHAFT CDU 1X P1 (S1)
*	A 307W	56TB3-T13	56P08-Y	SCT TRUNNION 1X COS LO
*	AA382R	56TB3-T13	56J19-G1	SCT TRUNNION 1X COS LO
*	A 307R	56TB3-T14	56P08-X	SCT TRUNNION 1X COS HI
*	AA382W	56TB3-T14	56J19-H1	SCT TRUNNION 1X COS HI
	A 306B	56TB3-T15	SHLD A 306	0 VDC OPTICS
	A 307B	56TB3-T15	SHLD A 307	0 VDC OPTICS
*	A 664	56TB3-T15	56TB3-B15	0 VDC OPTICS
*	AA536	56TB3-T15	56TB3-S15	0 VDC OPTICS
*	AA549	56TB3-T15	56TB3-T 9	0 VDC OPTICS
*	A 257R	56TB3-T16	56P05-K*	SXT TRUNNION TACH HI
*	AA370W	56TB3-T16	56J19-A1	SXT TRUNNION TACH HI
*	A 257W	56TB3-T17	56P05-M*	SXT TRUNNION TACH LO
*	AA370R	56TB3-T17	56J19-B1	SXT TRUNNION TACH LO
*	A 311	56TB3-T18	56P08-H*	SCT SHAFT 1/2X RSVR LOAD
*	AA380	56TB3-T18	56J19-C7	SCT SHAFT 1/2X RSVR LOAD
*	A 317R	56TB3-T19	56P09- 5	+20 VDC CONDITIONING
*	AA427R	56TB3-T19	56J20-B5	+20 VDC CONDITIONING
	AA559	56TB3-T20	56TB3-T21	+28 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 244	56TB3-T20	56P03-H*	+28 VDC IMU
*	A 284	56TB3-T20	56P06-D	+28 VDC IMU
*	AA454	56TB3-T20	56J20-K1	+28 VDC IMU
*	A 327	56TB3-T21	56P09- 19	+28 VDC IMU
*	AA455	56TB3-T21	56J20-K1	+28 VDC IMU
*	AA559	56TB3-T21	56TB3-T20	+28 VDC IMU
*	AA560	56TB3-T21	56TB3-S21	+28 VDC IMU

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APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
	Ⓜ	K2	K1 REPLACES REV J WITH CHANGE K2 CHANGED PER TDRR 10942	7/14/64	W.A.P.
		L	REVISED PER TDRR 10999	5 Aug 64	JWP J.E.G.

Ⓚ1 REPLACES REV J WITH CHANGE

SEE SHEET 2 FOR REVISION STATUS OF SHEETS

REV	
SHEET	
REV STATUS OF SHEETS	REV
	SHEET

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

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ACSP PN

DRAWN A. ALDERSON DATE 12-30-63
CHECKED 4-24-64
APPROVAL 4/27/64
APPROVAL

NASA APPROVAL
MIT APPROVAL

CONTRACT

INTERCONNECTION LIST OF AGE INTERCONNECT HARNESS AND PSA END CONNECTOR ASSY

CODE IDENT NO.	SIZE		REV
	A	1014607	L

SCALE

SHEET 1 OF 121

INTERCONNECT LIST

CONDUCTOR FROM TO SIGNAL DESCRIPTION

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
1	XL	31	K	61	K	91	K	121	K
2	XL	32	K	62	K	92	K		
3	K	33	K	63	K	93	K		
4	K	34	K	64	K	94	K		
5	K	35	K	65	K	95	K		
6	K	36	K	66	K	96	K		
7	K	37	K	67	K	97	K		
8	K	38	K	68	K	98	K		
9	K	39	K	69	K	99	K		
10	K	40	K	70	K	100	K		
11	K	41	K	71	K	101	K		
12	XL	42	K	72	K	102	K		
13	K	43	K	73	K	103	K		
14	K	44	K	74	K	104	K		
15	K	45	K	75	K	105	K		
16	K	46	K	76	K	106	K		
17	K	47	K	77	K	107	K		
18	K	48	K	78	K	108	K		
19	K	49	K	79	K	109	K		
20	K	50	K	80	K	110	K		
21	K	51	K	81	K	111	K		
22	K	52	K	82	K	112	K		
23	K	53	K	83	K	113	K		
24	K	54	K	84	K	114	K		
25	K	55	K	85	K	115	K		
26	K	56	K	86	K	116	K		
27	K	57	K	87	K	117	K		
28	K	58	K	88	K	118	K		
29	K	59	K	89	K	119	K		
30	XL	60	K	90	K	120	K		

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 13B	SHLD A 13	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 14B	SHLD A 14	56E 44	AGC SIG 178 SHLD RET
*	A 15B	SHLD A 15	56E 44	AGC SIG 178 SHLD RET
*	A 16B	SHLD A 16	56E 44	AGC SIG 178 SHLD RET
*	A 23B	SHLD A 23	56TB2-S 2	OG CDU ERROR SIG RET
*	A 24B	SHLD A 24	56TB2-F 2	IG CDU ERROR SIG RET
*	A 25B	SHLD A 25	56TB2-F 7	MG CDU ERROR SIG RET
*	A 27B	SHLD A 27	56E 44	AGC SIG 178 SHLD RET
*	A 39B	SHLD A 39	56TB2-F 2	IG CDU ERROR SIG RET
*	A 40B	SHLD A 40	56TB3-H14	0 VDC IMU
*	A 41B	SHLD A 41	56TB3-H13	0 VDC IMU
*	A 42B	SHLD A 42	56TB2-G 1	IG CDU ERROR SIG RET
*	A 43B	SHLD A 43	56TB2-V 6	0 VDC IMU
*	A 44B	SHLD A 44	56TB2-D 8	0 VDC IMU
*	A 45B	SHLD A 45	56TB2-A 5	IG CDU ENCODER COM
*	A 51B	SHLD A 51	56TB2-T 7	IG CDU MDA INPUT RET
*	A 63B	SHLD A 63	56TB2-F 7	MG CDU ERROR SIG RET
*	A 64B	SHLD A 64	56E 48	0 VDC IMU
*	A 65B	SHLD A 65	56TB3-H12	0 VDC IMU
*	A 66B	SHLD A 66	56TB2-G 8	MG CDU ERROR SIG RET
*	A 67B	SHLD A 67	56TB2-V 5	0 VDC IMU
*	A 68B	SHLD A 68	56TB2-D 7	0 VDC IMU
*	A 69B	SHLD A 69	56TB2-C 6	MG CDU ENCODER COM
*	A 75B	SHLD A 75	56TB2-X 6	MG CDU MDA INPUT RET
*	A 86B	SHLD A 86	56TB2-S 2	OG CDU ERROR SIG RET
*	A 87B	SHLD A 87	56TB2-M 8	0 VDC IMU
*	A 88B	SHLD A 88	56TB2-V 8	0 VDC IMU
*	A 89B	SHLD A 89	56TB2-S 3	OG CDU ERROR SIG RET
*	A 90B	SHLD A 90	56TB2-V 4	0 VDC IMU
*	A 91B	SHLD A 91	56TB2-V 2	0 VDC IMU
*	A 92B	SHLD A 92	56TB2-A 4	OG CDU ENCODER COM
*	A 96B	SHLD A 96	56TB2-R 7	OG CDU MDA INPUT RET
*	A 107B	SHLD A 107	56TB3-H 9	0 VDC OPTICS
*	A 108B	SHLD A 108	56TB3-N15	0 VDC OPTICS
*	A 110B	SHLD A 110	56TB3-K 9	0 VDC OPTICS
*	A 111B	SHLD A 111	56TB3-G15	0 VDC OPTICS
*	A 112B	SHLD A 112	56TB3-H 9	0 VDC OPTICS
*	A 114B	SHLD A 114	56TB3-N 9	0 VDC OPTICS
*	A 115B	SHLD A 115	56TB3-N 9	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 116B	SHLD A 116	56TB3-S 5	SHAFT CDU ENCODER COM
*	A 121B	SHLD A 121	56TB3-L 9	0 VDC OPTICS
*	A 130B	SHLD A 130	56TB3-G 9	0 VDC OPTICS
*	A 131B	SHLD A 131	56TB3-K15	0 VDC OPTICS
*	A 132B	SHLD A 132	56TB3-L 9	0 VDC OPTICS
*	A 134B	SHLD A 134	56TB3-R15	0 VDC OPTICS
*	A 135B	SHLD A 135	56TB3-H 9	0 VDC OPTICS
*	A 137B	SHLD A 137	56TB3-T 9	0 VDC OPTICS
*	A 138B	SHLD A 138	56TB3-S 9	0 VDC OPTICS
*	A 139B	SHLD A 139	56TB3-T 5	TRUNNION CDU ENCODER COM
*	A 144B	SHLD A 144	56TB3-M 9	0 VDC OPTICS
*	A 155B	SHLD A 155	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 156B	SHLD A 156	56E 44	AGC SIG 178 SHLD RET
*	A 217B	SHLD A 217	56TB2-V 3	0 VDC IMU
*	A 218B	SHLD A 218	56TB2-V 2	0 VDC IMU
*	A 219B	SHLD A 219	56TB2-V 5	0 VDC IMU
*	A 220B	SHLD A 220	56TB2-D 7	0 VDC IMU
*	A 221B	SHLD A 221	56E 48	0 VDC IMU
*	A 222B	SHLD A 222	56TB3-H12	0 VDC IMU
*	A 224B	SHLD A 224	56TB1-D 7	0 VDC IMU
*	A 225B	SHLD A 225	56TB2-V 6	0 VDC IMU
*	A 226B	SHLD A 226	56TB2-D 8	0 VDC IMU
*	A 227B	SHLD A 227	56TB3-H14	0 VDC IMU
*	A 228B	SHLD A 228	56TB3-H13	0 VDC IMU
*	A 229B	SHLD A 229	56TB1-D 7	0 VDC IMU
*	A 230B	SHLD A 230	56TB1-D 8	0 VDC IMU
*	A 232B	SHLD A 232	56TB2-M 8	0 VDC IMU
*	A 233B	SHLD A 233	56TB2-V 8	0 VDC IMU
*	A 234B	SHLD A 234	56TB1-B 5	IG CDU ERROR SIG RET
*	A 235B	SHLD A 235	56TB1-A 6	MG CDU ERROR SIG RET
*	A 236B	SHLD A 236	56TB3-S 3	0 VDC IMU
*	A 237B	SHLD A 237	56TB3-T 3	0 VDC IMU
*	A 248B	SHLD A 248	56TB3-R 9	0 VDC OPTICS
*	A 252B	SHLD A 252	56TB3-T 9	0 VDC OPTICS
*	A 253B	SHLD A 253	56TB3-S 9	0 VDC OPTICS
*	A 254B	SHLD A 254	56TB3-M15	0 VDC OPTICS
*	A 255B	SHLD A 255	56TB3-H15	0 VDC OPTICS
*	A 256B	SHLD A 256	56TB3-G 9	0 VDC OPTICS
*	A 257B	SHLD A 257	56TB3-S15	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 258B	SHLD A 258	56TB3-R 9	0 VDC OPTICS
*	A 260B	SHLD A 260	56TB3-S15	0 VDC OPTICS
*	A 261B	SHLD A 261	56TB3-R15	0 VDC OPTICS
*	A 262B	SHLD A 262	56TB3-K 9	0 VDC OPTICS
*	A 263B	SHLD A 263	56TB3-H15	0 VDC OPTICS
*	A 278B	SHLD A 278	56TB3-R 3	0 VDC IMU
*	A 279B	SHLD A 279	56TB3-N 3	0 VDC IMU
*	A 289B	SHLD A 289	56TB1-S 8	0 VDC IMU
*	A 290B	SHLD A 290	56TB1-N 8	0 VDC IMU
*	A 291B	SHLD A 291	56TB1-S 6	0 VDC IMU
*	A 292B	SHLD A 292	56TB1-S 3	0 VDC IMU
*	A 293B	SHLD A 293	56TB1-N 4	0 VDC IMU
*	A 294B	SHLD A 294	56TB1-N 5	0 VDC IMU
*	A 302B	SHLD A 302	56TB3-S15	0 VDC OPTICS
*	A 304B	SHLD A 304	56TB3-H15	0 VDC OPTICS
*	A 306B	SHLD A 306	56TB3-T15	0 VDC OPTICS
*	A 307B	SHLD A 307	56TB3-T15	0 VDC OPTICS
*	A 309B	SHLD A 309	56TB3-M15	0 VDC OPTICS
*	A 310B	SHLD A 310	56TB3-M15	0 VDC OPTICS
*	A 312B	SHLD A 312	56TB3-K 9	0 VDC OPTICS
*	A 313B	SHLD A 313	56TB3-R15	0 VDC OPTICS
*	A 338B	SHLD A 338	56TB2-S 3	OG CDU ERROR SIG RET
*	A 355B	SHLD A 355	56TB3-H13	0 VDC IMU
*	A 356B	SHLD A 356	56TB3-H14	0 VDC IMU
*	A 357B	SHLD A 357	56TB3-H12	0 VDC IMU
*	A 358B	SHLD A 358	56E 48	0 VDC IMU
*	A 359B	SHLD A 359	56TB2-V 8	0 VDC IMU
*	A 360B	SHLD A 360	56TB2-M 8	0 VDC IMU
*	A 364B	SHLD A 364	56TB2-F 2	IG CDU ERROR SIG RET
*	A 365B	SHLD A 365	56TB2-F 7	MG CDU ERROR SIG RET
*	A 366B	SHLD A 366	56TB2-S 2	OG CDU ERROR SIG RET
*	A 407B	SHLD A 407	56E 44	AGC SIG 178 SHLD RET
*	A 425B	SHLD A 425	56TB3-M 9	0 VDC OPTICS
*	A 426B	SHLD A 426	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
*	A 427B	SHLD A 427	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO
*	A 433B	SHLD A 433	56E 44	AGC SIG 178 SHLD RET
*	A 434B	SHLD A 434	56E 44	AGC SIG 178 SHLD RET
*	A 437B	SHLD A 437	56E 44	AGC SIG 178 SHLD RET
	A 440A	SHLD A 440	56E 44	AGC SIG 178 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 449B	SHLD A 449	56E 44	AGC SIG 178 SHLD RET
*	A 671B	SHLD A 671	56TB3-F 8	SHAFT CDU DAC LO
*	A 672B	SHLD A 672	56TB3-F 7	TRUNNION CDU DAC LO
	AA 70A	SHLD AA 70	56J12-H1	COMPUTER 102.4 KPPS SYNC RET
*	AA 92B	SHLD AA 92	56E 27	0 VDC IMU
*	AA119B	SHLD AA119	56TB1-N 5	0 VDC IMU
*	AA122B	SHLD AA122	56TB1-N 4	0 VDC IMU
*	AA124B	SHLD AA124	56TB1-N 8	0 VDC IMU
*	AA127B	SHLD AA127	56TB1-S 4	0 VDC IMU
*	AA133B	SHLD AA133	56TB1-S 5	0 VDC IMU
*	AA136B	SHLD AA136	56TB1-S 8	0 VDC IMU
*	AA176B	SHLD AA176	56TB2-D 3	AGC SIG 178 SHLD RET
	AA197A	SHLD AA197	56J16-B1	IG CDU MDA INPUT RET
	AA202A	SHLD AA202	56J16-B3	MG CDU MDA INPUT RET
	AA214A	SHLD AA214	56J16-B5	OG CDU MDA INPUT RET
	AA226A	SHLD AA226	56E 30	0 VDC IMU
	AA227A	SHLD AA227	56E 30	0 VDC IMU
	AA232A	SHLD AA232	56E 30	0 VDC IMU
*	AA232B	SHLD AA232	56E 31	0 VDC IMU
*	AA244B	SHLD AA244	56J22- 41	
*	AA245B	SHLD AA245	56J22- 5	
*	AA246B	SHLD AA246	56J22- 8	
*	AA265B	SHLD AA265	56TB3-S 3	0 VDC IMU
*	AA270B	SHLD AA270	56TB3-N 3	0 VDC IMU
*	AA287B	SHLD AA287	56J22- 2	
*	AA288B	SHLD AA288	56J22- 11	
*	AA307B	SHLD AA307	56TB3-R 9	0 VDC OPTICS
*	AA308B	SHLD AA308	56TB3-N 9	0 VDC OPTICS
*	AA309B	SHLD AA309	56TB3-T 9	0 VDC OPTICS
*	AA310B	SHLD AA310	56TB3-S 9	0 VDC OPTICS
*	AA315B	SHLD AA315	56TB3-M 9	0 VDC OPTICS
*	AA316B	SHLD AA316	56TB3-L 9	0 VDC OPTICS
*	AA329B	SHLD AA329	56TB3-H 9	0 VDC OPTICS
*	AA331B	SHLD AA331	56TB3-K 9	0 VDC OPTICS
	AA467A	SHLD AA467	56E 46	AGC SIG 180 SHLD RET
	AA468A	SHLD AA468	56E 46	AGC SIG 180 SHLD RET
	AA469A	SHLD AA469	56E 46	AGC SIG 180 SHLD RET
	AA470A	SHLD AA470	56E 46	AGC SIG 180 SHLD RET
	AA471A	SHLD AA471	56E 46	AGC SIG 180 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA472A	SHLD AA472	56E 46	AGC SIG 180 SHLD RET
	AA475A	SHLD AA475	56E 47	AGC SIG 179 SHLD RET
	AA476A	SHLD AA476	56E 47	AGC SIG 179 SHLD RET
	AA477A	SHLD AA477	56E 47	AGC SIG 179 SHLD RET
	AA478A	SHLD AA478	56E 47	AGC SIG 179 SHLD RET
	AA479A	SHLD AA479	56E 47	AGC SIG 179 SHLD RET
	AA480A	SHLD AA480	56E 47	AGC SIG 179 SHLD RET
*	AA481B	SHLD AA481	56E 39	IG DAC MDA SIG LO
*	AA482B	SHLD AA482	56E 39	IG DAC MDA SIG LO
*	AA483B	SHLD AA483	56E 41	MG DAC MDA SIG LO
*	AA484B	SHLD AA484	56E 41	MG DAC MDA SIG LO
*	AA485B	SHLD AA485	56E 43	OG DAC MDA SIG LO
*	AA486B	SHLD AA486	56E 43	OG DAC MDA SIG LO
	AA487A	SHLD AA487	56E 57	AGC SIG 178 SHLD RET
*	AA487B	SHLD AA487	56TB2-D 3	AGC SIG 178 SHLD RET
	AA488A	SHLD AA488	56E 57	AGC SIG 178 SHLD RET
	AA489A	SHLD AA489	56E 57	AGC SIG 178 SHLD RET
*	AA490B	SHLD AA490	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA491B	SHLD AA491	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA492B	SHLD AA492	56E 71	0 VDC OPTICS
*	AA493B	SHLD AA493	56E 71	0 VDC OPTICS
	AA494A	SHLD AA494	56E 45	AGC SIG 180 SHLD RET
	AA495A	SHLD AA495	56E 45	AGC SIG 180 SHLD RET
*	AA496B	SHLD AA496	56E 71	0 VDC OPTICS
*	AA497B	SHLD AA497	56E 71	0 VDC OPTICS
	AA498A	SHLD AA498	56E 45	AGC SIG 180 SHLD RET
	AA499A	SHLD AA499	56E 45	AGC SIG 180 SHLD RET
*	AA500B	SHLD AA500	56E 27	0 VDC IMU
*	AA503B	SHLD AA503	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA504B	SHLD AA504	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA505B	SHLD AA505	56TB2-V 8	0 VDC IMU
*	AA506B	SHLD AA506	56TB2-M 8	0 VDC IMU
*	AA507B	SHLD AA507	56TB3-H12	0 VDC IMU
*	AA508B	SHLD AA508	56TB3-H14	0 VDC IMU
*	AA509B	SHLD AA509	56TB3-H13	0 VDC IMU
*	AA510B	SHLD AA510	56TB3-H14	0 VDC IMU
	AA569A	SHLD AA569	56TB2-D 3	AGC SIG 178 SHLD RET
	AA571A	SHLD AA571	56TB2-S 3	OG CDU ERROR SIG RET
*	AA639B	SHLD AA639	56E 70	AGC SIG 179 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA640B	SHLD AA640	56E 70	AGC SIG 179 SHLD RET
*	AA641B	SHLD AA641	56E 70	AGC SIG 179 SHLD RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 577R	56E 1	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	A 84R	56E 1	56J03- 1	800 CPS 28 V 1 PCT HI IMU
*	A 572R	56E 1	56J01- 1	800 CPS 28 V 1 PCT HI IMU
*	A 573L	56E 1	56J01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 573R	56E 1	56J01- 25	800 CPS 28 V 1 PCT HI IMU
*	A 574R	56E 1	56J02- 1	800 CPS 28 V 1 PCT HI IMU
*	A 575L	56E 1	56J02- 11	800 CPS 28 V 1 PCT HI IMU
*	A 575R	56E 1	56J02- 25	800 CPS 28 V 1 PCT HI IMU
*	A 576L	56E 1	56J03- 11	800 CPS 28 V 1 PCT HI IMU
*	A 576R	56E 1	56J03- 25	800 CPS 28 V 1 PCT HI IMU
	A 577W	56E 2	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	A 84W	56E 2	56J03- 14	800 CPS 28 V 1 PCT LO IMU
*	A 572W	56E 2	56J01- 14	800 CPS 28 V 1 PCT LO IMU
*	A 574W	56E 2	56J02- 14	800 CPS 28 V 1 PCT LO IMU
	A 564R	56E 3	56TB1-G 4	25.6 KC LO IMU
*	A 46W	56E 3	56J01- 60	25.6 KC LO IMU
*	A 70W	56E 3	56J02- 60	25.6 KC LO IMU
*	A 93W	56E 3	56J03- 60	25.6 KC LO IMU
	A 564W	56E 4	56TB1-H 4	25.6 KC HI IMU
*	A 46R	56E 4	56J01- 50	25.6 KC HI IMU
*	A 70R	56E 4	56J02- 50	25.6 KC HI IMU
*	A 93R	56E 4	56J03- 50	25.6 KC HI IMU
	A 577L	56E 5	56TB2-H 5	ZEROING RSVR 800 CPS
*	A 573W	56E 5	56J01- 12	ZEROING RSVR 800 CPS
*	A 575W	56E 5	56J02- 12	ZEROING RSVR 800 CPS
*	A 576W	56E 5	56J03- 12	ZEROING RSVR 800 CPS
*	A 48	56E 6	56J01- 16	+28 VDC IMU
*	A 72	56E 6	56J02- 16	+28 VDC IMU
*	A 559	56E 6	56TB3-S21	+28 VDC IMU
*	A 581	56E 6	56J03- 16	+28 VDC IMU
	A 567R	56E 7	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 578R	56E 7	56J01- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 579R	56E 7	56J02- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 580R	56E 7	56J03- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	A 557	56E 8	56TB2-D 1	+28 VDC CDU NOT LOCK
*	A 50	56E 8	56J01- 15	+28 VDC CDU NOT LOCK
*	A 74	56E 8	56J02- 15	+28 VDC CDU NOT LOCK
*	A 582	56E 8	56J03- 15	+28 VDC CDU NOT LOCK
	A 561R	56E 9	56TB1-S 1	400 CPS VAR ILLUM PWR

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 53R	56E 9	56J01- 28	400 CPS VAR ILLUM PWR
*	A 77R	56E 9	56J02- 28	400 CPS VAR ILLUM PWR
*	A 98R	56E 9	56J03- 28	400 CPS VAR ILLUM PWR
*	A 123R	56E 9	56J04- 28	400 CPS VAR ILLUM PWR
*	A 146R	56E 9	56J05- 28	400 CPS VAR ILLUM PWR
	A 561W	56E 10	56TB1-S 2	400 CPS 6 V LO
*	A 53W	56E 10	56J01- 29	400 CPS 6 V LO
*	A 77W	56E 10	56J02- 29	400 CPS 6 V LO
*	A 98W	56E 10	56J03- 29	400 CPS 6 V LO
*	A 123W	56E 10	56J04- 29	400 CPS 6 V LO
*	A 146W	56E 10	56J05- 29	400 CPS 6 V LO
	A 567W	56E 11	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 578W	56E 11	56J01- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 579W	56E 11	56J02- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 580W	56E 11	56J03- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 54	56E 12	56J01- 41	STRUCTURE GND
*	A 78	56E 12	56J02- 41	STRUCTURE GND
*	A 99	56E 12	56J03- 41	STRUCTURE GND
*	A 124	56E 12	56J04- 41	STRUCTURE GND
*	A 147	56E 12	56J05- 41	STRUCTURE GND
*	A 548	56E 12	56TB3-B20	STRUCTURE GND
	A 558W	56E 13	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 104W	56E 13	56J04- 14	800 CPS 28 V 1 PCT LO OPTICS
*	A 584R	56E 13	56J04- 25	800 CPS 28 V 1 PCT LO OPTICS
*	A 584W	56E 13	56J04- 11	800 CPS 28 V 1 PCT LO OPTICS
*	A 585R	56E 13	56J05- 4	800 CPS 28 V 1 PCT LO OPTICS
*	A 585W	56E 13	56J05- 18	800 CPS 28 V 1 PCT LO OPTICS
*	A 586W	56E 13	56J05- 14	800 CPS 28 V 1 PCT LO OPTICS
	A 558R	56E 14	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 104R	56E 14	56J04- 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 584L	56E 14	56J04- 12	800 CPS 28 V 1 PCT HI OPTICS
*	A 585L	56E 14	56J05- 17	800 CPS 28 V 1 PCT HI OPTICS
*	A 586R	56E 14	56J05- 1	800 CPS 28 V 1 PCT HI OPTICS
	A 560W	56E 16	56TB1-G 7	25.6 KC LO OPTICS
*	A 117W	56E 16	56J04- 60	25.6 KC LO OPTICS
*	A 583W	56E 16	56J05- 60	25.6 KC LO OPTICS
	A 560R	56E 17	56TB1-H 7	25.6 KC HI OPTICS
*	A 117R	56E 17	56J04- 50	25.6 KC HI OPTICS
*	A 583R	56E 17	56J05- 50	25.6 KC HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 132W	56E 18	56TB3-L11	TRUNNION CDU 1/2X RSVR P3	
*	A 133	56E 18	56J05- 11	TRUNNION CDU 1/2X RSVR P3	
*	A 149	56E 18	56J05- 25	TRUNNION CDU 1/2X RSVR P3	
	A 556	56E 19	56TB1-S 7	0 VDC IMU	
*	A 194	56E 19	56J08- 31	0 VDC IMU	
*	A 195	56E 19	56J08- 70	0 VDC IMU	
*	A 204	56E 19	56J08- 30	0 VDC IMU	
*	A 205	56E 19	56J08- 28	0 VDC IMU	
*	A 208	56E 19	56J08- 17	0 VDC IMU	
*	A 212	56E 19	56J08- 52	0 VDC IMU	
	A 549	56E 20	56TB2-D 6	0 VDC IMU	
*	A 189	56E 20	56J08- 61	0 VDC IMU	
*	A 191	56E 20	56J08- 84	0 VDC IMU	
*	A 201	56E 20	56J08- 83	0 VDC IMU	
*	A 213	56E 20	56J08- 63	0 VDC IMU	
	A 550	56E 21	56TB2-D 5	0 VDC IMU	
*	A 337	56E 21	56P09- 27	0 VDC IMU	
*	A 339	56E 21	56P09- 37	0 VDC IMU	
*	A 340	56E 21	56P09- 26	0 VDC IMU	
*	A 341	56E 21	56P09- 25	0 VDC IMU	
*	A 347	56E 21	56P09- 36	0 VDC IMU	
*	A 348	56E 21	56P09- 24	0 VDC IMU	
	A 494W	56E 22	56J21-211	COMMONED RETURNS GROUND	214B
	A 495W	56E 22	56J21-176	COMMONED RETURNS GROUND	215B
	A 496W	56E 22	56J21-143	COMMONED RETURNS GROUND	216B
	A 497W	56E 22	56J21-110	COMMONED RETURNS GROUND	217B
	A 498W	56E 22	56J21- 77	COMMONED RETURNS GROUND	218B
	A 499W	56E 22	56J21- 42	COMMONED RETURNS GROUND	219B
	A 500W	56E 22	56J21-213	COMMONED RETURNS GROUND	221B
	A 501W	56E 22	56J21-178	COMMONED RETURNS GROUND	222B
	A 502W	56E 22	56J21-145	COMMONED RETURNS GROUND	223B
	A 505W	56E 22	56J21- 5	COMMONED RETURNS GROUND	220B
*	A 554	56E 22	56E 23	COMMONED RETURNS GROUND	
	A 482W	56E 23	56J21- 81	COMMONED RETURNS GROUND	232B
	A 483W	56E 23	56J21- 7	COMMONED RETURNS GROUND	227B
	A 484W	56E 23	56J21-215	COMMONED RETURNS GROUND	228B
	A 485W	56E 23	56J21-180	COMMONED RETURNS GROUND	229B
	A 486W	56E 23	56J21-147	COMMONED RETURNS GROUND	230B
	A 487W	56E 23	56J21-114	COMMONED RETURNS GROUND	231B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 488W	56E 23	56J21- 46	COMMONED RETURNS GROUND	233B
	A 503W	56E 23	56J21-112	COMMONED RETURNS GROUND	224B
	A 504W	56E 23	56J21- 44	COMMONED RETURNS GROUND	226B
	A 506W	56E 23	56J21- 79	COMMONED RETURNS GROUND	225B
	A 554	56E 23	56E 22	COMMONED RETURNS GROUND	
	A 555	56E 23	56E 24	COMMONED RETURNS GROUND	
	A 470W	56E 24	56J21- 48	COMMONED RETURNS GROUND	244B
	A 471W	56E 24	56J21- 83	COMMONED RETURNS GROUND	242B
	A 489W	56E 24	56J21- 9	COMMONED RETURNS GROUND	234B
	A 490W	56E 24	56J21-217	COMMONED RETURNS GROUND	235B
	A 491W	56E 24	56J21-182	COMMONED RETURNS GROUND	236B
	A 492W	56E 24	56J21-149	COMMONED RETURNS GROUND	237B
	A 493W	56E 24	56J21-116	COMMONED RETURNS GROUND	238B
	A 552	56E 24	~~56E 26~~ 56J10-82	COMMONED RETURNS GROUND	330
*	A 555	56E 24	56E 23	COMMONED RETURNS GROUND	
	A 467W	56E 25	56J21- 85	COMMONED RETURNS GROUND	205B
	A 468R	56E 25	56J21- 13	COMMONED RETURNS GROUND	209B
	A 472W	56E 25	56J21-151	COMMONED RETURNS GROUND	203B
	A 510W	56E 25	56J21- 15	COMMONED RETURNS GROUND	207B
	A 511W	56E 25	56J21-118	COMMONED RETURNS GROUND	204B
	A 514W	56E 25	56J21-184	COMMONED RETURNS GROUND	202B
	A 515W	56E 25	56J21-186	COMMONED RETURNS GROUND	210B
	A 516W	56E 25	56J21-219	COMMONED RETURNS GROUND	201B
	A 517W	56E 25	56J21-221	COMMONED RETURNS GROUND	208B
	A 551	56E 25	~~56E 26~~ 56J10-69	COMMONED RETURNS GROUND	252
*	~~A 519~~	~~56E 26~~	~~56J10- 82~~	~~COMMONED RETURNS GROUND~~	~~330~~
*	~~A 551~~	~~56E 26~~	~~56E 25~~	~~COMMONED RETURNS GROUND~~	
*	~~A 552~~	~~56E 26~~	~~56E 24~~	~~COMMONED RETURNS GROUND~~	
	AA 92B	56E 27	SHLD AA 92	0 VDC IMU	
	AA500B	56E 27	SHLD AA500	0 VDC IMU	
*	AA500L	56E 27	56J21-104	0 VDC IMU	155B
*	AA608	56E 27	56TB2-D 4	0 VDC IMU	
	AA503B	56E 28	SHLD AA503	COMPUTER 3200 PPS SYNC RET	
	AA504B	56E 28	SHLD AA504	COMPUTER 3200 PPS SYNC RET	
*	AA 36	56E 28	56J11-M5	COMPUTER 3200 PPS SYNC RET	
*	AA503L	56E 28	56J21-204	COMPUTER 3200 PPS SYNC RET	152B
*	AA504L	56E 28	56J21-242	COMPUTER 3200 PPS SYNC RET	151B
	AA490B	56E 29	SHLD AA490	COMPUTER 25.6 KPPS SYNC RET	
	AA491B	56E 29	SHLD AA491	COMPUTER 25.6 KPPS SYNC RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA 69	56E 29	56J12-F2	COMPUTER 25.6 KPPS SYNC RET	
*	AA490R	56E 29	56J21-170	COMPUTER 25.6 KPPS SYNC RET	153B
*	AA491L	56E 29	56J21-137	COMPUTER 25.6 KPPS SYNC RET	154B
*	AA226A	56E 30	SHLD AA226	0 VDC IMU	
*	AA227A	56E 30	SHLD AA227	0 VDC IMU	
*	AA232A	56E 30	SHLD AA232	0 VDC IMU	
	AA232B	56E 31	SHLD AA232	0 VDC IMU	
*	AA 67	56E 31	56J12-F1	COMPUTER 800 PPS SYNC RET	
*	AA 91	56E 31	56J12-R4	0 VDC IMU	
*	AA232W	56E 31	56J16-L3	COMPUTER 800 PPS SYNC RET	
	AA129W	56E 33	56J21- 66	0 VDC IMU	142A
	AA130R	56E 33	56J21- 32	0 VDC IMU	143A
	AA131W	56E 33	56J21-239	0 VDC IMU	144A
	AA132W	56E 33	56J21-201	0 VDC IMU	145A
	AA134R	56E 33	56J21-167	0 VDC IMU	146A
	AA135W	56E 33	56J21-134	0 VDC IMU	147A
*	AA137	56E 33	56J14-R6	0 VDC IMU	
*	AA 77	56E 34	56J12-B5	0 VDC IMU	
*	AA125	56E 34	56J13-R6	0 VDC IMU	
*	AA501R	56E 34	56J21-133	0 VDC IMU	139B
*	AA502R	56E 34	56J21-100	0 VDC IMU	140B
*	AA158	56E 35	56J15-L5	COMPUTER RET	
*	AA467R	56E 35	56J21-125	COMPUTER RET	132A
*	AA468R	56E 35	56J21- 92	COMPUTER RET	133A
*	AA159	56E 36	56J15-L5	COMPUTER RET	
*	AA469R	56E 36	56J21-194	COMPUTER RET	134A
*	AA470R	56E 36	56J21-160	COMPUTER RET	135A
*	AA160	56E 37	56J15-L5	COMPUTER RET	
*	AA471R	56E 37	56J21- 94	COMPUTER RET	137A
*	AA472R	56E 37	56J21-127	COMPUTER RET	136A
*	AA164	56E 38	56J15-A5	IG DAC MDA SIG LO	
*	AA475R	56E 38	56J21- 25	IG DAC MDA SIG LO	120B
*	AA476L	56E 38	56J21- 27	IG DAC MDA SIG LO	121B
	AA481B	56E 39	SHLD AA481	IG DAC MDA SIG LO	
	AA482B	56E 39	SHLD AA482	IG DAC MDA SIG LO	
*	AA167	56E 39	56J15-A5	IG DAC MDA SIG LO	
*	AA481R	56E 39	56J21-238	IG DAC MDA SIG LO	128B
*	AA482L	56E 39	56J21-200	IG DAC MDA SIG LO	129B
*	AA165	56E 40	56J15-A7	MG DAC MDA SIG LO	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA477R	56E 40	56J21-233	MG DAC MDA SIG LO	122B
*	AA478L	56E 40	56J21-193	MG DAC MDA SIG LO	123B
	AA483B	56E 41	SHLD AA483	MG DAC MDA SIG LO	
	AA484B	56E 41	SHLD AA484	MG DAC MDA SIG LO	
*	AA168	56E 41	56J15-A7	MG DAC MDA SIG LO	
*	AA483R	56E 41	56J21-166	MG DAC MDA SIG LO	130B
*	AA484L	56E 41	56J21- 98	MG DAC MDA SIG LO	131B
*	AA166	56E 42	56J15-A9	OG DAC MDA SIG LO	
*	AA479R	56E 42	56J21- 57	OG DAC MDA SIG LO	118B
*	AA480L	56E 42	56J21- 59	OG DAC MDA SIG LO	119B
	AA485B	56E 43	SHLD AA485	OG DAC MDA SIG LO	
	AA486B	56E 43	SHLD AA486	OG DAC MDA SIG LO	
*	AA169	56E 43	56J15-A9	OG DAC MDA SIG LO	
*	AA485R	56E 43	56J21- 65	OG DAC MDA SIG LO	126B
*	AA486L	56E 43	56J21- 31	OG DAC MDA SIG LO	127B
	A 14B	56E 44	SHLD A 14	AGC SIG 178 SHLD RET	
	A 15B	56E 44	SHLD A 15	AGC SIG 178 SHLD RET	
	A 16B	56E 44	SHLD A 16	AGC SIG 178 SHLD RET	
	A 27B	56E 44	SHLD A 27	AGC SIG 178 SHLD RET	
	A 156B	56E 44	SHLD A 156	AGC SIG 178 SHLD RET	
	A 407B	56E 44	SHLD A 407	AGC SIG 178 SHLD RET	
	A 433B	56E 44	SHLD A 433	AGC SIG 178 SHLD RET	
	A 434B	56E 44	SHLD A 434	AGC SIG 178 SHLD RET	
	A 437B	56E 44	SHLD A 437	AGC SIG 178 SHLD RET	
	A 449B	56E 44	SHLD A 449	AGC SIG 178 SHLD RET	
	A 566	56E 44	56E 57	AGC SIG 178 SHLD RET	
*	A 440A	56E 44	SHLD A 440	AGC SIG 178 SHLD RET	
	AA568	56E 45	56E 46	AGC SIG 180 SHLD RET	
*	AA473	56E 45	56J21- 23	AGC SIG 180 SHLD RET	180
*	AA494A	56E 45	SHLD AA494	AGC SIG 180 SHLD RET	
*	AA495A	56E 45	SHLD AA495	AGC SIG 180 SHLD RET	
*	AA498A	56E 45	SHLD AA498	AGC SIG 180 SHLD RET	
*	AA499A	56E 45	SHLD AA499	AGC SIG 180 SHLD RET	
*	AA467A	56E 46	SHLD AA467	AGC SIG 180 SHLD RET	
*	AA468A	56E 46	SHLD AA468	AGC SIG 180 SHLD RET	
*	AA469A	56E 46	SHLD AA469	AGC SIG 180 SHLD RET	
*	AA470A	56E 46	SHLD AA470	AGC SIG 180 SHLD RET	
*	AA471A	56E 46	SHLD AA471	AGC SIG 180 SHLD RET	
*	AA472A	56E 46	SHLD AA472	AGC SIG 180 SHLD RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA568	56E 46	56E 45	AGC SIG 180 SHLD RET	
*	AA474	56E 47	56E 70	AGC SIG 179 SHLD RET	
*	AA475A	56E 47	SHLD AA475	AGC SIG 179 SHLD RET	
*	AA476A	56E 47	SHLD AA476	AGC SIG 179 SHLD RET	
*	AA477A	56E 47	SHLD AA477	AGC SIG 179 SHLD RET	
*	AA478A	56E 47	SHLD AA478	AGC SIG 179 SHLD RET	
*	AA479A	56E 47	SHLD AA479	AGC SIG 179 SHLD RET	
*	AA480A	56E 47	SHLD AA480	AGC SIG 179 SHLD RET	
	A 64B	56E 48	SHLD A 64	0 VDC IMU	
	A 221B	56E 48	SHLD A 221	0 VDC IMU	
	A 358B	56E 48	SHLD A 358	0 VDC IMU	
*	A 458	56E 48	56TB2-D 5	0 VDC IMU	
*	AA348	56E 50	56J18-H3	TRUNNION CDU DAC LO	
*	AA496R	56E 50	56J21-236	TRUNNION CDU DAC LO	114B
*	AA497L	56E 50	56J21-198	TRUNNION CDU DAC LO	115B
*	AA243W	56E 51	56J17-H6	TRUNNION CDU DAC LO	
*	AA349	56E 51	56J18-H3	TRUNNION CDU DAC LO	
*	AA498R	56E 51	56J21-231	TRUNNION CDU DAC LO	108B
*	AA499R	56E 51	56J21-191	TRUNNION CDU DAC LO	109B
*	AA346	56E 52	56J18-H2	SHAFT CDU DAC LO	
*	AA492R	56E 52	56J21-164	SHAFT CDU DAC LO	116B
*	AA493L	56E 52	56J21-131	SHAFT CDU DAC LO	117B
*	AA242W	56E 53	56J17-H4	SHAFT CDU DAC LO	
*	AA347	56E 53	56J18-H2	SHAFT CDU DAC LO	
*	AA494R	56E 53	56J21-157	SHAFT CDU DAC LO	110B
*	AA495R	56E 53	56J21-124	SHAFT CDU DAC LO	111B
	A 155R	56E 55	56TB2-F 3		
	A 156R	56E 55	56J21-229		164B
*	A 406	56E 56	56J09- 60	AGC COMMON	
*	A 415	56E 56	56J09- 42	AGC COMMON	
*	A 420	56E 56	56J09- 36	AGC COMMON	
*	A 440W	56E 56	56J21-119	AGC COMMON	101A
*	A 566	56E 57	56E 44	AGC SIG 178 SHLD RET	
*	AA487A	56E 57	SHLD AA487	AGC SIG 178 SHLD RET	
*	AA488A	56E 57	SHLD AA488	AGC SIG 178 SHLD RET	
*	AA489A	56E 57	SHLD AA489	AGC SIG 178 SHLD RET	
*	AA562	56E 57	56J21- 53	AGC SIG 178 SHLD RET	178
	A 407R	56E 58	56J21- 17		105B
	A 433R	56E 58	56J21- 87		102B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 434R	56E 58	56J21- 89		103B
	A 437R	56E 58	56J21- 55		104B
	A 449W	56E 58	56J21- 19		106B
*	A 440R	56E 58	56J21-120		101B
	AA176R	56E 59	56TB2-F 3		
*	AA488R	56E 59	56J21-189		160B
*	AA489R	56E 60	56J21-153		158B
*	AA569R	56E 60	56TB2-F 3		
	A 13R	56E 61	56TB2-F 3		
	A 14R	56E 61	56J21-155		159B
	A 15R	56E 61	56J21-223		161B
	A 16R	56E 61	56J21-227		163B
	A 27R	56E 61	56J21-225		162B
*	A 570	56E 62	56J10- 1	GROUP 2 SHIELD	245
*	A 571	56E 63	56J21-107	GROUP 2 SHIELD	245
*	A 568	56E 64	56J21-187	GROUP 3 SHIELD	250
*	A 569	56E 65	56J10- 27	GROUP 3 SHIELD	250
*	AA617	56E 66	56J11-L4	STRUCTURE GND	
*	AA618	56E 67	56J11-L4	STRUCTURE GND	
*	AA619	56E 68	56TB3-B20	STRUCTURE GND	
*	AA620	56E 69	56TB3-B20	STRUCTURE GND	
	AA474	56E 70	56E 47	AGC SIG 179 SHLD RET	
	AA639B	56E 70	SHLD AA639	AGC SIG 179 SHLD RET	
	AA640B	56E 70	SHLD AA640	AGC SIG 179 SHLD RET	
	AA641B	56E 70	SHLD AA641	AGC SIG 179 SHLD RET	
*	AA642	56E 70	56J21- 22	AGC SIG 179 SHLD RET	179
	AA492B	56E 71	SHLD AA492	0 VDC OPTICS	
	AA493B	56E 71	SHLD AA493	0 VDC OPTICS	
	AA496B	56E 71	SHLD AA496	0 VDC OPTICS	
	AA497B	56E 71	SHLD AA497	0 VDC OPTICS	
*	AA638	56E 71	56J18-T5	0 VDC OPTICS	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 572R	56J01- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 578W	56J01- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 578R	56J01- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 40W	56J01- 6	56TB3-F13	COS AIG 1X RET P1
A 41W	56J01- 7	56TB3-D14	SIN AIG 1X P2
A 573L	56J01- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 573W	56J01- 12	56E 5	ZEROING RSVR 800 CPS
A 572W	56J01- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 50	56J01- 15	56E 8	+28 VDC CDU NOT LOCK
A 48	56J01- 16	56E 6	+28 VDC IMU
A 40R	56J01- 20	56TB3-F14	COS AIG 1X P3
A 41R	56J01- 21	56TB3-D13	SIN AIG 1X RET P4
A 573R	56J01- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 53R	56J01- 28	56E 9	400 CPS VAR ILLUM PWR
A 53W	56J01- 29	56E 10	400 CPS 6 V LO
A 56	56J01- 30	56TB2-N 5	+28 VDC IMU FOR IG MDA
A 52L	56J01- 31	56TB2-L 5	IG CDU MDA OUTPUT
A 52W	56J01- 32	56TB2-L 6	IG CDU MDA OUTPUT
A 55	56J01- 34	56TB2-W 1	IG CDU 1X RSVR LOAD S1
A 39R	56J01- 35	56TB2-H 2	IG CDU 1X ERROR SIG S2
A 54	56J01- 41	56E 12	STRUCTURE GND
A 52R	56J01- 43	56TB2-K 4	0 VDC IMU
A 39W	56J01- 45	56TB2-G 2	IG CDU ERROR SIG RET
A 46R	56J01- 50	56E 4	25.6 KC HI IMU
A 38W	56J01- 57	56TB2-G 3	IG CDU ERROR SIG RET S1
A 46W	56J01- 60	56E 3	25.6 KC LO IMU
A 38R	56J01- 67	56TB2-H 3	IG CDU 1/2X ERROR SIG S3
A 43W	56J01- 86	56TB2-W 7	COS AIG 16X TO CDU
A 44W	56J01- 87	56TB2-C 8	SIN AIG 16X TO CDU
A 42W	56J01- 90	56TB2-G 1	IG CDU ERROR SIG RET
A 51W	56J01- 92	56TB2-T 7	IG CDU MDA INPUT RET
A 45R	56J01- 94	56TB2-A 5	IG CDU ENCODER COM
A 43R	56J01-100	56TB2-W 6	COS AIG 16X S3
A 44R	56J01-101	56TB2-B 8	SIN AIG 16X S4
A 42R	56J01-104	56TB2-H 1	IG CDU 16X ERROR SIG
A 51L	56J01-105	56TB2-T 6	IG CDU MDA SLEW SIG
A 51R	56J01-106	56TB2-U 6	IG CDU MDA TACH SIG
A 45W	56J01-107	56TB2-B 5	IG CDU ENCODER PHASE 1
A 45L	56J01-108	56TB2-C 5	IG CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 574R	56J02- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 579W	56J02- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 579R	56J02- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 64W	56J02- 6	56TB3-N21	COS AMG 1X S1
A 65W	56J02- 7	56TB3-C14	SIN AMG 1X
A 575L	56J02- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 575W	56J02- 12	56E 5	ZEROING RSVR 800 CPS
A 574W	56J02- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 74	56J02- 15	56E 8	+28 VDC CDU NOT LOCK
A 72	56J02- 16	56E 6	+28 VDC IMU
A 64R	56J02- 20	56TB3-N20	COS AMG 1X S3
A 65R	56J02- 21	56TB3-C13	SIN AMG 1X RET
A 575R	56J02- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 77R	56J02- 28	56E 9	400 CPS VAR ILLUM PWR
A 77W	56J02- 29	56E 10	400 CPS 6 V LO
A 80	56J02- 30	56TB2-R 5	+28 VDC IMU FOR MG MDA
A 76L	56J02- 31	56TB2-L 3	MG CDU MDA OUTPUT
A 76W	56J02- 32	56TB2-K 3	MG CDU MDA OUTPUT
A 79	56J02- 34	56TB2-X 1	MG CDU 1X RSVR LOAD
A 63R	56J02- 35	56TB2-H 7	MG CDU 1X ERROR SIG
A 78	56J02- 41	56E 12	STRUCTURE GND
A 76R	56J02- 43	56TB2-K 4	0 VDC IMU
A 63W	56J02- 45	56TB2-G 7	MG CDU ERROR SIG RET
A 70R	56J02- 50	56E 4	25.6 KC HI IMU
A 62W	56J02- 57	56TB2-G 6	MG CDU ERROR SIG RET
A 70W	56J02- 60	56E 3	25.6 KC LO IMU
A 62R	56J02- 67	56TB2-H 6	MG CDU 1/2X ERROR SIG
A 67W	56J02- 86	56TB2-U 4	COS AMG 16X TO CDU
A 68W	56J02- 87	56TB2-C 7	SIN AMG 16X TO CDU
A 66W	56J02- 90	56TB2-G 8	MG CDU ERROR SIG RET
A 75W	56J02- 92	56TB2-X 6	MG CDU MDA INPUT RET
A 69R	56J02- 94	56TB2-C 6	MG CDU ENCODER COM
A 67R	56J02-100	56TB2-U 5	COS AMG 16X S3
A 68R	56J02-101	56TB2-B 7	SIN AMG 16X S4
A 66R	56J02-104	56TB2-H 8	MG CDU 16X ERROR SIG
A 75L	56J02-105	56TB2-X 5	MG CDU MDA SLEW SIG
A 75R	56J02-106	56TB2-W 5	MG CDU MDA TACH SIG
A 69W	56J02-107	56TB2-B 6	MG CDU ENCODER PHASE 1
A 69L	56J02-108	56TB2-A 6	MG CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 84R	56J03- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 580W	56J03- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 580R	56J03- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 87W	56J03- 6	56TB2-N 7	COS AOG 1X S1
A 88W	56J03- 7	56TB2-U 8	SIN AOG 1X S4
A 576L	56J03- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 576W	56J03- 12	56E 5	ZEROING RSVR 800 CPS
A 84W	56J03- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 582	56J03- 15	56E 8	+28 VDC CDU NOT LOCK
A 581	56J03- 16	56E 6	+28 VDC IMU
A 87R	56J03- 20	56TB2-R 8	COS AOG 1X TO CDU
A 88R	56J03- 21	56TB2-T 8	SIN AOG 1X TO CDU
A 576R	56J03- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 98R	56J03- 28	56E 9	400 CPS VAR ILLUM PWR
A 98W	56J03- 29	56E 10	400 CPS 6 V LO
A 102	56J03- 30	56TB2-K 8	+28 VDC IMU FOR OG MDA
A 97L	56J03- 31	56TB2-K 6	OG CDU MDA OUTPUT
A 97W	56J03- 32	56TB2-K 5	OG CDU MDA OUTPUT
A 100	56J03- 34	56TB2-S 1	OG CDU 1X RSVR LOAD
A 86R	56J03- 35	56TB2-N 2	OG CDU 1X ERROR SIG
A 99	56J03- 41	56E 12	STRUCTURE GND
A 97R	56J03- 43	56TB2-K 4	0 VDC IMU
A 86W	56J03- 45	56TB2-R 2	OG CDU ERROR SIG RET
A 93R	56J03- 50	56E 4	25.6 KC HI IMU
A 85W	56J03- 57	56TB2-R 1	OG CDU ERROR SIG RET
A 93W	56J03- 60	56E 3	25.6 KC LO IMU
A 85R	56J03- 67	56TB2-N 1	OG CDU 1/2X ERROR SIG
A 90W	56J03- 86	56TB2-X 4	COS AOG 16X TO CDU
A 91W	56J03- 87	56TB2-X 2	SIN AOG 16X TO CDU
A 101	56J03- 89	56TB2-T 1	OG CDU 16X RSVR LOAD
A 89W	56J03- 90	56TB2-R 3	OG CDU ERROR SIG RET
A 96W	56J03- 92	56TB2-R 7	OG CDU MDA INPUT RET
A 92R	56J03- 94	56TB2-A 4	OG CDU ENCODER COM
A 90R	56J03-100	56TB2-W 4	COS AOG 16X S3
A 91R	56J03-101	56TB2-W 2	SIN AOG 16X S4
A 89R	56J03-104	56TB2-N 3	OG CDU 16X ERROR SIG
A 96L	56J03-105	56TB2-R 6	OG CDU MDA SLEW SIG
A 96R	56J03-106	56TB2-N 6	OG CDU MDA TACH SIG
A 92W	56J03-107	56TB2-B 4	OG CDU ENCODER PHASE 1

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 92L	56J03-108	56TB2-C 4	OG CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 104R	56J04- 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 599W	56J04- 2	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 599R	56J04- 3	56TB2-U 1	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 110R	56J04- 6	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
A 111R	56J04- 7	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
A 584W	56J04- 11	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 584L	56J04- 12	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 104W	56J04- 14	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 110W	56J04- 20	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
A 111W	56J04- 21	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
A 584R	56J04- 25	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 123R	56J04- 28	56E 9	400 CPS VAR ILLUM PWR
A 123W	56J04- 29	56E 10	400 CPS 6 V LO
A 122L	56J04- 31	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
A 122W	56J04- 32	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
A 109L	56J04- 34	56TB3-T12	SHAFT CDU 1X P1 (S1)
A 109W	56J04- 35	56TB3-S12	SHAFT CDU 1X P2 (S2)
A 124	56J04- 41	56E 12	STRUCTURE GND
A 122R	56J04- 43	56TB3-B17	+28 VDC OPTICS SWITCHED
A 109R	56J04- 45	56TB3-R12	SHAFT CDU 1X P3 (S3)
A 117R	56J04- 50	56E 17	25.6 KC HI OPTICS
A 108W	56J04- 56	56TB3-N14	SHAFT CDU 1/2X COS HI S2
A 107R	56J04- 57	56TB3-K11	SHAFT CDU 1/2X SIN LO S3
A 117W	56J04- 60	56E 16	25.6 KC LO OPTICS
A 108R	56J04- 66	56TB3-N13	SHAFT CDU 1/2X COS LO S4
A 107W	56J04- 67	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 114W	56J04- 86	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
A 115W	56J04- 87	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
A 113	56J04- 89	56TB3-M18	SHAFT CDU 16X LOAD
A 112W	56J04- 90	56TB3-H11	SHAFT CDU 16X ERROR SIG LO
A 121W	56J04- 92	56TB3-L 8	SHAFT CDU TACH LO
A 116R	56J04- 94	56TB3-S 5	SHAFT CDU ENCODER COM
A 114R	56J04-100	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
A 115R	56J04-101	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
A 112R	56J04-104	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
A 121R	56J04-106	56TB3-L 7	SHAFT CDU TACH HI
A 116W	56J04-107	56TB3-S 6	SHAFT CDU ENCODER PHASE 1
A 116L	56J04-108	56TB3-S 4	SHAFT CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 586R	56J05- 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 600W	56J05- 2	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 600R	56J05- 3	56TB2-U 1	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 585R	56J05- 4	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130R	56J05- 8	56TB3-G10	TRUNNION CDU 1/4X SIN HI
A 131R	56J05- 9	56TB3-F16	TRUNNION CDU 1/4X COS HI
A 131W	56J05- 10	56TB3-G16	TRUNNION CDU 1/4X COS LO
A 133	56J05- 11	56E 18	TRUNNION CDU 1/2X RSVR P3
A 132R	56J05- 12	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
A 586W	56J05- 14	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 585L	56J05- 17	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 585W	56J05- 18	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130W	56J05- 22	56TB3-F10	TRUNNION CDU 1/4X SIN LO
A 149	56J05- 25	56E 18	TRUNNION CDU 1/2X RSVR P3
A 146R	56J05- 28	56E 9	400 CPS VAR ILLUM PWR
A 146W	56J05- 29	56E 10	400 CPS 6 V LO
A 145L	56J05- 31	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
A 145W	56J05- 32	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
A 147	56J05- 41	56E 12	STRUCTURE GND
A 145R	56J05- 43	56TB3-B16	+28 VDC OPTICS SWITCHED
A 583R	56J05- 50	56E 17	25.6 KC HI OPTICS
A 148R	56J05- 56	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI
A 583W	56J05- 60	56E 16	25.6 KC LO OPTICS
A 148W	56J05- 66	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO
A 134W	56J05- 67	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
A 134R	56J05- 68	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
A 137W	56J05- 86	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
A 138W	56J05- 87	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
A 136	56J05- 89	56TB3-N18	TRUNNION CDU 16X LOAD
A 135W	56J05- 90	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
A 144W	56J05- 92	56TB3-M 7	TRUNNION CDU TACH LO
A 139R	56J05- 94	56TB3-T 5	TRUNNION CDU ENCODER COM
A 137R	56J05-100	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
A 138R	56J05-101	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
A 135R	56J05-104	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
A 144R	56J05-106	56TB3-M 8	TRUNNION CDU TACH HI
A 139W	56J05-107	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1
A 139L	56J05-108	56TB3-T 6	TRUNNION CDU ENCODER PHASE 2

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 150R	56J06- 1	56P01- 1	PITCH ATTITUDE ERROR METER +
A 150W	56J06- 2	56P01- 2	PITCH ATTITUDE ERROR METER -
A 161	56J06- 6	56P01- 6	ENTRY RELAY CONTROL RESET
A 160	56J06- 9	56P01- 9	MODE SWITCH INTERLOCK
A 154	56J06- 12	56TB1-K 7	MODE RELAY COMMON TO AGC
A 151R	56J06- 14	56P01- 14	YAW ATTITUDE ERROR METER +
A 151W	56J06- 15	56P01- 15	YAW ATTITUDE ERROR METER -
A 157	56J06- 18	56P01- 18	MODE RELAY COMMON TO D AND C ELECT
A 175	56J06- 22	56P01- 22	ATTITUDE CONTROL MODE LIGHT
A 165	56J06- 23	56P01- 23	FINE ALIGN RELAY CONTROL
A 166	56J06- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
A 167	56J06- 25	56P01- 25	ENTRY RELAY CONTROL
A 152W	56J06- 28	56P01- 28	ROLL ATTITUDE ERROR METER -
A 152R	56J06- 29	56P01- 29	ROLL ATTITUDE ERROR METER +
A 162	56J06- 34	56P01- 34	ZERO ENCODER RELAY CONTROL
A 163	56J06- 35	56P01- 35	COARSE ALIGN RELAY CONTROL
A 164	56J06- 36	56P01- 36	CDU MANUAL RELAY CONTROL
A 159	56J06- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL
A 177	56J06- 46	56P01- 46	ATTITUDE CONTROL MODE INTERLOCK
A 170	56J06- 56	56P01- 56	MANUAL ALIGN
A 155W	56J06- 68	56TB2-D 2	AGC COM
A 156W	56J06- 69	56J21-228	TRANSFER SWITCH INDICATION TO AGC 164A
A 169	56J06- 78	56TB2-L 4	0 VDC IMU
A 176	56J06- 79	56P01- 79	ENTRY MODE LIGHT
A 158	56J06- 81	56TB1-F 8	ATTIT CONT MODE COMMAND FROM AGC
A 178	56J06- 91	56TB3-B21	STRUCTURE GND
A 172	56J06- 92	56P01- 92	COARSE ALIGN MODE LIGHT
A 168	56J06- 93	56P01- 93	MODE RELAY COMMON
A 174	56J06- 94	56P01- 94	FINE ALIGN MODE LIGHT
A 171	56J06-104	56P01-104	ZERO ENCODER MODE LIGHT
A 173	56J06-105	56P01-105	CDU MANUAL MODE LIGHT
A 153W	56J06-107	56TB1-S 2	400 CPS 6 V LO
A 153R	56J06-108	56TB1-S 1	400 CPS VAR ILLUM PWR

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 208	56J08- 17	56E 19	0 VDC IMU
A 202	56J08- 18	56TB2-S 8	GIMBAL LOCK LIGHT HI
A 603K	56J08- 19	56TB1-R 2	400 CPS 6 V LO
A 205	56J08- 28	56E 19	0 VDC IMU
A 215	56J08- 29	56TB3-B21	STRUCTURE GND
A 204	56J08- 30	56E 19	0 VDC IMU
A 194	56J08- 31	56E 19	0 VDC IMU
A 207	56J08- 32	56J22- 71	+28 VDC SPACECRAFT
A 210R	56J08- 35	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
A 603W	56J08- 36	56TB1-R 2	400 CPS 6 V LO
A 203	56J08- 41	56TB3-B 4	ZERO ENCODER LIGHT HI
A 193	56J08- 42	56TB1-U 2	IMU DELAY LIGHT HI
A 206	56J08- 43	56J22- 72	MASTER CAUTION LIGHT RET
A 210W	56J08- 45	56TB3-L 6	400 CPS 0.5 V PI PHASE
A 603L	56J08- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY
A 565	56J08- 50	56TB1-F 1	SPARE FAIL LIGHT HI
A 187	56J08- 51	56TB1-H 8	ERROR DETECT LIGHT HI
A 212	56J08- 52	56E 19	0 VDC IMU
A 196	56J08- 53	56J22- 38	MASTER WARNING LIGHT RET
A 197	56J08- 54	56J22- 37	+28 VDC SPACECRAFT
A 603R	56J08- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY
A 188	56J08- 60	56TB3-M 6	IMU FAIL LIGHT HI
A 189	56J08- 61	56E 20	0 VDC IMU
A 192	56J08- 62	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 213	56J08- 63	56E 20	0 VDC IMU
A 209R	56J08- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED
A 181	56J08- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 400 CPS
A 179	56J08- 67	56TB1-G 1	+28 VDC MDV
A 182R	56J08- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC
A 195	56J08- 70	56E 19	0 VDC IMU
A 198	56J08- 71	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 200	56J08- 72	56TB3-B 3	CDU FAIL LIGHT HI
A 190	56J08- 73	56TB3-B 5	ACCEL FAIL LIGHT HI
A 209W	56J08- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED
A 184	56J08- 78	56TB2-S 7	STEP-UP-C
A 186	56J08- 79	56TB2-S 5	STEP-DOWN-C
A 182W	56J08- 81	56TB3-B12	400 CPS 26 V SLEW
A 214	56J08- 82	56TB2-D 6	0 VDC IMU
A 201	56J08- 83	56E 20	0 VDC IMU

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 191	56J08- 84	56E 20	0 VDC IMU
A 211	56J08- 92	56TB1-S 5	0 VDC IMU
A 185	56J08- 93	56TB2-S 4	STEP-DOWN-R
A 199	56J08- 95	56TB3-B14	400 CPS 26 V LO
A 183	56J08-106	56TB2-S 6	STEP-UP-R

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 429	56J09- 1	56TB3-L22	0 VDC OPTICS	
A 392	56J09- 2	56TB3-M 3	TRUNNION ENCODER PIN 8	
A 389W	56J09- 3	56J22-193	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 387W	56J09- 4	56J22-233	PITCH ATTIT IMPULSE CONTR OUTPUT UP	
A 387L	56J09- 5	56J22-232	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN	
A 388L	56J09- 6	56J22-197	YAW ATTIT IMPULSE CONTR OUTPUT LEFT	
A 388R	56J09- 7	56J22-235	YAW ATTIT IMPULSE CONTR INPUT	
A 425R	56J09- 10	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI	
A 668	56J09- 14	56TB3-F 2	SPACECRAFT LAMP TEST	
A 667	56J09- 15	56TB3-F 1	0 VDC SPACECRAFT	
A 389R	56J09- 16	56J22-230	ROLL ATTIT IMPULSE CONTR INPUT	
A 389L	56J09- 17	56J22-192	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT	
A 387R	56J09- 18	56J22-195	PITCH ATTIT IMPULSE CONTR INPUT	
A 426R	56J09- 19	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI	
A 388W	56J09- 20	56J22-198	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 391	56J09- 21	56TB3-K 4	TRUNNION ENCODER PIN 9	
A 425W	56J09- 23	56TB3-M11	RSVR DRIVE AMP INPUT LO	
A 425L	56J09- 24	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
A 437W	56J09- 25	56J21- 54	OPTICS ZERO ENCODER	104A
A 450	56J09- 26	56TB2-D 6	0 VDC IMU	
* A 453	56J09- 29	56P10- 10	GIMBAL LOCK LIGHT CONDITION LAMP TEST	
A 433W	56J09- 30	56J21- 86	MARK	102A
A 434W	56J09- 31	56J21- 88	NOT MARK	103A
A 431R	56J09- 32	56TB2-A 2	PANEL BRIGHTNESS CONTROL	
A 426W	56J09- 33	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO	
A 427W	56J09- 34	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
A 427R	56J09- 35	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
A 420	56J09- 36	56E 56	AGC COMMON	
A 449R	56J09- 37	56J21- 18	OPTICS MODE SW COMPUTER INDICATION	106A
A 670W	56J09- 38	56TB3-B17	+28 VDC OPTICS SWITCHED	
A 393W	56J09- 40	56J22-200	0 VDC FROM NAA	
A 393R	56J09- 41	56J22-237	+28 VDC FROM NAA	
A 415	56J09- 42	56E 56	AGC COMMON	
A 431W	56J09- 44	56TB2-A 1	PANEL BRIGHTNESS CONTROL	
A 604W	56J09- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY	
A 673	56J09- 47	56TB3-A10	+28 VDC OPTICS DAC POWER	
A 671W	56J09- 48	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
A 670R	56J09- 49	56TB3-B16	+28 VDC OPTICS SWITCHED	
A 393L	56J09- 50	56J22-238	ATTITUDE DISABLE SIG TO NAA	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 435	56J09- 51	56TB3-M22	+28 VDC MDV	
A 606K	56J09- 52	56P10-108	400 CPS 6 V LO	
A 606L	56J09- 53	56P10-107	400 CPS 6 V HI	
A 605R	56J09- 54	56TB1-R 1	400 CPS VAR ILLUM PWR	
A 604R	56J09- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY	
A 672W	56J09- 56	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
A 405	56J09- 58	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 404	56J09- 59	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 406	56J09- 60	56E 56	AGC COMMON	
A 606R	56J09- 61	56P10-106	400 CPS 6 V HI	
A 606W	56J09- 62	56P10- 93	400 CPS 6 V HI	
A 605K	56J09- 63	56TB1-M 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
A 605L	56J09- 64	56TB1-N 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
A 448R	56J09- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED	
A 408	56J09- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 400 CPS	
A 410	56J09- 67	56TB1-G 1	+28 VDC MDV	
A 409R	56J09- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC	
A 416W	56J09- 69	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS	
A 407W	56J09- 70	56J21- 16	SXT PWR ON INDICATION TO AGC	105A
A 445	56J09- 71	56TB3-M20	+28 VDC OPTICS	
A 394	56J09- 72	56TB3-B11	ZERO OPTICS RELAY CONTROL	
A 390	56J09- 73	56TB3-F 3	CONDITION LAMP TEST	
A 403	56J09- 74	56TB3-H 5	IMU TEMP ALARM AMP PIN 15	
A 444	56J09- 75	56TB3-K 5	IMU TEMP ALARM AMP PIN 14	
A 400	56J09- 76	56TB3-L 5	IMU TEMP CONT K2 PIN 6	
A 448W	56J09- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED	
A 414	56J09- 78	56TB2-S 7	STEP-UP-C	
A 412	56J09- 79	56TB2-S 5	STEP-DOWN-C	
A 416R	56J09- 80	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS	
A 409W	56J09- 81	56TB3-B12	400 CPS 26 V SLEW	
A 669W	56J09- 82	56TB2-U 2	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD	
A 436	56J09- 83	56TB3-L15	0 VDC OPTICS	
A 605W	56J09- 84	56TB1-K 1	MODE LAMP TEST PWR	
A 442	56J09- 85	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6	
A 398	56J09- 86	56TB3-L 1	IRIG TEMP GAIN SWITCH NC	
A 401L	56J09- 87	56TB3-H 1	IMU TEMP CONT AMP PIN 5	
A 401K	56J09- 88	56TB3-G 2	IMU TEMP CONT K2 PIN 5	
A 443	56J09- 89	56TB3-G 3	IRIG ZERO DEVIATION CHECK	
A 402	56J09- 90	56TB3-N 6	EMERG HTR CONT MODULE LO	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 451	56J09- 91	56TB3-F22	STRUCTURE GND
A 438	56J09- 92	56TB3-K 1	IMU TEMP ALARM AMP PIN 5
A 411	56J09- 93	56TB2-S 4	STEP-DOWN-R
A 439	56J09- 94	56TB3-D 1	0 VDC IMU
A 447	56J09- 95	56P10- 48	400 CPS 26 V HI
A 669R	56J09- 96	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 395	56J09- 97	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 396	56J09- 98	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
A 428	56J09- 99	56TB3-L18	COSECANT RELAY CONTROL
A 401R	56J09-100	56TB3-G 1	IMU HTR CURRENT AMP PIN 5
A 401W	56J09-101	56TB3-H 2	IMU TEMP CONT K1 PIN 3
A 399	56J09-102	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
A 441	56J09-103	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
A 397	56J09-104	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
A 446	56J09-105	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
A 413	56J09-106	56TB2-S 6	STEP-UP-R

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 570	56J10- 1	56E 62	GROUP 2 SHIELD	245
A 464	56J10- 2	56TB3-F 3	CONDITION LAMP TEST	328
A 474W	56J10- 3	56TB3-B 4	ZERO ENCODER LIGHT HI	301
A 474R	56J10- 4	56TB3-B 3	CDU FAIL LIGHT HI	302
A 474L	56J10- 5	56TB3-B 5	ACCEL FAIL LIGHT HI	303
A 465	56J10- 6	56TB3-M 6	IMU FAIL LIGHT HI	304
A 466	56J10- 7	56TB1-F 1	SPARE FAIL LIGHT HI	305
A 507	56J10- 8	56TB3-M22	+28 VDC MDV	306
A 478	56J10- 9	56TB1-H 5	AGC FAIL SIG	326
A 508	56J10- 10	56TB1-G 5	+28 VDC TO COMPUTER RELAY	327
A 475	56J10- 12	56TB1-F 8	ATTIT CONT MODE COMMAND FROM AGC	314
A 521	56J10- 13	56TB1-K 7	MODE RELAY COMMON TO AGC	315
A 503R	56J10- 14	56J21-111	OUT 0 11	224A
A 506R	56J10- 15	56J21- 78	OUT 0 12	225A
A 504R	56J10- 16	56J21- 43	OUT 0 13	226A
A 483R	56J10- 17	56J21- 6	OUT 0 14	227A
A 484R	56J10- 18	56J21-214	OUT 0 15	228A
A 487R	56J10- 19	56J21-113	ALARM 3	231A
A 471R	56J10- 20	56J21- 82	POWER SYNC	242A
A 479W	56J10- 21	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC	307
A 479L	56J10- 22	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC	308
A 480L	56J10- 23	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC	309
A 479R	56J10- 24	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC	310
A 480R	56J10- 25	56TB1-K 6	ENTRY MODE COMMAND FROM AGC	311
A 480W	56J10- 26	56TB1-K 7	MODE RELAY COMMON TO AGC	312
A 569	56J10- 27	56E 65	GROUP 3 SHIELD	250
A 497R	56J10- 28	56J21-109	OUT 0 4	217A
A 498R	56J10- 29	56J21- 76	OUT 0 5	218A
A 499R	56J10- 30	56J21- 41	OUT 0 6	219A
A 505R	56J10- 31	56J21- 4	OUT 0 7	220A
A 482R	56J10- 32	56J21- 80	ALARM 4	232A
A 488R	56J10- 33	56J21- 45	ALARM 5	233A
A 516R	56J10- 34	56J21-218	KEY CODE 1	201A
A 514R	56J10- 35	56J21-183	KEY CODE 2	202A
A 472R	56J10- 36	56J21-150	KEY CODE 3	203A
A 511R	56J10- 37	56J21-117	KEY CODE 4	204A
A 467R	56J10- 38	56J21- 84	KEY CODE 5	205A
A 510R	56J10- 39	56J21- 14	TEST ALARM	207A
A 485R	56J10- 40	56J21-179	ALARM 1	229A

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 486R	56J10- 41	56J21-146	ALARM 2	230A
	A 470R	56J10- 42	56J21- 47	TIMING (1.5 CPS)	244A
	A 490R	56J10- 43	56J21-216	ALARM 7	235A
	A 489R	56J10- 44	56J21- 8	ALARM 6	234A
	A 522	56J10- 45	56J21- 10	SPARE	248
	A 523	56J10- 46	56J21- 11	SPARE	249
	A 515R	56J10- 47	56J21-185	OR OF C1 THRU C33	210A
	A 517R	56J10- 48	56J21-220	ERROR RESET	208A
	A 468W	56J10- 49	56J21- 12	KEY RESET NAV	209A
	A 492R	56J10- 51	56J21-148	ALARM 9	237A
	A 491R	56J10- 53	56J21-181	ALARM 8	236A
	A 513	56J10- 55	56J21-174	+3 V B	240
	A 512	56J10- 56	56J21-173	GND	239
	A 477	56J10- 57	56J21-108	+13 V B	241
	A 509	56J10- 58	56J21- 39	GND	239
	A 481	56J10- 59	56J21- 40	+28 VDC AGC	243
	A 496R	56J10- 60	56J21-142	OUT 0 3	216A
	A 500R	56J10- 61	56J21-212	OUT 0 8	221A
	A 501R	56J10- 62	56J21-177	OUT 0 9	222A
	A 502R	56J10- 63	56J21-144	OUT 0 10	223A
	A 493R	56J10- 64	56J21-115	ALARM 10	238A
	A 476	56J10- 70	56J21- 3	SPARE	211
	A 473	56J10- 71	56J21- 75	SPARE	212
	A 469	56J10- 72	56J21-141	SPARE	213
	A 494R	56J10- 73	56J21-210	OUT 0 1	214A
	A 495R	56J10- 74	56J21-175	OUT 0 2	215A
	A 520	56J10- 75	56J21-209	SPARE	247
*	A ~~519~~ 552	56J10- 82	~~56E 26~~ 56E24	COMMONED RETURNS GROUND	330
*	A 551	56J10- 69	56E25	COMMONED RETURNS GROUND	252

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
AA 15W	56J11-A1	56TB2-H 2	IG CDU 1X ERROR SIG
AA 19W	56J11-A2	56TB2-H 7	MG CDU 1X ERROR SIG
AA 21W	56J11-A3	56TB2-N 2	OG CDU 1X ERROR SIG
AA 10R	56J11-A5	56J12-A2	IMU MG ERROR SIG
AA 29R	56J11-A5	56TB1-A 7	IMU MG ERROR SIG
AA 10L	56J11-A6	56J12-B1	IMU OG ERROR SIG
AA 29L	56J11-A6	56TB1-A 8	IMU OG ERROR SIG
AA 15R	56J11-B1	56TB2-G 2	IG CDU ERROR SIG RET
AA 16W	56J11-B1	56TB1-B 5	IG CDU ERROR SIG RET
AA 19R	56J11-B2	56TB2-G 7	MG CDU ERROR SIG RET
AA 20W	56J11-B2	56TB1-A 6	MG CDU ERROR SIG RET
AA 11R	56J11-B3	56J17-B1	OG CDU ERROR SIG RET
AA 21R	56J11-B3	56TB2-R 2	OG CDU ERROR SIG RET
AA 10K	56J11-B5	56J12-B2	IMU GIMBAL AND GYRO ERROR SIG LO
AA 29K	56J11-B5	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
AA 10W	56J11-B6	56J12-A1	IMU IG AND Y GYRO ERROR SIG
AA 29W	56J11-B6	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
AA 16R	56J11-C1	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR
AA 20R	56J11-C2	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR
AA 11W	56J11-C3	56J17-A1	OG CDU ATTITUDE STEERING ERROR
AA 30W	56J11-D5	56TB1-D 4	IG TORQUE MOTOR RET
AA 30R	56J11-D6	56TB1-D 3	IG TORQUE MOTOR HI
AA 23R	56J11-F1	56TB1-C 4	IG ADA
AA 42W	56J11-F3	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
AA 32R	56J11-F6	56TB1-A 4	MG TORQUE MOTOR HI
AA 23K	56J11-G1	56TB1-C 3	OG ADA
AA 23W	56J11-G2	56TB1-B 3	0 VDC IMU
AA 24	56J11-G2	56J11-P6	0 VDC IMU
AA 42R	56J11-G3	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
AA 32W	56J11-G6	56TB1-A 3	MG TORQUE MOTOR RET
AA 23L	56J11-H1	56TB1-B 4	MG ADA
AA 34W	56J11-H5	56TB1-B 2	OG TORQUE MOTOR RET
AA 34R	56J11-H6	56TB1-A 2	OG TORQUE MOTOR HI
AA 9W	56J11-L1	56J12-H2	3200 CPS 2 V HI
AA 28W	56J11-L1	56TB1-D 2	3200 CPS 2 V HI
AA 9R	56J11-L2	56J12-K2	3200 CPS 2 V LO
AA 28K	56J11-L2	56TB1-C 2	3200 CPS 2 V LO
AA 35	56J11-L3	56TB1-D 6	COARSE ALIGN RELAY CONTROL
AA 7	56J11-L4	56J12-K3	STRUCTURE GND

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA617	56J11-L4	56E 66	STRUCTURE GND
	AA618	56J11-L4	56E 67	STRUCTURE GND
*	AA503R	56J11-L6	56J21-203	COMPUTER 3200 PPS OUT OF PHASE SYNC 152A
	AA 28R	56J11-M1	56TB1-D 2	3200 CPS 2 V HI
	AA 28L	56J11-M2	56TB1-C 2	3200 CPS 2 V LO
	AA 36	56J11-M5	56E 28	COMPUTER 3200 PPS SYNC RET.
	AA 37	56J11-M5	56J11-P3	0 VDC IMU
*	AA504R	56J11-M6	56J21-241	COMPUTER 3200 PPS IN PHASE SYNC 151A
	AA 12R	56J11-N1	56J17-P2	3200 CPS 20 V CT
	AA 12L	56J11-N2	56J17-R2	3200 CPS 20 V LO
	AA610	56J11-N3	56J12-P4	COMPUTER 12.8 KPPS SYNC
	AA 5R	56J11-N4	56J12-P3	800 CPS 28 V 1 PCT LO IMU
	AA 5W	56J11-N5	56J12-N3	800 CPS 28 V 1 PCT HI IMU
	AA 14	56J11-N6	56J13-P6	-28 VDC
	AA 27	56J11-N6	56TB1-D 5	-28 VDC
	AA 12W	56J11-P1	56J17-N2	3200 CPS 20 V HI
	AA 38	56J11-P2	56J11-R3	0 VDC IMU
	AA 39	56J11-P3	56J11-R3	0 VDC IMU
*	AA 37	56J11-P3	56J11-M5	0 VDC IMU
	AA 18	56J11-P4	56J11-R4	0 VDC IMU
	AA 22	56J11-P4	56J11-P5	0 VDC IMU
*	AA 22	56J11-P5	56J11-P4	0 VDC IMU
	AA 26	56J11-P6	56J11-R6	0 VDC IMU
	AA 46	56J11-P6	56TB1-S 3	0 VDC IMU
*	AA 24	56J11-P6	56J11-G2	0 VDC IMU
	AA 41	56J11-R1	56J11-R2	0 VDC IMU
	AA 44	56J11-R1	56TB2-M 2	0 VDC IMU
	AA 45	56J11-R2	56TB2-M 3	0 VDC IMU
*	AA 41	56J11-R2	56J11-R1	0 VDC IMU
	AA 43	56J11-R3	56TB2-M 1	0 VDC IMU
*	AA 38	56J11-R3	56J11-P2	0 VDC IMU
*	AA 39	56J11-R3	56J11-P3	0 VDC IMU
	AA 17	56J11-R4	56J11-R5	0 VDC IMU
*	AA 18	56J11-R4	56J11-P4	0 VDC IMU
	AA 31	56J11-R5	56J11-R6	0 VDC IMU
*	AA 17	56J11-R5	56J11-R4	0 VDC IMU
	AA 33	56J11-R6	56J11-S6	0 VDC IMU
*	AA 26	56J11-R6	56J11-P6	0 VDC IMU
*	AA 31	56J11-R6	56J11-R5	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA 2	56J11-S1	56J20-L1	+28 VDC IMU
	AA 40	56J11-S1	56J11-S2	+28 VDC IMU
	AA 3	56J11-S2	56J20-L2	+28 VDC IMU
*	AA 40	56J11-S2	56J11-S1	+28 VDC IMU
	AA 13	56J11-S3	56J17-R1	+28 VDC STBY
	AA 1	56J11-S4	56J15-S6	+28 VDC IMU
	AA 6	56J11-S4	56J12-S5	+28 VDC IMU
	AA 25	56J11-S4	56J11-S5	+28 VDC IMU
	AA 4	56J11-S5	56J20-K2	+28 VDC IMU
*	AA 25	56J11-S5	56J11-S4	+28 VDC IMU
*	AA 33	56J11-S6	56J11-R6	0 VDC IMU

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA 10W	56J12-A1	56J11-B6	IMU IG AND Y GYRO ERROR SIG	
*	AA 10R	56J12-A2	56J11-A5	IMU MG ERROR SIG	
	AA 75	56J12-A5	56J13-D2	X PIP EPROR MONITOR	
	AA 76	56J12-A6	56J13-F2	Y PIP ERROR MONITOR	
*	AA 10L	56J12-B1	56J11-A6	IMU OG ERROR SIG	
*	AA 10K	56J12-B2	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA 77	56J12-B5	56E 34	0 VDC IMU	
	AA 47	56J12-B6	56J14-H6	Z PIP ERROR MONITOR	
*	AA232L	56J12-D1	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	
*	AA232R	56J12-D2	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	
	AA641L	56J12-D4	56J21- 60	ACCEL FAIL	138A
	AA640L	56J12-D5	56J21-158	CDU FAIL	124A
	AA639L	56J12-D6	56J21- 28	IMU FAIL	141A
	AA 67	56J12-F1	56E 31	COMPUTER 800 PPS SYNC RET	
	AA 68	56J12-F1	56J12-F2	COMPUTER 800 PPS SYNC RET	
	AA 69	56J12-F2	56E 29	COMPUTER 25.6 KPPS SYNC RET	
*	AA 68	56J12-F2	56J12-F1	COMPUTER 800 PPS SYNC RET	
	AA 97	56J12-F3	56J17-M3	0 VDC SPACECRAFT	
	AA641R	56J12-F4	56J21- 61	ACCEL FAIL RET	138B
	AA640R	56J12-F5	56J21-159	CDU FAIL RET	124B
	AA639R	56J12-F6	56J21- 29	IMU FAIL RET	141B
*	AA490L	56J12-G1	56J21-169	COMPUTER 25.6 KPPS IN PHASE SYNC	153A
*	AA491R	56J12-G2	56J21-136	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA 74	56J12-G3	56J22-244	ERROR DETECT LIGHT MAIN PANEL	
	AA 53	56J12-G4	56J20-L6	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP	
	AA 59	56J12-G5	56J16-R2	0 VDC IMU	
	AA 71	56J12-G5	56J12-R5	0 VDC IMU	
	AA 58	56J12-G6	56J16-N3	OG CDU FAILURE INDICATION	
	AA 70R	56J12-H1	56J21- 71	COMPUTER 102.4 KPPS SYNC RET	156B
*	AA 70A	56J12-H1	SHLD AA 70	COMPUTER 102.4 KPPS SYNC RET	
	AA 48W	56J12-H2	56J15-S4	3200 CPS 2 V HI	
*	AA 9W	56J12-H2	56J11-L1	3200 CPS 2 V HI	
	AA 52W	56J12-H4	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 62	56J12-H4	56J12-N2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 56	56J12-H5	56J16-M2	IG CDU FAILURE INDICATION	
	AA 57	56J12-H6	56J16-M3	MG CDU FAILURE INDICATION	
	AA 70L	56J12-K1	56J21- 70	COMPUTER 102.4 KPPS SYNC	156A
	AA 48R	56J12-K2	56J15-R4	3200 CPS 2 V LO	
*	AA 9R	56J12-K2	56J11-L2	3200 CPS 2 V LO	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA 72	56J12-K3	56J13-C6	STRUCTURE GND	
*	AA 7	56J12-K3	56J11-L4	STRUCTURE GND	
	AA 52R	56J12-K4	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
	AA 73L	56J12-K6	56J14-R2	+12, +120 VDC RET GYRO	
	AA 82	56J12-L1	56TB3-M22	+28 VDC MDV	
	AA 83	56J12-L2	56TB1-H 8	ERROR DETECT LIGHT HI	
	AA 95R	56J12-L5	56J13-R3	+32 VDC RET GYRO	
	AA 73R	56J12-L6	56J14-S2	+120 VDC GYRO	
	AA 80	56J12-M1	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI	
	AA 81	56J12-M1	56J21- 36	AGC POWER SUPPLY FAIL SIG HI	157A
	AA 78	56J12-M3	56TB1-H 5	AGC FAIL SIG	
	AA 79	56J12-M4	56TB1-G 5	+28 VDC TO COMPUTER RELAY	
	AA 95W	56J12-M5	56J13-S3	+32 VDC GYRO	
	AA 73W	56J12-M6	56J14-S3	+12 VDC GYRO	
	AA 61	56J12-N1	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 62	56J12-N2	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 49W	56J12-N3	56J15-P6	800 CPS 28 V 1 PCT HI IMU	
*	AA 5W	56J12-N3	56J11-N5	800 CPS 28 V 1 PCT HI IMU	
	AA 64W	56J12-N4	56TB1-H 4	25.6 KC HI IMU	
	AA 65	56J12-N4	56J12-N5	25.6 KC HI IMU	
	AA 50W	56J12-N5	56J15-N6	25.6 KC HI IMU	
*	AA 65	56J12-N5	56J12-N4	25.6 KC HI IMU	
	AA 63R	56J12-N6	56TB1-G 7	25.6 KC LO OPTICS	
	AA 94R	56J12-N6	56J17-N3	25.6 KC LO OPTICS	
	AA643	56J12-N6	56J12-R6	0 VDC OPTICS	
	AA 60L	56J12-P1	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 61	56J12-P1	56J12-N1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
	AA 60W	56J12-P2	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
	AA 49R	56J12-P3	56J15-P5	800 CPS 28 V 1 PCT LO IMU	
*	AA 5R	56J12-P3	56J11-N4	800 CPS 28 V 1 PCT LO IMU	
	AA 92L	56J12-P4	56J17-R3	COMPUTER 12.8 KPPS SYNC	
	AA 92R	56J12-P4	56J17-R3	COMPUTER 12.8 KPPS SYNC	
*	AA610	56J12-P4	56J11-N3	COMPUTER 12.8 KPPS SYNC	
	AA 50R	56J12-P5	56J15-N5	25.6 KC LO IMU	
	AA 64R	56J12-P5	56TB1-G 4	25.6 KC LO IMU	
	AA644	56J12-P5	56J12-R3	0 VDC IMU	
	AA 63W	56J12-P6	56TB1-H 7	25.6 KC HI OPTICS	
	AA 94W	56J12-P6	56J17-P3	25.6 KC HI OPTICS	
	AA 60R	56J12-R1	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA 89	56J12-R2	56J12-R3	0 VDC IMU
	AA 99	56J12-R2	56TB1-N 5	0 VDC IMU
	AA 90	56J12-R3	56J12-R4	0 VDC IMU
*	AA 89	56J12-R3	56J12-R2	0 VDC IMU
*	AA644	56J12-R3	56J12-P5	0 VDC IMU
	AA 91	56J12-R4	56E 31	0 VDC IMU
	AA100	56J12-R4	56TB1-N 8	0 VDC IMU
*	AA 90	56J12-R4	56J12-R3	0 VDC IMU
	AA 96	56J12-R5	56J13-R6	0 VDC IMU
	AA 98	56J12-R5	56TB1-S 6	0 VDC IMU
*	AA 71	56J12-R5	56J12-G5	0 VDC IMU
	AA 66	56J12-R6	56TB3-L20	0 VDC OPTICS
*	AA643	56J12-R6	56J12-N6	0 VDC OPTICS
	AA 54	56J12-S1	56J20-M1	+28 VDC IMU
	AA 87	56J12-S1	56J12-S3	+28 VDC IMU
	AA 55	56J12-S2	56J20-M2	+28 VDC IMU
	AA 88	56J12-S2	56J12-S4	+28 VDC IMU
*	AA 87	56J12-S3	56J12-S1	+28 VDC IMU
*	AA 88	56J12-S4	56J12-S2	+28 VDC IMU
*	AA 6	56J12-S5	56J11-S4	+28 VDC IMU
	AA 51	56J12-S6	56J20-N5	+28 VDC OPTICS

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA118W	56J13-A1	56TB1-M 7	X PIP ERROR HI	
	AA121W	56J13-A3	56TB1-M 3	Y PIP ERROR HI	
	AA104	56J13-A6	56J14-A6	X GYRO DC DIFF AMP OUTPUT	
	AA118R	56J13-B1	56TB1-M 6	X PIP ERROR LO	
	AA121R	56J13-B3	56TB1-N 2	Y PIP ERROR LO	
	AA106	56J13-C6	56J14-H5	STRUCTURE GND	
*	AA 72	56J13-C6	56J12-K3	STRUCTURE GND	
	AA114	56J13-D1	56J15-L4	P X	
	AA120	56J13-D2	56TB1-L 2	X PIP ERROR MONITOR	
*	AA 75	56J13-D2	56J12-A5	X PIP ERROR MONITOR	
	AA116	56J13-D3	56J15-L3	P Y	
	AA124R	56J13-D6	56TB1-M 8	X GYRO TORQUE +	
	AA115	56J13-F1	56J15-M4	N X	
	AA123	56J13-F2	56TB1-M 2	Y PIP ERROR MONITOR	
*	AA 76	56J13-F2	56J12-A6	Y PIP ERROR MONITOR	
	AA117	56J13-F3	56J15-M3	N Y	
	AA124W	56J13-F6	56TB1-L 8	X GYRO TORQUE RET	
	AA124L	56J13-G6	56TB1-L 7	X GYRO TORQUE -	
	AA119R	56J13-H1	56TB1-M 5	X PIP TORQUE +	
	AA103	56J13-H6	56J14-G1	X GYRO CAL DUMMY	
	AA119W	56J13-K1	56TB1-L 6	X PIP TORQUE RET	
	AA105W	56J13-K6	56J14-H1	X GYRO TERNARY CUR SW TORQUE +	
	AA119L	56J13-L1	56TB1-L 5	X PIP TORQUE -	
	AA122R	56J13-L3	56TB1-L 4	Y PIP TORQUE +	
	AA105R	56J13-L6	56J14-K1	X GYRO TERNARY CUR SW TORQUE -	
	AA122W	56J13-M3	56TB1-L 3	Y PIP TORQUE RET	
	AA122L	56J13-N3	56TB1-M 4	Y PIP TORQUE -	
	AA101	56J13-N5	56J14-H3	PIPA INTERROGATE PULSE	
*	AA501W	56J13-N5	56J21-132	PIPA INTERROGATE PULSE	139A
	AA102	56J13-N6	56J14-K3	PIPA SWITCHING PULSE	
*	AA502W	56J13-N6	56J21- 99	PIPA SWITCHING PULSE	140A
	AA113	56J13-P6	56J14-P6	-28 VDC	
*	AA 14	56J13-P6	56J11-N6	-28 VDC	
	AA112R	56J13-R1	56J14-R2	+12, +120 VDC RET GYRO	
	AA109R	56J13-R2	56J14-R1	+120 VDC RET PIP	
	AA110R	56J13-R3	56J14-R5	+32 VDC RET GYRO	
*	AA 95R	56J13-R3	56J12-L5	+32 VDC RET GYRO	
	AA111R	56J13-R4	56J14-R4	+32 VDC RET PIP	
	AA108	56J13-R6	56J14-R6	0 VDC IMU	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA125	56J13-R6	56E 34	0 VDC IMU
*	AA 96	56J13-R6	56J12-R5	0 VDC IMU
	AA112W	56J13-S1	56J14-S2	+120 VDC GYRO
	AA109W	56J13-S2	56J14-S1	+120 VDC PIP
	AA110W	56J13-S3	56J14-S5	+32 VDC GYRO
*	AA 95W	56J13-S3	56J12-M5	+32 VDC GYRO
	AA111W	56J13-S4	56J14-S4	+32 VDC PIP
	AA107	56J13-S6	56J14-S6	+28 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA126W	56J14-A1	56TB1-T 5	Z PIP ERROR HI	
	AA126R	56J14-A2	56TB1-T 4	Z PIP ERROR LO	
*	AA104	56J14-A6	56J13-A6	X GYRO DC DIFF AMP OUTPUT	
	AA143	56J14-C1	56J15-N2	+ SET X GYRO CAGE	
	AA144	56J14-C2	56J15-P2	- SET X GYRO CAGE	
	AA141	56J14-C3	56J15-N3	+ SET Y GYRO CAGE	
	AA142	56J14-C4	56J15-P3	- SET Y GYRO CAGE	
	AA139	56J14-C5	56J15-N4	+ SET Z GYRO CAGE	
	AA140	56J14-C6	56J15-P4	- SET Z GYRO CAGE	
	AA129R	56J14-D1	56J21- 67	+ DX GYRO RATE	142B
	AA130W	56J14-D2	56J21- 33	- DX GYRO RATE	143B
	AA131R	56J14-D3	56J21-240	+ DY GYRO RATE	144B
	AA132R	56J14-D4	56J21-202	- DY GYRO RATE	145B
	AA134W	56J14-D5	56J21-168	+ DZ GYRO RATE	146B
	AA135R	56J14-D6	56J21-135	- DZ GYRO RATE	147B
	AA148	56J14-F6	56J15-L2	P Z	
*	AA103	56J14-G1	56J13-H6	X GYRO CAL DUMMY	
	AA149	56J14-G6	56J15-M2	N Z	
*	AA105W	56J14-H1	56J13-K6	X GYRO TERNARY CUR SW TORQUE +	
	AA138	56J14-H3	56J15-L1	PIPA INTERROGATE PULSE	
*	AA101	56J14-H3	56J13-N5	PIPA INTERROGATE PULSE	
	AA145	56J14-H4	56J15-M1	GYRO DATA PULSE	
	AA151	56J14-H5	56J15-K3	STRUCTURE GND	
*	AA106	56J14-H5	56J13-C6	STRUCTURE GND	
	AA128	56J14-H6	56TB1-T 7	Z PIP ERROR MONITOR	
*	AA 47	56J14-H6	56J12-B6	Z PIP ERROR MONITOR	
*	AA105R	56J14-K1	56J13-L6	X GYRO TERNARY CUR SW TORQUE -	
	AA146	56J14-K3	56J15-N1	PIPA SWITCHING PULSE	
*	AA102	56J14-K3	56J13-N6	PIPA SWITCHING PULSE	
	AA147	56J14-K4	56J15-P1	GYRO RESET PULSE	
	AA136R	56J14-L6	56TB1-T 8	Z GYRO TORQUE +	
	AA133R	56J14-M1	56TB1-T 6	Y GYRO TORQUE +	
	AA133L	56J14-M2	56TB1-U 6	Y GYRO TORQUE -	
	AA133W	56J14-M3	56TB1-U 5	Y GYRO TORQUE RET	
	AA136L	56J14-M6	56TB1-U 8	Z GYRO TORQUE -	
	AA136W	56J14-N6	56TB1-U 7	Z GYRO TORQUE RET	
	AA127R	56J14-P1	56TB1-U 4	Z PIP TORQUE +	
	AA127L	56J14-P2	56TB1-U 3	Z PIP TORQUE -	
	AA127W	56J14-P3	56TB1-T 3	Z PIP TORQUE RET	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA113	56J14-P6	56J13-P6	-28 VDC
	AA150R	56J14-R1	56J15-R5	+120 VDC RET PIP
*	AA109R	56J14-R1	56J13-R2	+120 VDC RET PIP
*	AA 73L	56J14-R2	56J12-K6	+12, +120 VDC RET GYRO
*	AA112R	56J14-R2	56J13-R1	+12, +120 VDC RET GYRO
	AA154R	56J14-R4	56J17-S5	+32 VDC RET PIP
*	AA111R	56J14-R4	56J13-R4	+32 VDC RET PIP
*	AA110R	56J14-R5	56J13-R3	+32 VDC RET GYRO
	AA137	56J14-R6	56E 33	0 VDC IMU
	AA153	56J14-R6	56J15-R2	0 VDC IMU
*	AA108	56J14-R6	56J13-R6	0 VDC IMU
	AA150W	56J14-S1	56J15-S5	+120 VDC PIP
*	AA109W	56J14-S1	56J13-S2	+120 VDC PIP
*	AA 73R	56J14-S2	56J12-L6	+120 VDC GYRO
*	AA112W	56J14-S2	56J13-S1	+120 VDC GYRO
*	AA 73W	56J14-S3	56J12-M6	+12 VDC GYRO
	AA154W	56J14-S4	56J17-T5	+32 VDC PIP
*	AA111W	56J14-S4	56J13-S4	+32 VDC PIP
*	AA110W	56J14-S5	56J13-S3	+32 VDC GYRO
	AA152	56J14-S6	56J15-S2	+28 VDC IMU
*	AA107	56J14-S6	56J13-S6	+28 VDC IMU

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA155W	56J15-A1	56TB1-C 8	Z GYRO ERROR SIG	
	AA155R	56J15-A2	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG	
*	AA488L	56J15-A3	56J21-188	MANUAL CDU MODE INDICATION TO AGC	160A
	AA180R	56J15-A4	56J16-B2	IG DAC MDA SIG HI	
	AA164	56J15-A5	56E 38	IG DAC MDA SIG LO	
	AA167	56J15-A5	56E 39	IG DAC MDA SIG LO	
	AA180W	56J15-A5	56J16-B1	IG DAC MDA SIG LO	
	AA181R	56J15-A6	56J16-B4	MG DAC MDA SIG HI	
	AA165	56J15-A7	56E 40	MG DAC MDA SIG LO	
	AA168	56J15-A7	56E 41	MG DAC MDA SIG LO	
	AA181W	56J15-A7	56J16-B3	MG DAC MDA SIG LO	
	AA182R	56J15-A8	56J16-B6	OG DAC MDA SIG HI	
	AA166	56J15-A9	56E 42	OG DAC MDA SIG LO	
	AA169	56J15-A9	56E 43	OG DAC MDA SIG LO	
	AA182W	56J15-A9	56J16-B5	OG DAC MDA SIG LO	
	AA155L	56J15-B1	56TB1-C 7	X GYRO ERROR SIG	
	AA155K	56J15-B2	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA176L	56J15-B3	56TB2-D 2	AGC COM	
*	AA475L	56J15-B4	56J21- 24	IG ENCODER + DELTA THETA	120A
*	AA481L	56J15-B5	56J21-237	IG CDU + DELTA THETA COMMAND	128A
*	AA477L	56J15-B6	56J21-232	MG ENCODER + DELTA THETA	122A
*	AA483L	56J15-B7	56J21-165	MG CDU + DELTA THETA COMMAND	130A
*	AA479L	56J15-B8	56J21- 56	OG ENCODER + DELTA THETA	118A
*	AA485L	56J15-B9	56J21- 64	OG CDU + DELTA THETA COMMAND	126A
	AA161R	56J15-C1	56TB2-A 5	IG CDU ENCODER COM	
	AA161W	56J15-C2	56TB2-B 5	IG CDU ENCODER PHASE 1	
	AA163L	56J15-C3	56TB2-C 4	OG CDU ENCODER PHASE 2	
*	AA476R	56J15-C4	56J21- 26	IG ENCODER - DELTA THETA	121A
*	AA482R	56J15-C5	56J21-199	IG CDU - DELTA THETA COMMAND	129A
*	AA478R	56J15-C6	56J21-192	MG ENCODER - DELTA THETA	123A
*	AA484R	56J15-C7	56J21- 97	MG CDU - DELTA THETA COMMAND	131A
*	AA480R	56J15-C8	56J21- 58	OG ENCODER - DELTA THETA	119A
*	AA486R	56J15-C9	56J21- 30	OG CDU - DELTA THETA COMMAND	127A
	AA161L	56J15-D1	56TB2-C 5	IG CDU ENCODER PHASE 2	
	AA162R	56J15-D2	56TB2-A 6	MG CDU ENCODER PHASE 2	
	AA163R	56J15-D3	56TB2-A 4	OG CDU ENCODER COM	
	AA163W	56J15-D4	56TB2-B 4	OG CDU ENCODER PHASE 1	
	AA171R	56J15-D7	56TB2-B 8	SIN AIG 16X S4	
	AA171W	56J15-D8	56TB2-A 8	SIN AIG 16X S2	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA172L	56J15-D9	56TB2-C 7	SIN AMG 16X TO CDU	
	AA162W	56J15-F1	56TB2-B 6	MG CDU ENCODER PHASE 1	
	AA162L	56J15-F2	56TB2-C 6	MG CDU ENCODER COM	
	AA171L	56J15-F7	56TB2-C 8	SIN AIG 16X TO CDU	
	AA172W	56J15-F8	56TB2-A 7	SIN AMG 16X S2	
	AA172R	56J15-F9	56TB2-B 7	SIN AMG 16X S4	
	AA170	56J15-H4	56TB2-C 1	FINE ALIGN RELAY CONTROL	
	AA184	56J15-H4	56J16-L1	FINE ALIGN RELAY CONTROL	
	AA178	56J15-H5	56J20-H4	+28 VDC AGC	
	AA187	56J15-K3	56J16-N4	STRUCTURE GND	
*	AA151	56J15-K3	56J14-H5	STRUCTURE GND	
*	AA471L	56J15-K4	56J21- 95	- DELTA V Z	137B
*	AA472L	56J15-K5	56J21-128	+ DELTA V Z	136B
*	AA470L	56J15-K6	56J21-161	- DELTA V Y	135B
*	AA138	56J15-L1	56J14-H3	PIPA INTERROGATE PULSE	
*	AA148	56J15-L2	56J14-F6	P Z	
*	AA116	56J15-L3	56J13-D3	P Y	
*	AA114	56J15-L4	56J13-D1	P X	
	AA158	56J15-L5	56E 35	COMPUTER RET	
	AA159	56J15-L5	56E 36	COMPUTER RET	
	AA160	56J15-L5	56E 37	COMPUTER RET	
*	AA469L	56J15-L6	56J21-195	+ DELTA V Y	134B
*	AA145	56J15-M1	56J14-H4	GYRO DATA PULSE	
*	AA149	56J15-M2	56J14-G6	N Z	
*	AA117	56J15-M3	56J13-F3	N Y	
*	AA115	56J15-M4	56J13-F1	N X	
*	AA467L	56J15-M5	56J21-126	+ DELTA V X	132B
*	AA468L	56J15-M6	56J21- 93	- DELTA V X	133B
*	AA146	56J15-N1	56J14-K3	PIPA SWITCHING PULSE	
*	AA143	56J15-N2	56J14-C1	+ SET X GYRO CAGE	
*	AA141	56J15-N3	56J14-C3	+ SET Y GYRO CAGE	
*	AA139	56J15-N4	56J14-C5	+ SET Z GYRO CAGE	
*	AA 50R	56J15-N5	56J12-P5	25.6 KC LO IMU	
*	AA 50W	56J15-N6	56J12-N5	25.6 KC HI IMU	
	AA157W	56J15-P1	56J21-102	GYRO RESET PULSE	148B
*	AA147	56J15-P1	56J14-K4	GYRO RESET PULSE	
*	AA144	56J15-P2	56J14-C2	- SET X GYRO CAGE	
*	AA142	56J15-P3	56J14-C4	- SET Y GYRO CAGE	
*	AA140	56J15-P4	56J14-C6	- SET Z GYRO CAGE	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA185R	56J15-P5	56J16-S3	800 CPS 28 V 1 PCT LO IMU	
*	AA 49R	56J15-P5	56J12-P3	800 CPS 28 V 1 PCT LO IMU	
	AA185W	56J15-P6	56J16-S4	800 CPS 28 V 1 PCT HI IMU	
*	AA 49W	56J15-P6	56J12-N3	800 CPS 28 V 1 PCT HI IMU	
	AA156	56J15-R1	56TB2-C 2	BACKUP MODE RELAY CONTROL	
	AA157R	56J15-R2	56J21-101	0 VDC IMU	148A
	AA637	56J15-R2	56TB2-F 4	0 VDC IMU	
*	AA153	56J15-R2	56J14-R6	0 VDC IMU	
*	AA 48R	56J15-R4	56J12-K2	3200 CPS 2 V LO	
	AA188R	56J15-R5	56J17-L4	+120 VDC RET PIP	
*	AA150R	56J15-R5	56J14-R1	+120 VDC RET PIP	
	AA177	56J15-R6	56TB2-D 1	+28 VDC CDU NOT LOCK	
	AA173	56J15-S1	56TB2-B 2	ZERO ENCODER RELAY CONTROL	
	AA183	56J15-S1	56J16-L2	ZERO ENCODER RELAY CONTROL	
	AA179	56J15-S2	56J20-K1	+28 VDC IMU	
*	AA152	56J15-S2	56J14-S6	+28 VDC IMU	
	AA174	56J15-S3	56TB2-B 1	LOCK CDU RELAY CONTROL	
	AA175	56J15-S3	56J22-227	LOCK CDU RELAY CONTROL	
*	AA 48W	56J15-S4	56J12-H2	3200 CPS 2 V HI	
	AA188W	56J15-S5	56J17-L5	+120 VDC PIP	
*	AA150W	56J15-S5	56J14-S1	+120 VDC PIP	
	AA186	56J15-S6	56J16-S2	+28 VDC IMU	
*	AA 1	56J15-S6	56J11-S4	+28 VDC IMU	

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SCALE - NONE	REV LTR K	SHEET 43

MIL 2064-4-64

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA197R	56J16-A1	56TB2-U 6	IG CDU MDA TACH SIG	
	AA197W	56J16-A2	56TB2-T 6	IG CDU MDA SLEW SIG	
	AA202R	56J16-A3	56TB2-W 5	MG CDU MDA TACH SIG	
	AA202W	56J16-A4	56TB2-X 5	MG CDU MDA SLEW SIG	
	AA214R	56J16-A5	56TB2-N 6	OG CDU MDA TACH SIG	
	AA214W	56J16-A6	56TB2-R 6	OG CDU MDA SLEW SIG	
*	AA489L	56J16-A7	56J21-152	ZERO ENCODER MODE INDICATION TO AGC	158A
	AA205W	56J16-A8	56TB2-U 7	SIN AOG 1X S2	
	AA205R	56J16-A9	56TB2-U 8	SIN AOG 1X S4	
	AA197L	56J16-B1	56TB2-T 7	IG CDU MDA INPUT RET	
*	AA180W	56J16-B1	56J15-A5	IG DAC MDA SIG LO	
*	AA197A	56J16-B1	SHLD AA197	IG CDU MDA INPUT RET	
*	AA180R	56J16-B2	56J15-A4	IG DAC MDA SIG HI	
	AA202L	56J16-B3	56TB2-X 6	MG CDU MDA INPUT RET	
*	AA181W	56J16-B3	56J15-A7	MG DAC MDA SIG LO	
*	AA202A	56J16-B3	SHLD AA202	MG CDU MDA INPUT RET	
*	AA181R	56J16-B4	56J15-A6	MG DAC MDA SIG HI	
	AA214L	56J16-B5	56TB2-R 7	OG CDU MDA INPUT RET	
*	AA182W	56J16-B5	56J15-A9	OG DAC MDA SIG LO	
*	AA214A	56J16-B5	SHLD AA214	OG CDU MDA INPUT RET	
*	AA182R	56J16-B6	56J15-A8	OG DAC MDA SIG HI	
*	AA569L	56J16-B7	56TB2-D 2	AGC COM	
	AA204W	56J16-B8	56TB2-N 8	COS AOG 1X S3	
	AA205L	56J16-B9	56TB2-T 8	SIN AOG 1X TO CDU	
	AA196W	56J16-C1	56TB2-H 1	IG CDU 16X ERROR SIG	
	AA195W	56J16-C2	56TB2-H 2	IG CDU 1X ERROR SIG	
	AA201W	56J16-C3	56TB2-H 8	MG CDU 16X ERROR SIG	
	AA200W	56J16-C4	56TB2-H 7	MG CDU 1X ERROR SIG	
	AA208R	56J16-C5	56TB2-N 3	OG CDU 16X ERROR SIG	
	AA207W	56J16-C6	56TB2-N 2	OG CDU 1X ERROR SIG	
	AA204R	56J16-C8	56TB2-N 7	COS AOG 1X S1	
	AA204L	56J16-C9	56TB2-R 8	COS AOG 1X TO CDU	
	AA194W	56J16-D1	56TB2-H 3	IG CDU 1/2X ERROR SIG	
	AA194R	56J16-D2	56TB2-G 3	IG CDU ERROR SIG RET	
	AA195R	56J16-D2	56TB2-G 2	IG CDU ERROR SIG RET	
	AA196R	56J16-D2	56TB2-G 1	IG CDU ERROR SIG RET	
	AA199W	56J16-D3	56TB2-H 6	MG CDU 1/2X ERROR SIG	
	AA199R	56J16-D4	56TB2-G 6	MG CDU ERROR SIG RET	
	AA200R	56J16-D4	56TB2-G 7	MG CDU ERROR SIG RET	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA201R	56J16-D4	56TB2-G 8	MG CDU ERROR SIG RET	
	AA206W	56J16-D5	56TB2-N 1	OG CDU 1/2X ERROR SIG	
	AA206R	56J16-D6	56TB2-R 1	OG CDU ERROR SIG RET	
	AA207R	56J16-D6	56TB2-R 2	OG CDU ERROR SIG RET	
	AA208W	56J16-D6	56TB2-R 3	OG CDU ERROR SIG RET	
	AA209R	56J16-D7	56TB2-W 3	COS AOG 16X S1	
	AA213W	56J16-D8	56TB2-X 3	SIN AOG 16X S2	
	AA213R	56J16-D9	56TB2-W 2	SIN AOG 16X S4	
	AA216	56J16-F2	56TB2-W 1	IG CDU 1X RSVR LOAD	
	AA217	56J16-F4	56TB2-X 1	MG CDU 1X RSVR LOAD	
	AA219	56J16-F5	56TB2-T 1	OG CDU 16X RSVR LOAD	
	AA218	56J16-F6	56TB2-S 1	OG CDU 1X RSVR LOAD	
	AA209W	56J16-F7	56TB2-W 4	COS AOG 16X S3	
	AA209L	56J16-F8	56TB2-X 4	COS AOG 16X TO CDU	
	AA213L	56J16-F9	56TB2-X 2	SIN AOG 16X TO CDU	
	AA230W	56J16-G1	56TB2-W 6	COS AIG 16X S3	
	AA230L	56J16-G2	56TB2-W 7	COS AIG 16X TO CDU	
	AA231W	56J16-G3	56TB2-U 5	COS AMG 16X S3	
	AA231L	56J16-G4	56TB2-U 4	COS AMG 16X TO CDU	
	AA230R	56J16-H1	56TB2-X 7	COS AIG 16X S1	
	AA231R	56J16-H3	56TB2-T 5	COS AMG 16X S1	
	AA220	56J16-L1	56J22-228	FINE ALIGN RELAY CONTROL	
*	AA184	56J16-L1	56J15-H4	FINE ALIGN RELAY CONTROL	
*	AA183	56J16-L2	56J15-S1	ZERO ENCODER RELAY CONTROL	
	AA226L	56J16-L3	56J21- 35	COMPUTER 800 PPS SYNC RET	150B
	AA227L	56J16-L3	56J21- 69	COMPUTER 800 PPS SYNC RET	149B
	AA232W	56J16-L3	56E 31	COMPUTER 800 PPS SYNC RET	
	AA226R	56J16-L4	56J21- 34	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
	AA232L	56J16-L4	56J12-D1	COMPUTER 800 PPS OUT OF PHASE SYNC	
	AA221	56J16-M1	56TB2-R 4	ENTRY RELAY CONTROL	
*	AA 56	56J16-M2	56J12-H5	IG CDU FAILURE INDICATION	
*	AA 57	56J16-M3	56J12-H6	MG CDU FAILURE INDICATION	
	AA227R	56J16-M4	56J21- 68	COMPUTER 800 PPS IN PHASE SYNC	149A
	AA232R	56J16-M4	56J12-D2	COMPUTER 800 PPS IN PHASE SYNC	
	AA215W	56J16-N1	56TB2-K 6	OG CDU MDA OUTPUT	
	AA215R	56J16-N2	56TB2-K 5	OG CDU MDA OUTPUT	
*	AA 58	56J16-N3	56J12-G6	OG CDU FAILURE INDICATION	
	AA234	56J16-N4	56J17-L6	STRUCTURE GND	
*	AA187	56J16-N4	56J15-K3	STRUCTURE GND	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA191R	56J16-N5	56J20-L3	800 CPS 28 V 1 PCT LO OPTICS
	AA224R	56J16-N5	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
	AA233R	56J16-N5	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA192R	56J16-N6	56J20-M4	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA225R	56J16-N6	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA198R	56J16-P1	56TB2-L 6	IG CDU MDA OUTPUT
	AA223	56J16-P2	56TB2-K 4	0 VDC IMU
	AA203R	56J16-P3	56TB2-K 3	MG CDU MDA OUTPUT
	AA222W	56J16-P4	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
	AA191W	56J16-P5	56J20-K3	800 CPS 28 V 1 PCT HI OPTICS
	AA224W	56J16-P5	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
	AA233W	56J16-P5	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA192W	56J16-P6	56J20-L4	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA225W	56J16-P6	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA198W	56J16-R1	56TB2-L 5	IG CDU MDA OUTPUT
*	AA 59	56J16-R2	56J12-G5	0 VDC IMU
	AA203W	56J16-R3	56TB2-L 3	MG CDU MDA OUTPUT
	AA222K	56J16-R4	56TB2-H 5	ZEROING RSVR 800 CPS
	AA228	56J16-R5	56TB3-L20	0 VDC OPTICS
	AA229	56J16-R6	56TB3-L20	0 VDC OPTICS
	AA210	56J16-S1	56TB2-N 5	+28 VDC IMU FOR IG MDA
	AA193	56J16-S2	56J20-K2	+28 VDC IMU
*	AA186	56J16-S2	56J15-S6	+28 VDC IMU
	AA222L	56J16-S3	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	AA185R	56J16-S3	56J15-P5	800 CPS 28 V 1 PCT LO IMU
	AA222R	56J16-S4	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	AA185W	56J16-S4	56J15-P6	800 CPS 28 V 1 PCT HI IMU
	AA189	56J16-S5	56J20-N5	+28 VDC OPTICS
	AA190	56J16-S6	56J20-N6	+28 VDC OPTICS
	AA211	56J16-T1	56TB2-R 5	+28 VDC IMU FOR MG MDA
	AA212	56J16-T2	56TB2-K 8	+28 VDC IMU FOR OG MDA

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 11W	56J17-A1	56J11-C3	OG CDU ATTITUDE STEERING ERROR
*	AA571L	56J17-A2	56TB2-N 3	OG CDU 16X ERROR SIG
	AA287L	56J17-A3	56J22- 1	ROLL ERROR BODY OFFSET AXIS HI
	AA244L	56J17-A4	56J22- 3	ROLL ERROR BODY AXIS HI
	AA281W	56J17-A6	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1
	AA281R	56J17-A7	56TB3-T 5	TRUNNION CDU ENCODER COM
	AA281L	56J17-A8	56TB3-T 6	TRUNNION CDU ENCODER PHASE 2
	AA285	56J17-A9	56TB3-M 3	TRUNNION ENCODER PIN 8
*	AA 11R	56J17-B1	56J11-B3	OG CDU ERROR SIG RET
*	AA571R	56J17-B2	56TB2-R 3	OG CDU ERROR SIG RET
	AA287R	56J17-B3	56J22- 39	ROLL ERROR BODY OFFSET AXIS LO
	AA244R	56J17-B4	56J22- 4	ROLL ERROR BODY AXIS LO
	AA268	56J17-B5	56TB3-L 3	IRIG TEMP CONT SENSOR RET
	AA267	56J17-B6	56TB3-L 4	IRIG TEMP CONT SENSOR HI
	AA252	56J17-B7	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
	AA253	56J17-B8	56TB3-G 3	IRIG ZERO DEVIATION CHECK
	AA286	56J17-B9	56TB3-K 4	TRUNNION ENCODER PIN 9
	AA288R	56J17-C1	56J22- 10	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289W	56J17-C1	56TB3-M13	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289R	56J17-C2	56TB3-M14	PITCH-YAW RSVR S4
	AA246L	56J17-C3	56J22- 45	YAW ERROR BODY OFFSET AXIS HI
	AA245L	56J17-C4	56J22- 6	YAW ERROR BODY AXIS HI
	AA266	56J17-C5	56TB3-K 3	IRIG TEMP IND SENSOR RET
	AA276	56J17-C6	56TB3-H 4	IRIG TEMP IND SENSOR HI
	AA254	56J17-C7	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6
	AA290	56J17-C8	56TB3-L 1	IRIG TEMP GAIN SWITCH NC
	AA284W	56J17-C9	56TB3-S 6	SHAFT CDU ENCODER PHASE 1
	AA288L	56J17-D1	56J22- 48	PITCH ERROR BODY AND BODY OFFSET AXIS HI
	AA247R	56J17-D2	56TB3-R 4	PITCH YAW RSVR S3
	AA246R	56J17-D3	56J22- 46	YAW ERROR BODY OFFSET AXIS LO
	AA247W	56J17-D3	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
	AA245R	56J17-D4	56J22- 43	YAW ERROR BODY AXIS LO
	AA269	56J17-D5	56TB3-M 1	ACCEL TEMP IND SENSOR RET
	AA255	56J17-D6	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
	AA256	56J17-D7	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
	AA251	56J17-D8	56TB3-M 2	IMU TD RELAY C
	AA284R	56J17-D9	56TB3-S 5	SHAFT CDU ENCODER COM
	AA636	56J17-F2	56TB3-D 6	TEMPERATURE CONTROL SIG LO
	AA274	56J17-F3	56TB3-D 5	HTR CURRENT (TELEMETRY)

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA273	56J17-F4	56TB3-C 5	IRIG TEMP (TELEMETRY)
	AA272	56J17-F5	56TB3-D 4	ACCEL TEMP (TELEMETRY)
	AA271	56J17-F6	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
	AA257	56J17-F7	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
	AA249	56J17-F8	56TB3-L 2	IMU TD RELAY NO
	AA284L	56J17-F9	56TB3-S 4	SHAFT CDU ENCODER PHASE 2
	AA261	56J17-G1	56TB3-K 5	IMU TEMP ALARM AMP PIN 14
	AA262	56J17-G2	56TB3-H 5	IMU TEMP ALARM AMP PIN 15
	AA242R	56J17-G4	56J18-L1	SHAFT CDU ENCODER + DELTA THETA
	AA243R	56J17-G6	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA
	AA259	56J17-H1	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
	AA260	56J17-H2	56TB3-K 1	IMU TEMP ALARM AMP PIN 5
	AA242W	56J17-H4	56E 53	SHAFT CDU DAC LO
	AA243W	56J17-H6	56E 51	TRUNNION CDU DAC LO
	AA242L	56J17-K4	56J18-K1	SHAFT CDU ENCODER - DELTA THETA
	AA243L	56J17-K6	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA
	AA263	56J17-L1	56TB3-L 5	IMU TEMP CONT K2 PIN 6
	AA293	56J17-L3	56J22-243	IMU TEMP LIGHT (MAIN PANEL)
*	AA188R	56J17-L4	56J15-R5	+120 VDC RET PIP
*	AA188W	56J17-L5	56J15-S5	+120 VDC PIP
	AA241	56J17-L6	56J18-R5	STRUCTURE GND
*	AA234	56J17-L6	56J16-N4	STRUCTURE GND
	AA264	56J17-M1	56TB3-D 1	0 VDC IMU
	AA277	56J17-M2	56TB3-G 5	IMU TEMP SENSOR COM
	AA278	56J17-M3	56TB3-F 1	0 VDC SPACECRAFT
	AA292	56J17-M3	56J22-206	0 VDC SPACECRAFT
*	AA 97	56J17-M3	56J12-F3	0 VDC SPACECRAFT
	AA265L	56J17-M4	56TB3-N 1	IMU EMERGENCY HTR HI
	AA258W	56J17-M5	56TB3-H 2	IMU TEMP CONT K1 PIN 3
	AA258R	56J17-M6	56TB3-H 1	IMU TEMP CONT AMP PIN 5
	AA270L	56J17-N1	56TB3-N 4	IMU CONTROL HTR LO
*	AA 12W	56J17-N2	56J11-P1	3200 CPS 20 V HI
*	AA 94R	56J17-N3	56J12-N6	25.6 KC LO OPTICS
	AA265R	56J17-N4	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY
	AA258L	56J17-N5	56TB3-G 2	IMU TEMP CONT K2 PIN 5
	AA258K	56J17-N6	56TB3-G 1	IMU HTR CURRENT AMP PIN 5
	AA270R	56J17-P1	56TB3-N 5	IMU CONTROL HTR HI
*	AA 12R	56J17-P2	56J11-N1	3200 CPS 20 V CT
*	AA 94W	56J17-P3	56J12-P6	25.6 KC HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA250R	56J17-P4	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA275	56J17-P5	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI	
	AA235	56J17-P6	56TB3-F 3	CONDITION LAMP TEST	
*	AA 13	56J17-R1	56J11-S3	+28 VDC STBY	
*	AA 12L	56J17-R2	56J11-N2	3200 CPS 20 V LO	
*	AA 92L	56J17-R3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
*	AA 92R	56J17-R3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
*	AA500R	56J17-R3	56J21-103	COMPUTER 12.8 KPPS SYNC	155A
	AA250W	56J17-R4	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA280	56J17-R5	56TB3-M21	+28 VDC MDV	
	AA282	56J17-R6	56TB3-L21	0 VDC OPTICS	
	AA283	56J17-R6	56J17-S6	0 VDC OPTICS	
	AA291	56J17-S1	56J17-S2	0 VDC IMU	
	AA296	56J17-S1	56TB3-S 3	0 VDC IMU	
	AA248	56J17-S2	56TB3-T 3	0 VDC IMU	
*	AA291	56J17-S2	56J17-S1	0 VDC IMU	
	AA295	56J17-S3	56TB3-N 3	0 VDC IMU	
	AA297	56J17-S4	56TB3-R 3	0 VDC IMU	
*	AA154R	56J17-S5	56J14-R4	+32 VDC RET PIP	
*	AA283	56J17-S6	56J17-R6	0 VDC OPTICS	
	AA238	56J17-T1	56J20-P3	+28 VDC STBY	
	AA294	56J17-T1	56J17-T2	+28 VDC STBY	
	AA239	56J17-T2	56J20-P4	+28 VDC STBY	
*	AA294	56J17-T2	56J17-T1	+28 VDC STBY	
	AA237	56J17-T3	56J20-M2	+28 VDC IMU	
	AA236	56J17-T4	56J20-M1	+28 VDC IMU	
*	AA154W	56J17-T5	56J14-S4	+32 VDC PIP	
	AA240	56J17-T6	56J18-S1	+28 VDC OPTICS	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
AA308L	56J18-A1	56TB3-S 8	SXT AT 64X RSVR COS HI
AA309L	56J18-A2	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
AA309R	56J18-A3	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
AA313W	56J18-A4	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
AA313R	56J18-A5	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
AA317W	56J18-A6	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
AA316R	56J18-A7	56TB3-L 8	SHAFT CDU TACH LO
AA316L	56J18-A8	56TB3-L 7	SHAFT CDU TACH HI
AA315L	56J18-A9	56TB3-M 8	TRUNNION CDU TACH HI
AA308R	56J18-B1	56TB3-S 7	SXT AT 64X RSVR COS LO
AA307R	56J18-B2	56TB3-T 7	SXT AT 64X RSVR SIN HI
AA310L	56J18-B3	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
AA310R	56J18-B4	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
AA314W	56J18-B5	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
AA317R	56J18-B6	56TB3-L11	TRUNNION CDU 1/2X RSVR P3
AA300W	56J18-B8	56J19-C1	TRUNNION CDU 16X ERROR SIG HI
AA315R	56J18-B9	56TB3-M 7	TRUNNION CDU TACH LO
AA312R	56J18-C1	56TB3-R11	SXT AS 16X RSVR COS HI
AA307L	56J18-C2	56TB3-T 8	SXT AT 64X RSVR SIN LO
AA314R	56J18-C5	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
AA334W	56J18-C6	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
AA335W	56J18-C7	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI
AA300R	56J18-C8	56J19-B2	TRUNNION CDU 16X ERROR SIG LO
AA301W	56J18-C9	56J19-A4	SHAFT CDU 16X ERROR SIG HI
AA312W	56J18-D1	56TB3-R10	SXT AS 16X RSVR COS LO
AA311W	56J18-D2	56TB3-R 8	SXT AS 16X RSVR SIN HI
AA311R	56J18-D3	56TB3-R 7	SXT AS 16X RSVR SIN LO
AA338R	56J18-D4	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
AA338W	56J18-D5	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
AA334R	56J18-D6	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
AA335R	56J18-D7	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
AA326W	56J18-D8	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
AA301R	56J18-D9	56J19-B3	SHAFT CDU 16X ERROR SIG LO
AA299W	56J18-F1	56J19-D4	TRUNNION CDU 1/4X SIN HI
AA330W	56J18-F1	56TB3-G10	TRUNNION CDU 1/4X SIN HI
AA299R	56J18-F2	56J19-F4	TRUNNION CDU 1/4X SIN LO
AA330R	56J18-F2	56TB3-F10	TRUNNION CDU 1/4X SIN LO
AA318W	56J18-F3	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI
AA318R	56J18-F4	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA336W	56J18-F6	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
	AA336R	56J18-F7	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
	AA326R	56J18-F8	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
	AA326L	56J18-F9	56TB3-M11	RSVR DRIVE AMP INPUT LO	
	AA332W	56J18-G1	56TB3-K10	SHAFT CDU 1/2X SIN HI S1	
	AA345W	56J18-G2	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
	AA344W	56J18-G3	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
	AA302K	56J18-G5	56J19-H6	COSECANT AMP FEEDBACK SIG HI	
	AA302W	56J18-G6	56J19-G6	COSECANT AMP OUTPUT HI	
	AA332R	56J18-H1	56TB3-K11	SHAFT CDU 1/2X SIN LO S3	
	AA345R	56J18-H2	56TB3-F 8	SHAFT CDU DAC LO	
	AA346	56J18-H2	56E 52	SHAFT CDU DAC LO	
	AA347	56J18-H2	56E 53	SHAFT CDU DAC LO	
	AA344R	56J18-H3	56TB3-F 7	TRUNNION CDU DAC LO	
	AA348	56J18-H3	56E 50	TRUNNION CDU DAC LO	
	AA349	56J18-H3	56E 51	TRUNNION CDU DAC LO	
	AA302L	56J18-H5	56J19-H5	SHAFT CDU MDA COSECANT SIG	
	AA302R	56J18-H6	56J19-G5	COSECANT AMP FEEDBACK SIG LO	
*	AA242L	56J18-K1	56J17-K4	SHAFT CDU ENCODER - DELTA THETA	
*	AA495L	56J18-K1	56J21-123	SHAFT CDU ENCODER - DELTA THETA	111A
*	AA492L	56J18-K2	56J21-163	SHAFT CDU + DELTA THETA COMMAND	116A
*	AA496L	56J18-K3	56J21-235	TRUNNION CDU + DELTA THETA COMMAND	114A
*	AA243L	56J18-K4	56J17-K6	TRUNNION CDU ENCODER - DELTA THETA	
*	AA499L	56J18-K4	56J21-190	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA328W	56J18-K6	56TB3-T12	SHAFT CDU 1X P1 (S1)	
*	AA242R	56J18-L1	56J17-G4	SHAFT CDU ENCODER + DELTA THETA	
*	AA494L	56J18-L1	56J21-156	SHAFT CDU ENCODER + DELTA THETA	110A
*	AA493R	56J18-L2	56J21-130	SHAFT CDU - DELTA THETA COMMAND	117A
*	AA497R	56J18-L3	56J21-197	TRUNNION CDU - DELTA THETA COMMAND	115A
*	AA243R	56J18-L4	56J17-G6	TRUNNION CDU ENCODER + DELTA THETA	
*	AA498L	56J18-L4	56J21-230	TRUNNION CDU ENCODER + DELTA THETA	108A
	AA328R	56J18-L5	56TB3-S12	SHAFT CDU 1X P2 (S2)	
	AA328L	56J18-L6	56TB3-R12	SHAFT CDU 1X P3 (S3)	
	AA340W	56J18-M1	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)	
	AA350	56J18-M1	56J18-P3	0 VDC OPTICS	
	AA351	56J18-M1	56J18-M2	0 VDC OPTICS	
	AA352	56J18-M2	56J18-M3	0 VDC OPTICS	
*	AA351	56J18-M2	56J18-M1	0 VDC OPTICS	
	AA341W	56J18-M3	56TB3-C 8	TRUNNION CDU MDA LO (TEST)	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA353	56J18-M3	56J18-M4	0 VDC OPTICS
*	AA352	56J18-M3	56J18-M2	0 VDC OPTICS
	AA342W	56J18-M4	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
	AA354	56J18-M4	56J18-M5	0 VDC OPTICS
*	AA353	56J18-M4	56J18-M3	0 VDC OPTICS
	AA355	56J18-M5	56J18-M6	0 VDC OPTICS
*	AA354	56J18-M5	56J18-M4	0 VDC OPTICS
	AA343W	56J18-M6	56TB3-D10	SHAFT CDU MDA (TEST) LO
*	AA355	56J18-M6	56J18-M5	0 VDC OPTICS
	AA340R	56J18-N1	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
	AA341R	56J18-N3	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
	AA342R	56J18-N4	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
	AA343R	56J18-N6	56TB3-D 9	SHAFT CDU MDA (TEST) HI
	AA319	56J18-P1	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
	AA322	56J18-P2	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
	AA303	56J18-P3	56J19-R4	0 VDC OPTICS
*	AA350	56J18-P3	56J18-M1	0 VDC OPTICS
	AA320	56J18-R1	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
	AA321	56J18-R2	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
	AA333	56J18-R3	56TB3-K20	0 VDC OPTICS
	AA337	56J18-R4	56TB3-B11	ZERO OPTICS RELAY CONTROL
	AA616	56J18-R4	56J19-M4	ZERO OPTICS RELAY CONTROL
	AA306	56J18-R5	56J19-P3	STRUCTURE GND
*	AA241	56J18-R5	56J17-L6	STRUCTURE GND
	AA298	56J18-S1	56J19-T1	+28 VDC OPTICS
*	AA240	56J18-S1	56J17-T6	+28 VDC OPTICS
	AA323	56J18-S3	56J18-S4	0 VDC OPTICS
	AA325	56J18-S3	56TB3-K20	0 VDC OPTICS
*	AA323	56J18-S4	56J18-S3	0 VDC OPTICS
	AA305	56J18-S5	56J19-P5	0 VDC OPTICS
	AA339	56J18-S5	56J18-T5	0 VDC OPTICS
	AA304R	56J18-S6	56J19-N6	800 CPS 28 V 1 PCT LO OPTICS
*	AA233R	56J18-S6	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
	AA646	56J18-T1	56TB3-A10	+28 VDC OPTICS DAC POWER
	AA324	56J18-T3	56J18-T4	0 VDC OPTICS
	AA327	56J18-T3	56TB3-K20	0 VDC OPTICS
*	AA324	56J18-T4	56J18-T3	0 VDC OPTICS
	AA638	56J18-T5	56E 71	0 VDC OPTICS
*	AA339	56J18-T5	56J18-S5	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA304W	56J18-T6	56J19-P6	800 CPS 28 V 1 PCT HI OPTICS
*	AA233W	56J18-T6	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA370W	56J19-A1	56TB3-T16	SXT TRUNNION TACH HI
	AA371R	56J19-A2	56TB3-S16	SXT SHAFT TACH LO
	AA371W	56J19-A3	56TB3-S17	SXT SHAFT TACH HI
*	AA301W	56J19-A4	56J18-C9	SHAFT CDU 16X ERROR SIG HI
	AA375W	56J19-A5	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
	AA378	56J19-A7	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
	AA372R	56J19-A8	56TB3-R16	SCT TRUNNION TACH LO
	AA372W	56J19-A9	56TB3-R17	SCT TRUNNION TACH HI
	AA370R	56J19-B1	56TB3-T17	SXT TRUNNION TACH LO
	AA329R	56J19-B2	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
*	AA300R	56J19-B2	56J18-C8	TRUNNION CDU 16X ERROR SIG LO
	AA331R	56J19-B3	56TB3-H11	SHAFT CDU 16X ERROR SIG LO
*	AA301R	56J19-B3	56J18-D9	SHAFT CDU 16X ERROR SIG LO
	AA331L	56J19-B4	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
	AA375R	56J19-B5	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
	AA377W	56J19-B7	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
	AA377R	56J19-B8	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
	AA373W	56J19-B9	56TB3-N16	SCT SHAFT TACH HI
*	AA300W	56J19-C1	56J18-B8	TRUNNION CDU 16X ERROR SIG HI
	AA329L	56J19-C2	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
	AA384	56J19-C3	56TB3-N18	TRUNNION CDU 16X LOAD
	AA385	56J19-C4	56TB3-M18	SHAFT CDU 16X LOAD
	AA376	56J19-C5	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
	AA380	56J19-C7	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
	AA379R	56J19-C8	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
	AA373R	56J19-C9	56TB3-N17	SCT SHAFT TACH LO
	AA374W	56J19-D1	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
	AA374R	56J19-D2	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
*	AA299W	56J19-D4	56J18-F1	TRUNNION CDU 1/4X SIN HI
	AA396W	56J19-D5	56TB3-N14	SHAFT CDU 1/2X COS HI S2
	AA396R	56J19-D6	56TB3-N13	SHAFT CDU 1/2X COS LO S4
	AA379W	56J19-D8	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
*	AA299R	56J19-F4	56J18-F2	TRUNNION CDU 1/4X SIN LO
	AA381W	56J19-F5	56TB3-F16	TRUNNION CDU 1/4X COS HI
	AA381R	56J19-F6	56TB3-G16	TRUNNION CDU 1/4X COS LO
	AA386R	56J19-F8	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	AA386W	56J19-F9	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
	AA382R	56J19-G1	56TB3-T13	SCT TRUNNION 1X COS LO
	AA383R	56J19-G2	56TB3-S14	SCT TRUNNION 1X SIN HI

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA383W	56J19-G3	56TB3-S13	SCT TRUNNION 1X SIN LO
*	AA302R	56J19-G5	56J18-H6	COSECANT AMP FEEDBACK SIG LO
*	AA302W	56J19-G6	56J18-G6	COSECANT AMP OUTPUT HI
	AA382W	56J19-H1	56TB3-T14	SCT TRUNNION 1X COS HI
*	AA302L	56J19-H5	56J18-H5	SHAFT CDU MDA COSECANT SIG
*	AA302K	56J19-H6	56J18-G5	COSECANT AMP FEEDBACK SIG HI
	AA391W	56J19-K1	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
	AA397	56J19-K1	56J19-R4	0 VDC OPTICS
	AA398	56J19-K1	56J19-K2	0 VDC OPTICS
	AA399	56J19-K2	56J19-K3	0 VDC OPTICS
*	AA398	56J19-K2	56J19-K1	0 VDC OPTICS
	AA392W	56J19-K3	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
	AA400	56J19-K3	56J19-K4	0 VDC OPTICS
*	AA399	56J19-K3	56J19-K2	0 VDC OPTICS
	AA401	56J19-K4	56J19-K5	0 VDC OPTICS
*	AA400	56J19-K4	56J19-K3	0 VDC OPTICS
	AA402	56J19-K5	56J19-K6	0 VDC OPTICS
*	AA401	56J19-K5	56J19-K4	0 VDC OPTICS
*	AA402	56J19-K6	56J19-K5	0 VDC OPTICS
	AA391R	56J19-L1	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
	AA392R	56J19-L3	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
*	AA616	56J19-M4	56J18-R4	ZERO OPTICS RELAY CONTROL
	AA388	56J19-M5	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA387	56J19-M6	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA389	56J19-N5	56TB3-L18	COSECANT RELAY CONTROL
*	AA304R	56J19-N6	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA359R	56J19-P1	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING
	AA361R	56J19-P2	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
	AA356	56J19-P3	56J20-G4	STRUCTURE GND
*	AA306	56J19-P3	56J18-R5	STRUCTURE GND
	AA394	56J19-P4	56J19-P5	0 VDC OPTICS
	AA393	56J19-P5	56TB3-K21	0 VDC OPTICS
*	AA305	56J19-P5	56J18-S5	0 VDC OPTICS
*	AA394	56J19-P5	56J19-P4	0 VDC OPTICS
*	AA304W	56J19-P6	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA359W	56J19-R1	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING
	AA361W	56J19-R2	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
	AA390	56J19-R4	56TB3-K21	0 VDC OPTICS
*	AA303	56J19-R4	56J18-P3	0 VDC OPTICS

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA397	56J19-R4	56J19-K1	0 VDC OPTICS
	AA362	56J19-R5	56J19-S4	0 VDC OPTICS
	AA363	56J19-R6	56J19-T4	0 VDC OPTICS
	AA358R	56J19-S2	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING
	AA358W	56J19-S3	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING
	AA364	56J19-S4	56TB3-K22	0 VDC OPTICS
*	AA362	56J19-S4	56J19-R5	0 VDC OPTICS
	AA366	56J19-S5	56J19-S6	0 VDC OPTICS
	AA369	56J19-S5	56TB3-K22	0 VDC OPTICS
*	AA366	56J19-S6	56J19-S5	0 VDC OPTICS
	AA357	56J19-T1	56J20-M6	+28 VDC OPTICS
*	AA298	56J19-T1	56J18-S1	+28 VDC OPTICS
	AA360R	56J19-T2	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
	AA360W	56J19-T3	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
	AA365	56J19-T4	56TB3-L22	0 VDC OPTICS
*	AA363	56J19-T4	56J19-R6	0 VDC OPTICS
	AA368	56J19-T5	56J19-T6	0 VDC OPTICS
	AA367	56J19-T6	56TB3-L22	0 VDC OPTICS
*	AA368	56J19-T6	56J19-T5	0 VDC OPTICS

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA416	56J20-A1	56TB3-G19	AGC TEMP MONITOR NO 1
	AA417	56J20-A2	56TB3-F19	AGC TEMP MONITOR NO 2
	AA419W	56J20-A3	56TB3-N20	COS AMG 1X S3
	AA414	56J20-A4	56TB3-K19	IMU PRESSURE MONITOR HI
	AA464R	56J20-A6	56TB3-L13	PRESSURE SENSOR +28 VDC HI
	AA418	56J20-B1	56TB3-D19	AGC TEMP MONITOR NO 3
	AA419R	56J20-B3	56TB3-N21	COS AMG 1X S1
	AA415	56J20-B4	56TB3-H19	IMU PRESSURE MONITOR LO
	AA427R	56J20-B5	56TB3-T19	+20 VDC CONDITIONING
	AA464W	56J20-B6	56TB3-K13	PRESSURE SENSOR +28 VDC LO
	AA427W	56J20-C5	56TB3-S19	0 VDC CONDITIONING
	AA425	56J20-C6	56TB3-L19	+13 VDC AGC
	AA463R	56J20-D4	56TB3-S20	+2.5 VDC CONDITIONING LO
	AA463W	56J20-D5	56TB3-R19	+2.5 VDC CONDITIONING HI
	AA426	56J20-D6	56TB3-M19	+3 VDC AGC
	AA409W	56J20-F5	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
	AA410W	56J20-F5	56TB3-B18	800 CPS 28 V 1 PCT HI IMU
	AA409R	56J20-F6	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
	AA410R	56J20-F6	56TB3-B19	800 CPS 28 V 1 PCT LO IMU
	AA458	56J20-G1	56J20-H1	0 VDC IMU
	AA460	56J20-G1	56TB2-M 7	0 VDC IMU
	AA465W	56J20-G3	56TB3-K14	400 CPS 115 V LO
	AA462	56J20-G4	56TB3-F22	STRUCTURE GND
*	AA356	56J20-G4	56J19-P3	STRUCTURE GND
	AA411	56J20-G5	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA 52W	56J20-G5	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA413	56J20-G6	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	AA 52R	56J20-G6	56J12-K4	800 CPS 28 V 5 PCT L-90 DEG LO IMU
	AA459	56J20-H1	56J20-H2	0 VDC IMU
*	AA458	56J20-H1	56J20-G1	0 VDC IMU
	AA461	56J20-H2	56TB2-M 1	0 VDC IMU
*	AA459	56J20-H2	56J20-H1	0 VDC IMU
	AA465R	56J20-H3	56TB3-L14	400 CPS 115 V HI
	AA422	56J20-H4	56TB3-R20	+28 VDC AGC
	AA423	56J20-H4	56J21-234	+28 VDC AGC
*	AA178	56J20-H4	56J15-H5	+28 VDC AGC
	AA412W	56J20-H5	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA411	56J20-H5	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA412R	56J20-H6	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA413	56J20-H6	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
	AA454	56J20-K1	56TB3-T20	+28 VDC IMU	
	AA455	56J20-K1	56TB3-T21	+28 VDC IMU	
*	AA179	56J20-K1	56J15-S2	+28 VDC IMU	
	AA456	56J20-K2	56TB3-S21	+28 VDC IMU	
*	AA 4	56J20-K2	56J11-S5	+28 VDC IMU	
*	AA193	56J20-K2	56J16-S2	+28 VDC IMU	
*	AA191W	56J20-K3	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS	
	AA424	56J20-K4	56TB3-N19	0 VDC AGC	
	AA420	56J20-K5	56TB3-G21	+28 VDC AGC BUSS A	
	AA421	56J20-K6	56TB3-G22	+28 VDC AGC BUSS B	
	AA438	56J20-L1	56J20-M1	+28 VDC IMU	
	AA439	56J20-L1	56J20-L2	+28 VDC IMU	
*	AA 2	56J20-L1	56J11-S1	+28 VDC IMU	
	AA440	56J20-L2	56J20-M2	+28 VDC IMU	
*	AA 3	56J20-L2	56J11-S2	+28 VDC IMU	
*	AA439	56J20-L2	56J20-L1	+28 VDC IMU	
*	AA191R	56J20-L3	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS	
*	AA192W	56J20-L4	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS	
	AA403	56J20-L5	56J21- 37	+28 VDC MDV	157B
	AA404	56J20-L5	56TB3-M22	+28 VDC MDV	
*	AA 53	56J20-L6	56J12-G4	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP	
*	AA 54	56J20-M1	56J12-S1	+28 VDC IMU	
*	AA236	56J20-M1	56J17-T4	+28 VDC IMU	
*	AA438	56J20-M1	56J20-L1	+28 VDC IMU	
*	AA 55	56J20-M2	56J12-S2	+28 VDC IMU	
*	AA237	56J20-M2	56J17-T3	+28 VDC IMU	
*	AA440	56J20-M2	56J20-L2	+28 VDC IMU	
*	AA192R	56J20-M4	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS	
	AA405	56J20-M5	56TB3-M21	+28 VDC MDV	
	AA457	56J20-M6	56TB3-M20	+28 VDC OPTICS	
*	AA357	56J20-M6	56J19-T1	+28 VDC OPTICS	
	AA428	56J20-N1	56TB3-C20	+28 VDC IMU BUSS A	
	AA429	56J20-N1	56J20-P1	+28 VDC IMU BUSS A	
	AA433	56J20-N2	56TB3-D20	+28 VDC IMU BUSS B	
	AA434	56J20-N2	56J20-P2	+28 VDC IMU BUSS B	
	AA408	56J20-N3	56TB3-K22	0 VDC OPTICS	
	AA407	56J20-N4	56TB3-L21	0 VDC OPTICS	
*	AA 51	56J20-N5	56J12-S6	+28 VDC OPTICS	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA189	56J20-N5	56J16-S5	+28 VDC OPTICS
	AA406	56J20-N6	56TB3-H20	+28 VDC OPTICS
*	AA190	56J20-N6	56J16-S6	+28 VDC OPTICS
	AA623	56J20-P1	56TB3-C21	+28 VDC IMU BUSS A
*	AA429	56J20-P1	56J20-N1	+28 VDC IMU BUSS A
	AA625	56J20-P2	56TB3-D21	+28 VDC IMU BUSS B
*	AA434	56J20-P2	56J20-N2	+28 VDC IMU BUSS B
	AA445	56J20-P3	56TB3-N22	+28 VDC STBY
*	AA238	56J20-P3	56J17-T1	+28 VDC STBY
*	AA239	56J20-P4	56J17-T2	+28 VDC STBY
	AA446	56J20-P5	56TB3-H21	+28 VDC OPTICS BUSS A
	AA447	56J20-P5	56J20-R5	+28 VDC OPTICS BUSS A
	AA450	56J20-P6	56TB3-H22	+28 VDC OPTICS BUSS B
	AA451	56J20-P6	56J20-R6	+28 VDC OPTICS BUSS B
	AA431	56J20-R1	56J20-S1	+28 VDC IMU BUSS A
	AA622	56J20-R1	56TB3-C20	+28 VDC IMU BUSS A
	AA436	56J20-R2	56J20-S2	+28 VDC IMU BUSS B
	AA624	56J20-R2	56TB3-D20	+28 VDC IMU BUSS B
	AA441	56J20-R3	56TB3-D22	+28 VDC STBY BUSS A
	AA442	56J20-R3	56J20-S3	+28 VDC STBY BUSS A
	AA443	56J20-R4	56TB3-C22	+28 VDC STBY BUSS B
	AA444	56J20-R4	56J20-S4	+28 VDC STBY BUSS B
	AA448	56J20-R5	56J20-S5	+28 VDC OPTICS BUSS A
	AA628	56J20-R5	56TB3-H21	+28 VDC OPTICS BUSS A
*	AA447	56J20-R5	56J20-P5	+28 VDC OPTICS BUSS A
	AA452	56J20-R6	56J20-S6	+28 VDC OPTICS BUSS B
	AA629	56J20-R6	56TB3-H22	+28 VDC OPTICS BUSS B
*	AA451	56J20-R6	56J20-P6	+28 VDC OPTICS BUSS B
	AA432	56J20-S1	56TB3-C21	+28 VDC IMU BUSS A
*	AA431	56J20-S1	56J20-R1	+28 VDC IMU BUSS A
	AA437	56J20-S2	56TB3-D21	+28 VDC IMU BUSS B
*	AA436	56J20-S2	56J20-R2	+28 VDC IMU BUSS B
	AA626	56J20-S3	56TB3-D22	+28 VDC STBY BUSS A
*	AA442	56J20-S3	56J20-R3	+28 VDC STBY BUSS A
	AA627	56J20-S4	56TB3-C22	+28 VDC STBY BUSS B
*	AA444	56J20-S4	56J20-R4	+28 VDC STBY BUSS B
	AA449	56J20-S5	56TB3-H21	+28 VDC OPTICS BUSS A
*	AA448	56J20-S5	56J20-R5	+28 VDC OPTICS BUSS A
	AA453	56J20-S6	56TB3-H22	+28 VDC OPTICS BUSS B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA452	56J20-S6	56J20-R6	+28 VDC OPTICS BUSS B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 634	56J21- 1	56P11-A	+28 VDC AGC BUSS A	167
*	A 639	56J21- 2	56P11-J	0 VDC AGC	169
*	A 476	56J21- 3	56J10- 70	SPARE	211
*	A 505R	56J21- 4	56J10- 31	OUT 0 7	220A
*	A 505W	56J21- 5	56E 22	COMMONED RETURNS GROUND	220B
*	A 483R	56J21- 6	56J10- 17	OUT 0 14	227A
*	A 483W	56J21- 7	56E 23	COMMONED RETURNS GROUND	227B
*	A 489R	56J21- 8	56J10- 44	ALARM 6	234A
*	A 489W	56J21- 9	56E 24	COMMONED RETURNS GROUND	234B
*	A 522	56J21- 10	56J10- 45	SPARE	248
*	A 523	56J21- 11	56J10- 46	SPARE	249
*	A 468W	56J21- 12	56J10- 49	KEY RESET NAV	209A
*	A 468R	56J21- 13	56E 25	COMMONED RETURNS GROUND	209B
*	A 510R	56J21- 14	56J10- 39	TEST ALARM	207A
*	A 510W	56J21- 15	56E 25	COMMONED RETURNS GROUND	207B
*	A 407W	56J21- 16	56J09- 70	SXT PWR ON INDICATION TO AGC	105A
*	A 407R	56J21- 17	56E 58		105B
*	A 449R	56J21- 18	56J09- 37	OPTICS MODE SW COMPUTER INDICATION	106A
*	A 449W	56J21- 19	56E 58		106B
	AA642	56J21- 22	56E 70	AGC SIG 179 SHLD RET	179
	AA473	56J21- 23	56E 45	AGC SIG 180 SHLD RET	180
	AA475L	56J21- 24	56J15-B4	IG ENCODER + DELTA THETA	120A
	AA475R	56J21- 25	56E 38	IG DAC MDA SIG LO	120B
	AA476R	56J21- 26	56J15-C4	IG ENCODER - DELTA THETA	121A
	AA476L	56J21- 27	56E 38	IG DAC MDA SIG LO	121B
*	AA639L	56J21- 28	56J12-D6	IMU FAIL	141A
*	AA639R	56J21- 29	56J12-F6	IMU FAIL RET	141B
	AA486R	56J21- 30	56J15-C9	OG CDU - DELTA THETA COMMAND	127A
	AA486L	56J21- 31	56E 43	OG DAC MDA SIG LO	127B
*	AA130R	56J21- 32	56E 33	0 VDC IMU	143A
*	AA130W	56J21- 33	56J14-D2	- DX GYRO RATE	143B
*	AA226R	56J21- 34	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
*	AA226L	56J21- 35	56J16-L3	COMPUTER 800 PPS SYNC RET	150B
*	AA 81	56J21- 36	56J12-M1	AGC POWER SUPPLY FAIL SIG HI	157A
*	AA403	56J21- 37	56J20-L5	+28 VDC MDV	157B
*	A 509	56J21- 39	56J10- 58	GND	239
*	A 481	56J21- 40	56J10- 59	+28 VDC AGC	243
*	A 499R	56J21- 41	56J10- 30	OUT 0 6	219A
*	A 499W	56J21- 42	56E 22	COMMONED RETURNS GROUND	219B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 504R	56J21- 43	56J10- 16	OUT 0 13	226A
*	A 504W	56J21- 44	56E 23	COMMONED RETURNS GROUND	226B
*	A 488R	56J21- 45	56J10- 33	ALARM 5	233A
*	A 488W	56J21- 46	56E 23	COMMONED RETURNS GROUND	233B
*	A 470R	56J21- 47	56J10- 42	TIMING (1.5 CPS)	244A
*	A 470W	56J21- 48	56E 24	COMMONED RETURNS GROUND	244B
	AA562	56J21- 53	56E 57	AGC SIG 178 SHLD RET	178
*	A 437W	56J21- 54	56J09- 25	OPTICS ZERO ENCODER	104A
*	A 437R	56J21- 55	56E 58		104B
	AA479L	56J21- 56	56J15-B8	OG ENCODER + DELTA THETA	118A
	AA479R	56J21- 57	56E 42	OG DAC MDA SIG LO	118B
	AA480R	56J21- 58	56J15-C8	OG ENCODER - DELTA THETA	119A
	AA480L	56J21- 59	56E 42	OG DAC MDA SIG LO	119B
*	AA641L	56J21- 60	56J12-D4	ACCEL FAIL	138A
*	AA641R	56J21- 61	56J12-F4	ACCEL FAIL RET	138B
*	AA521	56J21- 62	56TB3-L19	+13 VDC AGC	176
*	AA522	56J21- 63	56TB3-N19	0 VDC AGC	177
	AA485L	56J21- 64	56J15-B9	OG CDU + DELTA THETA COMMAND	126A
	AA485R	56J21- 65	56E 43	OG DAC MDA SIG LO	126B
*	AA129W	56J21- 66	56E 33	0 VDC IMU	142A
*	AA129R	56J21- 67	56J14-D1	+ DX GYRO RATE	142B
*	AA227R	56J21- 68	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	149A
*	AA227L	56J21- 69	56J16-L3	COMPUTER 800 PPS SYNC RET	149B
*	AA 70L	56J21- 70	56J12-K1	COMPUTER 102.4 KPPS SYNC	156A
*	AA 70R	56J21- 71	56J12-H1	COMPUTER 102.4 KPPS SYNC RET	156B
*	A 635	56J21- 73	56P11-A	+28 VDC AGC BUSS A	167
*	A 640	56J21- 74	56P11-J	0 VDC AGC	169
*	A 473	56J21- 75	56J10- 71	SPARE	212
*	A 498R	56J21- 76	56J10- 29	OUT 0 5	218A
*	A 498W	56J21- 77	56E 22	COMMONED RETURNS GROUND	218B
*	A 506R	56J21- 78	56J10- 15	OUT 0 12	225A
*	A 506W	56J21- 79	56E 23	COMMONED RETURNS GROUND	225B
*	A 482R	56J21- 80	56J10- 32	ALARM 4	232A
*	A 482W	56J21- 81	56E 23	COMMONED RETURNS GROUND	232B
*	A 471R	56J21- 82	56J10- 20	POWER SYNC	242A
*	A 471W	56J21- 83	56E 24	COMMONED RETURNS GROUND	242B
*	A 467R	56J21- 84	56J10- 38	KEY CODE 5	205A
*	A 467W	56J21- 85	56E 25	COMMONED RETURNS GROUND	205B
*	A 433W	56J21- 86	56J09- 30	MARK	102A

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 433R	56J21- 87	56E 58		102B
*	A 434W	56J21- 88	56J09- 31	NOT MARK	103A
*	A 434R	56J21- 89	56E 58		103B
	AA468R	56J21- 92	56E 35	COMPUTER RET	133A
	AA468L	56J21- 93	56J15-M6	- DELTA V X	133B
	AA471R	56J21- 94	56E 37	COMPUTER RET	137A
	AA471L	56J21- 95	56J15-K4	- DELTA V Z	137B
*	AA525	56J21- 96	56TB3-M19	+3 VDC AGC	175
	AA484R	56J21- 97	56J15-C7	MG CDU - DELTA THETA COMMAND	131A
	AA484L	56J21- 98	56E 41	MG DAC MDA SIG LO	131B
	AA502W	56J21- 99	56J13-N6	PIPA SWITCHING PULSE	140A
	AA502R	56J21-100	56E 34	0 VDC IMU	140B
*	AA157R	56J21-101	56J15-R2	0 VDC IMU	148A
*	AA157W	56J21-102	56J15-P1	GYRO RESET PULSE	148B
	AA500R	56J21-103	56J17-R3	COMPUTER 12.8 KPPS SYNC	155A
	AA500L	56J21-104	56E 27	0 VDC IMU	155B
	A 571	56J21-107	56E 63	GROUP 2 SHIELD	245
*	A 477	56J21-108	56J10- 57	+13 V B	241
*	A 497R	56J21-109	56J10- 28	OUT 0 4	217A
*	A 497W	56J21-110	56E 22	COMMONED RETURNS GROUND	217B
*	A 503R	56J21-111	56J10- 14	OUT 0 11	224A
*	A 503W	56J21-112	56E 23	COMMONED RETURNS GROUND	224B
*	A 487R	56J21-113	56J10- 19	ALARM 3	231A
*	A 487W	56J21-114	56E 23	COMMONED RETURNS GROUND	231B
*	A 493R	56J21-115	56J10- 64	ALARM 10	238A
*	A 493W	56J21-116	56E 24	COMMONED RETURNS GROUND	238B
*	A 511R	56J21-117	56J10- 37	KEY CODE 4	204A
*	A 511W	56J21-118	56E 25	COMMONED RETURNS GROUND	204B
	A 440W	56J21-119	56E 56	AGC COMMON	101A
	A 440R	56J21-120	56E 58		101B
	AA487L	56J21-121	56TB2-D 2	AGC COM	165A
	AA487R	56J21-122	56TB2-F 3		165B
	AA495L	56J21-123	56J18-K1	SHAFT CDU ENCODER - DELTA THETA	111A
	AA495R	56J21-124	56E 53	SHAFT CDU DAC LO	111B
	AA467R	56J21-125	56E 35	COMPUTER RET	132A
	AA467L	56J21-126	56J15-M5	+ DELTA V X	132B
	AA472R	56J21-127	56E 37	COMPUTER RET	136A
	AA472L	56J21-128	56J15-K5	+ DELTA V Z	136B
*	AA526	56J21-129	56TB3-D19	AGC TEMP MONITOR NO 3	173

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA493R	56J21-130	56J18-L2	SHAFT CDU - DELTA THETA COMMAND	117A
	AA493L	56J21-131	56E 52	SHAFT CDU DAC LO	117B
	AA501W	56J21-132	56J13-N5	PIPA INTERROGATE PULSE	139A
	AA501R	56J21-133	56E 34	0 VDC IMU	139B
*	AA135W	56J21-134	56E 33	0 VDC IMU	147A
*	AA135R	56J21-135	56J14-D6	- DZ GYRO RATE	147B
	AA491R	56J21-136	56J12-G2	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA491L	56J21-137	56E 29	COMPUTER 25.6 KPPS SYNC RET	154B
*	A 637	56J21-139	56P12-A	+28 VDC AGC BUSS B	168
*	A 641	56J21-140	56P12-J	0 VDC AGC	170
*	A 469	56J21-141	56J10- 72	SPARE	213
*	A 496R	56J21-142	56J10- 60	OUT 0 3	216A
*	A 496W	56J21-143	56E 22	COMMONED RETURNS GROUND	216B
*	A 502R	56J21-144	56J10- 63	OUT 0 10	223A
*	A 502W	56J21-145	56E 22	COMMONED RETURNS GROUND	223B
*	A 486R	56J21-146	56J10- 41	ALARM 2	230A
*	A 486W	56J21-147	56E 23	COMMONED RETURNS GROUND	230B
*	A 492R	56J21-148	56J10- 51	ALARM 9	237A
*	A 492W	56J21-149	56E 24	COMMONED RETURNS GROUND	237B
*	A 472R	56J21-150	56J10- 36	KEY CODE 3	203A
*	A 472W	56J21-151	56E 25	COMMONED RETURNS GROUND	203B
	AA489L	56J21-152	56J16-A7	ZERO ENCODER MODE INDICATION TO AGC	158A
	AA489R	56J21-153	56E 60		158B
*	A 14W	56J21-154	56P01- 59	COARSE ALIGN MODE INDICATION TO AGC	159A
*	A 14R	56J21-155	56E 61		159B
	AA494L	56J21-156	56J18-L1	SHAFT CDU ENCODER + DELTA THETA	110A
	AA494R	56J21-157	56E 53	SHAFT CDU DAC LO	110B
*	AA640L	56J21-158	56J12-D5	CDU FAIL	124A
*	AA640R	56J21-159	56J12-F5	CDU FAIL RET	124B
	AA470R	56J21-160	56E 36	COMPUTER RET	135A
	AA470L	56J21-161	56J15-K6	- DELTA V Y	135B
*	AA529	56J21-162	56TB3-F19	AGC TEMP MONITOR NO 2	172
	AA492L	56J21-163	56J18-K2	SHAFT CDU + DELTA THETA COMMAND	116A
	AA492R	56J21-164	56E 52	SHAFT CDU DAC LO	116B
	AA483L	56J21-165	56J15-B7	MG CDU + DELTA THETA COMMAND	130A
	AA483R	56J21-166	56E 41	MG DAC MDA SIG LO	130B
*	AA134R	56J21-167	56E 33	0 VDC IMU	146A
*	AA134W	56J21-168	56J14-D5	+ DZ GYRO RATE	146B
	AA490L	56J21-169	56J12-G1	COMPUTER 25.6 KPPS IN PHASE SYNC	153A

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA490R	56J21-170	56E 29	COMPUTER 25.6 KPPS SYNC RET	153B
*	A 512	56J21-173	56J10- 56	GND	239
*	A 513	56J21-174	56J10- 55	+3 V B	240
*	A 495R	56J21-175	56J10- 74	OUT 0 2	215A
*	A 495W	56J21-176	56E 22	COMMONED RETURNS GROUND	215B
*	A 501R	56J21-177	56J10- 62	OUT 0 9	222A
*	A 501W	56J21-178	56E 22	COMMONED RETURNS GROUND	222B
*	A 485R	56J21-179	56J10- 40	ALARM 1	229A
*	A 485W	56J21-180	56E 23	COMMONED RETURNS GROUND	229B
*	A 491R	56J21-181	56J10- 53	ALARM 8	236A
*	A 491W	56J21-182	56E 24	COMMONED RETURNS GROUND	236B
*	A 514R	56J21-183	56J10- 35	KEY CODE 2	202A
*	A 514W	56J21-184	56E 25	COMMONED RETURNS GROUND	202B
*	A 515R	56J21-185	56J10- 47	OR OF C1 THRU C33	210A
*	A 515W	56J21-186	56E 25	COMMONED RETURNS GROUND	210B
	A 568	56J21-187	56E 64	GROUP 3 SHIELD	250
	AA488L	56J21-188	56J15-A3	MANUAL CDU MODE INDICATION TO AGC	160A
	AA488R	56J21-189	56E 59		160B
	AA499L	56J21-190	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA499R	56J21-191	56E 51	TRUNNION CDU DAC LO	109B
	AA478R	56J21-192	56J15-C6	MG ENCODER - DELTA THETA	123A
	AA478L	56J21-193	56E 40	MG DAC MDA SIG LO	123B
	AA469R	56J21-194	56E 36	COMPUTER RET	134A
	AA469L	56J21-195	56J15-L6	+ DELTA V Y	134B
*	AA530	56J21-196	56TB3-G19	AGC TEMP MONITOR NO 1	171
	AA497R	56J21-197	56J18-L3	TRUNNION CDU - DELTA THETA COMMAND	115A
	AA497L	56J21-198	56E 50	TRUNNION CDU DAC LO	115B
	AA482R	56J21-199	56J15-C5	IG CDU - DELTA THETA COMMAND	129A
	AA482L	56J21-200	56E 39	IG DAC MDA SIG LO	129B
*	AA132W	56J21-201	56E 33	0 VDC IMU	145A
*	AA132R	56J21-202	56J14-D4	- DY GYRO RATE	145B
	AA503R	56J21-203	56J11-L6	COMPUTER 3200 PPS OUT OF PHASE SYNC	152A
	AA503L	56J21-204	56E 28	COMPUTER 3200 PPS SYNC RET	152B
*	A 638	56J21-207	56P12-A	+28 VDC AGC BUSS B	168
*	A 642	56J21-208	56P12-J	0 VDC AGC	170
*	A 520	56J21-209	56J10- 75	SPARE	247
*	A 494R	56J21-210	56J10- 73	OUT 0 1	214A
*	A 494W	56J21-211	56E 22	COMMONED RETURNS GROUND	214B
*	A 500R	56J21-212	56J10- 61	OUT 0 8	221A

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 500W	56J21-213	56E 22	COMMONED RETURNS GROUND	221B
*	A 484R	56J21-214	56J10- 18	OUT 0 15	228A
*	A 484W	56J21-215	56E 23	COMMONED RETURNS GROUND	228B
*	A 490R	56J21-216	56J10- 43	ALARM 7	235A
*	A 490W	56J21-217	56E 24	COMMONED RETURNS GROUND	235B
*	A 516R	56J21-218	56J10- 34	KEY CODE 1	201A
*	A 516W	56J21-219	56E 25	COMMONED RETURNS GROUND	201B
*	A 517R	56J21-220	56J10- 48	ERROR RESET	208A
*	A 517W	56J21-221	56E 25	COMMONED RETURNS GROUND	208B
*	A 15W	56J21-222	56P01- 49	FINE ALIGN MODE INDICATION TO AGC	161A
*	A 15R	56J21-223	56E 61		161B
*	A 27W	56J21-224	56P01- 76	ATTIT CONT MODE INDICATION TO AGC	162A
*	A 27R	56J21-225	56E 61		162B
*	A 16W	56J21-226	56P01- 39	ENTRY MODE INDICATION TO AGC	163A
*	A 16R	56J21-227	56E 61		163B
*	A 156W	56J21-228	56J06- 69	TRANSFER SWITCH INDICATION TO AGC	164A
*	A 156R	56J21-229	56E 55		164B
	AA498L	56J21-230	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA	108A
	AA498R	56J21-231	56E 51	TRUNNION CDU DAC LO	108B
	AA477L	56J21-232	56J15-B6	MG ENCODER + DELTA THETA	122A
	AA477R	56J21-233	56E 40	MG DAC MDA SIG LO	122B
*	AA423	56J21-234	56J20-H4	+28 VDC AGC	166
	AA496L	56J21-235	56J18-K3	TRUNNION CDU + DELTA THETA COMMAND	114A
	AA496R	56J21-236	56E 50	TRUNNION CDU DAC LO	114B
	AA481L	56J21-237	56J15-B5	IG CDU + DELTA THETA COMMAND	128A
	AA481R	56J21-238	56E 39	IG DAC MDA SIG LO	128B
*	AA131W	56J21-239	56E 33	0 VDC IMU	144A
*	AA131R	56J21-240	56J14-D3	+ DY GYRO RATE	144B
	AA504R	56J21-241	56J11-M6	COMPUTER 3200 PPS IN PHASE SYNC	151A
	AA504L	56J21-242	56E 28	COMPUTER 3200 PPS SYNC RET	151B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA287L	56J22- 1	56J17-A3	ROLL ERROR BODY OFFSET AXIS HI
	AA287B	56J22- 2	SHLD AA287	
*	AA244L	56J22- 3	56J17-A4	ROLL ERROR BODY AXIS HI
*	AA244R	56J22- 4	56J17-B4	ROLL ERROR BODY AXIS LO
	AA245B	56J22- 5	SHLD AA245	
*	AA245L	56J22- 6	56J17-C4	YAW ERROR BODY AXIS HI
	AA246B	56J22- 8	SHLD AA246	
*	AA288R	56J22- 10	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA288B	56J22- 11	SHLD AA288	
*	A 197	56J22- 37	56J08- 54	+28 VDC SPACECRAFT
*	A 196	56J22- 38	56J08- 53	MASTER WARNING LIGHT RET
*	AA287R	56J22- 39	56J17-B3	ROLL ERROR BODY OFFSET AXIS LO
	AA244B	56J22- 41	SHLD AA244	
*	AA245R	56J22- 43	56J17-D4	YAW ERROR BODY AXIS LO
*	AA246L	56J22- 45	56J17-C3	YAW ERROR BODY OFFSET AXIS HI
*	AA246R	56J22- 46	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	AA288L	56J22- 48	56J17-D1	PITCH ERROR BODY AND BODY OFFSET AXIS HI
*	A 207	56J22- 71	56J08- 32	+28 VDC SPACECRAFT
*	A 206	56J22- 72	56J08- 43	MASTER CAUTION LIGHT RET
	AA505R	56J22-107	56TB2-U 7	SIN AOG 1X S2
	AA507R	56J22-111	56TB3-C14	SIN AMG 1X
	AA508L	56J22-113	56TB3-N20	COS AMG 1X S3
	AA508R	56J22-114	56TB3-N21	COS AMG 1X S1
	AA509L	56J22-116	56TB3-D13	SIN AIG 1X RET
*	AA517R	56J22-120	56TB3-B19	800 CPS 28 V 1 PCT LO IMU
	AA505L	56J22-139	56TB2-U 8	SIN AOG 1X S4
	AA506L	56J22-141	56TB2-N 8	COS AOG 1X S3
	AA506R	56J22-142	56TB2-N 7	COS AOG 1X S1
	AA507L	56J22-144	56TB3-C13	SIN AMG 1X RET
	AA509R	56J22-148	56TB3-D14	SIN AIG 1X
	AA510L	56J22-150	56TB3-F13	COS AIG 1X RET
	AA510R	56J22-151	56TB3-F14	COS AIG 1X
*	AA517W	56J22-153	56TB3-B18	800 CPS 28 V 1 PCT HI IMU
*	A 461	56J22-171	56P10- 8	MAIN PANEL GIMBAL LOCK LIGHT
	AA647	56J22-172	56TB3-F 2	SPACECRAFT LAMP TEST
*	AA518	56J22-190	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
*	A 389L	56J22-192	56J09- 17	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT
*	A 389W	56J22-193	56J09- 3	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 387R	56J22-195	56J09- 18	PITCH ATTIT IMPULSE CONTR INPUT

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 388L	56J22-197	56J09- 6	YAW ATTIT IMPULSE CONTR OUTPUT LEFT
*	A 388W	56J22-198	56J09- 20	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 393W	56J22-200	56J09- 40	0 VDC FROM NAA
*	AA292	56J22-206	56J17-M3	0 VDC SPACECRAFT
*	AA175	56J22-227	56J15-S3	LOCK CDU RELAY CONTROL
*	AA220	56J22-228	56J16-L1	FINE ALIGN RELAY CONTROL
*	A 389R	56J22-230	56J09- 16	ROLL ATTIT IMPULSE CONTR INPUT
*	A 387L	56J22-232	56J09- 5	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN
*	A 387W	56J22-233	56J09- 4	PITCH ATTIT IMPULSE CONTR OUTPUT UP
*	A 388R	56J22-235	56J09- 7	YAW ATTIT IMPULSE CONTR INPUT
*	A 393R	56J22-237	56J09- 41	+28 VDC FROM NAA
*	A 393L	56J22-238	56J09- 50	ATTITUDE DISABLE SIG TO NAA
*	AA293	56J22-243	56J17-L3	IMU TEMP LIGHT (MAIN PANEL)
*	AA 74	56J22-244	56J12-G3	ERROR DETECT LIGHT MAIN PANEL

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 150R	56P01- 1	56J06- 1	PITCH ATTITUDE ERROR METER +	
*	A 150W	56P01- 2	56J06- 2	PITCH ATTITUDE ERROR METER -	
	A 26	56P01- 4	56TB1-D 6	COARSE ALIGN RELAY CONTROL	
	A 10	56P01- 5	56TB2-C 1	FINE ALIGN RELAY CONTROL	
*	A 161	56P01- 6	56J06- 6	ENTRY RELAY CONTROL RESET	
	A 21	56P01- 7	56TB3-S21	+28 VDC IMU	
*	A 160	56P01- 9	56J06- 9	MODE SWITCH INTERLOCK	
	A 19W	56P01- 10	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU	
	A 19R	56P01- 11	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU	
	A 8	56P01- 12	56TB2-B 2	ZERO ENCODER RELAY CONTROL	
	A 5	56P01- 13	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC	
*	A 151R	56P01- 14	56J06- 14	YAW ATTITUDE ERROR METER +	
*	A 151W	56P01- 15	56J06- 15	YAW ATTITUDE ERROR METER -	
*	A 157	56P01- 18	56J06- 18	MODE RELAY COMMON TO D AND C ELECT	
*	A 175	56P01- 22	56J06- 22	ATTITUDE CONTROL MODE LIGHT	
*	A 165	56P01- 23	56J06- 23	FINE ALIGN RELAY CONTROL	
	A 12	56P01- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL	
*	A 167	56P01- 25	56J06- 25	ENTRY RELAY CONTROL	
	A 22	56P01- 26	56TB1-U 2	IMU DELAY LIGHT HI	
	A 6	56P01- 27	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC	
*	A 152W	56P01- 28	56J06- 28	ROLL ATTITUDE ERROR METER -	
*	A 152R	56P01- 29	56J06- 29	ROLL ATTITUDE ERROR METER +	
*	A 162	56P01- 34	56J06- 34	ZERO ENCODER RELAY CONTROL	
*	A 163	56P01- 35	56J06- 35	COARSE ALIGN RELAY CONTROL	
*	A 164	56P01- 36	56J06- 36	CDU MANUAL RELAY CONTROL	
	A 30	56P01- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL	
	A 3	56P01- 38	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC	
	A 16W	56P01- 39	56J21-226	ENTRY MODE INDICATION TO AGC	163A
	A 31	56P01- 45	56TB3-M 2	IMU TD RELAY C	
*	A 177	56P01- 46	56J06- 46	ATTITUDE CONTROL MODE INTERLOCK	
	A 4	56P01- 48	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC	
	A 15W	56P01- 49	56J21-222	FINE ALIGN MODE INDICATION TO AGC	161A
	A 32	56P01- 55	56TB3-L 2	IMU TD PELAY NO	
*	A 170	56P01- 56	56J06- 56	MANUAL ALIGN	
	A 9	56P01- 57	56TB2-R 4	ENTRY RELAY CONTROL	
	A 7	56P01- 58	56TB1-K 6	ENTRY MODE COMMAND FROM AGC	
	A 14W	56P01- 59	56J21-154	COARSE ALIGN MODE INDICATION TO AGC	159A
	A 2	56P01- 65	56TB3-L 1	IRIG TEMP GAIN SWITCH NC	
	A 13W	56P01- 68	56TB2-D 2	AGC COM	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 11	56P01- 69	56TB2-B 1	LOCK CDU RELAY CONTROL
	A 24R	56P01- 70	56TB2-H 2	IG CDU 1X ERROR SIG
	A 24W	56P01- 71	56TB2-G 2	IG CDU ERROR SIG RET
	A 27W	56P01- 76	56J21-224	ATTIT CONT MODE INDICATION TO AGC 162A
	A 20	56P01- 78	56TB2-M 4	0 VDC IMU
*	A 176	56P01- 79	56J06- 79	ENTRY MODE LIGHT
	A 1R	56P01- 80	56TB2-A 2	PANEL BRIGHTNESS CONTROL
	A 25R	56P01- 82	56TB2-H 7	MG CDU 1X ERROR SIG
	A 25W	56P01- 83	56TB2-G 7	MG CDU ERROR SIG RET
	A 33	56P01- 84	56TB3-B20	STRUCTURE GND
	A 28	56P01- 88	56TB3-F 3	CONDITION LAMP TEST
	A 29	56P01- 89	56TB3-M21	+28 VDC MDV
	A 602K	56P01- 90	56TB1-M 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
	A 18	56P01- 91	56TB1-K 1	MODE LAMP TEST PWR
*	A 172	56P01- 92	56J06- 92	COARSE ALIGN MODE LIGHT
*	A 168	56P01- 93	56J06- 93	MODE RELAY COMMON
*	A 174	56P01- 94	56J06- 94	FINE ALIGN MODE LIGHT
	A 1W	56P01- 95	56TB2-A 1	PANEL BRIGHTNESS CONTROL
	A 23R	56P01- 96	56TB2-N 2	OG CDU 1X ERROR SIG
	A 23W	56P01- 97	56TB2-R 2	OG CDU ERROR SIG RET
	A 602R	56P01-103	56TB1-R 1	400 CPS VAR ILLUM PWR
*	A 171	56P01-104	56J06-104	ZERO ENCODER MODE LIGHT
*	A 173	56P01-105	56J06-105	CDU MANUAL MODE LIGHT
	A 602L	56P01-106	56TB1-N 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
	A 602W	56P01-108	56TB1-T 1	400 CPS VAR ILLUM PWR

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 216R	56P02-A	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
A 227R	56P02-A*	56TB3-F14	COS AIG 1X S3
A 216W	56P02-B	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
A 227W	56P02-B*	56TB3-F13	COS AIG 1X RET S1
A 217R	56P02-C	56TB2-W 4	COS AOG 16X S3
A 217W	56P02-D	56TB2-W 3	COS AOG 16X S1
A 218R	56P02-E	56TB2-X 3	SIN AOG 16X S2
A 218W	56P02-F	56TB2-W 2	SIN AOG 16X S4
A 228R	56P02-F*	56TB3-D13	SIN AIG 1X RET S2
A 219R	56P02-G	56TB2-U 5	COS AMG 16X S3
A 228W	56P02-G*	56TB3-D14	SIN AIG 1X S4
A 219W	56P02-H	56TB2-T 5	COS AMG 16X S1
A 220R	56P02-J	56TB2-A 7	SIN AMG 16X S2
A 220W	56P02-K	56TB2-B 7	SIN AMG 16X S4
A 221R	56P02-L	56TB3-N20	COS AMG 1X S3
A 221W	56P02-M	56TB3-N21	COS AMG 1X S1
A 222W	56P02-N	56TB3-C13	SIN AMG 1X RET S2
A 222R	56P02-P	56TB3-C14	SIN AMG 1X S4
A 223R	56P02-R	56TB1-D 2	3200 CPS 2 V HI
A 223W	56P02-S	56TB1-C 2	3200 CPS 2 V LO
A 224R	56P02-T	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
A 224W	56P02-U	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
A 225R	56P02-W	56TB2-W 6	COS AIG 16X S3
A 225W	56P02-X	56TB2-X 7	COS AIG 16X S1
A 226R	56P02-Y	56TB2-A 8	SIN AIG 16X S2
A 226W	56P02-Z	56TB2-B 8	SIN AIG 16X S4

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 229W	56P03-A	56TB1-C 7	X GYRO ERROR SIG
A 239W	56P03-A*	56TB1-A 3	MG TORQUE MOTOR RET
A 230W	56P03-B	56TB1-C 8	Z GYRO ERROR SIG
A 240R	56P03-B*	56TB1-A 3	MG TORQUE MOTOR RET
A 231R	56P03-C	56TB1-A 8	IMU OG ERROR SIG
A 240W	56P03-C*	56TB1-A 4	MG TORQUE MOTOR HI
A 232R	56P03-D	56TB2-N 8	COS AOG 1X S3
A 241R	56P03-D*	56TB1-D 3	IG TORQUE MOTOR HI
A 232W	56P03-E	56TB2-N 7	COS AOG 1X S1
A 241W	56P03-E*	56TB1-D 4	IG TORQUE MOTOR RET
A 233R	56P03-F	56TB2-U 8	SIN AOG 1X S4
A 242R	56P03-F*	56TB1-D 4	IG TORQUE MOTOR RET
A 233W	56P03-G	56TB2-U 7	SIN AOG 1X S2
A 242W	56P03-G*	56TB1-D 3	IG TORQUE MOTOR HI
A 234W	56P03-H	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR
A 244	56P03-H*	56TB3-T20	+28 VDC IMU
A 234R	56P03-J	56TB1-B 5	IG CDU ERROR SIG RET
A 243	56P03-J*	56TB3-F 5	GIMBAL LOCK SIGNAL
A 235R	56P03-K	56TB1-A 6	MG CDU ERROR SIG RET
A 235W	56P03-L	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR
A 236W	56P03-M	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
A 236R	56P03-N	56TB3-R 4	PITCH YAW RSVR S3
A 237W	56P03-P	56TB3-M13	PITCH ERROR BODY AND BODY OFFSET AXIS LO
A 237R	56P03-R	56TB3-M14	PITCH-YAW RSVR S4
A 231L	56P03-U	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 231W	56P03-V	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 231K	56P03-W	56TB1-A 7	IMU MG ERROR SIG
A 238R	56P03-X	56TB1-B 2	OG TORQUE MOTOR RET
A 238W	56P03-Y	56TB1-A 2	OG TORQUE MOTOR HI
A 239R	56P03-Z	56TB1-A 4	MG TORQUE MOTOR HI

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 268W	56P04-A	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
*	A 268R	56P04-C	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
*	A 251W	56P04-F	56P05-FF	AS 16X RSVR P4 TRIM
*	A 251R	56P04-H	56P05-EE	AS 16X RSVR P2 TRIM
*	A 267W	56P04-J	56P05-W	AT 64X RSVR P4 TRIM
*	A 267R	56P04-K	56P05-X	AT 64X RSVR P2 TRIM

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 259W	56P05-A	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING RED
A 253R	56P05-A*	56TB3-S 8	SXT AT 64X RSVR COS HI
A 264	56P05-AA	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
A 259R	56P05-B	56TB3-C18	+28 VDC OPTICS
A 253W	56P05-B*	56TB3-S 7	SXT AT 64X RSVR COS LO
A 263W	56P05-BB	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
A 259L	56P05-C	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING BLK
A 254R	56P05-C*	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
A 265R	56P05-CC	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
* A 247R	56P05-CC	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
A 598R	56P05-D	56TB2-U 2	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
A 254W	56P05-D*	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
A 265W	56P05-DD	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
* A 247W	56P05-DD	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
A 598W	56P05-E	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 255W	56P05-E*	56TB3-F16	TRUNNION CDU 1/4X COS HI
A 251R	56P05-EE	56P04-H	AS 16X RSVR P2 TRIM
A 255R	56P05-F*	56TB3-G16	TRUNNION CDU 1/4X COS LO
A 251W	56P05-FF	56P04-F	AS 16X RSVR P4 TRIM
A 256R	56P05-G*	56TB3-G10	TRUNNION CDU 1/4X SIN HI
A 256W	56P05-H*	56TB3-F10	TRUNNION CDU 1/4X SIN LO
A 263R	56P05-HH	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
A 246W	56P05-I*	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING RED
A 247W	56P05-J	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
A 268R	56P05-J	56P04-C	800 CPS 28 V 1 PCT LO OPTICS
A 246L	56P05-J*	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING BLK
A 247R	56P05-K	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS
A 268W	56P05-K	56P04-A	800 CPS 28 V 1 PCT HI OPTICS
A 257R	56P05-K*	56TB3-T16	SXT TRUNNION TACH HI
A 266R	56P05-L	56TB1-T 1	400 CPS VAR ILLUM PWR
A 266W	56P05-M	56TB1-T 2	400 CPS 6 V LO
A 257W	56P05-M*	56TB3-T17	SXT TRUNNION TACH LO
A 248W	56P05-N*	56TB3-R 7	SXT AS 16X RSVR SIN LO
A 246R	56P05-P	56TB3-C18	+28 VDC OPTICS
A 248R	56P05-P*	56TB3-R 8	SXT AS 16X RSVR SIN HI
A 258R	56P05-Q*	56TB3-R10	SXT AS 16X RSVR COS LO
A 270	56P05-R	56TB3-F21	STRUCTURE GND
A 258W	56P05-R*	56TB3-R11	SXT AS 16X RSVR COS HI
A 249	56P05-S	56TB3-K21	0 VDC OPTICS

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SCALE - NONE	REV LTR K	SHEET 74

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 250	56P05-T	56TB3-K21	0 VDC OPTICS
A 260R	56P05-U*	56TB3-S17	SXT SHAFT TACH HI
A 260W	56P05-V*	56TB3-S16	SXT SHAFT TACH LO
A 267W	56P05-W	56P04-J	AT 64X RSVR P4 TRIM
A 261R	56P05-W*	56TB3-N13	SHAFT CDU 1/2X COS LO P4
A 267R	56P05-X	56P04-K	AT 64X RSVR P2 TRIM
A 261W	56P05-X*	56TB3-N14	SHAFT CDU 1/2X COS HI P2
A 252W	56P05-Y	56TB3-T 7	SXT AT 64X RSVR SIN HI
A 262R	56P05-Y*	56TB3-K10	SHAFT CDU 1/2X SIN HI P1
A 252R	56P05-Z	56TB3-T 8	SXT AT 64X RSVR SIN LO
A 262W	56P05-Z*	56TB3-K11	SHAFT CDU 1/2X SIN LO P3

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014607
SCALE - NONE	REV LTR K	SHEET 75

MIL 2064-4-64

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 271R	56P06-A	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 286	56P06-A*	56TB3-K 3	IRIG TEMP IND SENSOR RET
A 271W	56P06-B	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO
A 282R	56P06-B*	56TB3-L13	PRESSURE SENSOR +28 VDC HI
A 271L	56P06-C	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 282W	56P06-C*	56TB3-K13	PRESSURE SENSOR +28 VDC LO
A 284	56P06-D	56TB3-T20	+28 VDC IMU
A 283R	56P06-D*	56TB3-K19	IMU PRESSURE MONITOR HI
A 287	56P06-E	56TB2-D 4	0 VDC IMU
A 283W	56P06-E*	56TB3-H19	IMU PRESSURE MONITOR LO
A 272	56P06-F	56TB1-D 5	-28 VDC
A 281R	56P06-F*	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 288	56P06-G	56TB3-F21	STRUCTURE GND
A 281W	56P06-G*	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 273R	56P06-H	56TB1-A 2	OG TORQUE MOTOR HI
A 273W	56P06-J	56TB1-B 2	OG TORQUE MOTOR RET
A 274	56P06-K	56TB3-G 5	IMU TEMP SENSOR COM
A 275W	56P06-L	56TB3-L 3	IRIG TEMP CONT SENSOR RET
A 275R	56P06-M	56TB3-L 4	IRIG TEMP CONT SENSOR HI
A 276	56P06-N	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 285	56P06-P	56TB3-M 1	ACCEL TEMP IND SENSOR RET
A 279W	56P06-R	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY
A 278R	56P06-V	56TB3-N 5	IMU CONTROL HTR HI
A 278W	56P06-W	56TB3-N 4	IMU CONTROL HTR LO
A 279R	56P06-X	56TB3-N 1	IMU EMERGENCY HTR HI
A 277	56P06-Y	56TB3-N 6	EMERG HTR CONT MODULE LO
A 280	56P06-Z	56TB3-H 4	IRIG TEMP IND SENSOR HI

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SCALE - NONE	REV LTR K	SHEET 76

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 289R	56P07-A	56TB1-T 8	Z GYRO TORQUE +
A 296W	56P07-A*	56TB1-N 2	Y PIP ERROR LO
A 289W	56P07-B	56TB1-U 7	Z GYRO TORQUE RET
A 297R	56P07-B*	56TB1-T 5	Z PIP ERROR HI
A 289L	56P07-C	56TB1-U 8	Z GYRO TORQUE -
A 297W	56P07-C*	56TB1-T 4	Z PIP ERROR LO
A 290R	56P07-D	56TB1-M 8	X GYRO TORQUE +
A 290W	56P07-E	56TB1-L 8	X GYRO TORQUE RET
A 290L	56P07-F	56TB1-L 7	X GYRO TORQUE -
A 298R	56P07-F*	56TB1-C 3	OG ADA
A 291R	56P07-G	56TB1-T 6	Y GYRO TORQUE +
A 298L	56P07-G*	56TB1-B 4	MG ADA
A 291W	56P07-H	56TB1-U 5	Y GYRO TORQUE RET
A 298K	56P07-H*	56TB1-C 4	IG ADA
A 291L	56P07-J	56TB1-U 6	Y GYRO TORQUE -
A 298W	56P07-J*	56TB1-B 3	0 VDC IMU
A 292R	56P07-K	56TB1-U 4	Z PIP TORQUE +
A 292W	56P07-L	56TB1-T 3	Z PIP TORQUE RET
A 292L	56P07-M	56TB1-U 3	Z PIP TORQUE -
A 293R	56P07-N	56TB1-L 4	Y PIP TORQUE +
A 293W	56P07-P	56TB1-L 3	Y PIP TORQUE RET
A 293L	56P07-R	56TB1-M 4	Y PIP TORQUE -
A 294R	56P07-U	56TB1-M 5	X PIP TORQUE +
A 294W	56P07-V	56TB1-L 6	X PIP TORQUE RET
A 294L	56P07-W	56TB1-L 5	X PIP TORQUE -
A 295R	56P07-X	56TB1-M 7	X PIP ERROR HI
A 295W	56P07-Y	56TB1-M 6	X PIP ERROR LO
A 296R	56P07-Z	56TB1-M 3	Y PIP ERROR HI

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 299R	56P08-A	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 299W	56P08-B	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 315	56P08-B*	56TB3-K15	0 VDC OPTICS
A 308W	56P08-C*	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING RED
A 308L	56P08-D*	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING BLK
A 300W	56P08-E	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING RED
A 309R	56P08-E*	56TB3-N16	SCT SHAFT TACH HI
A 300R	56P08-F	56TB3-C19	+28 VDC OPTICS
A 309W	56P08-F*	56TB3-N17	SCT SHAFT TACH LO
A 300L	56P08-G	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING BLK
A 310R	56P08-G*	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
A 308R	56P08-H	56TB3-C19	+28 VDC OPTICS
A 311	56P08-H*	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
A 310W	56P08-I*	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
A 301R	56P08-J	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
A 312W	56P08-J*	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 301W	56P08-K	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
A 312R	56P08-K*	56TB3-K11	SHAFT CDU 1/2X SIN LO P1
A 313W	56P08-M*	56TB3-N13	SHAFT CDU 1/2X COS LO P2
A 302R	56P08-N	56TB3-R17	SCT TRUNNION TACH HI
A 313R	56P08-N*	56TB3-N14	SHAFT CDU 1/2X COS HI P4
A 302W	56P08-P	56TB3-R16	SCT TRUNNION TACH LO
A 303	56P08-R	56TB3-K15	0 VDC OPTICS
A 314R	56P08-R*	56TB1-T 1	400 CPS VAR ILLUM PWR
A 304W	56P08-S	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
A 314W	56P08-S*	56TB1-T 2	400 CPS 6 V LO
A 304R	56P08-T	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
A 316	56P08-T*	56TB3-F22	STRUCTURE GND
A 305	56P08-U	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
A 306R	56P08-V	56TB3-S13	SCT TRUNNION 1X SIN LO
A 306W	56P08-W	56TB3-S14	SCT TRUNNION 1X SIN HI
A 307R	56P08-X	56TB3-T14	SCT TRUNNION 1X COS HI
A 307W	56P08-Y	56TB3-T13	SCT TRUNNION 1X COS LO

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 355R	56P09- 1	56TB3-D13	SIN AIG 1X RET
A 356R	56P09- 2	56TB3-F13	COS AIG 1X RET
A 356W	56P09- 3	56TB3-F14	COS AIG 1X
A 330	56P09- 4	56TB3-R20	+28 VDC AGC
A 317R	56P09- 5	56TB3-T19	+20 VDC CONDITIONING
A 317W	56P09- 6	56TB3-S19	0 VDC CONDITIONING
A 386W	56P09- 7	56TB3-R19	+2.5 VDC CONDITIONING HI
A 318W	56P09- 8	56TB3-B19	800 CPS 28 V 1 PCT LO IMU
A 318R	56P09- 9	56TB3-B18	800 CPS 28 V 1 PCT HI IMU
A 342	56P09- 10	56TB3-F 5	GIMBAL LOCK SIGNAL
A 344	56P09- 11	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 336	56P09- 12	56TB1-H 8	ERROR DETECT LIGHT HI
A 332	56P09- 13	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 355W	56P09- 14	56TB3-D14	SIN AIG 1X
A 357R	56P09- 15	56TB3-C13	SIN AMG 1X RET
A 359R	56P09- 16	56TB2-U 7	SIN AOG 1X S2
A 359W	56P09- 17	56TB2-U 8	SIN AOG 1X S4
A 331	56P09- 18	56TB3-N19	0 VDC AGC
A 327	56P09- 19	56TB3-T21	+28 VDC IMU
A 326	56P09- 20	56TB3-N22	+28 VDC STBY
A 386R	56P09- 21	56TB3-S20	+2.5 VDC CONDITIONING LO
A 320R	56P09- 22	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 343	56P09- 23	56TB1-S 5	0 VDC IMU
A 348	56P09- 24	56E 21	0 VDC IMU
A 341	56P09- 25	56E 21	0 VDC IMU
A 340	56P09- 26	56E 21	0 VDC IMU
A 337	56P09- 27	56E 21	0 VDC IMU
A 358R	56P09- 28	56TB3-N20	COS AMG 1X S3
A 357W	56P09- 29	56TB3-C14	SIN AMG 1X
A 360R	56P09- 30	56TB2-N 8	COS AOG 1X S3
A 360W	56P09- 31	56TB2-N 7	COS AOG 1X S1
A 385	56P09- 32	56TB2-F 4	0 VDC IMU
A 349	56P09- 33	56TB1-L 2	X PIP ERROR MONITOR
A 320W	56P09- 34	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 346	56P09- 35	56TB3-B 4	ZERO ENCODER LIGHT HI
A 347	56P09- 36	56E 21	0 VDC IMU
A 339	56P09- 37	56E 21	0 VDC IMU
A 338W	56P09- 38	56TB2-R 3	OG CDU ERROR SIG RET
A 338R	56P09- 39	56TB2-N 3	OG CDU 16X ERROR SIG

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 358W	56P09- 40	56TB3-N21	COS AMG 1X S1
A 361	56P09- 41	56TB1-C 8	Z GYRO ERROR SIG
A 379R	56P09- 42	56TB3-K19	IMU PRESSURE MONITOR HI
A 350	56P09- 43	56TB1-M 2	Y PIP ERROR MONITOR
A 351	56P09- 44	56TB1-T 7	Z PIP ERROR MONITOR
A 321R	56P09- 45	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
A 345	56P09- 46	56TB1-U 2	IMU DELAY LIGHT HI
A 335	56P09- 47	56TB3-B 3	CDU FAIL LIGHT HI
A 334	56P09- 48	56TB3-M 6	IMU FAIL LIGHT HI
A 333	56P09- 49	56TB3-B 5	ACCEL FAIL LIGHT HI
A 363W	56P09- 50	56TB1-A 8	IMU OG ERROR SIG
A 363K	56P09- 51	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 362	56P09- 52	56TB1-C 7	X GYRO ERROR SIG
A 379W	56P09- 53	56TB3-H19	IMU PRESSURE MONITOR LO
A 381	56P09- 54	56TB3-M19	+3 VDC AGC
A 321W	56P09- 55	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
A 322R	56P09- 56	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 322W	56P09- 57	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 323W	56P09- 58	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
A 323R	56P09- 59	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
A 363R	56P09- 60	56TB1-A 7	IMU MG ERROR SIG
A 363L	56P09- 61	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 380	56P09- 62	56TB3-L19	+13 VDC AGC
A 382	56P09- 63	56TB3-N19	0 VDC AGC
A 371L	56P09- 64	56TB3-G19	AGC TEMP MONITOR NO 1
A 328	56P09- 65	56TB3-H20	+28 VDC OPTICS
A 329	56P09- 66	56TB3-L21	0 VDC OPTICS
A 319R	56P09- 67	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 325R	56P09- 68	56TB1-H 7	25.6 KC HI OPTICS
A 324R	56P09- 69	56TB1-H 4	25.6 KC HI IMU
A 365R	56P09- 70	56TB2-H 7	MG CDU 1X ERROR SIG
A 365W	56P09- 71	56TB2-G 7	MG CDU ERROR SIG RET
A 366R	56P09- 72	56TB2-N 2	OG CDU 1X ERROR SIG
A 370	56P09- 73	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
A 371R	56P09- 74	56TB3-F19	AGC TEMP MONITOR NO 2
A 371W	56P09- 75	56TB3-D19	AGC TEMP MONITOR NO 3
A 378R	56P09- 76	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
A 378W	56P09- 77	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
A 319L	56P09- 78	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 319W	56P09- 79	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 325W	56P09- 80	56TB1-G 7	25.6 KC LO OPTICS
A 324W	56P09- 81	56TB1-G 4	25.6 KC LO IMU
A 364W	56P09- 82	56TB2-G 2	IG CDU ERROR SIG RET
A 366W	56P09- 83	56TB2-R 2	OG CDU ERROR SIG RET
A 384	56P09- 84	56TB3-D 6	TEMPERATURE CONTROL SIG LO
A 368	56P09- 85	56TB3-C 5	IRIG TEMP (TELEMETRY)
A 383R	56P09- 86	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
A 372R	56P09- 87	56TB3-D 9	SHAFT CDU MDA (TEST) HI
A 372W	56P09- 88	56TB3-D10	SHAFT CDU MDA (TEST) LO
A 374R	56P09- 89	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
A 375R	56P09- 90	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
A 376R	56P09- 91	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
A 376W	56P09- 92	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
A 352R	56P09- 93	56TB1-D 4	IG TORQUE MOTOR RET
A 354R	56P09- 94	56TB1-B 2	OG TORQUE MOTOR RET
A 354W	56P09- 95	56TB1-A 2	OG TORQUE MOTOR HI
A 364R	56P09- 96	56TB2-H 2	IG CDU 1X ERROR SIG
A 369	56P09- 97	56TB3-D 5	HTR CURRENT (TELEMETERY)
A 367	56P09- 98	56TB3-D 4	ACCEL TEMP (TELEMETRY)
A 383W	56P09- 99	56TB3-C 8	TRUNNION CDU MDA LO (TEST)
A 373R	56P09-100	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
A 373W	56P09-101	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)
A 374W	56P09-102	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
A 375W	56P09-103	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
A 377R	56P09-104	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
A 377W	56P09-105	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
A 352W	56P09-106	56TB1-D 3	IG TORQUE MOTOR HI
A 353R	56P09-107	56TB1-A 3	MG TORQUE MOTOR RET
A 353W	56P09-108	56TB1-A 4	MG TORQUE MOTOR HI

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 665	56P10- 1	56TB3-B20	STRUCTURE GND
	A 461	56P10- 8	56J22-171	MAIN PANEL GIMBAL LOCK LIGHT
	A 462	56P10- 9	56TB3-F 1	0 VDC SPACECRAFT
	A 453	56P10- 10	56J09- 29	GIMBAL LOCK LIGHT CONDITION LAMP TEST
	A 454	56P10- 12	56TB3-F 5	GIMBAL LOCK SIGNAL
	A 452	56P10- 13	56TB1-S 5	0 VDC IMU
	A 455	56P10- 24	56TB2-S 8	GIMBAL LOCK LIGHT HI
	A 459R	56P10- 38	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
	A 459W	56P10- 39	56TB3-L 6	400 CPS 0.5 V PI PHASE
*	A 447	56P10- 48	56J09- 95	400 CPS 26 V HI
	A 460	56P10- 49	56TB3-B14	400 CPS 26 V LO
	A 607W	56P10- 68	56TB3-K14	400 CPS 115 V LO
	A 607R	56P10- 69	56TB3-L14	400 CPS 115 V HI
	A 663L	56P10- 81	56TB1-T 2	400 CPS 6 V LO
*	A 606W	56P10- 93	56J09- 62	400 CPS 6 V HI
	A 663R	56P10- 94	56TB1-R 2	400 CPS 6 V LO
	A 663W	56P10- 95	56TB1-S 2	400 CPS 6 V LO
*	A 606R	56P10-106	56J09- 61	400 CPS 6 V HI
*	A 606L	56P10-107	56J09- 53	400 CPS 6 V HI
*	A 606K	56P10-108	56J09- 52	400 CPS 6 V LO

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 633	56P11-A	56TB3-G21	+28 VDC AGC BUSS A	
A 634	56P11-A	56J21- 1	+28 VDC AGC BUSS A	167
A 635	56P11-A	56J21- 73	+28 VDC AGC BUSS A	167
A 609	56P11-B	56TB3-C20	+28 VDC IMU BUSS A	
A 610	56P11-B	56TB3-C20	+28 VDC IMU BUSS A	
A 611	56P11-B	56TB3-C20	+28 VDC IMU BUSS A	
A 612	56P11-C	56TB3-C21	+28 VDC IMU BUSS A	
A 613	56P11-C	56TB3-C21	+28 VDC IMU BUSS A	
A 614	56P11-C	56TB3-C21	+28 VDC IMU BUSS A	
A 649	56P11-D	56TB1-N 8	0 VDC IMU	
A 650	56P11-D	56TB1-S 6	0 VDC IMU	
A 654	56P11-E	56TB2-M 7	0 VDC IMU	
A 655	56P11-E	56TB2-V 4	0 VDC IMU	
A 651	56P11-F	56TB2-M 3	0 VDC IMU	
A 652	56P11-F	56TB2-D 4	0 VDC IMU	
A 653	56P11-F	56TB3-N 3	0 VDC IMU	
A 643	56P11-G	56TB3-D15	0 VDC OPTICS	
A 644	56P11-G	56TB3-K20	0 VDC OPTICS	
A 645	56P11-G	56TB3-L21	0 VDC OPTICS	
A 625	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A	
A 626	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A	
A 627	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A	
A 639	56P11-J	56J21- 2	0 VDC AGC	169
A 640	56P11-J	56J21- 74	0 VDC AGC	169
A 608W	56P11-K	56TB3-K14	400 CPS 115 V LO	
A 631	56P11-L	56TB3-F21	STRUCTURE GND	
A 623	56P11-M	56TB3-D22	+28 VDC STBY BUSS A	
A 624	56P11-M	56TB3-D22	+28 VDC STBY BUSS A	
A 608R	56P11-N	56TB3-L14	400 CPS 115 V HI	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 636	56P12-A	56TB3-G22	+28 VDC AGC BUSS B	
A 637	56P12-A	56J21-139	+28 VDC AGC BUSS B	168
A 638	56P12-A	56J21-207	+28 VDC AGC BUSS B	168
A 615	56P12-B	56TB3-D20	+28 VDC IMU BUSS B	
A 616	56P12-B	56TB3-D20	+28 VDC IMU BUSS B	
A 617	56P12-B	56TB3-D20	+28 VDC IMU BUSS B	
A 618	56P12-C	56TB3-D21	+28 VDC IMU BUSS B	
A 619	56P12-C	56TB3-D21	+28 VDC IMU BUSS B	
A 620	56P12-C	56TB3-D21	+28 VDC IMU BUSS B	
A 656	56P12-D	56TB1-N 4	0 VDC IMU	
A 657	56P12-D	56TB3-S 3	0 VDC IMU	
A 658	56P12-E	56TB3-T 3	0 VDC IMU	
A 659	56P12-E	56TB1-S 3	0 VDC IMU	
A 660	56P12-F	56TB2-M 1	0 VDC IMU	
A 661	56P12-F	56TB2-L 4	0 VDC IMU	
A 662	56P12-F	56TB1-D 7	0 VDC IMU	
A 646	56P12-G	56TB3-C15	0 VDC OPTICS	
A 647	56P12-G	56TB3-K22	0 VDC OPTICS	
A 648	56P12-G	56TB3-L20	0 VDC OPTICS	
A 628	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B	
A 629	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B	
A 630	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B	
A 641	56P12-J	56J21-140	0 VDC AGC	170
A 642	56P12-J	56J21-208	0 VDC AGC	170
A 632	56P12-L	56TB3-F22	STRUCTURE GND	
A 621	56P12-M	56TB3-C22	+28 VDC STBY BUSS B	
A 622	56P12-M	56TB3-C22	+28 VDC STBY BUSS B	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 238W	56TB1-A 2	56P03-Y	OG TORQUE MOTOR HI
*	A 273R	56TB1-A 2	56P06-H	OG TORQUE MOTOR HI
*	A 354W	56TB1-A 2	56P09- 95	OG TORQUE MOTOR HI
*	AA 34R	56TB1-A 2	56J11-H6	OG TORQUE MOTOR HI
*	A 239W	56TB1-A 3	56P03-A*	MG TORQUE MOTOR RET
*	A 240R	56TB1-A 3	56P03-B*	MG TORQUE MOTOR RET
*	A 353R	56TB1-A 3	56P09-107	MG TORQUE MOTOR RET
*	AA 32W	56TB1-A 3	56J11-G6	MG TORQUE MOTOR RET
*	A 239R	56TB1-A 4	56P03-Z	MG TORQUE MOTOR HI
*	A 240W	56TB1-A 4	56P03-C*	MG TORQUE MOTOR HI
*	A 353W	56TB1-A 4	56P09-108	MG TORQUE MOTOR HI
*	AA 32R	56TB1-A 4	56J11-F6	MG TORQUE MOTOR HI
*	A 235W	56TB1-A 5	56P03-L	MG CDU ATTITUDE STEERING ERROR
*	AA 20R	56TB1-A 5	56J11-C2	MG CDU ATTITUDE STEERING ERROR
	A 235B	56TB1-A 6	SHLD A 235	MG CDU ERROR SIG RET
*	A 235R	56TB1-A 6	56P03-K	MG CDU ERROR SIG RET
*	AA 20W	56TB1-A 6	56J11-B2	MG CDU ERROR SIG RET
*	A 231K	56TB1-A 7	56P03-W	IMU MG ERROR SIG
*	A 363R	56TB1-A 7	56P09- 60	IMU MG ERROR SIG
*	AA 29R	56TB1-A 7	56J11-A5	IMU MG ERROR SIG
*	A 231R	56TB1-A 8	56P03-C	IMU OG ERROR SIG
*	A 363W	56TB1-A 8	56P09- 50	IMU OG ERROR SIG
*	AA 29L	56TB1-A 8	56J11-A6	IMU OG ERROR SIG
*	A 238R	56TB1-B 2	56P03-X	OG TORQUE MOTOR RET
*	A 273W	56TB1-B 2	56P06-J	OG TORQUE MOTOR RET
*	A 354R	56TB1-B 2	56P09- 94	OG TORQUE MOTOR RET
*	AA 34W	56TB1-B 2	56J11-H5	OG TORQUE MOTOR RET
*	A 298W	56TB1-B 3	56P07-J*	0 VDC IMU
*	AA 23W	56TB1-B 3	56J11-G2	0 VDC IMU
*	A 298L	56TB1-B 4	56P07-G*	MG ADA
*	AA 23L	56TB1-B 4	56J11-H1	MG ADA
	A 234B	56TB1-B 5	SHLD A 234	IG CDU ERROR SIG RET
*	A 234R	56TB1-B 5	56P03-J	IG CDU ERROR SIG RET
*	AA 16W	56TB1-B 5	56J11-B1	IG CDU ERROR SIG RET
*	A 224W	56TB1-B 6	56P02-U	3200 CPS 2 V FEEDBACK LO
*	A 323W	56TB1-B 6	56P09- 58	3200 CPS 2 V FEEDBACK LO
*	AA 42R	56TB1-B 6	56J11-G3	3200 CPS 2 V FEEDBACK LO
*	A 231W	56TB1-B 7	56P03-V	IMU GIMBAL AND GYRO ERROR SIG LO
*	A 363K	56TB1-B 7	56P09- 51	IMU GIMBAL AND GYRO ERROR SIG LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 29K	56TB1-B 7	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO
*	AA155K	56TB1-B 7	56J15-B2	IMU GIMBAL AND GYRO ERROR SIG LO
*	A 231L	56TB1-B 8	56P03-U	IMU IG AND Y GYRO ERROR SIG
*	A 363L	56TB1-B 8	56P09- 61	IMU IG AND Y GYRO ERROR SIG
*	AA 29W	56TB1-B 8	56J11-B6	IMU IG AND Y GYRO ERROR SIG
*	AA155R	56TB1-B 8	56J15-A2	IMU IG AND Y GYRO ERROR SIG
*	A 223W	56TB1-C 2	56P02-S	3200 CPS 2 V LO
*	AA 28K	56TB1-C 2	56J11-L2	3200 CPS 2 V LO
*	AA 28L	56TB1-C 2	56J11-M2	3200 CPS 2 V LO
*	A 298R	56TB1-C 3	56P07-F*	OG ADA
*	AA 23K	56TB1-C 3	56J11-G1	OG ADA
*	A 298K	56TB1-C 4	56P07-H*	IG ADA
*	AA 23R	56TB1-C 4	56J11-F1	IG ADA
*	A 234W	56TB1-C 5	56P03-H	IG CDU ATTITUDE STEERING ERROR
*	AA 16R	56TB1-C 5	56J11-C1	IG CDU ATTITUDE STEERING ERROR
*	A 224R	56TB1-C 6	56P02-T	3200 CPS 2 V FEEDBACK HI
*	A 323R	56TB1-C 6	56P09- 59	3200 CPS 2 V FEEDBACK HI
*	AA 42W	56TB1-C 6	56J11-F3	3200 CPS 2 V FEEDBACK HI
*	A 229W	56TB1-C 7	56P03-A	X GYRO ERROR SIG
*	A 362	56TB1-C 7	56P09- 52	X GYRO ERROR SIG
*	AA155L	56TB1-C 7	56J15-B1	X GYRO ERROR SIG
*	A 230W	56TB1-C 8	56P03-B	Z GYRO ERROR SIG
*	A 361	56TB1-C 8	56P09- 41	Z GYRO ERROR SIG
*	AA155W	56TB1-C 8	56J15-A1	Z GYRO ERROR SIG
*	A 223R	56TB1-D 2	56P02-R	3200 CPS 2 V HI
*	AA 28R	56TB1-D 2	56J11-M1	3200 CPS 2 V HI
*	AA 28W	56TB1-D 2	56J11-L1	3200 CPS 2 V HI
*	A 241R	56TB1-D 3	56P03-D*	IG TORQUE MOTOR HI
*	A 242W	56TB1-D 3	56P03-G*	IG TORQUE MOTOR HI
*	A 352W	56TB1-D 3	56P09-106	IG TORQUE MOTOR HI
*	AA 30R	56TB1-D 3	56J11-D6	IG TORQUE MOTOR HI
*	A 241W	56TB1-D 4	56P03-E*	IG TORQUE MOTOR RET
*	A 242R	56TB1-D 4	56P03-F*	IG TORQUE MOTOR RET
*	A 352R	56TB1-D 4	56P09- 93	IG TORQUE MOTOR RET
*	AA 30W	56TB1-D 4	56J11-D5	IG TORQUE MOTOR RET
*	A 272	56TB1-D 5	56P06-F	-28 VDC
*	AA 27	56TB1-D 5	56J11-N6	-28 VDC
*	A 26	56TB1-D 6	56P01- 4	COARSE ALIGN RELAY CONTROL
*	AA 35	56TB1-D 6	56J11-L3	COARSE ALIGN RELAY CONTROL

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 224B	56TB1-D 7	SHLD A 224	0 VDC IMU	
	A 229B	56TB1-D 7	SHLD A 229	0 VDC IMU	
	AA572	56TB1-D 7	56TB1-D 8	0 VDC IMU	
	AA590	56TB1-D 7	56TB2-V 2	0 VDC IMU	
*	A 662	56TB1-D 7	56P12-F	0 VDC IMU	
	A 230B	56TB1-D 8	SHLD A 230	0 VDC IMU	
	AA587	56TB1-D 8	56TB1-N 8	0 VDC IMU	
*	AA572	56TB1-D 8	56TB1-D 7	0 VDC IMU	
*	A 466	56TB1-F 1	56J10- 7	SPARE FAIL LIGHT HI	305
*	A 565	56TB1-F 1	56J08- 50	SPARE FAIL LIGHT HI	
*	A 158	56TB1-F 8	56J06- 81	ATTIT CONT MODE COMMAND FROM AGC	
*	A 475	56TB1-F 8	56J10- 12	ATTIT CONT MODE COMMAND FROM AGC	314
*	A 179	56TB1-G 1	56J08- 67	+28 VDC MDV	
*	A 410	56TB1-G 1	56J09- 67	+28 VDC MDV	
*	A 271L	56TB1-G 2	56P06-C	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 319R	56TB1-G 2	56P09- 67	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	AA 60W	56TB1-G 2	56J12-P2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 324W	56TB1-G 4	56P09- 81	25.6 KC LO IMU	
*	A 564R	56TB1-G 4	56E 3	25.6 KC LO IMU	
*	AA 64R	56TB1-G 4	56J12-P5	25.6 KC LO IMU	
*	A 508	56TB1-G 5	56J10- 10	+28 VDC TO COMPUTER RELAY	327
*	AA 79	56TB1-G 5	56J12-M4	+28 VDC TO COMPUTER RELAY	
*	A 325W	56TB1-G 7	56P09- 80	25.6 KC LO OPTICS	
*	A 560W	56TB1-G 7	56E 16	25.6 KC LO OPTICS	
*	AA 63R	56TB1-G 7	56J12-N6	25.6 KC LO OPTICS	
*	A 271W	56TB1-H 2	56P06-B	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 319L	56TB1-H 2	56P09- 78	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	AA 60R	56TB1-H 2	56J12-R1	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 271R	56TB1-H 3	56P06-A	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 319W	56TB1-H 3	56P09- 79	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 60L	56TB1-H 3	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 324R	56TB1-H 4	56P09- 69	25.6 KC HI IMU	
*	A 564W	56TB1-H 4	56E 4	25.6 KC HI IMU	
*	AA 64W	56TB1-H 4	56J12-N4	25.6 KC HI IMU	
*	A 478	56TB1-H 5	56J10- 9	AGC FAIL SIG	326
*	AA 78	56TB1-H 5	56J12-M3	AGC FAIL SIG	
*	A 198	56TB1-H 6	56J08- 71	AGC POWER SUPPLY FAIL SIG HI	
*	A 332	56TB1-H 6	56P09- 13	AGC POWER SUPPLY FAIL SIG HI	
*	AA 80	56TB1-H 6	56J12-M1	AGC POWER SUPPLY FAIL SIG HI	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 325R	56TB1-H 7	56P09- 68	25.6 KC HI OPTICS	
*	A 560R	56TB1-H 7	56E 17	25.6 KC HI OPTICS	
*	AA 63W	56TB1-H 7	56J12-P6	25.6 KC HI OPTICS	
*	A 187	56TB1-H 8	56J08- 51	ERROR DETECT LIGHT HI	
*	A 336	56TB1-H 8	56P09- 12	ERROR DETECT LIGHT HI	
*	AA 83	56TB1-H 8	56J12-L2	ERROR DETECT LIGHT HI	
*	A 18	56TB1-K 1	56P01- 91	MODE LAMP TEST PWR	
*	A 605W	56TB1-K 1	56J09- 84	MODE LAMP TEST PWR	
*	A 4	56TB1-K 3	56P01- 48	COARSE ALIGN MODE COMMAND FROM AGC	
*	A 479L	56TB1-K 3	56J10- 22	COARSE ALIGN MODE COMMAND FROM AGC	308
*	A 3	56TB1-K 4	56P01- 38	ZERO ENCODER MODE COMMAND FROM AGC	
*	A 479W	56TB1-K 4	56J10- 21	ZERO ENCODER MODE COMMAND FROM AGC	307
*	A 5	56TB1-K 5	56P01- 13	FINE ALIGN MODE COMMAND FROM AGC	
*	A 479R	56TB1-K 5	56J10- 24	FINE ALIGN MODE COMMAND FROM AGC	310
*	A 7	56TB1-K 6	56P01- 58	ENTRY MODE COMMAND FROM AGC	
*	A 480R	56TB1-K 6	56J10- 25	ENTRY MODE COMMAND FROM AGC	311
*	A 154	56TB1-K 7	56J06- 12	MODE RELAY COMMON TO AGC	
*	A 480W	56TB1-K 7	56J10- 26	MODE RELAY COMMON TO AGC	312
*	A 521	56TB1-K 7	56J10- 13	MODE RELAY COMMON TO AGC	315
*	A 6	56TB1-K 8	56P01- 27	CDU MANUAL MODE COMMAND FROM AGC	
*	A 480L	56TB1-K 8	56J10- 23	CDU MANUAL MODE COMMAND FROM AGC	309
*	A 349	56TB1-L 2	56P09- 33	X PIP ERROR MONITOR	
*	AA120	56TB1-L 2	56J13-D2	X PIP ERROR MONITOR	
*	A 293W	56TB1-L 3	56P07-P	Y PIP TORQUE RET	
*	AA122W	56TB1-L 3	56J13-M3	Y PIP TORQUE RET	
*	A 293R	56TB1-L 4	56P07-N	Y PIP TORQUE +	
*	AA122R	56TB1-L 4	56J13-L3	Y PIP TORQUE +	
*	A 294L	56TB1-L 5	56P07-W	X PIP TORQUE -	
*	AA119L	56TB1-L 5	56J13-L1	X PIP TORQUE -	
*	A 294W	56TB1-L 6	56P07-V	X PIP TORQUE RET	
*	AA119W	56TB1-L 6	56J13-K1	X PIP TORQUE RET	
*	A 290L	56TB1-L 7	56P07-F	X GYRO TORQUE -	
*	AA124L	56TB1-L 7	56J13-G6	X GYRO TORQUE -	
*	A 290W	56TB1-L 8	56P07-E	X GYRO TORQUE RET	
*	AA124W	56TB1-L 8	56J13-F6	X GYRO TORQUE RET	
*	A 602K	56TB1-M 1	56P01- 90	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
*	A 605K	56TB1-M 1	56J09- 63	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
*	A 350	56TB1-M 2	56P09- 43	Y PIP ERROR MONITOR	
*	AA123	56TB1-M 2	56J13-F2	Y PIP ERROR MONITOR	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 296R	56TB1-M 3	56P07-Z	Y PIP ERROR HI
*	AA121W	56TB1-M 3	56J13-A3	Y PIP ERROR HI
*	A 293L	56TB1-M 4	56P07-R	Y PIP TORQUE -
*	AA122L	56TB1-M 4	56J13-N3	Y PIP TORQUE -
*	A 294R	56TB1-M 5	56P07-U	X PIP TORQUE +
*	AA119R	56TB1-M 5	56J13-H1	X PIP TORQUE +
*	A 295W	56TB1-M 6	56P07-Y	X PIP ERROR LO
*	AA118R	56TB1-M 6	56J13-B1	X PIP ERROR LO
*	A 295R	56TB1-M 7	56P07-X	X PIP ERROR HI
*	AA118W	56TB1-M 7	56J13-A1	X PIP ERROR HI
*	A 290R	56TB1-M 8	56P07-D	X GYRO TORQUE +
*	AA124R	56TB1-M 8	56J13-D6	X GYRO TORQUE +
*	A 602L	56TB1-N 1	56P01-106	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
*	A 605L	56TB1-N 1	56J09- 64	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
*	A 296W	56TB1-N 2	56P07-A*	Y PIP ERROR LO
*	AA121R	56TB1-N 2	56J13-B3	Y PIP ERROR LO
*	A 603R	56TB1-N 3	56J08- 55	PROJECTION LAMP HI INTENSITY
*	A 604R	56TB1-N 3	56J09- 55	PROJECTION LAMP HI INTENSITY
	A 293B	56TB1-N 4	SHLD A 293	0 VDC IMU
	A 587	56TB1-N 4	56TB1-N 5	0 VDC IMU
	AA122B	56TB1-N 4	SHLD AA122	0 VDC IMU
	AA588	56TB1-N 4	56TB1-S 8	0 VDC IMU
	AA589	56TB1-N 4	56TB2-M 5	0 VDC IMU
*	A 656	56TB1-N 4	56P12-D	0 VDC IMU
	A 294B	56TB1-N 5	SHLD A 294	0 VDC IMU
	A 588	56TB1-N 5	56TB1-N 8	0 VDC IMU
	AA119B	56TB1-N 5	SHLD AA119	0 VDC IMU
*	A 587	56TB1-N 5	56TB1-N 4	0 VDC IMU
*	AA 99	56TB1-N 5	56J12-R2	0 VDC IMU
	A 290B	56TB1-N 8	SHLD A 290	0 VDC IMU
	AA124B	56TB1-N 8	SHLD AA124	0 VDC IMU
*	A 588	56TB1-N 8	56TB1-N 5	0 VDC IMU
*	A 649	56TB1-N 8	56P11-D	0 VDC IMU
*	AA100	56TB1-N 8	56J12-R4	0 VDC IMU
*	AA587	56TB1-N 8	56TB1-D 8	0 VDC IMU
	AA611	56TB1-R 1	56TB1-S 1	400 CPS VAR ILLUM PWR
*	A 602R	56TB1-R 1	56P01-103	400 CPS VAR ILLUM PWR
*	A 605R	56TB1-R 1	56J09- 54	400 CPS VAR ILLUM PWR
	AA512	56TB1-R 2	56TB1-S 2	400 CPS 6 V LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 603K	56TB1-R 2	56J08- 19	400 CPS 6 V LO
*	A 603W	56TB1-R 2	56J08- 36	400 CPS 6 V LO
*	A 663R	56TB1-R 2	56P10- 94	400 CPS 6 V LO
*	A 603L	56TB1-R 3	56J08- 46	PROJECTION LAMP LO INTENSITY
*	A 604W	56TB1-R 3	56J09- 46	PROJECTION LAMP LO INTENSITY
	AA612	56TB1-S 1	56TB1-T 1	400 CPS VAR ILLUM PWR
*	A 153R	56TB1-S 1	56J06-108	400 CPS VAR ILLUM PWR
*	A 561R	56TB1-S 1	56E 9	400 CPS VAR ILLUM PWR
*	AA611	56TB1-S 1	56TB1-R 1	400 CPS VAR ILLUM PWR
	AA511	56TB1-S 2	56TB1-T 2	400 CPS 6 V LO
*	A 153W	56TB1-S 2	56J06-107	400 CPS 6 V LO
*	A 561W	56TB1-S 2	56E 10	400 CPS 6 V LO
*	A 663W	56TB1-S 2	56P10- 95	400 CPS 6 V LO
*	AA512	56TB1-S 2	56TB1-R 2	400 CPS 6 V LO
	A 292B	56TB1-S 3	SHLD A 292	0 VDC IMU
	AA591	56TB1-S 3	56TB2-M 4	0 VDC IMU
	AA632	56TB1-S 3	56TB1-S 4	0 VDC IMU
*	A 659	56TB1-S 3	56P12-E	0 VDC IMU
*	AA 46	56TB1-S 3	56J11-P6	0 VDC IMU
	AA127B	56TB1-S 4	SHLD AA127	0 VDC IMU
	AA633	56TB1-S 4	56TB1-S 5	0 VDC IMU
*	AA632	56TB1-S 4	56TB1-S 3	0 VDC IMU
	AA133B	56TB1-S 5	SHLD AA133	0 VDC IMU
	AA634	56TB1-S 5	56TB1-S 6	0 VDC IMU
*	A 211	56TB1-S 5	56J08- 92	0 VDC IMU
*	A 343	56TB1-S 5	56P09- 23	0 VDC IMU
*	A 452	56TB1-S 5	56P10- 13	0 VDC IMU
*	AA633	56TB1-S 5	56TB1-S 4	0 VDC IMU
	A 291B	56TB1-S 6	SHLD A 291	0 VDC IMU
*	A 650	56TB1-S 6	56P11-D	0 VDC IMU
*	AA 98	56TB1-S 6	56J12-R5	0 VDC IMU
*	AA601	56TB1-S 6	56TB1-S 7	0 VDC IMU
*	AA634	56TB1-S 6	56TB1-S 5	0 VDC IMU
	AA601	56TB1-S 7	56TB1-S 6	0 VDC IMU
	AA602	56TB1-S 7	56TB2-D 8	0 VDC IMU
*	A 556	56TB1-S 7	56E 19	0 VDC IMU
*	AA600	56TB1-S 7	56TB1-S 8	0 VDC IMU
	A 289B	56TB1-S 8	SHLD A 289	0 VDC IMU
	AA136B	56TB1-S 8	SHLD AA136	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA600	56TB1-S 8	56TB1-S 7	0 VDC IMU
*	AA588	56TB1-S 8	56TB1-N 4	0 VDC IMU
*	A 266R	56TB1-T 1	56P05-L	400 CPS VAR ILLUM PWR
*	A 314R	56TB1-T 1	56P08-R*	400 CPS VAR ILLUM PWR
*	A 602W	56TB1-T 1	56P01-108	400 CPS VAR ILLUM PWR
*	AA612	56TB1-T 1	56TB1-S 1	400 CPS VAR ILLUM PWR
*	A 266W	56TB1-T 2	56P05-M	400 CPS 6 V LO
*	A 314W	56TB1-T 2	56P08-S*	400 CPS 6 V LO
*	A 663L	56TB1-T 2	56P10- 81	400 CPS 6 V LO
*	AA511	56TB1-T 2	56TB1-S 2	400 CPS 6 V LO
*	A 292W	56TB1-T 3	56P07-L	Z PIP TORQUE RET
*	AA127W	56TB1-T 3	56J14-P3	Z PIP TORQUE RET
*	A 297W	56TB1-T 4	56P07-C*	Z PIP ERROR LO
*	AA126R	56TB1-T 4	56J14-A2	Z PIP ERROR LO
*	A 297R	56TB1-T 5	56P07-B*	Z PIP ERROR HI
*	AA126W	56TB1-T 5	56J14-A1	Z PIP ERROR HI
*	A 291R	56TB1-T 6	56P07-G	Y GYRO TORQUE +
*	AA133R	56TB1-T 6	56J14-M1	Y GYRO TORQUE +
*	A 351	56TB1-T 7	56P09- 44	Z PIP ERROR MONITOR
*	AA128	56TB1-T 7	56J14-H6	Z PIP ERROR MONITOR
*	A 289R	56TB1-T 8	56P07-A	Z GYRO TORQUE +
*	AA136R	56TB1-T 8	56J14-L6	Z GYRO TORQUE +
*	A 22	56TB1-U 2	56P01- 26	IMU DELAY LIGHT HI
*	A 193	56TB1-U 2	56J08- 42	IMU DELAY LIGHT HI
*	A 345	56TB1-U 2	56P09- 46	IMU DELAY LIGHT HI
*	A 292L	56TB1-U 3	56P07-M	Z PIP TORQUE -
*	AA127L	56TB1-U 3	56J14-P2	Z PIP TORQUE -
*	A 292R	56TB1-U 4	56P07-K	Z PIP TORQUE +
*	AA127R	56TB1-U 4	56J14-P1	Z PIP TORQUE +
*	A 291W	56TB1-U 5	56P07-H	Y GYRO TORQUE RET
*	AA133W	56TB1-U 5	56J14-M3	Y GYRO TORQUE RET
*	A 291L	56TB1-U 6	56P07-J	Y GYRO TORQUE -
*	AA133L	56TB1-U 6	56J14-M2	Y GYRO TORQUE -
*	A 289W	56TB1-U 7	56P07-B	Z GYRO TORQUE RET
*	AA136W	56TB1-U 7	56J14-N6	Z GYRO TORQUE RET
*	A 289L	56TB1-U 8	56P07-C	Z GYRO TORQUE -
*	AA136L	56TB1-U 8	56J14-M6	Z GYRO TORQUE -

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 1W	56TB2-A 1	56P01- 95	PANEL BRIGHTNESS CONTROL
*	A 431W	56TB2-A 1	56J09- 44	PANEL BRIGHTNESS CONTROL
*	A 1R	56TB2-A 2	56P01- 80	PANEL BRIGHTNESS CONTROL
*	A 431R	56TB2-A 2	56J09- 32	PANEL BRIGHTNESS CONTROL
	A 92B	56TB2-A 4	SHLD A 92	OG CDU ENCODER COM
*	A 92R	56TB2-A 4	56J03- 94	OG CDU ENCODER COM
*	AA163R	56TB2-A 4	56J15-D3	OG CDU ENCODER COM
	A 45B	56TB2-A 5	SHLD A 45	IG CDU ENCODER COM
*	A 45R	56TB2-A 5	56J01- 94	IG CDU ENCODER COM
*	AA161R	56TB2-A 5	56J15-C1	IG CDU ENCODER COM
*	A 69L	56TB2-A 6	56J02-108	MG CDU ENCODER PHASE 2
*	AA162R	56TB2-A 6	56J15-D2	MG CDU ENCODER PHASE 2
*	A 220R	56TB2-A 7	56P02-J	SIN AMG 16X S2
*	AA172W	56TB2-A 7	56J15-F8	SIN AMG 16X S2
*	A 226R	56TB2-A 8	56P02-Y	SIN AIG 16X S2
*	AA171W	56TB2-A 8	56J15-D8	SIN AIG 16X S2
*	A 11	56TB2-B 1	56P01- 69	LOCK CDU RELAY CONTROL
*	AA174	56TB2-B 1	56J15-S3	LOCK CDU RELAY CONTROL
*	A 8	56TB2-B 2	56P01- 12	ZERO ENCODER RELAY CONTROL
*	AA173	56TB2-B 2	56J15-S1	ZERO ENCODER RELAY CONTROL
*	A 92W	56TB2-B 4	56J03-107	OG CDU ENCODER PHASE 1
*	AA163W	56TB2-B 4	56J15-D4	OG CDU ENCODER PHASE 1
*	A 45W	56TB2-B 5	56J01-107	IG CDU ENCODER PHASE 1
*	AA161W	56TB2-B 5	56J15-C2	IG CDU ENCODER PHASE 1
*	A 69W	56TB2-B 6	56J02-107	MG CDU ENCODER PHASE 1
*	AA162W	56TB2-B 6	56J15-F1	MG CDU ENCODER PHASE 1
*	A 68R	56TB2-B 7	56J02-101	SIN AMG 16X S4
*	A 220W	56TB2-B 7	56P02-K	SIN AMG 16X S4
*	AA172R	56TB2-B 7	56J15-F9	SIN AMG 16X S4
*	A 44R	56TB2-B 8	56J01-101	SIN AIG 16X S4
*	A 226W	56TB2-B 8	56P02-Z	SIN AIG 16X S4
*	AA171R	56TB2-B 8	56J15-D7	SIN AIG 16X S4
*	A 10	56TB2-C 1	56P01- 5	FINE ALIGN RELAY CONTROL
*	AA170	56TB2-C 1	56J15-H4	FINE ALIGN RELAY CONTROL
*	A 30	56TB2-C 2	56P01- 37	BACKUP MODE RELAY CONTROL
*	A 159	56TB2-C 2	56J06- 37	BACKUP MODE RELAY CONTROL
*	AA156	56TB2-C 2	56J15-R1	BACKUP MODE RELAY CONTROL
*	A 92L	56TB2-C 4	56J03-108	OG CDU ENCODER PHASE 2
*	AA163L	56TB2-C 4	56J15-C3	OG CDU ENCODER PHASE 2

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 45L	56TB2-C 5	56J01-108	IG CDU ENCODER PHASE 2
*	AA161L	56TB2-C 5	56J15-D1	IG CDU ENCODER PHASE 2
	A 69B	56TB2-C 6	SHLD A 69	MG CDU ENCODER COM
*	A 69R	56TB2-C 6	56J02- 94	MG CDU ENCODER COM
*	AA162L	56TB2-C 6	56J15-F2	MG CDU ENCODER COM
*	A 68W	56TB2-C 7	56J02- 87	SIN AMG 16X TO CDU
*	AA172L	56TB2-C 7	56J15-D9	SIN AMG 16X TO CDU
*	A 44W	56TB2-C 8	56J01- 87	SIN AIG 16X TO CDU
*	AA171L	56TB2-C 8	56J15-F7	SIN AIG 16X TO CDU
*	A 557	56TB2-D 1	56E 8	+28 VDC CDU NOT LOCK
*	AA177	56TB2-D 1	56J15-R6	+28 VDC CDU NOT LOCK
	AA569L	56TB2-D 2	56J16-B7	AGC COM
*	A 13W	56TB2-D 2	56P01- 68	AGC COM
*	A 155W	56TB2-D 2	56J06- 68	AGC COM
*	AA176L	56TB2-D 2	56J15-B3	AGC COM
*	AA487L	56TB2-D 2	56J21-121	AGC COM
	A 13B	56TB2-D 3	SHLD A 13	AGC SIG 178 SHLD RET
	A 155B	56TB2-D 3	SHLD A 155	AGC SIG 178 SHLD RET
	AA176B	56TB2-D 3	SHLD AA176	AGC SIG 178 SHLD RET
	AA487B	56TB2-D 3	SHLD AA487	AGC SIG 178 SHLD RET
*	AA569A	56TB2-D 3	SHLD AA569	AGC SIG 178 SHLD RET
	AA608	56TB2-D 4	56E 27	0 VDC IMU
*	A 287	56TB2-D 4	56P06-E	0 VDC IMU
*	A 652	56TB2-D 4	56P11-F	0 VDC IMU
*	AA605	56TB2-D 4	56TB2-D 5	0 VDC IMU
	A 458	56TB2-D 5	56E 48	0 VDC IMU
	AA605	56TB2-D 5	56TB2-D 4	0 VDC IMU
*	A 550	56TB2-D 5	56E 21	0 VDC IMU
*	AA604	56TB2-D 5	56TB2-D 6	0 VDC IMU
	AA604	56TB2-D 6	56TB2-D 5	0 VDC IMU
*	A 214	56TB2-D 6	56J08- 82	0 VDC IMU
*	A 450	56TB2-D 6	56J09- 26	0 VDC IMU
*	A 549	56TB2-D 6	56E 20	0 VDC IMU
*	AA603	56TB2-D 6	56TB2-D 7	0 VDC IMU
	A 68B	56TB2-D 7	SHLD A 68	0 VDC IMU
	A 220B	56TB2-D 7	SHLD A 220	0 VDC IMU
	AA577	56TB2-D 7	56TB2-D 8	0 VDC IMU
	AA603	56TB2-D 7	56TB2-D 6	0 VDC IMU
	A 44B	56TB2-D 8	SHLD A 44	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 226B	56TB2-D 8	SHLD A 226	0 VDC IMU
*	AA577	56TB2-D 8	56TB2-D 7	0 VDC IMU
*	AA602	56TB2-D 8	56TB1-S 7	0 VDC IMU
	A 24B	56TB2-F 2	SHLD A 24	IG CDU ERROR SIG RET
	A 39B	56TB2-F 2	SHLD A 39	IG CDU ERROR SIG RET
	A 364B	56TB2-F 2	SHLD A 364	IG CDU ERROR SIG RET
	AA580	56TB2-F 2	56TB2-G 2	IG CDU ERROR SIG RET
	AA569R	56TB2-F 3	56E 60	
*	A 13R	56TB2-F 3	56E 61	
*	A 155R	56TB2-F 3	56E 55	
*	AA176R	56TB2-F 3	56E 59	
*	AA487R	56TB2-F 3	56J21-122	
*	A 385	56TB2-F 4	56P09- 32	0 VDC IMU
*	AA637	56TB2-F 4	56J15-R2	0 VDC IMU
	A 25B	56TB2-F 7	SHLD A 25	MG CDU ERROR SIG RET
	A 63B	56TB2-F 7	SHLD A 63	MG CDU ERROR SIG RET
	A 365B	56TB2-F 7	SHLD A 365	MG CDU ERROR SIG RET
	AA579	56TB2-F 7	56TB2-G 7	MG CDU ERROR SIG RET
	A 42B	56TB2-G 1	SHLD A 42	IG CDU ERROR SIG RET
*	A 42W	56TB2-G 1	56J01- 90	IG CDU ERROR SIG RET
*	AA196R	56TB2-G 1	56J16-D2	IG CDU ERROR SIG RET
*	A 24W	56TB2-G 2	56P01- 71	IG CDU ERROR SIG RET
*	A 39W	56TB2-G 2	56J01- 45	IG CDU ERROR SIG RET
*	A 364W	56TB2-G 2	56P09- 82	IG CDU ERROR SIG RET
*	AA 15R	56TB2-G 2	56J11-B1	IG CDU ERROR SIG RET
*	AA195R	56TB2-G 2	56J16-D2	IG CDU ERROR SIG RET
*	AA580	56TB2-G 2	56TB2-F 2	IG CDU ERROR SIG RET
*	A 38W	56TB2-G 3	56J01- 57	IG CDU ERROR SIG RET S1
*	AA194R	56TB2-G 3	56J16-D2	IG CDU ERROR SIG RET
*	A 19R	56TB2-G 4	56P01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 216R	56TB2-G 4	56P02-A	800 CPS 28 V 1 PCT HI IMU
*	A 577R	56TB2-G 4	56E 1	800 CPS 28 V 1 PCT HI IMU
*	AA222R	56TB2-G 4	56J16-S4	800 CPS 28 V 1 PCT HI IMU
*	AA409W	56TB2-G 4	56J20-F5	800 CPS 28 V 1 PCT HI IMU
*	A 216W	56TB2-G 5	56P02-B	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	AA222W	56TB2-G 5	56J16-P4	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	A 62W	56TB2-G 6	56J02- 57	MG CDU ERROR SIG RET
*	AA199R	56TB2-G 6	56J16-D4	MG CDU ERROR SIG RET
*	A 25W	56TB2-G 7	56P01- 83	MG CDU ERROR SIG RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 63W	56TB2-G 7	56J02- 45	MG CDU ERROR SIG RET
*	A 365W	56TB2-G 7	56P09- 71	MG CDU ERROR SIG RET
*	AA 19R	56TB2-G 7	56J11-B2	MG CDU ERROR SIG RET
*	AA200R	56TB2-G 7	56J16-D4	MG CDU ERROR SIG RET
*	AA579	56TB2-G 7	56TB2-F 7	MG CDU ERROR SIG RET
	A 66B	56TB2-G 8	SHLD A 66	MG CDU ERROR SIG RET
*	A 66W	56TB2-G 8	56J02- 90	MG CDU ERROR SIG RET
*	AA201R	56TB2-G 8	56J16-D4	MG CDU ERROR SIG RET
*	A 42R	56TB2-H 1	56J01-104	IG CDU 16X ERROR SIG
*	AA196W	56TB2-H 1	56J16-C1	IG CDU 16X ERROR SIG
*	A 24R	56TB2-H 2	56P01- 70	IG CDU 1X ERROR SIG
*	A 39R	56TB2-H 2	56J01- 35	IG CDU 1X ERROR SIG S2
*	A 364R	56TB2-H 2	56P09- 96	IG CDU 1X ERROR SIG
*	AA 15W	56TB2-H 2	56J11-A1	IG CDU 1X ERROR SIG
*	AA195W	56TB2-H 2	56J16-C2	IG CDU 1X ERROR SIG
*	A 38R	56TB2-H 3	56J01- 67	IG CDU 1/2X ERROR SIG S3
*	AA194W	56TB2-H 3	56J16-D1	IG CDU 1/2X ERROR SIG
*	A 19W	56TB2-H 4	56P01- 10	800 CPS 28 V 1 PCT LO IMU
*	A 577W	56TB2-H 4	56E 2	800 CPS 28 V 1 PCT LO IMU
*	AA222L	56TB2-H 4	56J16-S3	800 CPS 28 V 1 PCT LO IMU
*	AA409R	56TB2-H 4	56J20-F6	800 CPS 28 V 1 PCT LO IMU
*	A 577L	56TB2-H 5	56E 5	ZEROING RSVR 800 CPS
*	AA222K	56TB2-H 5	56J16-R4	ZEROING RSVR 800 CPS
*	A 62R	56TB2-H 6	56J02- 67	MG CDU 1/2X ERROR SIG
*	AA199W	56TB2-H 6	56J16-D3	MG CDU 1/2X ERROR SIG
*	A 25R	56TB2-H 7	56P01- 82	MG CDU 1X ERROR SIG
*	A 63R	56TB2-H 7	56J02- 35	MG CDU 1X ERROR SIG
*	A 365R	56TB2-H 7	56P09- 70	MG CDU 1X ERROR SIG
*	AA 19W	56TB2-H 7	56J11-A2	MG CDU 1X ERROR SIG
*	AA200W	56TB2-H 7	56J16-C4	MG CDU 1X ERROR SIG
*	A 66R	56TB2-H 8	56J02-104	MG CDU 16X ERROR SIG
*	AA201W	56TB2-H 8	56J16-C3	MG CDU 16X ERROR SIG
*	A 321R	56TB2-K 1	56P09- 45	800 CPS 28 V 1 PCT HI OPTICS
*	A 416R	56TB2-K 1	56J09- 80	800 CPS 28 V 1 PCT HI OPTICS
*	A 558R	56TB2-K 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
*	AA224W	56TB2-K 1	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS
*	AA557	56TB2-K 1	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
	AA557	56TB2-K 2	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 265R	56TB2-K 2	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 301R	56TB2-K 2	56P08-J	800 CPS 28 V 1 PCT HI OPTICS
*	A 76W	56TB2-K 3	56J02- 32	MG CDU MDA OUTPUT
*	AA203R	56TB2-K 3	56J16-P3	MG CDU MDA OUTPUT
	AA555	56TB2-K 4	56TB2-L 4	0 VDC IMU
*	A 52R	56TB2-K 4	56J01- 43	0 VDC IMU
*	A 76R	56TB2-K 4	56J02- 43	0 VDC IMU
*	A 97R	56TB2-K 4	56J03- 43	0 VDC IMU
*	AA223	56TB2-K 4	56J16-P2	0 VDC IMU
*	A 97W	56TB2-K 5	56J03- 32	OG CDU MDA OUTPUT
*	AA215R	56TB2-K 5	56J16-N2	OG CDU MDA OUTPUT
*	A 97L	56TB2-K 6	56J03- 31	OG CDU MDA OUTPUT
*	AA215W	56TB2-K 6	56J16-N1	OG CDU MDA OUTPUT
*	A 102	56TB2-K 8	56J03- 30	+28 VDC IMU FOR OG MDA
*	AA212	56TB2-K 8	56J16-T2	+28 VDC IMU FOR OG MDA
*	A 321W	56TB2-L 1	56P09- 55	800 CPS 28 V 1 PCT LO OPTICS
*	A 416W	56TB2-L 1	56J09- 69	800 CPS 28 V 1 PCT LO OPTICS
*	A 558W	56TB2-L 1	56E 13	800 CPS 28 V 1 PCT LO OPTICS
*	AA224R	56TB2-L 1	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
*	AA556	56TB2-L 1	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
	AA556	56TB2-L 2	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 265W	56TB2-L 2	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
*	A 301W	56TB2-L 2	56P08-K	800 CPS 28 V 1 PCT LO OPTICS
*	A 76L	56TB2-L 3	56J02- 31	MG CDU MDA OUTPUT
*	AA203W	56TB2-L 3	56J16-R3	MG CDU MDA OUTPUT
	A 601	56TB2-L 4	56TB2-M 4	0 VDC IMU
*	A 169	56TB2-L 4	56J06- 78	0 VDC IMU
*	A 661	56TB2-L 4	56P12-F	0 VDC IMU
*	AA555	56TB2-L 4	56TB2-K 4	0 VDC IMU
*	A 52L	56TB2-L 5	56J01- 31	IG CDU MDA OUTPUT
*	AA198W	56TB2-L 5	56J16-R1	IG CDU MDA OUTPUT
*	A 52W	56TB2-L 6	56J01- 32	IG CDU MDA OUTPUT
*	AA198R	56TB2-L 6	56J16-P1	IG CDU MDA OUTPUT
	AA581	56TB2-M 1	56TB2-M 2	0 VDC IMU
*	A 660	56TB2-M 1	56P12-F	0 VDC IMU
*	AA 43	56TB2-M 1	56J11-R3	0 VDC IMU
*	AA461	56TB2-M 1	56J20-H2	0 VDC IMU
	AA582	56TB2-M 2	56TB2-M 3	0 VDC IMU
*	AA 44	56TB2-M 2	56J11-R1	0 VDC IMU
*	AA581	56TB2-M 2	56TB2-M 1	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA583	56TB2-M 3	56TB2-M 4	0 VDC IMU
*	A 651	56TB2-M 3	56P11-F	0 VDC IMU
*	AA 45	56TB2-M 3	56J11-R2	0 VDC IMU
*	AA582	56TB2-M 3	56TB2-M 2	0 VDC IMU
	AA584	56TB2-M 4	56TB2-M 5	0 VDC IMU
*	A 20	56TB2-M 4	56P01- 78	0 VDC IMU
*	A 601	56TB2-M 4	56TB2-L 4	0 VDC IMU
*	AA583	56TB2-M 4	56TB2-M 3	0 VDC IMU
*	AA591	56TB2-M 4	56TB1-S 3	0 VDC IMU
	AA585	56TB2-M 5	56TB2-M 6	0 VDC IMU
*	AA584	56TB2-M 5	56TB2-M 4	0 VDC IMU
*	AA589	56TB2-M 5	56TB1-N 4	0 VDC IMU
	AA586	56TB2-M 6	56TB2-M 7	0 VDC IMU
	AA592	56TB2-M 6	56TB3-T 3	0 VDC IMU
*	AA585	56TB2-M 6	56TB2-M 5	0 VDC IMU
*	A 654	56TB2-M 7	56P11-E	0 VDC IMU
*	AA460	56TB2-M 7	56J20-G1	0 VDC IMU
*	AA539	56TB2-M 7	56TB2-M 8	0 VDC IMU
*	AA586	56TB2-M 7	56TB2-M 6	0 VDC IMU
	A 87B	56TB2-M 8	SHLD A 87	0 VDC IMU
	A 232B	56TB2-M 8	SHLD A 232	0 VDC IMU
	A 360B	56TB2-M 8	SHLD A 360	0 VDC IMU
	AA506B	56TB2-M 8	SHLD AA506	0 VDC IMU
	AA539	56TB2-M 8	56TB2-M 7	0 VDC IMU
*	A 85R	56TB2-N 1	56J03- 67	OG CDU 1/2X ERROR SIG
*	AA206W	56TB2-N 1	56J16-D5	OG CDU 1/2X ERROR SIG
*	A 23R	56TB2-N 2	56P01- 96	OG CDU 1X ERROR SIG
*	A 86R	56TB2-N 2	56J03- 35	OG CDU 1X ERROR SIG
*	A 366R	56TB2-N 2	56P09- 72	OG CDU 1X ERROR SIG
*	AA 21W	56TB2-N 2	56J11-A3	OG CDU 1X ERROR SIG
*	AA207W	56TB2-N 2	56J16-C6	OG CDU 1X ERROR SIG
	AA571L	56TB2-N 3	56J17-A2	OG CDU 16X ERROR SIG
*	A 89R	56TB2-N 3	56J03-104	OG CDU 16X ERROR SIG
*	A 338R	56TB2-N 3	56P09- 39	OG CDU 16X ERROR SIG
*	AA208R	56TB2-N 3	56J16-C5	OG CDU 16X ERROR SIG
*	A 56	56TB2-N 5	56J01- 30	+28 VDC IMU FOR IG MDA
*	AA210	56TB2-N 5	56J16-S1	+28 VDC IMU FOR IG MDA
*	A 96R	56TB2-N 6	56J03-106	OG CDU MDA TACH SIG
*	AA214R	56TB2-N 6	56J16-A5	OG CDU MDA TACH SIG

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 87W	56TB2-N 7	56J03- 6	COS AOG 1X S1
*	A 232W	56TB2-N 7	56P03-E	COS AOG 1X S1
*	A 360W	56TB2-N 7	56P09- 31	COS AOG 1X S1
*	AA204R	56TB2-N 7	56J16-C8	COS AOG 1X S1
*	AA506R	56TB2-N 7	56J22-142	COS AOG 1X S1
*	A 232R	56TB2-N 8	56P03-D	COS AOG 1X S3
*	A 360R	56TB2-N 8	56P09- 30	COS AOG 1X S3
*	AA204W	56TB2-N 8	56J16-B8	COS AOG 1X S3
*	AA506L	56TB2-N 8	56J22-141	COS AOG 1X S3
*	A 85W	56TB2-R 1	56J03- 57	OG CDU ERROR SIG RET
*	AA206R	56TB2-R 1	56J16-D6	OG CDU ERROR SIG RET
*	A 23W	56TB2-R 2	56P01- 97	OG CDU ERROR SIG RET
*	A 86W	56TB2-R 2	56J03- 45	OG CDU ERROR SIG RET
*	A 366W	56TB2-R 2	56P09- 83	OG CDU ERROR SIG RET
*	AA 21R	56TB2-R 2	56J11-B3	OG CDU ERROR SIG RET
*	AA207R	56TB2-R 2	56J16-D6	OG CDU ERROR SIG RET
*	AA578	56TB2-R 2	56TB2-S 2	OG CDU ERROR SIG RET
	AA571R	56TB2-R 3	56J17-B2	OG CDU ERROR SIG RET
	AA615	56TB2-R 3	56TB2-S 3	OG CDU ERROR SIG RET
*	A 89W	56TB2-R 3	56J03- 90	OG CDU ERROR SIG RET
*	A 338W	56TB2-R 3	56P09- 38	OG CDU ERROR SIG RET
*	AA208W	56TB2-R 3	56J16-D6	OG CDU ERROR SIG RET
*	A 9	56TB2-R 4	56P01- 57	ENTRY RELAY CONTROL
*	AA221	56TB2-R 4	56J16-M1	ENTRY RELAY CONTROL
*	A 80	56TB2-R 5	56J02- 30	+28 VDC IMU FOR MG MDA
*	AA211	56TB2-R 5	56J16-T1	+28 VDC IMU FOR MG MDA
*	A 96L	56TB2-R 6	56J03-105	OG CDU MDA SLEW SIG
*	AA214W	56TB2-R 6	56J16-A6	OG CDU MDA SLEW SIG
	A 96B	56TB2-R 7	SHLD A 96	OG CDU MDA INPUT RET
*	A 96W	56TB2-R 7	56J03- 92	OG CDU MDA INPUT RET
*	AA214L	56TB2-R 7	56J16-B5	OG CDU MDA INPUT RET
*	A 87R	56TB2-R 8	56J03- 20	COS AOG 1X TC CDU
*	AA204L	56TB2-R 8	56J16-C9	COS AOG 1X TO CDU
*	A 100	56TB2-S 1	56J03- 34	OG CDU 1X RSVR LOAD
*	AA218	56TB2-S 1	56J16-F6	OG CDU 1X RSVR LOAD
	A 23B	56TB2-S 2	SHLD A 23	OG CDU ERROR SIG RET
	A 86B	56TB2-S 2	SHLD A 86	OG CDU ERROR SIG RET
	A 366B	56TB2-S 2	SHLD A 366	OG CDU ERROR SIG RET
	AA578	56TB2-S 2	56TB2-R 2	OG CDU ERROR SIG RET

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 89B	56TB2-S 3	SHLD A 89	OG CDU ERROR SIG RET
	A 338B	56TB2-S 3	SHLD A 338	OG CDU ERROR SIG RET
*	AA571A	56TB2-S 3	SHLD AA571	OG CDU ERROR SIG RET
*	AA615	56TB2-S 3	56TB2-R 3	OG CDU ERROR SIG RET
*	A 185	56TB2-S 4	56J08- 93	STEP-DOWN-R
*	A 411	56TB2-S 4	56J09- 93	STEP-DOWN-R
*	A 186	56TB2-S 5	56J08- 79	STEP-DOWN-C
*	A 412	56TB2-S 5	56J09- 79	STEP-DOWN-C
*	A 183	56TB2-S 6	56J08-106	STEP-UP-R
*	A 413	56TB2-S 6	56J09-106	STEP-UP-R
*	A 184	56TB2-S 7	56J08- 78	STEP-UP-C
*	A 414	56TB2-S 7	56J09- 78	STEP-UP-C
*	A 202	56TB2-S 8	56J08- 18	GIMBAL LOCK LIGHT HI
*	A 455	56TB2-S 8	56P10- 24	GIMBAL LOCK LIGHT HI
*	A 101	56TB2-T 1	56J03- 89	OG CDU 16X RSVR LOAD
*	AA219	56TB2-T 1	56J16-F5	OG CDU 16X RSVR LOAD
	AA621	56TB2-T 2	56TB2-T 3	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 299W	56TB2-T 2	56P08-B	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 599W	56TB2-T 2	56J04- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 600W	56TB2-T 2	56J05- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	AA225R	56TB2-T 2	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 322W	56TB2-T 3	56P09- 57	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 598W	56TB2-T 3	56P05-E	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	AA621	56TB2-T 3	56TB2-T 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 219W	56TB2-T 5	56P02-H	COS AMG 16X S1
*	AA231R	56TB2-T 5	56J16-H3	COS AMG 16X S1
*	A 51L	56TB2-T 6	56J01-105	IG CDU MDA SLEW SIG
*	AA197W	56TB2-T 6	56J16-A2	IG CDU MDA SLEW SIG
	A 51B	56TB2-T 7	SHLD A 51	IG CDU MDA INPUT RET
*	A 51W	56TB2-T 7	56J01- 92	IG CDU MDA INPUT RET
*	AA197L	56TB2-T 7	56J16-B1	IG CDU MDA INPUT RET
*	A 88R	56TB2-T 8	56J03- 21	SIN AOG 1X TO CDU
*	AA205L	56TB2-T 8	56J16-B9	SIN AOG 1X TO CDU
	AA645	56TB2-U 1	56TB2-U 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 599R	56TB2-U 1	56J04- 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 600R	56TB2-U 1	56J05- 3	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 598R	56TB2-U 2	56P05-D	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
*	A 669W	56TB2-U 2	56J09- 82	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
*	A 299R	56TB2-U 3	56P08-A	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 322R	56TB2-U 3	56P09- 56	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 669R	56TB2-U 3	56J09- 96	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	AA225W	56TB2-U 3	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	AA645	56TB2-U 3	56TB2-U 1	800 CPS 28 V 5 PCT L-90.DEG HI OPTICS
*	A 67W	56TB2-U 4	56J02- 86	COS AMG 16X TO CDU
*	AA231L	56TB2-U 4	56J16-G4	COS AMG 16X TO CDU
*	A 67R	56TB2-U 5	56J02-100	COS AMG 16X S3
*	A 219R	56TB2-U 5	56P02-G	COS AMG 16X S3
*	AA231W	56TB2-U 5	56J16-G3	COS AMG 16X S3
*	A 51R	56TB2-U 6	56J01-106	IG CDU MDA TACH SIG
*	AA197R	56TB2-U 6	56J16-A1	IG CDU MDA TACH SIG
*	A 233W	56TB2-U 7	56P03-G	SIN AOG 1X S2
*	A 359R	56TB2-U 7	56P09- 16	SIN AOG 1X S2
*	AA205W	56TB2-U 7	56J16-A8	SIN AOG 1X S2
*	AA505R	56TB2-U 7	56J22-107	SIN AOG 1X S2
*	A 88W	56TB2-U 8	56J03- 7	SIN AOG 1X S4
*	A 233R	56TB2-U 8	56P03-F	SIN AOG 1X S4
*	A 359W	56TB2-U 8	56P09- 17	SIN AOG 1X S4
*	AA205R	56TB2-U 8	56J16-A9	SIN AOG 1X S4
*	AA505L	56TB2-U 8	56J22-139	SIN AOG 1X S4
	A 91B	56TB2-V 2	SHLD A 91	0 VDC IMU
	A 218B	56TB2-V 2	SHLD A 218	0 VDC IMU
	AA540	56TB2-V 2	56TB2-V 3	0 VDC IMU
*	AA590	56TB2-V 2	56TB1-D 7	0 VDC IMU
	A 217B	56TB2-V 3	SHLD A 217	0 VDC IMU
	AA596	56TB2-V 3	56TB2-V 4	0 VDC IMU
*	AA540	56TB2-V 3	56TB2-V 2	0 VDC IMU
	A 90B	56TB2-V 4	SHLD A 90	0 VDC IMU
	AA597	56TB2-V 4	56TB2-V 5	0 VDC IMU
*	A 655	56TB2-V 4	56P11-E	0 VDC IMU
*	AA596	56TB2-V 4	56TB2-V 3	0 VDC IMU
	A 67B	56TB2-V 5	SHLD A 67	0 VDC IMU
	A 219B	56TB2-V 5	SHLD A 219	0 VDC IMU
	AA598	56TB2-V 5	56TB2-V 6	0 VDC IMU
*	AA597	56TB2-V 5	56TB2-V 4	0 VDC IMU
	A 43B	56TB2-V 6	SHLD A 43	0 VDC IMU
	A 225B	56TB2-V 6	SHLD A 225	0 VDC IMU
	AA599	56TB2-V 6	56TB2-V 8	0 VDC IMU
*	AA598	56TB2-V 6	56TB2-V 5	0 VDC IMU

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 88B	56TB2-V 8	SHLD A 88	0 VDC IMU
	A 233B	56TB2-V 8	SHLD A 233	0 VDC IMU
	A 359B	56TB2-V 8	SHLD A 359	0 VDC IMU
	AA505B	56TB2-V 8	SHLD AA505	0 VDC IMU
*	AA599	56TB2-V 8	56TB2-V 6	0 VDC IMU
*	AA635	56TB2-V 8	56TB3-T 3	0 VDC IMU
*	A 55	56TB2-W 1	56J01- 34	IG CDU 1X RSVR LOAD S1
*	AA216	56TB2-W 1	56J16-F2	IG CDU 1X RSVR LOAD
*	A 91R	56TB2-W 2	56J03-101	SIN AOG 16X S4
*	A 218W	56TB2-W 2	56P02-F	SIN AOG 16X S4
*	AA213R	56TB2-W 2	56J16-D9	SIN AOG 16X S4
*	A 217W	56TB2-W 3	56P02-D	COS AOG 16X S1
*	AA209R	56TB2-W 3	56J16-D7	COS AOG 16X S1
*	A 90R	56TB2-W 4	56J03-100	COS AOG 16X S3
*	A 217R	56TB2-W 4	56P02-C	COS AOG 16X S3
*	AA209W	56TB2-W 4	56J16-F7	COS AOG 16X S3
*	A 75R	56TB2-W 5	56J02-106	MG CDU MDA TACH SIG
*	AA202R	56TB2-W 5	56J16-A3	MG CDU MDA TACH SIG
*	A 43R	56TB2-W 6	56J01-100	COS AIG 16X S3
*	A 225R	56TB2-W 6	56P02-W	COS AIG 16X S3
*	AA230W	56TB2-W 6	56J16-G1	COS AIG 16X S3
*	A 43W	56TB2-W 7	56J01- 86	COS AIG 16X TO CDU
*	AA230L	56TB2-W 7	56J16-G2	COS AIG 16X TO CDU
*	A 79	56TB2-X 1	56J02- 34	MG CDU 1X RSVR LOAD
*	AA217	56TB2-X 1	56J16-F4	MG CDU 1X RSVR LOAD
*	A 91W	56TB2-X 2	56J03- 87	SIN AOG 16X TO CDU
*	AA213L	56TB2-X 2	56J16-F9	SIN AOG 16X TO CDU
*	A 218R	56TB2-X 3	56P02-E	SIN AOG 16X S2
*	AA213W	56TB2-X 3	56J16-D8	SIN AOG 16X S2
*	A 90W	56TB2-X 4	56J03- 86	COS AOG 16X TO CDU
*	AA209L	56TB2-X 4	56J16-F8	COS AOG 16X TO CDU
*	A 75L	56TB2-X 5	56J02-105	MG CDU MDA SLEW SIG
*	AA202W	56TB2-X 5	56J16-A4	MG CDU MDA SLEW SIG
	A 75B	56TB2-X 6	SHLD A 75	MG CDU MDA INPUT RET
*	A 75W	56TB2-X 6	56J02- 92	MG CDU MDA INPUT RET
*	AA202L	56TB2-X 6	56J16-B3	MG CDU MDA INPUT RET
*	A 225W	56TB2-X 7	56P02-X	COS AIG 16X S1
*	AA230R	56TB2-X 7	56J16-H1	COS AIG 16X S1

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 673	56TB3-A10	56J09- 47	+28 VDC OPTICS DAC POWER	
*	AA646	56TB3-A10	56J18-T1	+28 VDC OPTICS DAC POWER	
*	A 200	56TB3-B 3	56J08- 72	CDU FAIL LIGHT HI	
*	A 335	56TB3-B 3	56P09- 47	CDU FAIL LIGHT HI	
*	A 474R	56TB3-B 3	56J10- 4	CDU FAIL LIGHT HI	302
*	A 203	56TB3-B 4	56J08- 41	ZERO ENCODER LIGHT HI	
*	A 346	56TB3-B 4	56P09- 35	ZERO ENCODER LIGHT HI	
*	A 474W	56TB3-B 4	56J10- 3	ZERO ENCODER LIGHT HI	301
*	A 190	56TB3-B 5	56J08- 73	ACCEL FAIL LIGHT HI	
*	A 333	56TB3-B 5	56P09- 49	ACCEL FAIL LIGHT HI	
*	A 474L	56TB3-B 5	56J10- 5	ACCEL FAIL LIGHT HI	303
*	A 209W	56TB3-B 6	56J08- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 448W	56TB3-B 6	56J09- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 374R	56TB3-B 7	56P09- 89	DIRECT SHAFT CONTROLLER HI (TEST)	
*	AA342R	56TB3-B 7	56J18-N4	DIRECT SHAFT CONTROLLER HI (TEST)	
*	A 374W	56TB3-B 8	56P09-102	DIRECT SHAFT CONTROLLER LO (TEST)	
*	AA342W	56TB3-B 8	56J18-M4	DIRECT SHAFT CONTROLLER LO (TEST)	
*	A 377R	56TB3-B 9	56P09-104	SXT SHAFT MDA OUTPUT HI (TEST)	
*	AA392R	56TB3-B 9	56J19-L3	SXT SHAFT MDA OUTPUT HI (TEST)	
*	A 377W	56TB3-B10	56P09-105	SXT SHAFT MDA OUTPUT LO (TEST)	
*	AA392W	56TB3-B10	56J19-K3	SXT SHAFT MDA OUTPUT LO (TEST)	
*	A 394	56TB3-B11	56J09- 72	ZERO OPTICS RELAY CONTROL	
*	AA337	56TB3-B11	56J18-R4	ZERO OPTICS RELAY CONTROL	
*	A 182W	56TB3-B12	56J08- 81	400 CPS 26 V SLEW	
*	A 409W	56TB3-B12	56J09- 81	400 CPS 26 V SLEW	
*	A 182R	56TB3-B13	56J08- 68	400 CPS 26 V MDV RSVR EXC	
*	A 409R	56TB3-B13	56J09- 68	400 CPS 26 V MDV RSVR EXC	
*	A 199	56TB3-B14	56J08- 95	400 CPS 26 V LO	
*	A 460	56TB3-B14	56P10- 49	400 CPS 26 V LO	
	A 664	56TB3-B15	56TB3-T15	0 VDC OPTICS	
	AA514	56TB3-B15	56TB3-C15	0 VDC OPTICS	
*	AA538	56TB3-B15	56TB3-G 9	0 VDC OPTICS	
*	A 145R	56TB3-B16	56J05- 43	+28 VDC OPTICS SWITCHED	
*	A 670R	56TB3-B16	56J09- 49	+28 VDC OPTICS SWITCHED	
*	A 122R	56TB3-B17	56J04- 43	+28 VDC OPTICS SWITCHED	
*	A 670W	56TB3-B17	56J09- 38	+28 VDC OPTICS SWITCHED	
	AA517W	56TB3-B18	56J22-153	800 CPS 28 V 1 PCT HI IMU	
*	A 318R	56TB3-B18	56P09- 9	800 CPS 28 V 1 PCT HI IMU	
*	AA410W	56TB3-B18	56J20-F5	800 CPS 28 V 1 PCT HI IMU	

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	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA517R	56TB3-B19	56J22-120	800 CPS 28 V 1 PCT LO IMU
*	A 318W	56TB3-B19	56P09- 8	800 CPS 28 V 1 PCT LO IMU
*	AA410R	56TB3-B19	56J20-F6	800 CPS 28 V 1 PCT LO IMU
	A 548	56TB3-B20	56E 12	STRUCTURE GND
	AA613	56TB3-B20	56TB3-B21	STRUCTURE GND
	AA619	56TB3-B20	56E 68	STRUCTURE GND
	AA620	56TB3-B20	56E 69	STRUCTURE GND
*	A 33	56TB3-B20	56P01- 84	STRUCTURE GND
*	A 665	56TB3-B20	56P10- 1	STRUCTURE GND
	AA614	56TB3-B21	56TB3-F21	STRUCTURE GND
*	A 178	56TB3-B21	56J06- 91	STRUCTURE GND
*	A 215	56TB3-B21	56J08- 29	STRUCTURE GND
*	AA613	56TB3-B21	56TB3-B20	STRUCTURE GND
*	A 396	56TB3-C 1	56J09- 98	ACCEL BRIDGE AMP PIN 6
*	AA257	56TB3-C 1	56J17-F7	ACCEL BRIDGE AMP PIN 6
*	A 281R	56TB3-C 2	56P06-F*	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA250R	56TB3-C 2	56J17-P4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 281W	56TB3-C 3	56P06-G*	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 320W	56TB3-C 3	56P09- 34	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 567W	56TB3-C 3	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	AA412R	56TB3-C 3	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 370	56TB3-C 4	56P09- 73	BLOWER CURRENT SENSOR (TELEMETERY)
*	AA271	56TB3-C 4	56J17-F6	BLOWER CURRENT SENSOR (TELEMETERY)
*	A 368	56TB3-C 5	56P09- 85	IRIG TEMP (TELEMETRY)
*	AA273	56TB3-C 5	56J17-F4	IRIG TEMP (TELEMETRY)
*	A 209R	56TB3-C 6	56J08- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 448R	56TB3-C 6	56J09- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 373W	56TB3-C 7	56P09-101	DIRECT TRUNNION CONTROLLER LO (TEST)
*	AA340W	56TB3-C 7	56J18-M1	DIRECT TRUNNION CONTROLLER LO (TEST)
*	A 383W	56TB3-C 8	56P09- 99	TRUNNION CDU MDA LO (TEST)
*	AA341W	56TB3-C 8	56J18-M3	TRUNNION CDU MDA LO (TEST)
*	A 375R	56TB3-C 9	56P09- 90	SXT TRUNNION MDA OUTPUT HI (TEST)
*	AA391R	56TB3-C 9	56J19-L1	SXT TRUNNION MDA OUTPUT HI (TEST)
*	A 375W	56TB3-C10	56P09-103	SXT TRUNNION MDA OUTPUT LO (TEST)
*	AA391W	56TB3-C10	56J19-K1	SXT TRUNNION MDA OUTPUT LO (TEST)
*	A 122W	56TB3-C11	56J04- 32	SHAFT CDU MOTOR CONTROL WINDING
*	AA321	56TB3-C11	56J18-R2	SHAFT CDU MOTOR CONTROL WINDING
*	A 145W	56TB3-C12	56J05- 32	TRUNNION CDU MOTOR CONTROL WINDING
*	AA320	56TB3-C12	56J18-R1	TRUNNION CDU MOTOR CONTROL WINDING

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 65R	56TB3-C13	56J02- 21	SIN AMG 1X RET
*	A 222W	56TB3-C13	56P02-N	SIN AMG 1X RET S2
*	A 357R	56TB3-C13	56P09- 15	SIN AMG 1X RET
*	AA507L	56TB3-C13	56J22-144	SIN AMG 1X RET
*	A 65W	56TB3-C14	56J02- 7	SIN AMG 1X
*	A 222R	56TB3-C14	56P02-P	SIN AMG 1X S4
*	A 357W	56TB3-C14	56P09- 29	SIN AMG 1X
*	AA507R	56TB3-C14	56J22-111	SIN AMG 1X
	AA609	56TB3-C15	56TB3-D15	0 VDC OPTICS
*	A 595	56TB3-C15	56TB3-K20	0 VDC OPTICS
*	A 596	56TB3-C15	56TB3-K22	0 VDC OPTICS
*	A 646	56TB3-C15	56P12-G	0 VDC OPTICS
*	AA514	56TB3-C15	56TB3-B15	0 VDC OPTICS
*	AA566	56TB3-C15	56TB3-K21	0 VDC OPTICS
*	A 300L	56TB3-C16	56P08-G	SCT TRUNNION MOTOR CONTROL WINDING BLK
*	A 376W	56TB3-C16	56P09- 92	SCT TRUNNION MOTOR CONTROL WINDING
*	AA360W	56TB3-C16	56J19-T3	SCT TRUNNION MOTOR CONTROL WINDING
*	A 300W	56TB3-C17	56P08-E	SCT TRUNNION MOTOR CONTROL WINDING RED
*	A 376R	56TB3-C17	56P09- 91	SCT TRUNNION MOTOR CONTROL WINDING
*	AA360R	56TB3-C17	56J19-T2	SCT TRUNNION MOTOR CONTROL WINDING
*	A 246R	56TB3-C18	56P05-P	+28 VDC OPTICS
*	A 259R	56TB3-C18	56P05-B	+28 VDC OPTICS
*	AA515	56TB3-C18	56TB3-M20	+28 VDC OPTICS
*	A 300R	56TB3-C19	56P08-F	+28 VDC OPTICS
*	A 308R	56TB3-C19	56P08-H	+28 VDC OPTICS
*	AA558	56TB3-C19	56TB3-M20	+28 VDC OPTICS
*	A 609	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	A 610	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	A 611	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	AA428	56TB3-C20	56J20-N1	+28 VDC IMU BUSS A
*	AA622	56TB3-C20	56J20-R1	+28 VDC IMU BUSS A
*	A 612	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	A 613	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	A 614	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	AA432	56TB3-C21	56J20-S1	+28 VDC IMU BUSS A
*	AA623	56TB3-C21	56J20-P1	+28 VDC IMU BUSS A
*	A 621	56TB3-C22	56P12-M	+28 VDC STBY BUSS B
*	A 622	56TB3-C22	56P12-M	+28 VDC STBY BUSS B
*	AA443	56TB3-C22	56J20-R4	+28 VDC STBY BUSS B

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1014607
SCALE - NONE
REV LTR K
SHEET 104

MIL 2064-4-64

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA627	56TB3-C22	56J20-S4	+28 VDC STBY BUSS B
*	A 439	56TB3-D 1	56J09- 94	0 VDC IMU
*	AA264	56TB3-D 1	56J17-M1	0 VDC IMU
*	A 320R	56TB3-D 2	56P09- 22	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 567R	56TB3-D 2	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA250W	56TB3-D 2	56J17-R4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA412W	56TB3-D 2	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 192	56TB3-D 3	56J08- 62	IMU TEMP CONT FAIL LIGHT HI
*	A 344	56TB3-D 3	56P09- 11	IMU TEMP CONT FAIL LIGHT HI
*	AA275	56TB3-D 3	56J17-P5	IMU TEMP CONT FAIL LIGHT HI
*	A 367	56TB3-D 4	56P09- 98	ACCEL TEMP (TELEMETRY)
*	AA272	56TB3-D 4	56J17-F5	ACCEL TEMP (TELEMETRY)
*	A 369	56TB3-D 5	56P09- 97	HTR CURRENT (TELEMETERY)
*	AA274	56TB3-D 5	56J17-F3	HTR CURRENT (TELEMETRY)
*	A 384	56TB3-D 6	56P09- 84	TEMPERATURE CONTROL SIG LO
*	AA636	56TB3-D 6	56J17-F2	TEMPERATURE CONTROL SIG LO
*	A 373R	56TB3-D 7	56P09-100	DIRECT TRUNNION CONTROLLER HI (TEST)
*	AA340R	56TB3-D 7	56J18-N1	DIRECT TRUNNION CONTROLLER HI (TEST)
*	A 383R	56TB3-D 8	56P09- 86	TRUNNION CDU MDA HI (TEST)
*	AA341R	56TB3-D 8	56J18-N3	TRUNNION CDU MDA HI (TEST)
*	A 372R	56TB3-D 9	56P09- 87	SHAFT CDU MDA (TEST) HI
*	AA343R	56TB3-D 9	56J18-N6	SHAFT CDU MDA (TEST) HI
*	A 372W	56TB3-D10	56P09- 88	SHAFT CDU MDA (TEST) LO
*	AA343W	56TB3-D10	56J18-M6	SHAFT CDU MDA (TEST) LO
*	A 122L	56TB3-D11	56J04- 31	SHAFT CDU MOTOR CONTROL WINDING
*	AA322	56TB3-D11	56J18-P2	SHAFT CDU MOTOR CONTROL WINDING
*	A 145L	56TB3-D12	56J05- 31	TRUNNION CDU MOTOR CONTROL WINDING
*	AA319	56TB3-D12	56J18-P1	TRUNNION CDU MOTOR CONTROL WINDING
*	A 41R	56TB3-D13	56J01- 21	SIN AIG 1X RET P4
*	A 228R	56TB3-D13	56P02-F*	SIN AIG 1X RET S2
*	A 355R	56TB3-D13	56P09- 1	SIN AIG 1X RET
*	AA509L	56TB3-D13	56J22-116	SIN AIG 1X RET
*	A 41W	56TB3-D14	56J01- 7	SIN AIG 1X P2
*	A 228W	56TB3-D14	56P02-G*	SIN AIG 1X S4
*	A 355W	56TB3-D14	56P09- 14	SIN AIG 1X
*	AA509R	56TB3-D14	56J22-148	SIN AIG 1X
	A 593	56TB3-D15	56TB3-L20	0 VDC OPTICS
	AA630	56TB3-D15	56TB3-G15	0 VDC OPTICS
*	A 594	56TB3-D15	56TB3-L22	0 VDC OPTICS

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014607
SCALE - NONE
REV LTR K
SHEET 105

MIL 2064-4-64

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 643	56TB3-D15	56P11-G	0 VDC OPTICS	
*	AA563	56TB3-D15	56TB3-L21	0 VDC OPTICS	
*	AA609	56TB3-D15	56TB3-C15	0 VDC OPTICS	
*	A 246L	56TB3-D16	56P05-J*	SXT TRUNNION MOTOR CONTROL WINDING BLK	
*	AA358W	56TB3-D16	56J19-S3	SXT TRUNNION MOTOR CONTROL WINDING	
*	A 246W	56TB3-D17	56P05-I*	SXT TRUNNION MOTOR CONTROL WINDING RED	
*	AA358R	56TB3-D17	56J19-S2	SXT TRUNNION MOTOR CONTROL WINDING	
*	A 259W	56TB3-D18	56P05-A	SXT SHAFT MOTOR CONTROL WINDING RED	
*	AA359R	56TB3-D18	56J19-P1	SXT SHAFT MOTOR CONTROL WINDING	
	AA526	56TB3-D19	56J21-129	AGC TEMP MONITOR NO 3	173
*	A 371W	56TB3-D19	56P09- 75	AGC TEMP MONITOR NO 3	
*	AA418	56TB3-D19	56J20-B1	AGC TEMP MONITOR NO 3	
*	A 615	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	A 616	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	A 617	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	AA433	56TB3-D20	56J20-N2	+28 VDC IMU BUSS B	
*	AA624	56TB3-D20	56J20-R2	+28 VDC IMU BUSS B	
*	A 618	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	A 619	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	A 620	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	AA437	56TB3-D21	56J20-S2	+28 VDC IMU BUSS B	
*	AA625	56TB3-D21	56J20-P2	+28 VDC IMU BUSS B	
*	A 623	56TB3-D22	56P11-M	+28 VDC STBY BUSS A	
*	A 624	56TB3-D22	56P11-M	+28 VDC STBY BUSS A	
*	AA441	56TB3-D22	56J20-R3	+28 VDC STBY BUSS A	
*	AA626	56TB3-D22	56J20-S3	+28 VDC STBY BUSS A	
*	A 462	56TB3-F 1	56P10- 9	0 VDC SPACECRAFT	
*	A 667	56TB3-F 1	56J09- 15	0 VDC SPACECRAFT	
*	AA278	56TB3-F 1	56J17-M3	0 VDC SPACECRAFT	
*	A 668	56TB3-F 2	56J09- 14	SPACECRAFT LAMP TEST	
*	AA647	56TB3-F 2	56J22-172	SPACECRAFT LAMP TEST	
*	A 28	56TB3-F 3	56P01- 88	CONDITION LAMP TEST	
*	A 390	56TB3-F 3	56J09- 73	CONDITION LAMP TEST	
*	A 464	56TB3-F 3	56J10- 2	CONDITION LAMP TEST	328
*	AA235	56TB3-F 3	56J17-P6	CONDITION LAMP TEST	
	AA518	56TB3-F 4	56J22-190	ATTITUDE CONTROL RELAY CONTROL	
*	A 12	56TB3-F 4	56P01- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 166	56TB3-F 4	56J06- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 243	56TB3-F 5	56P03-J*	GIMBAL LOCK SIGNAL	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 342	56TB3-F 5	56P09- 10	GIMBAL LOCK SIGNAL	
*	A 454	56TB3-F 5	56P10- 12	GIMBAL LOCK SIGNAL	
	A 672B	56TB3-F 7	SHLD A 672	TRUNNION CDU DAC LO	
*	AA344R	56TB3-F 7	56J18-H3	TRUNNION CDU DAC LO	
	A 671B	56TB3-F 8	SHLD A 671	SHAFT CDU DAC LO	
*	AA345R	56TB3-F 8	56J18-H2	SHAFT CDU DAC LO	
*	A 130W	56TB3-F10	56J05- 22	TRUNNION CDU 1/4X SIN LO	
*	A 256W	56TB3-F10	56P05-H*	TRUNNION CDU 1/4X SIN LO	
*	AA330R	56TB3-F10	56J18-F2	TRUNNION CDU 1/4X SIN LO	
*	A 427R	56TB3-F11	56J09- 35	SHAFT CDU MDA CONTROLLER SIG HI	
*	AA336W	56TB3-F11	56J18-F6	SHAFT CDU MDA CONTROLLER SIG HI	
	A 427B	56TB3-F12	SHLD A 427	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 427W	56TB3-F12	56J09- 34	SHAFT CDU MDA CONTROLLER SIG LO	
*	AA336R	56TB3-F12	56J18-F7	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 40W	56TB3-F13	56J01- 6	COS AIG 1X RET P1	
*	A 227W	56TB3-F13	56P02-B*	COS AIG 1X RET S1	
*	A 356R	56TB3-F13	56P09- 2	COS AIG 1X RET	
*	AA510L	56TB3-F13	56J22-150	COS AIG 1X RET	
*	A 40R	56TB3-F14	56J01- 20	COS AIG 1X P3	
*	A 227R	56TB3-F14	56P02-A*	COS AIG 1X S3	
*	A 356W	56TB3-F14	56P09- 3	COS AIG 1X	
*	AA510R	56TB3-F14	56J22-151	COS AIG 1X	
*	A 131R	56TB3-F16	56J05- 9	TRUNNION CDU 1/4X COS HI	
*	A 255W	56TB3-F16	56P05-E*	TRUNNION CDU 1/4X COS HI	
*	AA381W	56TB3-F16	56J19-F5	TRUNNION CDU 1/4X COS HI	
*	A 308L	56TB3-F17	56P08-D*	SCT SHAFT MOTOR CONTROL WINDING BLK	
*	A 378W	56TB3-F17	56P09- 77	SCT SHAFT MOTOR CONTROL WINDING	
*	AA361W	56TB3-F17	56J19-R2	SCT SHAFT MOTOR CONTROL WINDING	
*	A 259L	56TB3-F18	56P05-C	SXT SHAFT MOTOR CONTROL WINDING BLK	
*	AA359W	56TB3-F18	56J19-R1	SXT SHAFT MOTOR CONTROL WINDING	
	AA529	56TB3-F19	56J21-162	AGC TEMP MONITOR NO 2	172
*	A 371R	56TB3-F19	56P09- 74	AGC TEMP MONITOR NO 2	
*	AA417	56TB3-F19	56J20-A2	AGC TEMP MONITOR NO 2	
*	A 270	56TB3-F21	56P05-R	STRUCTURE GND	
*	A 288	56TB3-F21	56P06-G	STRUCTURE GND	
*	A 631	56TB3-F21	56P11-L	STRUCTURE GND	
*	AA607	56TB3-F21	56TB3-F22	STRUCTURE GND	
*	AA614	56TB3-F21	56TB3-B21	STRUCTURE GND	
	AA607	56TB3-F22	56TB3-F21	STRUCTURE GND	

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014607
SCALE - NONE | REV LTR K | SHEET 107

MIL 2084-4-64

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 316	56TB3-F22	56P08-T*	STRUCTURE GND
*	A 451	56TB3-F22	56J09- 91	STRUCTURE GND
*	A 632	56TB3-F22	56P12-L	STRUCTURE GND
*	AA462	56TB3-F22	56J20-G4	STRUCTURE GND
*	A 401R	56TB3-G 1	56J09-100	IMU HTR CURRENT AMP PIN 5
*	AA258K	56TB3-G 1	56J17-N6	IMU HTR CURRENT AMP PIN 5
*	A 401K	56TB3-G 2	56J09- 88	IMU TEMP CONT K2 PIN 5
*	AA258L	56TB3-G 2	56J17-N5	IMU TEMP CONT K2 PIN 5
*	A 443	56TB3-G 3	56J09- 89	IRIG ZERO DEVIATION CHECK
*	AA253	56TB3-G 3	56J17-B8	IRIG ZERO DEVIATION CHECK
*	A 442	56TB3-G 4	56J09- 85	IRIG TEMP BRIDGE AMP PIN 6
*	AA254	56TB3-G 4	56J17-C7	IRIG TEMP BRIDGE AMP PIN 6
*	A 274	56TB3-G 5	56P06-K	IMU TEMP SENSOR COM
*	AA277	56TB3-G 5	56J17-M2	IMU TEMP SENSOR COM
*	A 672W	56TB3-G 7	56J09- 56	TRUNNION CDU DAC OUTPUT HI
*	AA344W	56TB3-G 7	56J18-G3	TRUNNION CDU DAC OUTPUT HI
*	A 671W	56TB3-G 8	56J09- 48	SHAFT CDU DAC OUTPUT HI
*	AA345W	56TB3-G 8	56J18-G2	SHAFT CDU DAC OUTPUT HI
	A 130B	56TB3-G 9	SHLD A 130	0 VDC OPTICS
	A 256B	56TB3-G 9	SHLD A 256	0 VDC OPTICS
	AA538	56TB3-G 9	56TB3-B15	0 VDC OPTICS
	AA541	56TB3-G 9	56TB3-H 9	0 VDC OPTICS
*	A 130R	56TB3-G10	56J05- 8	TRUNNION CDU 1/4X SIN HI
*	A 256R	56TB3-G10	56P05-G*	TRUNNION CDU 1/4X SIN HI
*	AA330W	56TB3-G10	56J18-F1	TRUNNION CDU 1/4X SIN HI
*	A 426R	56TB3-G11	56J09- 19	TRUNNION CDU MDA CONTROLLER SIG HI
*	AA335W	56TB3-G11	56J18-C7	TRUNNION CDU MDA CONTROLLER SIG HI
	A 426B	56TB3-G12	SHLD A 426	TRUNNION CDU MDA CONTROLLER SIG LO
*	A 426W	56TB3-G12	56J09- 33	TRUNNION CDU MDA CONTROLLER SIG LO
*	AA335R	56TB3-G12	56J18-D7	TRUNNION CDU MDA CONTROLLER SIG LO
*	A 111R	56TB3-G13	56J04- 7	SHAFT CDU 1X SIN OUTPUT LO
*	AA334R	56TB3-G13	56J18-D6	SHAFT CDU 1X SIN OUTPUT LO
*	A 111W	56TB3-G14	56J04- 21	SHAFT CDU 1X SIN OUTPUT HI
*	AA334W	56TB3-G14	56J18-C6	SHAFT CDU 1X SIN OUTPUT HI
	A 111B	56TB3-G15	SHLD A 111	0 VDC OPTICS
	AA550	56TB3-G15	56TB3-H15	0 VDC OPTICS
*	AA630	56TB3-G15	56TB3-D15	0 VDC OPTICS
*	A 131W	56TB3-G16	56J05- 10	TRUNNION CDU 1/4X COS LO
*	A 255R	56TB3-G16	56P05-F*	TRUNNION CDU 1/4X COS LO

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014607
SCALE - NONE | REV LTR K | SHEET 108

MIL 2084-4-64

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA381R	56TB3-G16	56J19-F6	TRUNNION CDU 1/4X COS LO	
*	A 308W	56TB3-G17	56P08-C*	SCT SHAFT MOTOR CONTROL WINDING RED	
*	A 378R	56TB3-G17	56P09- 76	SCT SHAFT MOTOR CONTROL WINDING	
*	AA361R	56TB3-G17	56J19-P2	SCT SHAFT MOTOR CONTROL WINDING	
*	A 404	56TB3-G18	56J09- 59	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
*	AA387	56TB3-G18	56J19-M6	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
	AA530	56TB3-G19	56J21-196	AGC TEMP MONITOR NO 1	171
*	A 371L	56TB3-G19	56P09- 64	AGC TEMP MONITOR NO 1	
*	AA416	56TB3-G19	56J20-A1	AGC TEMP MONITOR NO 1	
*	A 633	56TB3-G21	56P11-A	+28 VDC AGC BUSS A	
*	AA420	56TB3-G21	56J20-K5	+28 VDC AGC BUSS A	
*	A 636	56TB3-G22	56P12-A	+28 VDC AGC BUSS B	
*	AA421	56TB3-G22	56J20-K6	+28 VDC AGC BUSS B	
*	A 401L	56TB3-H 1	56J09- 87	IMU TEMP CONT AMP PIN 5	
*	AA258R	56TB3-H 1	56J17-M6	IMU TEMP CONT AMP PIN 5	
*	A 401W	56TB3-H 2	56J09-101	IMU TEMP CONT K1 PIN 3	
*	AA258W	56TB3-H 2	56J17-M5	IMU TEMP CONT K1 PIN 3	
*	A 399	56TB3-H 3	56J09-102	IMU TEMP CONT -5 DEG GAIN CHECK	
*	AA252	56TB3-H 3	56J17-B7	IMU TEMP CONT -5 DEG GAIN CHECK	
*	A 280	56TB3-H 4	56P06-Z	IRIG TEMP IND SENSOR HI	
*	AA276	56TB3-H 4	56J17-C6	IRIG TEMP IND SENSOR HI	
*	A 403	56TB3-H 5	56J09- 74	IMU TEMP ALARM AMP PIN 15	
*	AA262	56TB3-H 5	56J17-G2	IMU TEMP ALARM AMP PIN 15	
*	A 181	56TB3-H 6	56J08- 66	MDV SLEW CONTROL 0.5 V 400 CPS	
*	A 408	56TB3-H 6	56J09- 66	MDV SLEW CONTROL 0.5 V 400 CPS	
*	A 135W	56TB3-H 7	56J05- 90	TRUNNION CDU 16X ERROR SIG LO	
*	AA329R	56TB3-H 7	56J19-B2	TRUNNION CDU 16X ERROR SIG LO	
*	A 135R	56TB3-H 8	56J05-104	TRUNNION CDU 16X ERROR SIG HI	
*	AA329L	56TB3-H 8	56J19-C2	TRUNNION CDU 16X ERROR SIG HI	
	A 107B	56TB3-H 9	SHLD A 107	0 VDC OPTICS	
	A 112B	56TB3-H 9	SHLD A 112	0 VDC OPTICS	
	A 135B	56TB3-H 9	SHLD A 135	0 VDC OPTICS	
	AA329B	56TB3-H 9	SHLD AA329	0 VDC OPTICS	
	AA542	56TB3-H 9	56TB3-K 9	0 VDC OPTICS	
*	AA541	56TB3-H 9	56TB3-G 9	0 VDC OPTICS	
*	A 112R	56TB3-H10	56J04-104	SHAFT CDU 16X ERROR SIG HI	
*	AA331L	56TB3-H10	56J19-B4	SHAFT CDU 16X ERROR SIG HI	
*	A 112W	56TB3-H11	56J04- 90	SHAFT CDU 16X ERROR SIG LO	
*	AA331R	56TB3-H11	56J19-B3	SHAFT CDU 16X ERROR SIG LO	

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MIL 2084-4-64

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 65B	56TB3-H12	SHLD A 65	0 VDC IMU
	A 222B	56TB3-H12	SHLD A 222	0 VDC IMU
	A 357B	56TB3-H12	SHLD A 357	0 VDC IMU
	AA466	56TB3-H12	56TB3-R 3	0 VDC IMU
	AA507B	56TB3-H12	SHLD AA507	0 VDC IMU
	AA513	56TB3-H12	56TB3-H13	0 VDC IMU
	A 41B	56TB3-H13	SHLD A 41	0 VDC IMU
	A 228B	56TB3-H13	SHLD A 228	0 VDC IMU
	A 355B	56TB3-H13	SHLD A 355	0 VDC IMU
	AA509B	56TB3-H13	SHLD AA509	0 VDC IMU
	AA554	56TB3-H13	56TB3-H14	0 VDC IMU
*	AA513	56TB3-H13	56TB3-H12	0 VDC IMU
	A 40B	56TB3-H14	SHLD A 40	0 VDC IMU
	A 227B	56TB3-H14	SHLD A 227	0 VDC IMU
	A 356B	56TB3-H14	SHLD A 356	0 VDC IMU
	AA508B	56TB3-H14	SHLD AA508	0 VDC IMU
	AA510B	56TB3-H14	SHLD AA510	0 VDC IMU
*	AA554	56TB3-H14	56TB3-H13	0 VDC OPTICS
	A 255B	56TB3-H15	SHLD A 255	0 VDC OPTICS
	A 263B	56TB3-H15	SHLD A 263	0 VDC OPTICS
	A 304B	56TB3-H15	SHLD A 304	0 VDC OPTICS
	AA551	56TB3-H15	56TB3-K15	0 VDC OPTICS
*	AA550	56TB3-H15	56TB3-G15	0 VDC OPTICS
*	A 263R	56TB3-H16	56P05-HH	SXT SHAFT 1/2X RSVR ERROR HI
*	AA375W	56TB3-H16	56J19-A5	SXT SHAFT 1/2X RSVR ERROR HI
*	A 263W	56TB3-H17	56P05-BB	SXT SHAFT 1/2X RSVR ERROR LO
*	AA375R	56TB3-H17	56J19-B5	SXT SHAFT 1/2X RSVR ERROR LO
*	A 283W	56TB3-H19	56P06-E*	IMU PRESSURE MONITOR LO
*	A 379W	56TB3-H19	56P09- 53	IMU PRESSURE MONITOR LO
*	AA415	56TB3-H19	56J20-B4	IMU PRESSURE MONITOR LO
*	A 328	56TB3-H20	56P09- 65	+28 VDC OPTICS
*	AA406	56TB3-H20	56J20-N6	+28 VDC OPTICS
*	A 625	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	A 626	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	A 627	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	AA446	56TB3-H21	56J20-P5	+28 VDC OPTICS BUSS A
*	AA449	56TB3-H21	56J20-S5	+28 VDC OPTICS BUSS A
*	AA628	56TB3-H21	56J20-R5	+28 VDC OPTICS BUSS A
*	A 628	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014607
SCALE-NONE
REV LTR K
SHEET 110

MIL 2084-4-64

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 629	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B
*	A 630	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B
*	AA450	56TB3-H22	56J20-P6	+28 VDC OPTICS BUSS B
*	AA453	56TB3-H22	56J20-S6	+28 VDC OPTICS BUSS B
*	AA629	56TB3-H22	56J20-R6	+28 VDC OPTICS BUSS B
*	A 438	56TB3-K 1	56J09- 92	IMU TEMP ALARM AMP PIN 5
*	AA260	56TB3-K 1	56J17-H2	IMU TEMP ALARM AMP PIN 5
*	A 446	56TB3-K 2	56J09-105	IMU TEMP ALARM BIAS RESISTOR
*	AA259	56TB3-K 2	56J17-H1	IMU TEMP ALARM BIAS RESISTOR
*	A 286	56TB3-K 3	56P06-A*	IRIG TEMP IND SENSOR RET
*	AA266	56TB3-K 3	56J17-C5	IRIG TEMP IND SENSOR RET
*	A 391	56TB3-K 4	56J09- 21	TRUNNION ENCODER PIN 9
*	AA286	56TB3-K 4	56J17-B9	TRUNNION ENCODER PIN 9
*	A 444	56TB3-K 5	56J09- 75	IMU TEMP ALARM AMP PIN 14
*	AA261	56TB3-K 5	56J17-G1	IMU TEMP ALARM AMP PIN 14
*	A 210R	56TB3-K 6	56J08- 35	400 CPS 0.5 V ZERO PHASE
*	A 459R	56TB3-K 6	56P10- 38	400 CPS 0.5 V ZERO PHASE
*	A 110R	56TB3-K 7	56J04- 6	SHAFT CDU 1X COS OUTPUT HI
*	AA338R	56TB3-K 7	56J18-D4	SHAFT CDU 1X COS OUTPUT HI
*	A 110W	56TB3-K 8	56J04- 20	SHAFT CDU 1X COS OUTPUT LO
*	AA338W	56TB3-K 8	56J18-D5	SHAFT CDU 1X COS OUTPUT LO
	A 110B	56TB3-K 9	SHLD A 110	0 VDC OPTICS
	A 262B	56TB3-K 9	SHLD A 262	0 VDC OPTICS
	A 312B	56TB3-K 9	SHLD A 312	0 VDC OPTICS
	AA331B	56TB3-K 9	SHLD AA331	0 VDC OPTICS
	AA543	56TB3-K 9	56TB3-L 9	0 VDC OPTICS
*	AA542	56TB3-K 9	56TB3-H 9	0 VDC OPTICS
*	A 107W	56TB3-K10	56J04- 67	SHAFT CDU 1/2X SIN HI S1
*	A 262R	56TB3-K10	56P05-Y*	SHAFT CDU 1/2X SIN HI P1
*	A 312W	56TB3-K10	56P08-J*	SHAFT CDU 1/2X SIN HI S1
*	AA332W	56TB3-K10	56J18-G1	SHAFT CDU 1/2X SIN HI S1
*	A 107R	56TB3-K11	56J04- 57	SHAFT CDU 1/2X SIN LO S3
*	A 262W	56TB3-K11	56P05-Z*	SHAFT CDU 1/2X SIN LO P3
*	A 312R	56TB3-K11	56P08-K*	SHAFT CDU 1/2X SIN LO P1
*	AA332R	56TB3-K11	56J18-H1	SHAFT CDU 1/2X SIN LO S3
*	A 148W	56TB3-K12	56J05- 66	TRUNNION CDU 1/2X RSVR LOAD LO
*	AA318R	56TB3-K12	56J18-F4	TRUNNION CDU 1/2X RSVR LOAD LO
*	A 282W	56TB3-K13	56P06-C*	PRESSURE SENSOR +28 VDC LO
*	AA464W	56TB3-K13	56J20-B6	PRESSURE SENSOR +28 VDC LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 607W	56TB3-K14	56P10- 68	400 CPS 115 V LO
*	A 608W	56TB3-K14	56P11-K	400 CPS 115 V LO
*	AA465W	56TB3-K14	56J20-G3	400 CPS 115 V LO
	A 131B	56TB3-K15	SHLD A 131	0 VDC OPTICS
	AA552	56TB3-K15	56TB3-L15	0 VDC OPTICS
*	A 303	56TB3-K15	56P08-R	0 VDC OPTICS
*	A 315	56TB3-K15	56P08-B*	0 VDC OPTICS
*	AA551	56TB3-K15	56TB3-H15	0 VDC OPTICS
*	A 304W	56TB3-K16	56P08-S	SCT TRUNNION 1X RSVR ERROR HI
*	AA377W	56TB3-K16	56J19-B7	SCT TRUNNION 1X RSVR ERROR HI
*	A 304R	56TB3-K17	56P08-T	SCT TRUNNION 1X RSVR ERROR LO
*	AA377R	56TB3-K17	56J19-B8	SCT TRUNNION 1X RSVR ERROR LO
*	A 405	56TB3-K18	56J09- 58	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	AA388	56TB3-K18	56J19-M5	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	A 283R	56TB3-K19	56P06-D*	IMU PRESSURE MONITOR HI
*	A 379R	56TB3-K19	56P09- 42	IMU PRESSURE MONITOR HI
*	AA414	56TB3-K19	56J20-A4	IMU PRESSURE MONITOR HI
	A 595	56TB3-K20	56TB3-C15	0 VDC OPTICS
*	A 644	56TB3-K20	56P11-G	0 VDC OPTICS
*	AA325	56TB3-K20	56J18-S3	0 VDC OPTICS
*	AA327	56TB3-K20	56J18-T3	0 VDC OPTICS
*	AA333	56TB3-K20	56J18-R3	0 VDC OPTICS
	AA566	56TB3-K21	56TB3-C15	0 VDC OPTICS
*	A 249	56TB3-K21	56P05-S	0 VDC OPTICS
*	A 250	56TB3-K21	56P05-T	0 VDC OPTICS
*	AA390	56TB3-K21	56J19-R4	0 VDC OPTICS
*	AA393	56TB3-K21	56J19-P5	0 VDC OPTICS
	A 596	56TB3-K22	56TB3-C15	0 VDC OPTICS
*	A 647	56TB3-K22	56P12-G	0 VDC OPTICS
*	AA364	56TB3-K22	56J19-S4	0 VDC OPTICS
*	AA369	56TB3-K22	56J19-S5	0 VDC OPTICS
*	AA408	56TB3-K22	56J20-N3	0 VDC OPTICS
*	A 2	56TB3-L 1	56P01- 65	IRIG TEMP GAIN SWITCH NC
*	A 398	56TB3-L 1	56J09- 86	IRIG TEMP GAIN SWITCH NC
*	AA290	56TB3-L 1	56J17-C8	IRIG TEMP GAIN SWITCH NC
*	A 32	56TB3-L 2	56P01- 55	IMU TD RELAY NO
*	AA249	56TB3-L 2	56J17-F8	IMU TD RELAY NO
*	A 275W	56TB3-L 3	56P06-L	IRIG TEMP CONT SENSOR RET
*	AA268	56TB3-L 3	56J17-B5	IRIG TEMP CONT SENSOR RET

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 275R	56TB3-L 4	56P06-M	IRIG TEMP CONT SENSOR HI
*	AA267	56TB3-L 4	56J17-B6	IRIG TEMP CONT SENSOR HI
*	A 400	56TB3-L 5	56J09- 76	IMU TEMP CONT K2 PIN 6
*	AA263	56TB3-L 5	56J17-L1	IMU TEMP CONT K2 PIN 6
*	A 210W	56TB3-L 6	56J08- 45	400 CPS 0.5 V PI PHASE
*	A 459W	56TB3-L 6	56P10- 39	400 CPS 0.5 V PI PHASE
*	A 121R	56TB3-L 7	56J04-106	SHAFT CDU TACH HI
*	AA316L	56TB3-L 7	56J18-A8	SHAFT CDU TACH HI
*	A 121W	56TB3-L 8	56J04- 92	SHAFT CDU TACH LO
*	AA316R	56TB3-L 8	56J18-A7	SHAFT CDU TACH LO
	A 121B	56TB3-L 9	SHLD A 121	0 VDC OPTICS
	A 132B	56TB3-L 9	SHLD A 132	0 VDC OPTICS
	AA316B	56TB3-L 9	SHLD AA316	0 VDC OPTICS
	AA544	56TB3-L 9	56TB3-M 9	0 VDC OPTICS
*	AA543	56TB3-L 9	56TB3-K 9	0 VDC OPTICS
*	A 132R	56TB3-L10	56J05- 12	TRUNNION CDU 1/2X RSVR P2
*	AA317W	56TB3-L10	56J18-A6	TRUNNION CDU 1/2X RSVR P2
*	A 132W	56TB3-L11	56E 18	TRUNNION CDU 1/2X RSVR P3
*	AA317R	56TB3-L11	56J18-B6	TRUNNION CDU 1/2X RSVR P3
*	A 148R	56TB3-L12	56J05- 56	TRUNNION CDU 1/2X RSVR LOAD HI
*	AA318W	56TB3-L12	56J18-F3	TRUNNION CDU 1/2X RSVR LOAD HI
*	A 282R	56TB3-L13	56P06-B*	PRESSURE SENSOR +28 VDC HI
*	AA464R	56TB3-L13	56J20-A6	PRESSURE SENSOR +28 VDC HI
*	A 607R	56TB3-L14	56P10- 69	400 CPS 115 V HI
*	A 608R	56TB3-L14	56P11-N	400 CPS 115 V HI
*	AA465R	56TB3-L14	56J20-H3	400 CPS 115 V HI
	AA533	56TB3-L15	56TB3-M15	0 VDC OPTICS
*	A 436	56TB3-L15	56J09- 83	0 VDC OPTICS
*	AA552	56TB3-L15	56TB3-K15	0 VDC OPTICS
*	A 310R	56TB3-L16	56P08-G*	SCT SHAFT 1/2X RSVR ERROR LO
*	AA379R	56TB3-L16	56J19-C8	SCT SHAFT 1/2X RSVR ERROR LO
*	A 310W	56TB3-L17	56P08-I*	SCT SHAFT 1/2X RSVR ERROR HI
*	AA379W	56TB3-L17	56J19-D8	SCT SHAFT 1/2X RSVR ERROR HI
*	A 428	56TB3-L18	56J09- 99	COSECANT RELAY CONTROL
*	AA389	56TB3-L18	56J19-N5	COSECANT RELAY CONTROL
	AA521	56TB3-L19	56J21- 62	+13 VDC AGC
*	A 380	56TB3-L19	56P09- 62	+13 VDC AGC
*	AA425	56TB3-L19	56J20-C6	+13 VDC AGC
*	A 593	56TB3-L20	56TB3-D15	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 648	56TB3-L20	56P12-G	0 VDC OPTICS
*	AA 66	56TB3-L20	56J12-R6	0 VDC OPTICS
*	AA228	56TB3-L20	56J16-R5	0 VDC OPTICS
*	AA229	56TB3-L20	56J16-R6	0 VDC OPTICS
	AA563	56TB3-L21	56TB3-D15	0 VDC OPTICS
*	A 329	56TB3-L21	56P09- 66	0 VDC OPTICS
*	A 645	56TB3-L21	56P11-G	0 VDC OPTICS
*	AA282	56TB3-L21	56J17-R6	0 VDC OPTICS
*	AA407	56TB3-L21	56J20-N4	0 VDC OPTICS
	A 594	56TB3-L22	56TB3-D15	0 VDC OPTICS
*	A 429	56TB3-L22	56J09- 1	0 VDC OPTICS
*	AA365	56TB3-L22	56J19-T4	0 VDC OPTICS
*	AA367	56TB3-L22	56J19-T6	0 VDC OPTICS
*	A 285	56TB3-M 1	56P06-P	ACCEL TEMP IND SENSOR RET
*	AA269	56TB3-M 1	56J17-D5	ACCEL TEMP IND SENSOR RET
*	A 31	56TB3-M 2	56P01- 45	IMU TD RELAY C
*	AA251	56TB3-M 2	56J17-D8	IMU TD RELAY C
*	A 392	56TB3-M 3	56J09- 2	TRUNNION ENCODER PIN 8
*	AA285	56TB3-M 3	56J17-A9	TRUNNION ENCODER PIN 8
*	A 397	56TB3-M 4	56J09-104	ACCEL ZERO DEVIATION CHECK
*	AA256	56TB3-M 4	56J17-D7	ACCEL ZERO DEVIATION CHECK
*	A 441	56TB3-M 5	56J09-103	IMU IMU TEMP CONT +5 DEG GAIN CHECK
*	AA255	56TB3-M 5	56J17-D6	IMU IMU TEMP CONT +5 DEG GAIN CHECK
*	A 188	56TB3-M 6	56J08- 60	IMU FAIL LIGHT HI
*	A 334	56TB3-M 6	56P09- 48	IMU FAIL LIGHT HI
*	A 465	56TB3-M 6	56J10- 6	IMU FAIL LIGHT HI
*	A 144W	56TB3-M 7	56J05- 92	TRUNNION CDU TACH LO
*	AA315R	56TB3-M 7	56J18-B9	TRUNNION CDU TACH LO
*	A 144R	56TB3-M 8	56J05-106	TRUNNION CDU TACH HI
*	AA315L	56TB3-M 8	56J18-A9	TRUNNION CDU TACH HI
	A 144B	56TB3-M 9	SHLD A 144	0 VDC OPTICS
	A 425B	56TB3-M 9	SHLD A 425	0 VDC OPTICS
	AA315B	56TB3-M 9	SHLD AA315	0 VDC OPTICS
	AA545	56TB3-M 9	56TB3-N 9	0 VDC OPTICS
*	AA544	56TB3-M 9	56TB3-L 9	0 VDC OPTICS
*	A 425R	56TB3-M10	56J09- 10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
*	AA326W	56TB3-M10	56J18-D8	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
*	A 425W	56TB3-M11	56J09- 23	RSVR DRIVE AMP INPUT LO
*	AA326L	56TB3-M11	56J18-F9	RSVR DRIVE AMP INPUT LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 425L	56TB3-M12	56J09- 24	RSVR DRIVE AMP SHAFT SIG (RSVD) HI
*	AA326R	56TB3-M12	56J18-F8	RSVR DRIVE AMP SHAFT SIG (RSVD) HI
*	A 237W	56TB3-M13	56P03-P	PITCH ERROR BODY AND BODY OFFSET AXIS LO
*	AA289W	56TB3-M13	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
*	A 237R	56TB3-M14	56P03-R	PITCH-YAW RSVR S4
*	AA289R	56TB3-M14	56J17-C2	PITCH-YAW RSVR S4
	A 254B	56TB3-M15	SHLD A 254	0 VDC OPTICS
	A 309B	56TB3-M15	SHLD A 309	0 VDC OPTICS
	A 310B	56TB3-M15	SHLD A 310	0 VDC OPTICS
	AA534	56TB3-M15	56TB3-N15	0 VDC OPTICS
*	AA533	56TB3-M15	56TB3-L15	0 VDC OPTICS
*	A 254R	56TB3-M16	56P05-C*	SXT TRUNNION 1X RSVR ERROR HI
*	AA374W	56TB3-M16	56J19-D1	SXT TRUNNION 1X RSVR ERROR HI
*	A 254W	56TB3-M17	56P05-D*	SXT TRUNNION 1X RSVR ERROR LO
*	AA374R	56TB3-M17	56J19-D2	SXT TRUNNION 1X RSVR ERROR LO
*	A 113	56TB3-M18	56J04- 89	SHAFT CDU 16X LOAD
*	AA385	56TB3-M18	56J19-C4	SHAFT CDU 16X LOAD
	AA525	56TB3-M19	56J21- 96	+3 VDC AGC
*	A 381	56TB3-M19	56P09- 54	+3 VDC AGC
*	AA426	56TB3-M19	56J20-D6	+3 VDC AGC
	AA515	56TB3-M20	56TB3-C18	+28 VDC OPTICS
	AA558	56TB3-M20	56TB3-C19	+28 VDC OPTICS
*	A 445	56TB3-M20	56J09- 71	+28 VDC OPTICS
*	AA457	56TB3-M20	56J20-M6	+28 VDC OPTICS
*	A 29	56TB3-M21	56P01- 89	+28 VDC MDV
*	AA280	56TB3-M21	56J17-R5	+28 VDC MDV
*	AA405	56TB3-M21	56J20-M5	+28 VDC MDV
*	A 435	56TB3-M22	56J09- 51	+28 VDC MDV
*	A 507	56TB3-M22	56J10- 8	+28 VDC MDV
*	AA 82	56TB3-M22	56J12-L1	+28 VDC MDV
*	AA404	56TB3-M22	56J20-L5	+28 VDC MDV
*	A 279R	56TB3-N 1	56P06-X	IMU EMERGENCY HTR HI
*	AA265L	56TB3-N 1	56J17-M4	IMU EMERGENCY HTR HI
*	A 279W	56TB3-N 2	56P06-R	EMERGENCY HTR LO-OPER AND STBY
*	AA265R	56TB3-N 2	56J17-N4	EMERGENCY HTR LO-OPER AND STBY
	A 279B	56TB3-N 3	SHLD A 279	0 VDC IMU
	AA270B	56TB3-N 3	SHLD AA270	0 VDC IMU
*	A 592	56TB3-N 3	56TB3-R 3	0 VDC IMU
*	A 653	56TB3-N 3	56P11-F	0 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA295	56TB3-N 3	56J17-S3	0 VDC IMU
*	A 278W	56TB3-N 4	56P06-W	IMU CONTROL HTR LO
*	AA270L	56TB3-N 4	56J17-N1	IMU CONTROL HTR LO
*	A 278R	56TB3-N 5	56P06-V	IMU CONTROL HTR HI
*	AA270R	56TB3-N 5	56J17-P1	IMU CONTROL HTR HI
*	A 277	56TB3-N 6	56P06-Y	EMERG HTR CONT MODULE LO
*	A 402	56TB3-N 6	56J09- 90	EMERG HTR CONT MODULE LO
*	A 114R	56TB3-N 7	56J04-100	SHAFT CDU 16X RSVR COS LO P3
*	AA313R	56TB3-N 7	56J18-A5	SHAFT CDU 16X RSVR COS LO P3
*	A 114W	56TB3-N 8	56J04- 86	SHAFT CDU 16X RSVR COS HI P1
*	AA313W	56TB3-N 8	56J18-A4	SHAFT CDU 16X RSVR COS HI P1
	A 114B	56TB3-N 9	SHLD A 114	0 VDC OPTICS
	A 115B	56TB3-N 9	SHLD A 115	0 VDC OPTICS
	AA308B	56TB3-N 9	SHLD AA308	0 VDC OPTICS
	AA546	56TB3-N 9	56TB3-R 9	0 VDC OPTICS
*	AA545	56TB3-N 9	56TB3-M 9	0 VDC OPTICS
*	A 115W	56TB3-N10	56J04- 87	SHAFT CDU 16X RSVR SIN HI P2
*	AA314W	56TB3-N10	56J18-B5	SHAFT CDU 16X RSVR SIN HI P2
*	A 115R	56TB3-N11	56J04-101	SHAFT CDU 16X RSVR SIN LO P4
*	AA314R	56TB3-N11	56J18-C5	SHAFT CDU 16X RSVR SIN LO P4
*	A 108R	56TB3-N13	56J04- 66	SHAFT CDU 1/2X COS LO S4
*	A 261R	56TB3-N13	56P05-W*	SHAFT CDU 1/2X COS LO P4
*	A 313W	56TB3-N13	56P08-M*	SHAFT CDU 1/2X COS LO P2
*	AA396R	56TB3-N13	56J19-D6	SHAFT CDU 1/2X COS LO S4
*	A 108W	56TB3-N14	56J04- 56	SHAFT CDU 1/2X COS HI S2
*	A 261W	56TB3-N14	56P05-X*	SHAFT CDU 1/2X COS HI P2
*	A 313R	56TB3-N14	56P08-N*	SHAFT CDU 1/2X COS HI P4
*	AA396W	56TB3-N14	56J19-D5	SHAFT CDU 1/2X COS HI S2
	A 108B	56TB3-N15	SHLD A 108	0 VDC OPTICS
	AA535	56TB3-N15	56TB3-R15	0 VDC OPTICS
*	AA534	56TB3-N15	56TB3-M15	0 VDC OPTICS
*	A 309R	56TB3-N16	56P08-E*	SCT SHAFT TACH HI
*	AA373W	56TB3-N16	56J19-B9	SCT SHAFT TACH HI
*	A 309W	56TB3-N17	56P08-F*	SCT SHAFT TACH LO
*	AA373R	56TB3-N17	56J19-C9	SCT SHAFT TACH LO
*	A 136	56TB3-N18	56J05- 89	TRUNNION CDU 16X LOAD
*	AA384	56TB3-N18	56J19-C3	TRUNNION CDU 16X LOAD
	AA522	56TB3-N19	56J21- 63	0 VDC AGC
*	A 331	56TB3-N19	56P09- 18	0 VDC AGC

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 382	56TB3-N19	56P09- 63	0 VDC AGC
*	AA424	56TB3-N19	56J20-K4	0 VDC AGC
*	A 64R	56TB3-N20	56J02- 20	COS AMG 1X S3
*	A 221R	56TB3-N20	56P02-L	COS AMG 1X S3
*	A 358R	56TB3-N20	56P09- 28	COS AMG 1X S3
*	AA419W	56TB3-N20	56J20-A3	COS AMG 1X S3
*	AA508L	56TB3-N20	56J22-113	COS AMG 1X S3
*	A 64W	56TB3-N21	56J02- 6	COS AMG 1X S1
*	A 221W	56TB3-N21	56P02-M	COS AMG 1X S1
*	A 358W	56TB3-N21	56P09- 40	COS AMG 1X S1
*	AA419R	56TB3-N21	56J20-B3	COS AMG 1X S1
*	AA508R	56TB3-N21	56J22-114	COS AMG 1X S1
*	A 326	56TB3-N22	56P09- 20	+28 VDC STBY
*	AA445	56TB3-N22	56J20-P3	+28 VDC STBY
	A 278B	56TB3-R 3	SHLD A 278	0 VDC IMU
	A 592	56TB3-R 3	56TB3-N 3	0 VDC IMU
	AA631	56TB3-R 3	56TB3-S 3	0 VDC IMU
*	A 591	56TB3-R 3	56TB3-T 3	0 VDC IMU
*	AA297	56TB3-R 3	56J17-S4	0 VDC IMU
*	AA466	56TB3-R 3	56TB3-H12	0 VDC IMU
*	A 236R	56TB3-R 4	56P03-N	PITCH YAW RSVR S3
*	AA247R	56TB3-R 4	56J17-D2	PITCH YAW RSVR S3
*	A 236W	56TB3-R 5	56P03-M	YAW ERROR BODY OFFSET AXIS LO
*	AA247W	56TB3-R 5	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	A 276	56TB3-R 6	56P06-N	ACCEL INDICATING SENSOR HI
*	A 395	56TB3-R 6	56J09- 97	ACCEL INDICATING SENSOR HI
*	A 248W	56TB3-R 7	56P05-N*	SXT AS 16X RSVR SIN LO
*	AA311R	56TB3-R 7	56J18-D3	SXT AS 16X RSVR SIN LO
*	A 248R	56TB3-R 8	56P05-P*	SXT AS 16X RSVR SIN HI
*	AA311W	56TB3-R 8	56J18-D2	SXT AS 16X RSVR SIN HI
	A 248B	56TB3-R 9	SHLD A 248	0 VDC OPTICS
	A 258B	56TB3-R 9	SHLD A 258	0 VDC OPTICS
	AA307B	56TB3-R 9	SHLD AA307	0 VDC OPTICS
	AA547	56TB3-R 9	56TB3-S 9	0 VDC OPTICS
*	AA546	56TB3-R 9	56TB3-N 9	0 VDC OPTICS
*	A 258R	56TB3-R10	56P05-Q*	SXT AS 16X RSVR COS LO
*	AA312W	56TB3-R10	56J18-D1	SXT AS 16X RSVR COS LO
*	A 258W	56TB3-R11	56P05-R*	SXT AS 16X RSVR COS HI
*	AA312R	56TB3-R11	56J18-C1	SXT AS 16X RSVR COS HI

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 109R	56TB3-R12	56J04- 45	SHAFT CDU 1X P3 (S3)
*	AA328L	56TB3-R12	56J18-L6	SHAFT CDU 1X P3 (S3)
*	A 134W	56TB3-R13	56J05- 67	TRUNNION CDU 1/2X RSVR S3
*	AA386W	56TB3-R13	56J19-F9	TRUNNION CDU 1/2X RSVR S3
*	A 134R	56TB3-R14	56J05- 68	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
*	AA386R	56TB3-R14	56J19-F8	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	A 134B	56TB3-R15	SHLD A 134	0 VDC OPTICS
	A 261B	56TB3-R15	SHLD A 261	0 VDC OPTICS
	A 313B	56TB3-R15	SHLD A 313	0 VDC OPTICS
	AA553	56TB3-R15	56TB3-S15	0 VDC OPTICS
*	AA535	56TB3-R15	56TB3-N15	0 VDC OPTICS
*	A 302W	56TB3-R16	56P08-P	SCT TRUNNION TACH LO
*	AA372R	56TB3-R16	56J19-A8	SCT TRUNNION TACH LO
*	A 302R	56TB3-R17	56P08-N	SCT TRUNNION TACH HI
*	AA372W	56TB3-R17	56J19-A9	SCT TRUNNION TACH HI
*	A 305	56TB3-R18	56P08-U	SCT TRUNNION 1X RSVR LOAD
*	AA378	56TB3-R18	56J19-A7	SCT TRUNNION 1X RSVR LOAD
*	A 386W	56TB3-R19	56P09- 7	+2.5 VDC CONDITIONING HI
*	AA463W	56TB3-R19	56J20-D5	+2.5 VDC CONDITIONING HI
*	A 330	56TB3-R20	56P09- 4	+28 VDC AGC
*	AA422	56TB3-R20	56J20-H4	+28 VDC AGC
	A 236B	56TB3-S 3	SHLD A 236	0 VDC IMU
	AA265B	56TB3-S 3	SHLD AA265	0 VDC IMU
*	A 657	56TB3-S 3	56P12-D	0 VDC IMU
*	AA296	56TB3-S 3	56J17-S1	0 VDC IMU
*	AA631	56TB3-S 3	56TB3-R 3	0 VDC IMU
*	A 116L	56TB3-S 4	56J04-108	SHAFT CDU ENCODER PHASE 2
*	AA284L	56TB3-S 4	56J17-F9	SHAFT CDU ENCODER PHASE 2
	A 116B	56TB3-S 5	SHLD A 116	SHAFT CDU ENCODER COM
*	A 116R	56TB3-S 5	56J04- 94	SHAFT CDU ENCODER COM
*	AA284R	56TB3-S 5	56J17-D9	SHAFT CDU ENCODER COM
*	A 116W	56TB3-S 6	56J04-107	SHAFT CDU ENCODER PHASE 1
*	AA284W	56TB3-S 6	56J17-C9	SHAFT CDU ENCODER PHASE 1
*	A 253W	56TB3-S 7	56P05-B*	SXT AT 64X RSVR COS LO
*	AA308R	56TB3-S 7	56J18-B1	SXT AT 64X RSVR COS LO
*	A 253R	56TB3-S 8	56P05-A*	SXT AT 64X RSVR COS HI
*	AA308L	56TB3-S 8	56J18-A1	SXT AT 64X RSVR COS HI
	A 138B	56TB3-S 9	SHLD A 138	0 VDC OPTICS
	A 253B	56TB3-S 9	SHLD A 253	0 VDC OPTICS

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA310B	56TB3-S 9	SHLD AA310	0 VDC OPTICS
	AA548	56TB3-S 9	56TB3-T 9	0 VDC OPTICS
*	AA547	56TB3-S 9	56TB3-R 9	0 VDC OPTICS
*	A 138W	56TB3-S10	56J05- 87	TRUNNION CDU 16X RSVR SIN HI P2
*	AA310L	56TB3-S10	56J18-B3	TRUNNION CDU 16X RSVR SIN HI P2
*	A 138R	56TB3-S11	56J05-101	TRUNNION CDU 16X RSVR SIN LO P4
*	AA310R	56TB3-S11	56J18-B4	TRUNNION CDU 16X RSVR SIN LO P4
*	A 109W	56TB3-S12	56J04- 35	SHAFT CDU 1X P2 (S2)
*	AA328R	56TB3-S12	56J18-L5	SHAFT CDU 1X P2 (S2)
*	A 306R	56TB3-S13	56P08-V	SCT TRUNNION 1X SIN LO
*	AA383W	56TB3-S13	56J19-G3	SCT TRUNNION 1X SIN LO
*	A 306W	56TB3-S14	56P08-W	SCT TRUNNION 1X SIN HI
*	AA383R	56TB3-S14	56J19-G2	SCT TRUNNION 1X SIN HI
	A 257B	56TB3-S15	SHLD A 257	0 VDC OPTICS
	A 260B	56TB3-S15	SHLD A 260	0 VDC OPTICS
	A 302B	56TB3-S15	SHLD A 302	0 VDC OPTICS
	AA536	56TB3-S15	56TB3-T15	0 VDC OPTICS
*	AA553	56TB3-S15	56TB3-R15	0 VDC OPTICS
*	A 260W	56TB3-S16	56P05-V*	SXT SHAFT TACH LO
*	AA371R	56TB3-S16	56J19-A2	SXT SHAFT TACH LO
*	A 260R	56TB3-S17	56P05-U*	SXT SHAFT TACH HI
*	AA371W	56TB3-S17	56J19-A3	SXT SHAFT TACH HI
*	A 264	56TB3-S18	56P05-AA	SXT SHAFT 1/2X RSVR LOAD
*	AA376	56TB3-S18	56J19-C5	SXT SHAFT 1/2X RSVR LOAD
*	A 317W	56TB3-S19	56P09- 6	0 VDC CONDITIONING
*	AA427W	56TB3-S19	56J20-C5	0 VDC CONDITIONING
*	A 386R	56TB3-S20	56P09- 21	+2.5 VDC CONDITIONING LO
*	AA463R	56TB3-S20	56J20-D4	+2.5 VDC CONDITIONING LO
	A 559	56TB3-S21	56E 6	+28 VDC IMU
	AA560	56TB3-S21	56TB3-T21	+28 VDC IMU
*	A 21	56TB3-S21	56P01- 7	+28 VDC IMU
*	AA456	56TB3-S21	56J20-K2	+28 VDC IMU
	A 237B	56TB3-T 3	SHLD A 237	0 VDC IMU
	A 591	56TB3-T 3	56TB3-R 3	0 VDC IMU
	AA635	56TB3-T 3	56TB2-V 8	0 VDC IMU
*	A 658	56TB3-T 3	56P12-E	0 VDC IMU
*	AA248	56TB3-T 3	56J17-S2	0 VDC IMU
*	AA592	56TB3-T 3	56TB2-M 6	0 VDC IMU
*	A 139W	56TB3-T 4	56J05-107	TRUNNION CDU ENCODER PHASE 1

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA281W	56TB3-T 4	56J17-A6	TRUNNION CDU ENCODER PHASE 1
	A 139B	56TB3-T 5	SHLD A 139	TRUNNION CDU ENCODER COM
*	A 139R	56TB3-T 5	56J05- 94	TRUNNION CDU ENCODER COM
*	AA281R	56TB3-T 5	56J17-A7	TRUNNION CDU ENCODER COM
*	A 139L	56TB3-T 6	56J05-108	TRUNNION CDU ENCODER PHASE 2
*	AA281L	56TB3-T 6	56J17-A8	TRUNNION CDU ENCODER PHASE 2
*	A 252W	56TB3-T 7	56P05-Y	SXT AT 64X RSVR SIN HI
*	AA307R	56TB3-T 7	56J18-B2	SXT AT 64X RSVR SIN HI
*	A 252R	56TB3-T 8	56P05-Z	SXT AT 64X RSVR SIN LO
*	AA307L	56TB3-T 8	56J18-C2	SXT AT 64X RSVR SIN LO
	A 137B	56TB3-T 9	SHLD A 137	0 VDC OPTICS
	A 252B	56TB3-T 9	SHLD A 252	0 VDC OPTICS
	AA309B	56TB3-T 9	SHLD AA309	0 VDC OPTICS
	AA549	56TB3-T 9	56TB3-T15	0 VDC OPTICS
*	AA548	56TB3-T 9	56TB3-S 9	0 VDC OPTICS
*	A 137W	56TB3-T10	56J05- 86	TRUNNION CDU 16X RSVR COS HI P1
*	AA309L	56TB3-T10	56J18-A2	TRUNNION CDU 16X RSVR COS HI P1
*	A 137R	56TB3-T11	56J05-100	TRUNNION CDU 16X RSVR COS LO P3
*	AA309R	56TB3-T11	56J18-A3	TRUNNION CDU 16X RSVR COS LO P3
*	A 109L	56TB3-T12	56J04- 34	SHAFT CDU 1X P1 (S1)
*	AA328W	56TB3-T12	56J18-K6	SHAFT CDU 1X P1 (S1)
*	A 307W	56TB3-T13	56P08-Y	SCT TRUNNION 1X COS LO
*	AA382R	56TB3-T13	56J19-G1	SCT TRUNNION 1X COS LO
*	A 307R	56TB3-T14	56P08-X	SCT TRUNNION 1X COS HI
*	AA382W	56TB3-T14	56J19-H1	SCT TRUNNION 1X COS HI
	A 306B	56TB3-T15	SHLD A 306	0 VDC OPTICS
	A 307B	56TB3-T15	SHLD A 307	0 VDC OPTICS
*	A 664	56TB3-T15	56TB3-B15	0 VDC OPTICS
*	AA536	56TB3-T15	56TB3-S15	0 VDC OPTICS
*	AA549	56TB3-T15	56TB3-T 9	0 VDC OPTICS
*	A 257R	56TB3-T16	56P05-K*	SXT TRUNNION TACH HI
*	AA370W	56TB3-T16	56J19-A1	SXT TRUNNION TACH HI
*	A 257W	56TB3-T17	56P05-M*	SXT TRUNNION TACH LO
*	AA370R	56TB3-T17	56J19-B1	SXT TRUNNION TACH LO
*	A 311	56TB3-T18	56P08-H*	SCT SHAFT 1/2X RSVR LOAD
*	AA380	56TB3-T18	56J19-C7	SCT SHAFT 1/2X RSVR LOAD
*	A 317R	56TB3-T19	56P09- 5	+20 VDC CONDITIONING
*	AA427R	56TB3-T19	56J20-B5	+20 VDC CONDITIONING
	AA559	56TB3-T20	56TB3-T21	+28 VDC IMU

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 244	56TB3-T20	56P03-H*	+28 VDC IMU
*	A 284	56TB3-T20	56P06-D	+28 VDC IMU
*	AA454	56TB3-T20	56J20-K1	+28 VDC IMU
*	A 327	56TB3-T21	56P09- 19	+28 VDC IMU
*	AA455	56TB3-T21	56J20-K1	+28 VDC IMU
*	AA559	56TB3-T21	56TB3-T20	+28 VDC IMU
*	AA560	56TB3-T21	56TB3-S21	+28 VDC IMU

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HOUSTON, TEXAS
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1014607
SCALE - NONE
REV LTR K
SHEET 121

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA516	56TB3-D15	56TB3-L20	0 VDC OPTICS	
*	A 529	56TB3-D15	56P11-G	0 VDC OPTICS	
*	AA514	56TB3-D15	56TB3-B15	0 VDC OPTICS	
*	AA563	56TB3-D15	56TB3-L21	0 VDC OPTICS	
*	AA564	56TB3-D15	56TB3-L22	0 VDC OPTICS	
*	AA609	56TB3-D15	56TB3-C15	0 VDC OPTICS	
*	A 246L	56TB3-D16	56P05-J*	SXT TRUNNION MOTOR CONTROL WINDING BLK	
*	AA358W	56TB3-D16	56J19-S3	SXT TRUNNION MOTOR CONTROL WINDING	
*	A 246W	56TB3-D17	56P05-I*	SXT TRUNNION MOTOR CONTROL WINDING RED	
*	AA358R	56TB3-D17	56J19-S2	SXT TRUNNION MOTOR CONTROL WINDING	
*	A 259W	56TB3-D18	56P05-A	SXT SHAFT MOTOR CONTROL WINDING RED	
*	AA359R	56TB3-D18	56J19-P1	SXT SHAFT MOTOR CONTROL WINDING	
	AA526	56TB3-D19	56J21-129	AGC TEMP MONITOR NO 3	173
*	A 371W	56TB3-D19	56P09- 75	AGC TEMP MONITOR NO 3	
*	AA418	56TB3-D19	56J20-B1	AGC TEMP MONITOR NO 3	
*	A 537	56TB3-D20	56P12-B	+28 VDC IMU BUSS B	
*	AA433	56TB3-D20	56J20-N2	+28 VDC IMU BUSS B	
*	A 538	56TB3-D21	56P12-C	+28 VDC IMU BUSS B	
*	AA437	56TB3-D21	56J20-S2	+28 VDC IMU BUSS B	
*	A 524	56TB3-D22	56P11-M	+28 VDC STBY BUSS A	
*	AA441	56TB3-D22	56J20-R3	+28 VDC STBY BUSS A	
*	A 462	56TB3-F 1	56P10- 9	0 VDC SPACECRAFT	
*	AA278	56TB3-F 1	56J17-M3	0 VDC SPACECRAFT	
	AA570	56TB3-F 2	56J22-172	MAIN PANEL CONDITION LAMP TEST	
*	A 463	56TB3-F 2	56P10- 22	MAIN PANEL CONDITION LAMP TEST	
*	AA279	56TB3-F 2	56J17-L2	MAIN PANEL CONDITION LAMP TEST	
*	A 28	56TB3-F 3	56P01- 88	CONDITION LAMP TEST	
*	A 390	56TB3-F 3	56J09- 73	CONDITION LAMP TEST	
*	A 464	56TB3-F 3	56J10- 2	CONDITION LAMP TEST	328
*	AA235	56TB3-F 3	56J17-P6	CONDITION LAMP TEST	
	AA518	56TB3-F 4	56J22-190	ATTITUDE CONTROL RELAY CONTROL	
*	A 12	56TB3-F 4	56P01- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 166	56TB3-F 4	56J06- 24	ATTITUDE CONTROL RELAY CONTROL	
*	A 243	56TB3-F 5	56P03-J*	GIMBAL LOCK SIGNAL	
*	A 342	56TB3-F 5	56P09- 10	GIMBAL LOCK SIGNAL	
*	A 454	56TB3-F 5	56P10- 12	GIMBAL LOCK SIGNAL	
*	A 143	56TB3-F 6	56J05- 3	TRUNNION CDU MOTOR EXC	
*	A 424	56TB3-F 6	56J09- 49	TRUNNION CDU MOTOR EXC	
	A 421B	56TB3-F 7	SHLD A421	TRUNNION CDU DAC LO	
*	A 421W	56TB3-F 7	56J09- 47	TRUNNION CDU DAC LO	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA344R	56TB3-F 7	56J18-H3	TRUNNION CDU DAC LO	
	A 422B	56TB3-F 8	SHLD A422	SHAFT CDU DAC LO	
*	A 422W	56TB3-F 8	56J09- 57	SHAFT CDU DAC LO	
*	AA345R	56TB3-F 8	56J18-H2	SHAFT CDU DAC LO	
*	A 130W	56TB3-F10	56J05- 22	TRUNNION CDU 1/4X SIN LO	
*	A 256W	56TB3-F10	56P05-H*	TRUNNION CDU 1/4X SIN LO	
*	AA330R	56TB3-F10	56J18-F2	TRUNNION CDU 1/4X SIN LO	
*	A 427R	56TB3-F11	56J09- 35	SHAFT CDU MDA CONTROLLER SIG HI	
*	AA336W	56TB3-F11	56J18-F6	SHAFT CDU MDA CONTROLLER SIG HI	
	A 427B	56TB3-F12	SHLD A427	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 427W	56TB3-F12	56J09- 34	SHAFT CDU MDA CONTROLLER SIG LO	
*	AA336R	56TB3-F12	56J18-F7	SHAFT CDU MDA CONTROLLER SIG LO	
*	A 40W	56TB3-F13	56J01- 6	COS AIG 1X RET P1	
*	A 227W	56TB3-F13	56P02-B*	COS AIG 1X RET S1	
*	A 356R	56TB3-F13	56P09- 2	COS AIG 1X RET	
*	AA510W	56TB3-F13	56J22-150	COS AIG 1X RET	
*	A 40R	56TB3-F14	56J01- 20	COS AIG 1X P3	
*	A 227R	56TB3-F14	56P02-A*	COS AIG 1X S3	
*	A 356W	56TB3-F14	56P09- 3	COS AIG 1X	
*	AA510R	56TB3-F14	56J22-151	COS AIG 1X	
*	A 131R	56TB3-F16	56J05- 9	TRUNNION CDU 1/4X COS HI	
*	A 255W	56TB3-F16	56P05-F*	TRUNNION CDU 1/4X COS HI	
*	AA381W	56TB3-F16	56J19-F5	TRUNNION CDU 1/4X COS HI	
*	A 308L	56TB3-F17	56P08-D*	SCT SHAFT MOTOR CONTROL WINDING BLK	
*	A 378W	56TB3-F17	56P09- 77	SCT SHAFT MOTOR CONTROL WINDING	
*	AA361W	56TB3-F17	56J19-R2	SCT SHAFT MOTOR CONTROL WINDING	
*	A 259L	56TB3-F18	56P05-C	SXT SHAFT MOTOR CONTROL WINDING BLK	
*	AA359W	56TB3-F18	56J19-R1	SXT SHAFT MOTOR CONTROL WINDING	
	AA529	56TB3-F19	56J21-162	AGC TEMP MONITOR NO 2	172
*	A 371R	56TB3-F19	56P09- 74	AGC TEMP MONITOR NO 2	
*	AA417	56TB3-F19	56J20-A2	AGC TEMP MONITOR NO 2	
	AA528	56TB3-F20	56J21-140	0 VDC AGC	170
	AA532	56TB3-F20	56J21-208	0 VDC AGC	170
*	A 542	56TB3-F20	56P12-J	0 VDC AGC	
	A 548	56TB3-F21	56E 12	STRUCTURE GND	
*	A 33	56TB3-F21	56P01- 84	STRUCTURE GND	
*	A 270	56TB3-F21	56P05-R	STRUCTURE GND	
*	A 288	56TB3-F21	56P06-G	STRUCTURE GND	
*	A 535	56TB3-F21	56P11-L	STRUCTURE GND	
*	AA607	56TB3-F21	56TB3-F22	STRUCTURE GND	

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99974	A	1014607
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA607	56TB3-F22	56TB3-F21	STRUCTURE GND	
*	A 178	56TB3-F22	56J06- 91	STRUCTURE GND	
*	A 215	56TB3-F22	56J08- 29	STRUCTURE GND	
*	A 316	56TB3-F22	56P08-T*	STRUCTURE GND	
*	A 451	56TB3-F22	56J09- 91	STRUCTURE GND	
*	A 545	56TB3-F22	56P12-L	STRUCTURE GND	
*	AA462	56TB3-F22	56J20-G4	STRUCTURE GND	
*	A 401R	56TB3-G 1	56J09-100	IMU HTR CURRENT AMP PIN 5	
*	AA258K	56TB3-G 1	56J17-N6	IMU HTR CURRENT AMP PIN 5	
*	A 401K	56TB3-G 2	56J09- 88	IMU TEMP CONT K2 PIN 5	
*	AA258L	56TB3-G 2	56J17-N5	IMU TEMP CONT K2 PIN 5	
*	A 443	56TB3-G 3	56J09- 89	IRIG ZERO DEVIATION CHECK	
*	AA253	56TB3-G 3	56J17-B8	IRIG ZERO DEVIATION CHECK	
*	A 442	56TB3-G 4	56J09- 85	IRIG TEMP BRIDGE AMP PIN 6	
*	AA254	56TB3-G 4	56J17-C7	IRIG TEMP BRIDGE AMP PIN 6	
*	A 274	56TB3-G 5	56P06-K	IMU TEMP SENSOR COM	
*	AA277	56TB3-G 5	56J17-M2	IMU TEMP SENSOR COM	
*	A 120	56TB3-G 6	56J04- 3	SHAFT CDU MOTOR EXC	
*	A 423	56TB3-G 6	56J09- 38	SHAFT CDU MOTOR EXC	
*	A 421R	56TB3-G 7	56J09- 56	TRUNNION CDU DAC OUTPUT HI	
*	AA344W	56TB3-G 7	56J18-G3	TRUNNION CDU DAC OUTPUT HI	
*	A 422R	56TB3-G 8	56J09- 48	SHAFT CDU DAC OUTPUT HI	
*	AA345W	56TB3-G 8	56J18-G2	SHAFT CDU DAC OUTPUT HI	
	A 130B	56TB3-G 9	SHLD A130	0 VDC OPTICS	
	A 256B	56TB3-G 9	SHLD A256	0 VDC OPTICS	
	AA538	56TB3-G 9	56TB3-B15	0 VDC OPTICS	
	AA541	56TB3-G 9	56TB3-H 9	0 VDC OPTICS	
*	A 130R	56TB3-G10	56J05- 8	TRUNNION CDU 1/4X SIN HI	
*	A 256R	56TB3-G10	56P05-G*	TRUNNION CDU 1/4X SIN HI	
*	AA330W	56TB3-G10	56J18-F1	TRUNNION CDU 1/4X SIN HI	
*	A 426R	56TB3-G11	56J09- 19	TRUNNION CDU MDA CONTROLLER SIG HI	
*	AA335W	56TB3-G11	56J18-C7	TRUNNION CDU MDA CONTROLLER SIG HI	
	A 426B	56TB3-G12	SHLD A426	TRUNNION CDU MDA CONTROLLER SIG LO	
*	A 426W	56TB3-G12	56J09- 33	TRUNNION CDU MDA CONTROLLER SIG LO	
*	AA335R	56TB3-G12	56J18-D7	TRUNNION CDU MDA CONTROLLER SIG LO	
*	A 111W	56TB3-G13	56J04- 21	SHAFT CDU 1X SIN OUTPUT LO	
*	AA334R	56TB3-G13	56J18-D6	SHAFT CDU 1X SIN OUTPUT LO	
*	A 111R	56TB3-G14	56J04- 7	SHAFT CDU 1X SIN OUTPUT HI	
*	AA334W	56TB3-G14	56J18-C6	SHAFT CDU 1X SIN OUTPUT HI	
	A 111B	56TB3-G15	SHLD A111	0 VDC OPTICS	

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99974	A	1014607
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA550	56TB3-G15	56TB3-H15	0 VDC OPTICS	
*	AA549	56TB3-G15	56TB3-T 9	0 VDC OPTICS	
*	A 131W	56TB3-G16	56J05- 10	TRUNNION CDU 1/4X COS LO	
*	A 255R	56TB3-G16	56P05-E*	TRUNNION CDU 1/4X COS LO	
*	AA381R	56TB3-G16	56J19-F6	TRUNNION CDU 1/4X COS LO	
*	A 308W	56TB3-G17	56P08-C*	SCT SHAFT MOTOR CONTROL WINDING RED	
*	A 378R	56TB3-G17	56P09- 76	SCT SHAFT MOTOR CONTROL WINDING	
*	AA361R	56TB3-G17	56J19-P2	SCT SHAFT MOTOR CONTROL WINDING	
*	A 404	56TB3-G18	56J09- 59	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
*	AA387	56TB3-G18	56J19-M6	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
	AA530	56TB3-G19	56J21-196	AGC TEMP MONITOR NO 1	171
*	A 371L	56TB3-G19	56P09- 64	AGC TEMP MONITOR NO 1	
*	AA416	56TB3-G19	56J20-A1	AGC TEMP MONITOR NO 1	
	AA520	56TB3-G20	56J21- 2	0 VDC AGC	169
	AA524	56TB3-G20	56J21- 74	0 VDC AGC	169
*	A 531	56TB3-G20	56P11-J	0 VDC AGC	
	AA519	56TB3-G21	56J21- 1	+28 VDC AGC BUSS A	167
	AA523	56TB3-G21	56J21- 73	+28 VDC AGC BUSS A	167
*	A 530	56TB3-G21	56P11-A	+28 VDC AGC BUSS A	
*	AA420	56TB3-G21	56J20-K5	+28 VDC AGC BUSS A	
	AA527	56TB3-G22	56J21-139	+28 VDC AGC BUSS B	168
	AA531	56TB3-G22	56J21-207	+28 VDC AGC BUSS B	168
*	A 541	56TB3-G22	56P12-A	+28 VDC AGC BUSS B	
*	AA421	56TB3-G22	56J20-K6	+28 VDC AGC BUSS B	
*	A 401L	56TB3-H 1	56J09- 87	IMU TEMP CONT AMP PIN 5	
*	AA258R	56TB3-H 1	56J17-M6	IMU TEMP CONT AMP PIN 5	
*	A 401W	56TB3-H 2	56J09-101	IMU TEMP CONT K1 PIN 3	
*	AA258W	56TB3-H 2	56J17-M5	IMU TEMP CONT K1 PIN 3	
*	A 399	56TB3-H 3	56J09-102	IMU TEMP CONT -5 DEG GAIN CHECK	
*	AA252	56TB3-H 3	56J17-B7	IMU TEMP CONT -5 DEG GAIN CHECK	
*	A 280	56TB3-H 4	56P06-Z	IRIG TEMP IND SENSOR HI	
*	AA276	56TB3-H 4	56J17-C6	IRIG TEMP IND SENSOR HI	
*	A 403	56TB3-H 5	56J09- 74	IMU TEMP ALARM AMP PIN 15	
*	AA262	56TB3-H 5	56J17-G2	IMU TEMP ALARM AMP PIN 15	
*	A 181	56TB3-H 6	56J08- 66	MDV SLEW CONTROL 0.5 V 40 CPS	
*	A 408	56TB3-H 6	56J09- 66	MDV SLEW CONTROL 0.5 V 40 CPS	
*	A 135W	56TB3-H 7	56J05- 90	TRUNNION CDU 16X ERROR SIG LO	
*	AA329R	56TB3-H 7	56J18-C8	TRUNNION CDU 16X ERROR SIG LO	
*	A 135R	56TB3-H 8	56J05-104	TRUNNION CDU 16X ERROR SIG HI	
*	AA329W	56TB3-H 8	56J18-B8	TRUNNION CDU 16X ERROR SIG HI	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 40

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

TDRR 03796

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL

APPLICATION

NEXT ASSY	USED ON

REV	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
SHEET	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49

REV STATUS OF SHEETS	REV	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

AC SPARK PLUG DIVISION , GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN J.A. LIMA 8 OCT 63 DATE

CHECKED

APPROVAL E. A. Woodrow 10-9-63

APPROVAL

NASA APPROVAL W J [illegible] 10-9-63

MIT APPROVAL W [illegible] 9 Oct 63

CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

INTERCONNECTION LIST OF AGE INTERCONNECT HARNESS & PSA END CONNECTOR ASSY

CODE IDENT NO.

SIZE A

1014607

REV

SCALE —

SHEET 1 OF 116

REVISION STATUS OF SHEETS

SH	REV	SH	REV
50	—	86	—
51	—	87	—
52	—	88	—
53	—	89	—
54	—	90	—
55	—	91	—
56	—	92	—
57	—	93	—
58	—	94	—
59	—	95	—
60	—	96	—
61	—	97	—
62	—	98	—
63	—	99	—
64	—	100	—
65	—	101	—
66	—	102	—
67	—	103	—
68	—	104	—
69	—	105	—
70	—	106	—
71	—	107	—
72	—	108	—
73	—	109	—
74	—	110	—
75	—	111	—
76	—	112	—
77	—	113	—
78	—	114	—
79	—	115	—
80	—	116	—
81	—		
82	—		
83	—		
84	—		
85	—		

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION

NASA DRAWING NO.
1014607
SHEET 2 OF

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 13B	SHLD A 13	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 14B	SHLD A 14	56E 44	AGC SIG 178 SHLD RET
*	A 15B	SHLD A 15	56E 44	AGC SIG 178 SHLD RET
*	A 16B	SHLD A 16	56E 44	AGC SIG 178 SHLD RET
*	A 23B	SHLD A 23	56TB2-S 2	OG CDU ERROR SIG RET
*	A 24B	SHLD A 24	56TB2-F 2	IG CDU ERROR SIG RET
*	A 25B	SHLD A 25	56TB2-F 7	MG CDU ERROR SIG RET
*	A 27B	SHLD A 27	56E 44	AGC SIG 178 SHLD RET
*	A 39B	SHLD A 39	56TB2-F 2	IG CDU ERROR SIG RET
*	A 40B	SHLD A 40	56TB3-H14	0 VDC IMU
*	A 41B	SHLD A 41	56TB3-H13	0 VDC IMU
*	A 42B	SHLD A 42	56TB2-G 1	IG CDU ERROR SIG RET
*	A 43B	SHLD A 43	56TB2-V 6	0 VDC IMU
*	A 44B	SHLD A 44	56TB2-D 8	0 VDC IMU
*	A 45B	SHLD A 45	56TB2-A 5	IG CDU ENCODER COM
*	A 51B	SHLD A 51	56TB2-T 7	IG CDU MDA INPUT RET
*	A 63B	SHLD A 63	56TB2-F 7	MG CDU ERROR SIG RET
*	A 64B	SHLD A 64	56E 48	0 VDC IMU
*	A 65B	SHLD A 65	56TB3-H12	0 VDC IMU
*	A 66B	SHLD A 66	56TB2-G 8	MG CDU ERROR SIG RET
*	A 67B	SHLD A 67	56TB2-V 5	0 VDC IMU
*	A 68B	SHLD A 68	56TB2-D 7	0 VDC IMU
*	A 69B	SHLD A 69	56TB2-C 6	MG CDU ENCODER COM
*	A 75B	SHLD A 75	56TB2-X 6	MG CDU MDA INPUT RET
*	A 86B	SHLD A 86	56TB2-S 2	OG CDU ERROR SIG RET
*	A 87B	SHLD A 87	56TB2-M 8	0 VDC IMU
*	A 88B	SHLD A 88	56TB2-V 8	0 VDC IMU
*	A 89B	SHLD A 89	56TB2-R 3	OG CDU ERROR SIG RET
*	A 90B	SHLD A 90	56TB2-V 4	0 VDC IMU
*	A 91B	SHLD A 91	56TB2-V 2	0 VDC IMU
*	A 92B	SHLD A 92	56TB2-A 4	OG CDU ENCODER COM
*	A 96B	SHLD A 96	56TB2-R 7	OG CDU MDA INPUT RET
*	A 107B	SHLD A107	56TB3-K 9	0 VDC OPTICS
*	A 108B	SHLD A108	56TB3-R15	0 VDC OPTICS
*	A 110B	SHLD A110	56TB3-K 9	0 VDC OPTICS
*	A 111B	SHLD A111	56TB3-G15	0 VDC OPTICS
*	A 112B	SHLD A112	56TB3-H 9	0 VDC OPTICS
*	A 114B	SHLD A114	56TB3-N 9	0 VDC OPTICS
*	A 115B	SHLD A115	56TB3-N 9	0 VDC OPTICS
*	A 116B	SHLD A116	56TB3-S 5	SHAFT CDU ENCODER COM

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 3

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 121B	SHLD A121	56TB3-L 9	0 VDC OPTICS
*	A 130B	SHLD A130	56TB3-G 9	0 VDC OPTICS
*	A 131B	SHLD A131	56TB3-H15	0 VDC OPTICS
*	A 132B	SHLD A132	56TB3-L 9	0 VDC OPTICS
*	A 134B	SHLD A134	56TB3-R15	0 VDC OPTICS
*	A 135B	SHLD A135	56TB3-H 9	0 VDC OPTICS
*	A 137B	SHLD A137	56TB3-T 9	0 VDC OPTICS
*	A 138B	SHLD A138	56TB3-S 9	0 VDC OPTICS
*	A 139B	SHLD A139	56TB3-T 3	TRUNNION CDU ENCODER COM
*	A 144B	SHLD A144	56TB3-M 9	0 VDC OPTICS
*	A 155B	SHLD A155	56TB2-D 3	AGC SIG 178 SHLD RET
*	A 156B	SHLD A156	56E 44	AGC SIG 178 SHLD RET
*	A 217B	SHLD A217	56TB2-V 3	0 VDC IMU
*	A 218B	SHLD A218	56TB2-V 2	0 VDC IMU
*	A 219B	SHLD A219	56TB2-V 5	0 VDC IMU
*	A 220B	SHLD A220	56TB2-D 7	0 VDC IMU
*	A 221B	SHLD A221	56E 48	0 VDC IMU
*	A 222B	SHLD A222	56TB3-H12	0 VDC IMU
*	A 224B	SHLD A224	56TB1-D 7	0 VDC IMU
*	A 225B	SHLD A225	56TB2-V 6	0 VDC IMU
*	A 226B	SHLD A226	56TB2-D 8	0 VDC IMU
*	A 227B	SHLD A227	56TB3-H14	0 VDC IMU
*	A 228B	SHLD A228	56TB3-H13	0 VDC IMU
*	A 229B	SHLD A229	56TB1-D 7	0 VDC IMU
*	A 230B	SHLD A230	56TB1-D 8	0 VDC IMU
*	A 232B	SHLD A232	56TB2-M 8	0 VDC IMU
*	A 233B	SHLD A233	56TB2-V 8	0 VDC IMU
*	A 234B	SHLD A234	56TB1-B 5	IG CDU ERROR SIG RET
*	A 235B	SHLD A235	56TB1-A 6	MG CDU ERROR SIG RET
*	A 236B	SHLD A236	56TB3-R 3	0 VDC IMU
*	A 237B	SHLD A237	56TB3-R 3	0 VDC IMU
*	A 245B	SHLD A245	56TB2-M 4	0 VDC IMU
*	A 248B	SHLD A248	56TB3-R 9	0 VDC OPTICS
*	A 252B	SHLD A252	56TB3-T 9	0 VDC OPTICS
*	A 253B	SHLD A253	56TB3-S 9	0 VDC OPTICS
*	A 254B	SHLD A254	56TB3-M15	0 VDC OPTICS
*	A 255B	SHLD A255	56TB3-H15	0 VDC OPTICS
*	A 256B	SHLD A256	56TB3-G 9	0 VDC OPTICS
*	A 257B	SHLD A257	56TB3-S15	0 VDC OPTICS
*	A 258B	SHLD A258	56TB3-R 9	0 VDC OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 4

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA415	56TB3-H19	56J20-B4	IMU PRESSURE MONITOR LO
*	A 328	56TB3-H20	56P09- 65	+28 VDC OPTICS
*	AA406	56TB3-H20	56J20-N6	+28 VDC OPTICS
*	A 528	56TB3-H21	56P11-H	+28 VDC OPTICS BUSS A
*	AA446	56TB3-H21	56J20-P5	+28 VDC OPTICS BUSS A
*	AA449	56TB3-H21	56J20-S5	+28 VDC OPTICS BUSS A
*	A 539	56TB3-H22	56P12-H	+28 VDC OPTICS BUSS B
*	AA450	56TB3-H22	56J20-P6	+28 VDC OPTICS BUSS B
*	AA453	56TB3-H22	56J20-S6	+28 VDC OPTICS BUSS B
*	A 438	56TB3-K 1	56J09- 92	IMU TEMP ALARM AMP PIN 5
*	AA260	56TB3-K 1	56J17-H2	IMU TEMP ALARM AMP PIN 5
*	A 446	56TB3-K 2	56J09-105	IMU TEMP ALARM BIAS RESISTOR
*	AA259	56TB3-K 2	56J17-H1	IMU TEMP ALARM BIAS RESISTOR
*	A 286	56TB3-K 3	56P06-A*	IRIG TEMP IND SENSOR RET
*	AA266	56TB3-K 3	56J17-C5	IRIG TEMP IND SENSOR RET
*	A 391	56TB3-K 4	56J09- 21	TRUNNION ENCODER PIN 9
*	AA286	56TB3-K 4	56J17-B9	TRUNNION ENCODER PIN 9
*	A 444	56TB3-K 5	56J09- 75	IMU TEMP ALARM AMP PIN 14
*	AA261	56TB3-K 5	56J17-G1	IMU TEMP ALARM AMP PIN 14
*	A 210R	56TB3-K 6	56J08- 35	400 CPS 0.5 V ZERO PHASE
*	A 459R	56TB3-K 6	56P10- 38	400 CPS 0.5 V ZERO PHASE
*	A 110W	56TB3-K 7	56J04- 20	SHAFT CDU 1X COS OUTPUT HI
*	AA338R	56TB3-K 7	56J18-D4	SHAFT CDU 1X COS OUTPUT HI
*	A 110R	56TB3-K 8	56J04- 6	SHAFT CDU 1X COS OUTPUT LO
*	AA338W	56TB3-K 8	56J18-D5	SHAFT CDU 1X COS OUTPUT LO
	A 107B	56TB3-K 9	SHLD A107	0 VDC OPTICS
	A 110B	56TB3-K 9	SHLD A110	0 VDC OPTICS
	A 262B	56TB3-K 9	SHLD A262	0 VDC OPTICS
	A 312B	56TB3-K 9	SHLD A312	0 VDC OPTICS
	AA543	56TB3-K 9	56TB3-L 9	0 VDC OPTICS
*	AA542	56TB3-K 9	56TB3-H 9	0 VDC OPTICS
*	A 107W	56TB3-K10	56J04- 67	SHAFT CDU 1/2X SIN HI S1
*	A 262R	56TB3-K10	56P05-Y*	SHAFT CDU 1/2X SIN HI P1
*	A 312W	56TB3-K10	56P08-J*	SHAFT CDU 1/2X SIN HI S1
*	AA332W	56TB3-K10	56J18-G1	SHAFT CDU 1/2X SIN HI S1
*	A 107R	56TB3-K11	56J04- 57	SHAFT CDU 1/2X SIN LO S3
*	A 262W	56TB3-K11	56P05-Z*	SHAFT CDU 1/2X SIN LO P3
*	A 312R	56TB3-K11	56P08-K*	SHAFT CDU 1/2X SIN LO P1
*	AA332R	56TB3-K11	56J18-H1	SHAFT CDU 1/2X SIN LO S3
*	A 148W	56TB3-K12	56J05- 66	TRUNNION CDU 1/2X RSVR LOAD LO

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 42

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA318R	56TB3-K12	56J18-F4	TRUNNION CDU 1/2X RSVR LOAD LO
*	A 282W	56TB3-K13	56P06-C*	PRESSURE SENSOR +28 VDC LO
*	AA464W	56TB3-K13	56J20-B6	PRESSURE SENSOR +28 VDC LO
*	A 456W	56TB3-K14	56P10- 68	400 CPS 115 V LO
*	A 532W	56TB3-K14	56P11-K	400 CPS 115 V LO
*	AA465W	56TB3-K14	56J20-G3	400 CPS 115 V LO
	AA552	56TB3-K15	56TB3-L15	0 VDC OPTICS
*	AA551	56TB3-K15	56TB3-H15	0 VDC OPTICS
*	A 304W	56TB3-K16	56P08-S	SCT TRUNNION 1X RSVR ERROR HI
*	AA377W	56TB3-K16	56J19-B7	SCT TRUNNION 1X RSVR ERROR HI
*	A 304R	56TB3-K17	56P08-T	SCT TRUNNION 1X RSVR ERROR LO
*	AA377R	56TB3-K17	56J19-B8	SCT TRUNNION 1X RSVR ERROR LO
*	A 405	56TB3-K18	56J09- 58	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	AA388	56TB3-K18	56J19-M5	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
*	A 283R	56TB3-K19	56P06-D*	IMU PRESSURE MONITOR HI
*	A 379R	56TB3-K19	56P09- 42	IMU PRESSURE MONITOR HI
*	AA414	56TB3-K19	56J20-A4	IMU PRESSURE MONITOR HI
	AA567	56TB3-K20	56TB3-C15	0 VDC OPTICS
*	AA325	56TB3-K20	56J18-S3	0 VDC OPTICS
*	AA327	56TB3-K20	56J18-T3	0 VDC OPTICS
*	AA333	56TB3-K20	56J18-R3	0 VDC OPTICS
	AA566	56TB3-K21	56TB3-C15	0 VDC OPTICS
*	A 249	56TB3-K21	56P05-S	0 VDC OPTICS
*	A 250	56TB3-K21	56P05-T	0 VDC OPTICS
*	A 303	56TB3-K21	56P08-R	0 VDC OPTICS
*	A 315	56TB3-K21	56P08-B*	0 VDC OPTICS
*	AA390	56TB3-K21	56J19-R4	0 VDC OPTICS
*	AA393	56TB3-K21	56J19-P5	0 VDC OPTICS
	AA565	56TB3-K22	56TB3-C15	0 VDC OPTICS
*	AA364	56TB3-K22	56J19-S4	0 VDC OPTICS
*	AA369	56TB3-K22	56J19-S5	0 VDC OPTICS
*	AA408	56TB3-K22	56J20-N3	0 VDC OPTICS
*	A 2	56TB3-L 1	56P01- 65	IRIG TEMP GAIN SWITCH NC
*	A 398	56TB3-L 1	56J09- 86	IRIG TEMP GAIN SWITCH NC
*	AA290	56TB3-L 1	56J17-C8	IRIG TEMP GAIN SWITCH NC
*	A 32	56TB3-L 2	56P01- 55	IMU TD RELAY NO
*	AA249	56TB3-L 2	56J17-F8	IMU TD RELAY NO
*	A 275W	56TB3-L 3	56P06-L	IRIG TEMP CONT SENSOR RET
*	AA268	56TB3-L 3	56J17-B5	IRIG TEMP CONT SENSOR RET
*	A 275R	56TB3-L 4	56P06-M	IRIG TEMP CONT SENSOR HI

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 43

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 112B	56TB3-H 9	SHLD A112	0 VDC OPTICS
	A 135B	56TB3-H 9	SHLD A135	0 VDC OPTICS
	AA329B	56TB3-H 9	SHLD AA329	0 VDC OPTICS
	AA331B	56TB3-H 9	SHLD AA331	0 VDC OPTICS
	AA542	56TB3-H 9	56TB3-K 9	0 VDC OPTICS
*	AA541	56TB3-H 9	56TB3-G 9	0 VDC OPTICS
*	A 112R	56TB3-H10	56J04-104	SHAFT CDU 16X ERROR SIG HI
*	AA331W	56TB3-H10	56J18-C9	SHAFT CDU 16X ERROR SIG HI
*	A 112W	56TB3-H11	56J04- 90	SHAFT CDU 16X ERROR SIG LO
*	AA331R	56TB3-H11	56J18-D9	SHAFT CDU 16X ERROR SIG LO
	A 65B	56TB3-H12	SHLD A 65	0 VDC IMU
	A 222B	56TB3-H12	SHLD A222	0 VDC IMU
	A 357B	56TB3-H12	SHLD A357	0 VDC IMU
	AA466	56TB3-H12	56TB3-R 3	0 VDC IMU
	AA507B	56TB3-H12	SHLD AA507	0 VDC IMU
	AA513	56TB3-H12	56TB3-H13	0 VDC IMU
	A 41B	56TB3-H13	SHLD A 41	0 VDC IMU
	A 228B	56TB3-H13	SHLD A228	0 VDC IMU
	A 355B	56TB3-H13	SHLD A355	0 VDC IMU
	AA509B	56TB3-H13	SHLD AA509	0 VDC IMU
	AA554	56TB3-H13	56TB3-H14	0 VDC IMU
*	AA513	56TB3-H13	56TB3-H12	0 VDC IMU
	A 40B	56TB3-H14	SHLD A 40	0 VDC IMU
	A 227B	56TB3-H14	SHLD A227	0 VDC IMU
	A 356B	56TB3-H14	SHLD A356	0 VDC IMU
	AA508B	56TB3-H14	SHLD AA508	0 VDC IMU
	AA510B	56TB3-H14	SHLD AA510	0 VDC IMU
*	AA554	56TB3-H14	56TB3-H13	0 VDC IMU
	A 131B	56TB3-H15	SHLD A131	0 VDC OPTICS
	A 255B	56TB3-H15	SHLD A255	0 VDC OPTICS
	A 263B	56TB3-H15	SHLD A263	0 VDC OPTICS
	A 304B	56TB3-H15	SHLD A304	0 VDC OPTICS
	AA551	56TB3-H15	56TB3-K15	0 VDC OPTICS
*	AA550	56TB3-H15	56TB3-G15	0 VDC OPTICS
*	A 263R	56TB3-H16	56P05-HH	SXT SHAFT 1/2X RSVR ERROR HI
*	AA375W	56TB3-H16	56J19-A5	SXT SHAFT 1/2X RSVR ERROR HI
*	A 263W	56TB3-H17	56P05-BB	SXT SHAFT 1/2X RSVR ERROR LO
*	AA375R	56TB3-H17	56J19-B5	SXT SHAFT 1/2X RSVR ERROR LO
*	A 283W	56TB3-H19	56P06-E*	IMU PRESSURE MONITOR LO
*	A 379W	56TB3-H19	56P09- 53	IMU PRESSURE MONITOR LO

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 41

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA267	56TB3-L 4	56J17-B6	IRIG TEMP CONT SENSOR HI
*	A 400	56TB3-L 5	56J09- 76	IMU TEMP CONT K2 PIN 6
*	AA263	56TB3-L 5	56J17-L1	IMU TEMP CONT K2 PIN 6
*	A 210W	56TB3-L 6	56J08- 45	400 CPS 0.5 V PI PHASE
*	A 459W	56TB3-L 6	56P10- 39	400 CPS 0.5 V PI PHASE
*	A 121R	56TB3-L 7	56J04-106	SHAFT CDU TACH HI
*	AA316W	56TB3-L 7	56J18-A8	SHAFT CDU TACH HI
*	A 121W	56TB3-L 8	56J04- 92	SHAFT CDU TACH LO
*	AA316R	56TB3-L 8	56J18-A7	SHAFT CDU TACH LO
	A 121B	56TB3-L 9	SHLD A121	0 VDC OPTICS
	A 132B	56TB3-L 9	SHLD A132	0 VDC OPTICS
	AA316B	56TB3-L 9	SHLD AA316	0 VDC OPTICS
	AA544	56TB3-L 9	56TB3-M 9	0 VDC OPTICS
*	AA543	56TB3-L 9	56TB3-K 9	0 VDC OPTICS
*	A 132R	56TB3-L10	56J05- 12	TRUNNION CDU 1/2X RSVR P2
*	AA317W	56TB3-L10	56J18-A6	TRUNNION CDU 1/2X RSVR P2
*	A 132W	56TB3-L11	56E 18	TRUNNION CDU 1/2X RSVR P3
*	AA317R	56TB3-L11	56J18-B6	TRUNNION CDU 1/2X RSVR P3
*	A 148R	56TB3-L12	56J05- 56	TRUNNION CDU 1/2X RSVR LOAD HI
*	AA318W	56TB3-L12	56J18-F3	TRUNNION CDU 1/2X RSVR LOAD HI
*	A 282R	56TB3-L13	56P06-B*	PRESSURE SENSOR +28 VDC HI
*	AA464R	56TB3-L13	56J20-A6	PRESSURE SENSOR +28 VDC HI
*	A 456R	56TB3-L14	56P10- 69	400 CPS 115 V HI
*	A 532R	56TB3-L14	56P11-N	400 CPS 115 V HI
*	AA465R	56TB3-L14	56J20-H3	400 CPS 115 V HI
	AA533	56TB3-L15	56TB3-M15	0 VDC OPTICS
*	A 436	56TB3-L15	56J09- 83	0 VDC OPTICS
*	AA552	56TB3-L15	56TB3-K15	0 VDC OPTICS
*	A 310R	56TB3-L16	56P08-G*	SCT SHAFT 1/2X RSVR ERROR LO
*	AA379R	56TB3-L16	56J19-C8	SCT SHAFT 1/2X RSVR ERROR LO
*	A 310W	56TB3-L17	56P08-I*	SCT SHAFT 1/2X RSVR ERROR HI
*	AA379W	56TB3-L17	56J19-D8	SCT SHAFT 1/2X RSVR ERROR HI
*	A 428	56TB3-L18	56J09- 99	COSECANT RELAY CONTROL
*	AA389	56TB3-L18	56J19-N5	COSECANT RELAY CONTROL
	AA521	56TB3-L19	56J21- 62	+13 VDC AGC
*	A 380	56TB3-L19	56P09- 62	+13 VDC AGC
*	AA425	56TB3-L19	56J20-C6	+13 VDC AGC
*	AA 66	56TB3-L20	56J12-R6	0 VDC OPTICS
*	AA228	56TB3-L20	56J16-R5	0 VDC OPTICS
*	AA229	56TB3-L20	56J16-R6	0 VDC OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 44

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 440A	SHLD A440	56E 44	AGC SIG 178 SHLD RET	
*	A 449B	SHLD A449	56E 44	AGC SIG 178 SHLD RET	
	A 518A	SHLD A518	56J21-187	GROUP 3 SHIELD	250
*	A 518B	SHLD A518	56J10- 27	GROUP 3 SHIELD	250
	A 547A	SHLD A547	56J10- 1	GROUP 2 SHIELD	245
*	A 547B	SHLD A547	56J21-107	GROUP 2 SHIELD	245
	AA 8A	SHLD AA 8	56E 32		
	AA 70A	SHLD AA 70	56J12-H1	COMPUTER 102.4 KPPS SYNC RET	
	AA 92A	SHLD AA 92	56E 32		
*	AA 92B	SHLD AA 92	56E 27	0 VDC IMU	
*	AA119B	SHLD AA119	56TB1-N 5	0 VDC IMU	
*	AA122B	SHLD AA122	56TB1-N 4	0 VDC IMU	
*	AA124B	SHLD AA124	56TB1-N 8	0 VDC IMU	
*	AA127B	SHLD AA127	56TB1-S 3	0 VDC IMU	
*	AA133B	SHLD AA133	56TB1-S 6	0 VDC IMU	
*	AA136B	SHLD AA136	56TB1-S 8	0 VDC IMU	
*	AA176B	SHLD AA176	56TB2-D 3	AGC SIG 178 SHLD RET	
	AA197A	SHLD AA197	56J16-B1	IG CDU MDA INPUT RET	
	AA202A	SHLD AA202	56J16-B3	MG CDU MDA INPUT RET	
	AA214A	SHLD AA214	56J16-B5	OG CDU MDA INPUT RET	
	AA226A	SHLD AA226	56E 30		
	AA227A	SHLD AA227	56E 30		
	AA232A	SHLD AA232	56E 31	0 VDC IMU	
*	AA232B	SHLD AA232	56E 30		
*	AA242B	SHLD AA242	56E 53	SHAFT CDU DAC LO	
*	AA243B	SHLD AA243	56E 51	TRUNNION CDU DAC LO	
*	AA244B	SHLD AA244	56J22- 41		
*	AA245B	SHLD AA245	56J22- 5		
*	AA246B	SHLD AA246	56J22- 8		
*	AA265B	SHLD AA265	56TB3-N 3	0 VDC IMU	
*	AA270B	SHLD AA270	56TB3-N 3	0 VDC IMU	
*	AA287B	SHLD AA287	56J22- 2		
*	AA288B	SHLD AA288	56J22- 11		
*	AA300B	SHLD AA300	56E 54		
	AA301A	SHLD AA301	56E 49		
*	AA307B	SHLD AA307	56TB3-T 9	0 VDC OPTICS	
*	AA308B	SHLD AA308	56TB3-S 9	0 VDC OPTICS	
*	AA309B	SHLD AA309	56TB3-T 9	0 VDC OPTICS	
*	AA310B	SHLD AA310	56TB3-S 9	0 VDC OPTICS	
*	AA315B	SHLD AA315	56TB3-M 9	0 VDC OPTICS	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 6

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA316B	SHLD AA316	56TB3-L 9	0 VDC OPTICS
	AA329A	SHLD AA329	56E 54	
*	AA329B	SHLD AA329	56TB3-H 9	0 VDC OPTICS
	AA331A	SHLD AA331	56E 49	
*	AA331B	SHLD AA331	56TB3-H 9	0 VDC OPTICS
*	AA467B	SHLD AA467	56E 46	AGC SIG 180 SHLD RET
*	AA468B	SHLD AA468	56E 46	AGC SIG 180 SHLD RET
*	AA469B	SHLD AA469	56E 46	AGC SIG 180 SHLD RET
*	AA470B	SHLD AA470	56E 46	AGC SIG 180 SHLD RET
*	AA471B	SHLD AA471	56E 46	AGC SIG 180 SHLD RET
*	AA472B	SHLD AA472	56E 46	AGC SIG 180 SHLD RET
*	AA475B	SHLD AA475	56E 47	AGC SIG 179 SHLD RET
*	AA476B	SHLD AA476	56E 47	AGC SIG 179 SHLD RET
*	AA477B	SHLD AA477	56E 47	AGC SIG 179 SHLD RET
*	AA478B	SHLD AA478	56E 47	AGC SIG 179 SHLD RET
*	AA479B	SHLD AA479	56E 47	AGC SIG 179 SHLD RET
*	AA480B	SHLD AA480	56E 47	AGC SIG 179 SHLD RET
*	AA481B	SHLD AA481	56E 39	IG DAC MDA SIG LO
*	AA482B	SHLD AA482	56E 39	IG DAC MDA SIG LO
*	AA483B	SHLD AA483	56E 41	MG DAC MDA SIG LO
*	AA484B	SHLD AA484	56E 41	MG DAC MDA SIG LO
*	AA485B	SHLD AA485	56E 43	OG DAC MDA SIG LO
*	AA486B	SHLD AA486	56E 43	OG DAC MDA SIG LO
*	AA487B	SHLD AA487	56TB2-D 3	AGC SIG 178 SHLD RET
*	AA488B	SHLD AA488	56E 57	AGC SIG 178 SHLD RET
	AA489A	SHLD AA489	56E 57	AGC SIG 178 SHLD RET
*	AA490B	SHLD AA490	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA491B	SHLD AA491	56E 29	COMPUTER 25.6 KPPS SYNC RET
*	AA492B	SHLD AA492	56E 52	SHAFT CDU DAC LO
*	AA493B	SHLD AA493	56E 52	SHAFT CDU DAC LO
*	AA494B	SHLD AA494	56E 45	AGC SIG 180 SHLD RET
*	AA495B	SHLD AA495	56E 45	AGC SIG 180 SHLD RET
*	AA496B	SHLD AA496	56E 50	TRUNNION CDU DAC LO
*	AA497B	SHLD AA497	56E 50	TRUNNION CDU DAC LO
*	AA498B	SHLD AA498	56E 45	AGC SIG 180 SHLD RET
*	AA499B	SHLD AA499	56E 45	AGC SIG 180 SHLD RET
*	AA500B	SHLD AA500	56E 27	0 VDC IMU
*	AA503B	SHLD AA503	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA504B	SHLD AA504	56E 28	COMPUTER 3200 PPS SYNC RET
*	AA505B	SHLD AA505	56TB2-V 8	0 VDC IMU

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 7

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 260B	SHLD A260	56TB3-S15	0 VDC OPTICS
*	A 261B	SHLD A261	56TB3-R15	0 VDC OPTICS
*	A 262B	SHLD A262	56TB3-K 9	0 VDC OPTICS
*	A 263B	SHLD A263	56TB3-H15	0 VDC OPTICS
*	A 278B	SHLD A278	56TB3-N 3	0 VDC IMU
*	A 279B	SHLD A279	56TB3-N 3	0 VDC IMU
*	A 289B	SHLD A289	56TB1-S 8	0 VDC IMU
*	A 290B	SHLD A290	56TB1-N 8	0 VDC IMU
*	A 291B	SHLD A291	56TB1-S 6	0 VDC IMU
*	A 292B	SHLD A292	56TB1-S 3	0 VDC IMU
*	A 293B	SHLD A293	56TB1-N 4	0 VDC IMU
*	A 294B	SHLD A294	56TB1-N 5	0 VDC IMU
*	A 302B	SHLD A302	56TB3-S15	0 VDC OPTICS
*	A 304B	SHLD A304	56TB3-H15	0 VDC OPTICS
*	A 306B	SHLD A306	56TB3-T15	0 VDC OPTICS
*	A 307B	SHLD A307	56TB3-T15	0 VDC OPTICS
*	A 309B	SHLD A309	56TB3-M15	0 VDC OPTICS
*	A 310B	SHLD A310	56TB3-M15	0 VDC OPTICS
*	A 312B	SHLD A312	56TB3-K 9	0 VDC OPTICS
*	A 313B	SHLD A313	56TB3-R15	0 VDC OPTICS
*	A 338B	SHLD A338	56TB2-R 3	OG CDU ERROR SIG RET
*	A 355B	SHLD A355	56TB3-H13	0 VDC IMU
*	A 356B	SHLD A356	56TB3-H14	0 VDC IMU
*	A 357B	SHLD A357	56TB3-H12	0 VDC IMU
*	A 358B	SHLD A358	56E 48	0 VDC IMU
*	A 359B	SHLD A359	56TB2-V 8	0 VDC IMU
*	A 360B	SHLD A360	56TB2-M 8	0 VDC IMU
*	A 364B	SHLD A364	56TB2-F 2	IG CDU ERROR SIG RET
*	A 365B	SHLD A365	56TB2-F 7	MG CDU ERROR SIG RET
*	A 366B	SHLD A366	56TB2-S 2	OG CDU ERROR SIG RET
*	A 407B	SHLD A407	56E 44	AGC SIG 178 SHLD RET
*	A 418B	SHLD A418	56TB2-M 4	0 VDC IMU
*	A 421B	SHLD A421	56TB3-F 7	TRUNNION CDU DAC LO
*	A 422B	SHLD A422	56TB3-F 8	SHAFT CDU DAC LO
*	A 425B	SHLD A425	56TB3-M 9	0 VDC OPTICS
*	A 426B	SHLD A426	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
*	A 427B	SHLD A427	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO
*	A 433B	SHLD A433	56E 44	AGC SIG 178 SHLD RET
*	A 434B	SHLD A434	56E 44	AGC SIG 178 SHLD RET
*	A 437B	SHLD A437	56E 44	AGC SIG 178 SHLD RET

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 5

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA506B	SHLD AA506	56TB2-M 8	0 VDC IMU
*	AA507B	SHLD AA507	56TB3-H12	0 VDC IMU
*	AA508B	SHLD AA508	56TB3-H14	0 VDC IMU
*	AA509B	SHLD AA509	56TB3-H13	0 VDC IMU
*	AA510B	SHLD AA510	56TB3-H14	0 VDC IMU
	AA569A	SHLD AA569	56TB2-D 3	AGC SIG 178 SHLD RET
	AA571A	SHLD AA571	56TB2-R 3	OG CDU ERROR SIG RET

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 8

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA516	56TB3-L20	56TB3-D15	0 VDC OPTICS
	AA563	56TB3-L21	56TB3-D15	0 VDC OPTICS
*	A 329	56TB3-L21	56P09- 66	0 VDC OPTICS
*	AA282	56TB3-L21	56J17-R6	0 VDC OPTICS
*	AA407	56TB3-L21	56J20-N4	0 VDC OPTICS
	AA564	56TB3-L22	56TB3-D15	0 VDC OPTICS
*	AA365	56TB3-L22	56J19-T4	0 VDC OPTICS
*	AA367	56TB3-L22	56J19-T6	0 VDC OPTICS
*	A 285	56TB3-M 1	56P06-P	ACCEL TEMP IND SENSOR RET
*	AA269	56TB3-M 1	56J17-D5	ACCEL TEMP IND SENSOR RET
*	A 31	56TB3-M 2	56P01- 45	IMU TD RELAY C
*	AA251	56TB3-M 2	56J17-D8	IMU TD RELAY C
*	A 392	56TB3-M 3	56J09- 2	TRUNNION ENCODER PIN 8
*	AA285	56TB3-M 3	56J17-A9	TRUNNION ENCODER PIN 8
*	A 397	56TB3-M 4	56J09-104	ACCEL ZERO DEVIATION CHECK
*	AA256	56TB3-M 4	56J17-D7	ACCEL ZERO DEVIATION CHECK
*	A 441	56TB3-M 5	56J09-103	IMU IMU TEMP CONT +5 DEG GAIN CHECK
*	AA255	56TB3-M 5	56J17-D6	IMU IMU TEMP CONT +5 DEG GAIN CHECK
*	A 144W	56TB3-M 7	56J05- 92	TRUNION CDU TACH LO
*	AA315R	56TB3-M 7	56J18-B9	TRUNION CDU TACH LO
*	A 144R	56TB3-M 8	56J05-106	TRUNION CDU TACH HI
*	AA315W	56TB3-M 8	56J18-A9	TRUNION CDU TACH HI
	A 144B	56TB3-M 9	SHLD A144	0 VDC OPTICS
	A 425B	56TB3-M 9	SHLD A425	0 VDC OPTICS
	AA315B	56TB3-M 9	SHLD AA315	0 VDC OPTICS
	AA545	56TB3-M 9	56TB3-N 9	0 VDC OPTICS
*	AA544	56TB3-M 9	56TB3-L 9	0 VDC OPTICS
*	A 425R	56TB3-M10	56J09- 10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
*	AA326W	56TB3-M10	56J18-D8	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
*	A 425W	56TB3-M11	56J09- 23	RSVR DRIVE AMP INPUT LO
*	AA326L	56TB3-M11	56J18-F9	RSVR DRIVE AMP INPUT LO
*	A 425L	56TB3-M12	56J09- 24	RSVR DRIVE AMP SHAFT SIG (RSVD) HI
*	AA326R	56TB3-M12	56J18-F8	RSVR DRIVE AMP SHAFT SIG (RSVD) HI
	A 254B	56TB3-M15	SHLD A254	0 VDC OPTICS
	A 309B	56TB3-M15	SHLD A309	0 VDC OPTICS
	A 310B	56TB3-M15	SHLD A310	0 VDC OPTICS
	AA534	56TB3-M15	56TB3-N15	0 VDC OPTICS
*	AA533	56TB3-M15	56TB3-L15	0 VDC OPTICS
*	A 254R	56TB3-M16	56P05-C*	SXT TRUNNION 1X RSVR ERROR HI
*	AA374W	56TB3-M16	56J19-D1	SXT TRUNNION 1X RSVR ERROR HI

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR
SHEET 45

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 254W	56TB3-M17	56P05-D*	SXT TRUNNION 1X RSVR ERROR LO	
*	AA374R	56TB3-M17	56J19-D2	SXT TRUNNION 1X RSVR ERROR LO	
*	A 113	56TB3-M18	56J04- 89	SHAFT CDU 16X LOAD	
*	AA385	56TB3-M18	56J19-C4	SHAFT CDU 16X LOAD	
	AA525	56TB3-M19	56J21- 96	+3 VDC AGC	175
*	A 381	56TB3-M19	56P09- 54	+3 VDC AGC	
*	AA426	56TB3-M19	56J20-D6	+3 VDC AGC	
	AA515	56TB3-M20	56TB3-C18	+28 VDC OPTICS	
	AA558	56TB3-M20	56TB3-C19	+28 VDC OPTICS	
*	A 122R	56TB3-M20	56J04- 43	+28 VDC OPTICS	
*	A 145R	56TB3-M20	56J05- 43	+28 VDC OPTICS	
*	A 445	56TB3-M20	56J09- 71	+28 VDC OPTICS	
*	AA457	56TB3-M20	56J20-M6	+28 VDC OPTICS	
*	A 29	56TB3-M21	56P01- 89	+28 VDC MDV	
*	AA280	56TB3-M21	56J17-R5	+28 VDC MDV	
*	AA405	56TB3-M21	56J20-M5	+28 VDC MDV	
*	A 435	56TB3-M22	56J09- 51	+28 VDC MDV	
*	A 507	56TB3-M22	56J10- 8	+28 VDC MDV	306
*	AA 82	56TB3-M22	56J12-L1	+28 VDC MDV	
*	AA404	56TB3-M22	56J20-L5	+28 VDC MDV	
*	A 279R	56TB3-N 1	56P06-X	IMU EMERGENCY HTR HI	
*	AA265W	56TB3-N 1	56J17-M4	IMU EMERGENCY HTR HI	
*	A 279W	56TB3-N 2	56P06-R	EMERGENCY HTR LO-OPER AND STBY	
*	AA265R	56TB3-N 2	56J17-N4	EMERGENCY HTR LO-OPER AND STBY	
	A 278B	56TB3-N 3	SHLD A278	0 VDC IMU	
	A 279B	56TB3-N 3	SHLD A279	0 VDC IMU	
	AA265B	56TB3-N 3	SHLD AA265	0 VDC IMU	
	AA270B	56TB3-N 3	SHLD AA270	0 VDC IMU	
*	AA295	56TB3-N 3	56J17-S3	0 VDC IMU	
*	AA296	56TB3-N 3	56J17-S1	0 VDC IMU	
*	AA595	56TB3-N 3	56TB3-R 3	0 VDC IMU	
*	A 278W	56TB3-N 4	56P06-W	IMU CONTROL HTR LO	
*	AA270W	56TB3-N 4	56J17-N1	IMU CONTROL HTR LO	
*	A 278R	56TB3-N 5	56P06-V	IMU CONTROL HTR HI	
*	AA270R	56TB3-N 5	56J17-P1	IMU CONTROL HTR HI	
*	A 277	56TB3-N 6	56P06-Y	EMERG HTR CONT MODULE LO	
*	A 402	56TB3-N 6	56J09- 90	EMERG HTR CONT MODULE LO	
*	A 114R	56TB3-N 7	56J04-100	SHAFT CDU 16X RSVR COS LO P3	
*	AA313R	56TB3-N 7	56J18-A5	SHAFT CDU 16X RSVR COS LO P3	
*	A 114W	56TB3-N 8	56J04- 86	SHAFT CDU 16X RSVR COS HI P1	

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR
SHEET 46

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA313W	56TB3-N 8	56J18-A4	SHAFT CDU 16X RSVR COS HI P1	
	A 114B	56TB3-N 9	SHLD A114	0 VDC OPTICS	
	A 115B	56TB3-N 9	SHLD A115	0 VDC OPTICS	
	AA546	56TB3-N 9	56TB3-R 9	0 VDC OPTICS	
*	AA545	56TB3-N 9	56TB3-M 9	0 VDC OPTICS	
*	A 115W	56TB3-N10	56J04- 87	SHAFT CDU 16X RSVR SIN HI P2	
*	AA314W	56TB3-N10	56J18-B5	SHAFT CDU 16X RSVR SIN HI P2	
*	A 115R	56TB3-N11	56J04-101	SHAFT CDU 16X RSVR SIN LO P4	
*	AA314R	56TB3-N11	56J18-C5	SHAFT CDU 16X RSVR SIN LO P4	
*	A 108R	56TB3-N13	56J04- 66	SHAFT CDU 1/2X COS LO S4	
*	A 261R	56TB3-N13	56P05-W*	SHAFT CDU 1/2X COS LO P4	
*	A 313W	56TB3-N13	56P08-M*	SHAFT CDU 1/2X COS LO P2	
*	AA396R	56TB3-N13	56J19-D6	SHAFT CDU 1/2X COS LO S4	
*	A 108W	56TB3-N14	56J04- 56	SHAFT CDU 1/2X COS HI S2	
*	A 261W	56TB3-N14	56P05-X*	SHAFT CDU 1/2X COS HI P2	
*	A 313R	56TB3-N14	56P08-N*	SHAFT CDU 1/2X COS HI P4	
*	AA396W	56TB3-N14	56J19-D5	SHAFT CDU 1/2X COS HI S2	
	AA535	56TB3-N15	56TB3-R15	0 VDC OPTICS	
*	A 429	56TB3-N15	56J09- 1	0 VDC OPTICS	
*	AA534	56TB3-N15	56TB3-M15	0 VDC OPTICS	
*	A 309R	56TB3-N16	56P08-E*	SCT SHAFT TACH HI	
*	AA373W	56TB3-N16	56J19-B9	SCT SHAFT TACH HI	
*	A 309W	56TB3-N17	56P08-F*	SCT SHAFT TACH LO	
*	AA373R	56TB3-N17	56J19-C9	SCT SHAFT TACH LO	
*	A 136	56TB3-N18	56J05- 89	TRUNNION CDU 16X LOAD	
*	AA384	56TB3-N18	56J19-C3	TRUNNION CDU 16X LOAD	
	AA522	56TB3-N19	56J21- 63	0 VDC AGC	177
*	A 331	56TB3-N19	56P09- 18	0 VDC AGC	
*	A 382	56TB3-N19	56P09- 63	0 VDC AGC	
*	AA424	56TB3-N19	56J20-K4	0 VDC AGC	
*	A 64R	56TB3-N20	56J02- 20	COS AMG 1X S3	
*	A 221R	56TB3-N20	56P02-L	COS AMG 1X S3	
*	A 358R	56TB3-N20	56P09- 28	COS AMG 1X S3	
*	AA419W	56TB3-N20	56J20-A3	COS AMG 1X S3	
*	AA508W	56TB3-N20	56J22-113	COS AMG 1X S3	
*	A 64W	56TB3-N21	56J02- 6	COS AMG 1X S1	
*	A 221W	56TB3-N21	56P02-M	COS AMG 1X S1	
*	A 358W	56TB3-N21	56P09- 40	COS AMG 1X S1	
*	AA419R	56TB3-N21	56J20-B3	COS AMG 1X S1	
*	AA508R	56TB3-N21	56J22-114	COS AMG 1X S1	

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR
SHEET 47

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 326	56TB3-N22	56P09- 20	+28 VDC STBY
*	AA445	56TB3-N22	56J20-P3	+28 VDC STBY
*	A 237W	56TB3-R 1	56P03-P	PITCH ERROR BODY AND BODY OFFSET AXIS LO
*	AA289W	56TB3-R 1	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
*	A 237R	56TB3-R 2	56P03-R	PITCH-YAW RSVR S4
*	AA289R	56TB3-R 2	56J17-C2	PITCH-YAW RSVR S4
	A 236B	56TB3-R 3	SHLD A236	0 VDC IMU
	A 237B	56TB3-R 3	SHLD A237	0 VDC IMU
	AA595	56TB3-R 3	56TB3-N 3	0 VDC IMU
*	AA297	56TB3-R 3	56J17-S4	0 VDC IMU
*	AA466	56TB3-R 3	56TB3-H12	0 VDC IMU
*	AA593	56TB3-R 3	56TB3-S 2	0 VDC IMU
*	A 236R	56TB3-R 4	56P03-N	PITCH YAW RSVR S3
*	AA247R	56TB3-R 4	56J17-D2	PITCH YAW RSVR S3
*	A 236W	56TB3-R 5	56P03-M	YAW ERROR BODY OFFSET AXIS LO
*	AA247W	56TB3-R 5	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	A 276	56TB3-R 6	56P06-N	ACCEL INDICATING SENSOR HI
*	A 395	56TB3-R 6	56J09- 97	ACCEL INDICATING SENSOR HI
*	A 248W	56TB3-R 7	56P05-P*	SXT AS 16X RSVR SIN LO
*	AA311R	56TB3-R 7	56J18-D3	SXT AS 16X RSVR SIN LO
*	A 248R	56TB3-R 8	56P05-N*	SXT AS 16X RSVR SIN HI
*	AA311W	56TB3-R 8	56J18-D2	SXT AS 16X RSVR SIN HI
	A 248B	56TB3-R 9	SHLD A248	0 VDC OPTICS
	A 258B	56TB3-R 9	SHLD A258	0 VDC OPTICS
	AA547	56TB3-R 9	56TB3-S 9	0 VDC OPTICS
*	AA546	56TB3-R 9	56TB3-N 9	0 VDC OPTICS
*	A 258R	56TB3-R10	56P05-Q*	SXT AS 16X RSVR COS LO
*	AA312W	56TB3-R10	56J18-D1	SXT AS 16X RSVR COS LO
*	A 258W	56TB3-R11	56P05-R*	SXT AS 16X RSVR COS HI
*	AA312R	56TB3-R11	56J18-C1	SXT AS 16X RSVR COS HI
*	A 109R	56TB3-R12	56J04- 45	SHAFT CDU 1X P3 (S3)
*	AA328L	56TB3-R12	56J18-L6	SHAFT CDU 1X P3 (S3)
*	A 134W	56TB3-R13	56J05- 67	TRUNNION CDU 1/2X RSVR S3
*	AA386W	56TB3-R13	56J19-F9	TRUNNION CDU 1/2X RSVR S3
*	A 134R	56TB3-R14	56J05- 68	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
*	AA386R	56TB3-R14	56J19-F8	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	A 108B	56TB3-R15	SHLD A108	0 VDC OPTICS
	A 134B	56TB3-R15	SHLD A134	0 VDC OPTICS
	A 261B	56TB3-R15	SHLD A261	0 VDC OPTICS
	A 313B	56TB3-R15	SHLD A313	0 VDC OPTICS

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR
SHEET 48

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 98R	56E 9	56J03- 28	400 CPS VAR ILLUM PWR
*	A 123R	56E 9	56J04- 28	400 CPS VAR ILLUM PWR
*	A 146R	56E 9	56J05- 28	400 CPS VAR ILLUM PWR
	A 561W	56E 10	56TB1-S 2	400 CPS 6 V LO
*	A 53W	56E 10	56J01- 29	400 CPS 6 V LO
*	A 77W	56E 10	56J02- 29	400 CPS 6 V LO
*	A 98W	56E 10	56J03- 29	400 CPS 6 V LO
*	A 123W	56E 10	56J04- 29	400 CPS 6 V LO
*	A 146W	56E 10	56J05- 29	400 CPS 6 V LO
*	A 57	56E 11	56J01- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 81	56E 11	56J02- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 103	56E 11	56J03- 2	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	A 54	56E 12	56J01- 41	STRUCTURE GND
*	A 78	56E 12	56J02- 41	STRUCTURE GND
*	A 99	56E 12	56J03- 41	STRUCTURE GND
*	A 124	56E 12	56J04- 41	STRUCTURE GND
*	A 147	56E 12	56J05- 41	STRUCTURE GND
*	A 548	56E 12	56TB3-F21	STRUCTURE GND
	A 558W	56E 13	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 104W	56E 13	56J04- 14	800 CPS 28 V 1 PCT LO OPTICS
*	A 105	56E 13	56J04- 11	800 CPS 28 V 1 PCT LO OPTICS
*	A 106	56E 13	56J04- 25	800 CPS 28 V 1 PCT LO OPTICS
*	A 125	56E 13	56J05- 18	800 CPS 28 V 1 PCT LO OPTICS
*	A 126	56E 13	56J05- 4	800 CPS 28 V 1 PCT LO OPTICS
*	A 127	56E 13	56J05- 1	800 CPS 28 V 1 PCT LO OPTICS
	A 558R	56E 14	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 104R	56E 14	56J04- 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 118	56E 14	56J04- 12	800 CPS 28 V 1 PCT HI OPTICS
*	A 128	56E 14	56J05- 17	800 CPS 28 V 1 PCT HI OPTICS
*	A 129	56E 14	56J05- 14	800 CPS 28 V 1 PCT HI OPTICS
*	A 119	56E 15	56J04- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 142	56E 15	56J05- 2	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 553	56E 15	56TB2-L 8	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	A 560W	56E 16	56TB1-G 7	25.6 KC LO OPTICS
*	A 117W	56E 16	56J04- 60	25.6 KC LO OPTICS
*	A 140	56E 16	56J05- 60	25.6 KC LO OPTICS
	A 560R	56E 17	56TB1-H 7	25.6 KC HI OPTICS
*	A 117R	56E 17	56J04- 50	25.6 KC HI OPTICS
*	A 141	56E 17	56J05- 50	25.6 KC HI OPTICS
	A 132W	56E 18	56TB3-L11	TRUNNION CDU 1/2X RSVR P3

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 10

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 133	56E 18	56J05- 11	TRUNNION CDU 1/2X RSVR P3	
*	A 149	56E 18	56J05- 25	TRUNNION CDU 1/2X RSVR P3	
	A 556	56E 19	56TB1-S 5	0 VDC IMU	
*	A 194	56E 19	56J08- 31	0 VDC IMU	
*	A 195	56E 19	56J08- 70	0 VDC IMU	
*	A 204	56E 19	56J08- 30	0 VDC IMU	
*	A 205	56E 19	56J08- 28	0 VDC IMU	
*	A 208	56E 19	56J08- 17	0 VDC IMU	
*	A 212	56E 19	56J08- 52	0 VDC IMU	
	A 549	56E 20	56TB2-D 6	0 VDC IMU	
*	A 189	56E 20	56J08- 61	0 VDC IMU	
*	A 191	56E 20	56J08- 84	0 VDC IMU	
*	A 201	56E 20	56J08- 83	0 VDC IMU	
*	A 213	56E 20	56J08- 63	0 VDC IMU	
	A 550	56E 21	56TB2-D 5	0 VDC IMU	
*	A 337	56E 21	56P09- 27	0 VDC IMU	
*	A 339	56E 21	56P09- 37	0 VDC IMU	
*	A 340	56E 21	56P09- 26	0 VDC IMU	
*	A 341	56E 21	56P09- 25	0 VDC IMU	
*	A 347	56E 21	56P09- 36	0 VDC IMU	
*	A 348	56E 21	56P09- 24	0 VDC IMU	
	A 494W	56E 22	56J21-211		214B
	A 495W	56E 22	56J21-176		215B
	A 496W	56E 22	56J21-143		216B
	A 497W	56E 22	56J21-110		217B
	A 498W	56E 22	56J21- 77		218B
	A 499W	56E 22	56J21- 42		219B
	A 500W	56E 22	56J21-213		221B
	A 501W	56E 22	56J21-178		222B
	A 502W	56E 22	56J21-145		223B
	A 505W	56E 22	56J21- 5		220B
*	A 554	56E 22	56E 23		
	A 482W	56E 23	56J21- 81		232B
	A 483W	56E 23	56J21- 7		227B
	A 484W	56E 23	56J21-215		228B
	A 485W	56E 23	56J21-180		229B
	A 486W	56E 23	56J21-147		230B
	A 487W	56E 23	56J21-114		231B
	A 488W	56E 23	56J21- 46		233B
	A 503W	56E 23	56J21-112		224B

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 11

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 563W	56E 1	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	A 34	56E 1	56J01- 1	800 CPS 28 V 1 PCT HI IMU
*	A 35	56E 1	56J01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 36	56E 1	56J01- 25	800 CPS 28 V 1 PCT HI IMU
*	A 58	56E 1	56J02- 1	800 CPS 28 V 1 PCT HI IMU
*	A 59	56E 1	56J02- 11	800 CPS 28 V 1 PCT HI IMU
*	A 60	56E 1	56J02- 25	800 CPS 28 V 1 PCT HI IMU
*	A 82	56E 1	56J03- 25	800 CPS 28 V 1 PCT HI IMU
*	A 83	56E 1	56J03- 11	800 CPS 28 V 1 PCT HI IMU
*	A 84R	56E 1	56J03- 1	800 CPS 28 V 1 PCT HI IMU
	A 563R	56E 2	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	A 37	56E 2	56J01- 14	800 CPS 28 V 1 PCT LO IMU
*	A 61	56E 2	56J02- 14	800 CPS 28 V 1 PCT LO IMU
*	A 84W	56E 2	56J03- 14	800 CPS 28 V 1 PCT LO IMU
	A 564R	56E 3	56TB1-G 4	25.6 KC LO IMU
*	A 46W	56E 3	56J01- 60	25.6 KC LO IMU
*	A 70W	56E 3	56J02- 60	25.6 KC LO IMU
*	A 93W	56E 3	56J03- 60	25.6 KC LO IMU
	A 564W	56E 4	56TB1-H 4	25.6 KC HI IMU
*	A 46R	56E 4	56J01- 50	25.6 KC HI IMU
*	A 70R	56E 4	56J02- 50	25.6 KC HI IMU
*	A 93R	56E 4	56J03- 50	25.6 KC HI IMU
*	A 47	56E 5	56J01- 12	ZEROING RSVR 800 CPS
*	A 71	56E 5	56J02- 12	ZEROING RSVR 800 CPS
*	A 94	56E 5	56J03- 12	ZEROING RSVR 800 CPS
*	A 562	56E 5	56TB2-H 5	ZEROING RSVR 800 CPS
*	A 48	56E 6	56J01- 16	+28 VDC IMU
*	A 72	56E 6	56J02- 16	+28 VDC IMU
*	A 95W	56E 6	56J03- 16	+28 VDC IMU
*	A 559	56E 6	56TB3-S21	+28 VDC IMU
*	A 49	56E 7	56J01- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 73	56E 7	56J02- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 95R	56E 7	56J03- 3	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	A 557	56E 8	56TB2-D 1	+28 VDC CDU NOT LOCK
*	A 50	56E 8	56J01- 15	+28 VDC CDU NOT LOCK
*	A 74	56E 8	56J02- 15	+28 VDC CDU NOT LOCK
*	A 95L	56E 8	56J03- 15	+28 VDC CDU NOT LOCK
	A 561R	56E 9	56TB1-S 1	400 CPS VAR ILLUM PWR
*	A 53R	56E 9	56J01- 28	400 CPS VAR ILLUM PWR
*	A 77R	56E 9	56J02- 28	400 CPS VAR ILLUM PWR

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 9

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	A 504W	56E 23	56J21- 44		226B
	A 506W	56E 23	56J21- 79		225B
	A 554	56E 23	56E 22		
	A 555	56E 23	56E 24		
	A 470W	56E 24	56J21- 48		244B
	A 471W	56E 24	56J21- 83		242B
	A 489W	56E 24	56J21- 9		234B
	A 490W	56E 24	56J21-217		235B
	A 491W	56E 24	56J21-182		236B
	A 492W	56E 24	56J21-149		237B
	A 493W	56E 24	56J21-116		238B
	A 552	56E 24	56E 26		
*	A 555	56E 24	56E 23		
	A 467W	56E 25	56J21- 85		205B
	A 468R	56E 25	56J21- 13		209B
	A 472W	56E 25	56J21-151		203B
	A 510W	56E 25	56J21- 15		207B
	A 511W	56E 25	56J21-118		204B
	A 514W	56E 25	56J21-184		202B
	A 515W	56E 25	56J21-186		210B
	A 516W	56E 25	56J21-219		201B
	A 517W	56E 25	56J21-221		208B
	A 551	56E 25	56E 26		
*	A 519	56E 26	56J10- 82	COMMONED RETURNS GROUND	330
*	A 551	56E 26	56E 25		
*	A 552	56E 26	56E 24		
	AA 92B	56E 27	SHLD AA 92	0 VDC IMU	
	AA500B	56E 27	SHLD AA500	0 VDC IMU	
*	AA500W	56E 27	56J21-104	0 VDC IMU	155B
*	AA608	56E 27	56TB2-D 4	0 VDC IMU	
	AA503B	56E 28	SHLD AA503	COMPUTER 3200 PPS SYNC RET	
	AA504B	56E 28	SHLD AA504	COMPUTER 3200 PPS SYNC RET	
*	AA 36	56E 28	56J11-M5	COMPUTER 3200 PPS SYNC RET	
*	AA503W	56E 28	56J21-204	COMPUTER 3200 PPS SYNC RET	152B
*	AA504W	56E 28	56J21-242	COMPUTER 3200 PPS SYNC RET	151B
	AA490B	56E 29	SHLD AA490	COMPUTER 25.6 KPPS SYNC RET	
	AA491B	56E 29	SHLD AA491	COMPUTER 25.6 KPPS SYNC RET	
*	AA 69	56E 29	56J12-F2	COMPUTER 25.6 KPPS SYNC RET	
*	AA490R	56E 29	56J21-170	COMPUTER 25.6 KPPS SYNC RET	153B
*	AA491W	56E 29	56J21-137	COMPUTER 25.6 KPPS SYNC RET	154B

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 12

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA547	56TB3-S 9	56TB3-R 9	0 VDC OPTICS
*	A 138W	56TB3-S10	56J05- 87	TRUNNION CDU 16X RSVR SIN HI P2
*	AA310W	56TB3-S10	56J18-B3	TRUNNION CDU 16X RSVR SIN HI P2
*	A 138R	56TB3-S11	56J05-101	TRUNNION CDU 16X RSVR SIN LO P4
*	AA310R	56TB3-S11	56J18-B4	TRUNNION CDU 16X RSVR SIN LO P4
*	A 109W	56TB3-S12	56J04- 35	SHAFT CDU 1X P2 (S2)
*	AA328R	56TB3-S12	56J18-L5	SHAFT CDU 1X P2 (S2)
*	A 306R	56TB3-S13	56P08-V	SCT TRUNNION 1X SIN LO
*	AA383W	56TB3-S13	56J19-G3	SCT TRUNNION 1X SIN LO
*	A 306W	56TB3-S14	56P08-W	SCT TRUNNION 1X SIN HI
*	AA383R	56TB3-S14	56J19-G2	SCT TRUNNION 1X SIN HI
	A 257B	56TB3-S15	SHLD A257	0 VDC OPTICS
	A 260B	56TB3-S15	SHLD A260	0 VDC OPTICS
	A 302B	56TB3-S15	SHLD A302	0 VDC OPTICS
	AA536	56TB3-S15	56TB3-T15	0 VDC OPTICS
*	AA553	56TB3-S15	56TB3-R15	0 VDC OPTICS
*	A 260W	56TB3-S16	56P05-V*	SXT SHAFT TACH LO
*	AA371R	56TB3-S16	56J19-A2	SXT SHAFT TACH LO
*	A 260R	56TB3-S17	56P05-U*	SXT SHAFT TACH HI
*	AA371W	56TB3-S17	56J19-A3	SXT SHAFT TACH HI
*	A 264	56TB3-S18	56P05-AA	SXT SHAFT 1/2X RSVR LOAD
*	AA376	56TB3-S18	56J19-C5	SXT SHAFT 1/2X RSVR LOAD
*	A 317W	56TB3-S19	56P09- 6	0 VDC CONDITIONING
*	AA427W	56TB3-S19	56J20-C5	0 VDC CONDITIONING
*	A 386R	56TB3-S20	56P09- 21	+2.5 VDC CONDITIONING LO
*	AA463R	56TB3-S20	56J20-D4	+2.5 VDC CONDITIONING LO
	A 559	56TB3-S21	56E 6	+28 VDC IMU
	AA560	56TB3-S21	56TB3-T21	+28 VDC IMU
*	A 21	56TB3-S21	56P01- 7	+28 VDC IMU
*	AA456	56TB3-S21	56J20-K2	+28 VDC IMU
*	A 139L	56TB3-T 2	56J05-108	TRUNNION CDU ENCODER PHASE 2
*	AA281L	56TB3-T 2	56J17-A8	TRUNNION CDU ENCODER PHASE 2
	A 139B	56TB3-T 3	SHLD A139	TRUNNION CDU ENCODER COM
*	A 139R	56TB3-T 3	56J05- 94	TRUNNION CDU ENCODER COM
*	AA281R	56TB3-T 3	56J17-A7	TRUNNION CDU ENCODER COM
*	A 139W	56TB3-T 4	56J05-107	TRUNNION CDU ENCODER PHASE 1
*	AA281W	56TB3-T 4	56J17-A6	TRUNNION CDU ENCODER PHASE 1
*	A 116W	56TB3-T 5	56J04-107	SHAFT CDU ENCODER PHASE 1
*	AA284W	56TB3-T 5	56J17-C9	SHAFT CDU ENCODER PHASE 1
*	A 252W	56TB3-T 7	56P05-Z	SXT AT 64X RSVR SIN HI

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 50

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA307R	56TB3-T 7	56J18-B2	SXT AT 64X RSVR SIN HI
*	A 252R	56TB3-T 8	56P05-Y	SXT AT 64X RSVR SIN LO
*	AA307W	56TB3-T 8	56J18-C2	SXT AT 64X RSVR SIN LO
	A 137B	56TB3-T 9	SHLD A137	0 VDC OPTICS
	A 252B	56TB3-T 9	SHLD A252	0 VDC OPTICS
	AA307B	56TB3-T 9	SHLD AA307	0 VDC OPTICS
	AA309B	56TB3-T 9	SHLD AA309	0 VDC OPTICS
	AA549	56TB3-T 9	56TB3-G15	0 VDC OPTICS
*	AA548	56TB3-T 9	56TB3-S 9	0 VDC OPTICS
*	A 137W	56TB3-T10	56J05- 86	TRUNNION CDU 16X RSVR COS HI P1
*	AA309W	56TB3-T10	56J18-A2	TRUNNION CDU 16X RSVR COS HI P1
*	A 137R	56TB3-T11	56J05-100	TRUNNION CDU 16X RSVR COS LO P3
*	AA309R	56TB3-T11	56J18-A3	TRUNNION CDU 16X RSVR COS LO P3
*	A 109L	56TB3-T12	56J04- 34	SHAFT CDU 1X P1 (S1)
*	AA328W	56TB3-T12	56J18-K6	SHAFT CDU 1X P1 (S1)
*	A 307W	56TB3-T13	56P08-Y	SCT TRUNNION 1X COS LO
*	AA382R	56TB3-T13	56J19-G1	SCT TRUNNION 1X COS LO
*	A 307R	56TB3-T14	56P08-X	SCT TRUNNION 1X COS HI
*	AA382W	56TB3-T14	56J19-H1	SCT TRUNNION 1X COS HI
	A 306B	56TB3-T15	SHLD A306	0 VDC OPTICS
	A 307B	56TB3-T15	SHLD A307	0 VDC OPTICS
	AA537	56TB3-T15	56TB3-B15	0 VDC OPTICS
*	AA536	56TB3-T15	56TB3-S15	0 VDC OPTICS
*	A 257R	56TB3-T16	56P05-K*	SXT TRUNNION TACH HI
*	AA370W	56TB3-T16	56J19-A1	SXT TRUNNION TACH HI
*	A 257W	56TB3-T17	56P05-M*	SXT TRUNNION TACH LO
*	AA370R	56TB3-T17	56J19-B1	SXT TRUNNION TACH LO
*	A 311	56TB3-T18	56P08-H*	SCT SHAFT 1/2X RSVR LOAD
*	AA380	56TB3-T18	56J19-C7	SCT SHAFT 1/2X RSVR LOAD
*	A 317R	56TB3-T19	56P09- 5	+20 VDC CONDITIONING
*	AA427R	56TB3-T19	56J20-B5	+20 VDC CONDITIONING
	AA559	56TB3-T20	56TB3-T21	+28 VDC IMU
*	A 244	56TB3-T20	56P03-H*	+28 VDC IMU
*	A 284	56TB3-T20	56P06-D	+28 VDC IMU
*	AA454	56TB3-T20	56J20-K1	+28 VDC IMU
*	A 327	56TB3-T21	56P09- 19	+28 VDC IMU
*	AA455	56TB3-T21	56J20-K1	+28 VDC IMU
*	AA559	56TB3-T21	56TB3-T20	+28 VDC IMU
*	AA560	56TB3-T21	56TB3-S21	+28 VDC IMU

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 51

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA553	56TB3-R15	56TB3-S15	0 VDC OPTICS
*	AA535	56TB3-R15	56TB3-N15	0 VDC OPTICS
*	A 302W	56TB3-R16	56P08-P	SCT TRUNNION TACH LO
*	AA372R	56TB3-R16	56J19-A8	SCT TRUNNION TACH LO
*	A 302R	56TB3-R17	56P08-N	SCT TRUNNION TACH HI
*	AA372W	56TB3-R17	56J19-A9	SCT TRUNNION TACH HI
*	A 305	56TB3-R18	56P08-U	SCT TRUNNION 1X RSVR LOAD
*	AA378	56TB3-R18	56J19-A7	SCT TRUNNION 1X RSVR LOAD
*	A 386W	56TB3-R19	56P09- 7	+2.5 VDC CONDITIONING HI
*	AA463W	56TB3-R19	56J20-D5	+2.5 VDC CONDITIONING HI
*	A 330	56TB3-R20	56P09- 4	+28 VDC AGC
*	AA422	56TB3-R20	56J20-H4	+28 VDC AGC
	AA517R	56TB3-R21	56J22-120	800 CPS 28 V 1 PCT LO IMU
*	A 318W	56TB3-R21	56P09- 8	800 CPS 28 V 1 PCT LO IMU
*	AA410R	56TB3-R21	56J20-F6	800 CPS 28 V 1 PCT LO IMU
	AA517W	56TB3-R22	56J22-153	800 CPS 28 V 1 PCT HI IMU
*	A 318R	56TB3-R22	56P09- 9	800 CPS 28 V 1 PCT HI IMU
*	AA410W	56TB3-R22	56J20-F5	800 CPS 28 V 1 PCT HI IMU
	AA593	56TB3-S 2	56TB3-R 3	0 VDC IMU
	AA594	56TB3-S 2	56TB2-V 3	0 VDC IMU
*	A 544	56TB3-S 2	56P12-E	0 VDC IMU
*	AA248	56TB3-S 2	56J17-S2	0 VDC IMU
*	AA592	56TB3-S 2	56TB2-M 6	0 VDC IMU
*	A 116L	56TB3-S 4	56J04-108	SHAFT CDU ENCODER PHASE 2
*	AA284L	56TB3-S 4	56J17-F9	SHAFT CDU ENCODER PHASE 2
	A 116B	56TB3-S 5	SHLD A116	SHAFT CDU ENCODER COM
*	A 116R	56TB3-S 5	56J04- 94	SHAFT CDU ENCODER COM
*	AA284R	56TB3-S 5	56J17-D9	SHAFT CDU ENCODER COM
*	A 188	56TB3-S 6	56J08- 60	IMU FAIL LIGHT HI
*	A 334	56TB3-S 6	56P09- 48	IMU FAIL LIGHT HI
*	A 465	56TB3-S 6	56J10- 6	IMU FAIL LIGHT HI
*	A 253W	56TB3-S 7	56P05-B*	SXT AT 64X RSVR COS LO
*	AA308R	56TB3-S 7	56J18-B1	SXT AT 64X RSVR COS LO
*	A 253R	56TB3-S 8	56P05-A*	SXT AT 64X RSVR COS HI
*	AA308W	56TB3-S 8	56J18-A1	SXT AT 64X RSVR COS HI
	A 138B	56TB3-S 9	SHLD A138	0 VDC OPTICS
	A 253B	56TB3-S 9	SHLD A253	0 VDC OPTICS
	AA308B	56TB3-S 9	SHLD AA308	0 VDC OPTICS
	AA310B	56TB3-S 9	SHLD AA310	0 VDC OPTICS
	AA548	56TB3-S 9	56TB3-T 9	0 VDC OPTICS

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CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 49

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 34	56J01- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 57	56J01- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 49	56J01- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 40W	56J01- 6	56TB3-F13	COS AIG 1X RET P1
A 41W	56J01- 7	56TB3-D14	SIN AIG 1X P2
A 35	56J01- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 47	56J01- 12	56E 5	ZEROING RSVR 800 CPS
A 37	56J01- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 50	56J01- 15	56E 8	+28 VDC CDU NOT LOCK
A 48	56J01- 16	56E 6	+28 VDC IMU
A 40R	56J01- 20	56TB3-F14	COS AIG 1X P3
A 41R	56J01- 21	56TB3-D13	SIN AIG 1X RET P4
A 36	56J01- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 53R	56J01- 28	56E 9	400 CPS VAR ILLUM PWR
A 53W	56J01- 29	56E 10	400 CPS 6 V LO
A 56	56J01- 30	56TB2-N 5	+28 VDC IMU FOR IG MDA
A 52L	56J01- 31	56TB2-L 5	IG CDU MDA OUTPUT
A 52W	56J01- 32	56TB2-L 6	IG CDU MDA OUTPUT
A 55	56J01- 34	56TB2-W 1	IG CDU 1X RSVR LOAD S1
A 39R	56J01- 35	56TB2-H 2	IG CDU 1X ERROR SIG S2
A 54	56J01- 41	56E 12	STRUCTURE GND
A 52R	56J01- 43	56TB2-K 4	0 VDC IMU
A 39W	56J01- 45	56TB2-G 2	IG CDU ERROR SIG RET
A 46R	56J01- 50	56E 4	25.6 KC HI IMU
A 38W	56J01- 57	56TB2-G 3	IG CDU ERROR SIG RET S1
A 46W	56J01- 60	56E 3	25.6 KC LO IMU
A 38R	56J01- 67	56TB2-H 3	IG CDU 1/2X ERROR SIG S3
A 43W	56J01- 86	56TB2-W 7	COS AIG 16X TO CDU
A 44W	56J01- 87	56TB2-C 8	SIN AIG 16X TO CDU
A 42W	56J01- 90	56TB2-G 1	IG CDU ERROR SIG RET
A 51W	56J01- 92	56TB2-T 7	IG CDU MDA INPUT RET
A 45R	56J01- 94	56TB2-A 5	IG CDU ENCODER COM
A 43R	56J01-100	56TB2-W 6	COS AIG 16X S3
A 44R	56J01-101	56TB2-B 8	SIN AIG 16X S4
A 42R	56J01-104	56TB2-H 1	IG CDU 16X ERROR SIG
A 51L	56J01-105	56TB2-T 6	IG CDU MDA SLEW SIG
A 51R	56J01-106	56TB2-U 6	IG CDU MDA TACH SIG
A 45W	56J01-107	56TB2-B 5	IG CDU ENCODER PHASE 1
A 45L	56J01-108	56TB2-C 5	IG CDU ENCODER PHASE 2

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 52

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INCHES

0 1 2

PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA483B	56E 41	SHLD AA483	MG DAC MDA SIG LO	
	AA484B	56E 41	SHLD AA484	MG DAC MDA SIG LO	
*	AA168	56E 41	56J15-A7	MG DAC MDA SIG LO	
*	AA483R	56E 41	56J21-166	MG DAC MDA SIG LO	130B
*	AA484W	56E 41	56J21- 98	MG DAC MDA SIG LO	131B
*	AA166	56E 42	56J15-A9	OG DAC MDA SIG LO	
*	AA479R	56E 42	56J21- 57	OG DAC MDA SIG LO	118B
*	AA480W	56E 42	56J21- 59	OG DAC MDA SIG LO	119B
	AA485B	56E 43	SHLD AA485	OG DAC MDA SIG LO	
	AA486B	56E 43	SHLD AA486	OG DAC MDA SIG LO	
*	AA169	56E 43	56J15-A9	OG DAC MDA SIG LO	
*	AA485R	56E 43	56J21- 65	OG DAC MDA SIG LO	126B
*	AA486W	56E 43	56J21- 31	OG DAC MDA SIG LO	127B
	A 14B	56E 44	SHLD A 14	AGC SIG 178 SHLD RET	
	A 15B	56E 44	SHLD A 15	AGC SIG 178 SHLD RET	
	A 16B	56E 44	SHLD A 16	AGC SIG 178 SHLD RET	
	A 27B	56E 44	SHLD A 27	AGC SIG 178 SHLD RET	
	A 156B	56E 44	SHLD A156	AGC SIG 178 SHLD RET	
	A 407B	56E 44	SHLD A407	AGC SIG 178 SHLD RET	
	A 433B	56E 44	SHLD A433	AGC SIG 178 SHLD RET	
	A 434B	56E 44	SHLD A434	AGC SIG 178 SHLD RET	
	A 437B	56E 44	SHLD A437	AGC SIG 178 SHLD RET	
	A 449B	56E 44	SHLD A449	AGC SIG 178 SHLD RET	
*	A 440A	56E 44	SHLD A440	AGC SIG 178 SHLD RET	
	AA494B	56E 45	SHLD AA494	AGC SIG 180 SHLD RET	
	AA495B	56E 45	SHLD AA495	AGC SIG 180 SHLD RET	
	AA498B	56E 45	SHLD AA498	AGC SIG 180 SHLD RET	
	AA499B	56E 45	SHLD AA499	AGC SIG 180 SHLD RET	
	AA568	56E 45	56E 46	AGC SIG 180 SHLD RET	
*	AA473	56E 45	56J21- 23	AGC SIG 180 SHLD RET	180
	AA467B	56E 46	SHLD AA467	AGC SIG 180 SHLD RET	
	AA468B	56E 46	SHLD AA468	AGC SIG 180 SHLD RET	
	AA469B	56E 46	SHLD AA469	AGC SIG 180 SHLD RET	
	AA470B	56E 46	SHLD AA470	AGC SIG 180 SHLD RET	
	AA471B	56E 46	SHLD AA471	AGC SIG 180 SHLD RET	
	AA472B	56E 46	SHLD AA472	AGC SIG 180 SHLD RET	
*	AA568	56E 46	56E 45	AGC SIG 180 SHLD RET	
	AA475B	56E 47	SHLD AA475	AGC SIG 179 SHLD RET	
	AA476B	56E 47	SHLD AA476	AGC SIG 179 SHLD RET	
	AA477B	56E 47	SHLD AA477	AGC SIG 179 SHLD RET	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 14

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA478B	56E 47	SHLD AA478	AGC SIG 179 SHLD RET	
	AA479B	56E 47	SHLD AA479	AGC SIG 179 SHLD RET	
	AA480B	56E 47	SHLD AA480	AGC SIG 179 SHLD RET	
*	AA474	56E 47	56J21- 22	AGC SIG 179 SHLD RET	179
	A 64B	56E 48	SHLD A 64	0 VDC IMU	
	A 221B	56E 48	SHLD A221	0 VDC IMU	
	A 358B	56E 48	SHLD A358	0 VDC IMU	
*	A 458	56E 48	56TB2-D 5	0 VDC IMU	
*	AA301A	56E 49	SHLD AA301		
*	AA331A	56E 49	SHLD AA331		
	AA496B	56E 50	SHLD AA496	TRUNNION CDU DAC LO	
	AA497B	56E 50	SHLD AA497	TRUNNION CDU DAC LO	
*	AA348	56E 50	56J18-H3	TRUNNION CDU DAC LO	
*	AA496R	56E 50	56J21-236	TRUNNION CDU DAC LO	114B
*	AA497W	56E 50	56J21-198	TRUNNION CDU DAC LO	115B
	AA243B	56E 51	SHLD AA243	TRUNNION CDU DAC LO	
*	AA243W	56E 51	56J17-H6	TRUNNION CDU DAC LO	
*	AA349	56E 51	56J18-H3	TRUNNION CDU DAC LO	
*	AA498R	56E 51	56J21-231	TRUNNION CDU DAC LO	108B
*	AA499R	56E 51	56J21-191	TRUNNION CDU DAC LO	109B
	AA492B	56E 52	SHLD AA492	SHAFT CDU DAC LO	
	AA493B	56E 52	SHLD AA493	SHAFT CDU DAC LO	
*	AA346	56E 52	56J18-H2	SHAFT CDU DAC LO	
*	AA492R	56E 52	56J21-164	SHAFT CDU DAC LO	116B
*	AA493W	56E 52	56J21-131	SHAFT CDU DAC LO	117B
	AA242B	56E 53	SHLD AA242	SHAFT CDU DAC LO	
*	AA242W	56E 53	56J17-H4	SHAFT CDU DAC LO	
*	AA347	56E 53	56J18-H2	SHAFT CDU DAC LO	
*	AA494R	56E 53	56J21-157	SHAFT CDU DAC LO	110B
*	AA495R	56E 53	56J21-124	SHAFT CDU DAC LO	111B
	AA300B	56E 54	SHLD AA300		
*	AA329A	56E 54	SHLD AA329		
	A 155R	56E 55	56TB2-F 3		
	A 156R	56E 55	56J21-229		164B
*	A 406	56E 56	56J09- 60	AGC COMMON	
*	A 415	56E 56	56J09- 42	AGC COMMON	
*	A 420	56E 56	56J09- 36	AGC COMMON	
*	A 440W	56E 56	56J21-119	AGC COMMON	101A
	AA488B	56E 57	SHLD AA488	AGC SIG 178 SHLD RET	
	AA561	56E 57	56TB2-D 3	AGC SIG 178 SHLD RET	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 15

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA232B	56E 30	SHLD AA232		
*	AA226A	56E 30	SHLD AA226		
*	AA227A	56E 30	SHLD AA227		
*	AA 67	56E 31	56J12-F1	COMPUTER 800 PPS SYNC RET	
*	AA 91	56E 31	56J12-R4	0 VDC IMU	
*	AA232A	56E 31	SHLD AA232	0 VDC IMU	
*	AA232W	56E 31	56J16-L3	COMPUTER 800 PPS SYNC RET	
*	AA 8A	56E 32	SHLD AA 8		
*	AA 92A	56E 32	SHLD AA 92		
	AA129W	56E 33	56J21- 67	0 VDC IMU	142B
	AA130R	56E 33	56J21- 33	0 VDC IMU	143B
	AA131W	56E 33	56J21-240	0 VDC IMU	144B
	AA132W	56E 33	56J21-202	0 VDC IMU	145B
	AA134R	56E 33	56J21-168	0 VDC IMU	146B
	AA135W	56E 33	56J21-135	0 VDC IMU	147B
*	AA137	56E 33	56J14-R6	0 VDC IMU	
*	AA 77	56E 34	56J12-B5	0 VDC IMU	
*	AA125	56E 34	56J13-R6	0 VDC IMU	
*	AA501R	56E 34	56J21-133	0 VDC IMU	139B
*	AA502R	56E 34	56J21-100	0 VDC IMU	140B
*	AA158	56E 35	56J15-L5	COMPUTER RET	
*	AA467R	56F 35	56J21-125	COMPUTER RET	132A
*	AA468R	56E 35	56J21- 92	COMPUTER RET	133A
*	AA159	56E 36	56J15-L5	COMPUTER RET	
*	AA469R	56E 36	56J21-194	COMPUTER RET	134A
*	AA470R	56E 36	56J21-160	COMPUTER RET	135A
*	AA160	56E 37	56J15-L5	COMPUTER RET	
*	AA471R	56E 37	56J21- 94	COMPUTER RET	137A
*	AA472R	56E 37	56J21-127	COMPUTER RET	136A
*	AA164	56E 38	56J15-A5	IG DAC MDA SIG LO	
*	AA475R	56E 38	56J21- 25	IG DAC MDA SIG LO	120B
*	AA476W	56E 38	56J21- 27	IG DAC MDA SIG LO	121B
	AA481B	56E 39	SHLD AA481	IG DAC MDA SIG LO	
	AA482B	56E 39	SHLD AA482	IG DAC MDA SIG LO	
*	AA167	56E 39	56J15-A5	IG DAC MDA SIG LO	
*	AA481R	56E 39	56J21-238	IG DAC MDA SIG LO	128B
*	AA482W	56E 39	56J21-200	IG DAC MDA SIG LO	129B
*	AA165	56E 40	56J15-A7	MG DAC MDA SIG LO	
*	AA477R	56E 40	56J21-233	MG DAC MDA SIG LO	122B
*	AA478W	56E 40	56J21-193	MG DAC MDA SIG LO	123B

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 13

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA489A	56E 57	SHLD AA489	AGC SIG 178 SHLD RET	
*	AA562	56E 57	56J21- 53	AGC SIG 178 SHLD RET	178
	A 407R	56E 58	56J21- 17		105B
	A 433R	56E 58	56J21- 87		102B
	A 434R	56E 58	56J21- 89		103B
	A 437R	56E 58	56J21- 55		104B
*	A 440R	56E 58	56J21-120		101B
*	A 449W	56E 58	56J21- 19		106B
	AA176R	56E 59	56TB2-F 3		
*	AA488R	56F 59	56J21-189		160B
*	AA489R	56E 60	56J21-153		158B
*	AA569R	56E 60	56TB2-F 3		
	A 13R	56E 61	56TB2-F 3		
	A 14R	56E 61	56J21-155		159B
	A 15R	56E 61	56J21-223		161B
	A 16R	56E 61	56J21-227		163B
	A 27R	56E 61	56J21-225		162B

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 16

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 84R	56J03- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 103	56J03- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 95R	56J03- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 87W	56J03- 6	56TB2-N 7	COS AOG 1X S1
A 88W	56J03- 7	56TB2-U 8	SIN AOG 1X S4
A 83	56J03- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 94	56J03- 12	56E 5	ZEROING RSVR 800 CPS
A 84W	56J03- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 95L	56J03- 15	56E 8	+28 VDC CDU NOT LOCK
A 95W	56J03- 16	56E 6	+28 VDC IMU
A 87R	56J03- 20	56TB2-R 8	COS AOG 1X TO CDU
A 88R	56J03- 21	56TB2-T 8	SIN AOG 1X TO CDU
A 82	56J03- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 98R	56J03- 28	56E 9	400 CPS VAR ILLUM PWR
A 98W	56J03- 29	56E 10	400 CPS 6 V LO
A 102	56J03- 30	56TB2-K 8	+28 VDC IMU FOR OG MDA
A 97L	56J03- 31	56TB2-K 6	OG CDU MDA OUTPUT
A 97W	56J03- 32	56TB2-K 5	OG CDU MDA OUTPUT
A 100	56J03- 34	56TB2-U 1	OG CDU 1X RSVR LOAD
A 86R	56J03- 35	56TB2-N 2	OG CDU 1X ERROR SIG
A 99	56J03- 41	56E 12	STRUCTURE GND
A 97R	56J03- 43	56TB2-K 4	0 VDC IMU
A 86W	56J03- 45	56TB2-R 2	OG CDU ERROR SIG RET
A 93R	56J03- 50	56E 4	25.6 KC HI IMU
A 85W	56J03- 57	56TB2-R 1	OG CDU ERROR SIG RET
A 93W	56J03- 60	56E 3	25.6 KC LO IMU
A 85R	56J03- 67	56TB2-N 1	OG CDU 1/2X ERROR SIG
A 90W	56J03- 86	56TB2-X 4	COS AOG 16X TO CDU
A 91W	56J03- 87	56TB2-W 2	SIN AOG 16X S4
A 101	56J03- 89	56TB2-T 1	OG CDU 16X RSVR LOAD
A 89W	56J03- 90	56TB2-R 3	OG CDU ERROR SIG RET
A 96W	56J03- 92	56TB2-R 7	OG CDU MDA INPUT RET
A 92R	56J03- 94	56TB2-A 4	OG CDU ENCODER COM
A 90R	56J03-100	56TB2-W 4	COS AOG 16X S3
A 91R	56J03-101	56TB2-X 2	SIN AOG 16X TO CDU
A 89R	56J03-104	56TB2-N 3	OG CDU 16X ERROR SIG
A 96L	56J03-105	56TB2-R 6	OG CDU MDA SLEW SIG
A 96R	56J03-106	56TB2-N 6	OG CDU MDA TACH SIG
A 92W	56J03-107	56TB2-B 4	OG CDU ENCODER PHASE 1
A 92L	56J03-108	56TB2-C 4	OG CDU ENCODER PHASE 2

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 54

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 104R	56J04- 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 119	56J04- 2	56E 15	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 120	56J04- 3	56TB3-G 6	SHAFT CDU MOTOR EXC
A 110R	56J04- 6	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
A 111R	56J04- 7	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
A 105	56J04- 11	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 118	56J04- 12	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 104W	56J04- 14	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 110W	56J04- 20	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
A 111W	56J04- 21	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
A 106	56J04- 25	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 123R	56J04- 28	56E 9	400 CPS VAR ILLUM PWR
A 123W	56J04- 29	56E 10	400 CPS 6 V LO
A 122L	56J04- 31	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
A 122W	56J04- 32	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
A 109L	56J04- 34	56TB3-T12	SHAFT CDU 1X P1 (S1)
A 109W	56J04- 35	56TB3-S12	SHAFT CDU 1X P2 (S2)
A 124	56J04- 41	56E 12	STRUCTURE GND
A 122R	56J04- 43	56TB3-M20	+28 VDC OPTICS
A 109R	56J04- 45	56TB3-R12	SHAFT CDU 1X P3 (S3)
A 117R	56J04- 50	56E 17	25.6 KC HI OPTICS
A 108W	56J04- 56	56TB3-N14	SHAFT CDU 1/2X COS HI S2
A 107R	56J04- 57	56TB3-K11	SHAFT CDU 1/2X SIN LO S3
A 117W	56J04- 60	56E 16	25.6 KC LO OPTICS
A 108R	56J04- 66	56TB3-N13	SHAFT CDU 1/2X COS LO S4
A 107W	56J04- 67	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 114W	56J04- 86	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
A 115W	56J04- 87	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
A 113	56J04- 89	56TB3-M18	SHAFT CDU 16X LOAD
A 112W	56J04- 90	56TB3-H11	SHAFT CDU 16X ERROR SIG LO
A 121W	56J04- 92	56TB3-L 8	SHAFT CDU TACH LO
A 116R	56J04- 94	56TB3-S 5	SHAFT CDU ENCODER COM
A 114R	56J04-100	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
A 115R	56J04-101	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
A 112R	56J04-104	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
A 121R	56J04-106	56TB3-L 7	SHAFT CDU TACH HI
A 116W	56J04-107	56TB3-T 5	SHAFT CDU ENCODER PHASE 1
A 116L	56J04-108	56TB3-S 4	SHAFT CDU ENCODER PHASE 2

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 55

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 58	56J02- 1	56E 1	800 CPS 28 V 1 PCT HI IMU
A 81	56J02- 2	56E 11	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 73	56J02- 3	56E 7	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 64W	56J02- 6	56TB3-N21	COS AMG 1X S1
A 65W	56J02- 7	56TB3-C14	SIN AMG 1X
A 59	56J02- 11	56E 1	800 CPS 28 V 1 PCT HI IMU
A 71	56J02- 12	56E 5	ZEROING RSVR 800 CPS
A 61	56J02- 14	56E 2	800 CPS 28 V 1 PCT LO IMU
A 74	56J02- 15	56E 8	+28 VDC CDU NOT LOCK
A 72	56J02- 16	56E 6	+28 VDC IMU
A 64R	56J02- 20	56TB3-N20	COS AMG 1X S3
A 65R	56J02- 21	56TB3-C13	SIN AMG 1X RET
A 60	56J02- 25	56E 1	800 CPS 28 V 1 PCT HI IMU
A 77R	56J02- 28	56E 9	400 CPS VAR ILLUM PWR
A 77W	56J02- 29	56E 10	400 CPS 6 V LO
A 80	56J02- 30	56TB2-R 5	+28 VDC IMU FOR MG MDA
A 76L	56J02- 31	56TB2-L 3	MG CDU MDA OUTPUT
A 76W	56J02- 32	56TB2-K 3	MG CDU MDA OUTPUT
A 79	56J02- 34	56TB2-X 1	MG CDU 1X RSVR LOAD
A 63R	56J02- 35	56TB2-H 7	MG CDU 1X ERROR SIG
A 78	56J02- 41	56E 12	STRUCTURE GND
A 76R	56J02- 43	56TB2-K 4	0 VDC IMU
A 63W	56J02- 45	56TB2-G 7	MG CDU ERROR SIG RET
A 70R	56J02- 50	56E 4	25.6 KC HI IMU
A 62W	56J02- 57	56TB2-G 6	MG CDU ERROR SIG RET
A 70W	56J02- 60	56E 3	25.6 KC LO IMU
A 62R	56J02- 67	56TB2-H 6	MG CDU 1/2X ERROR SIG
A 67W	56J02- 86	56TB2-U 4	COS AMG 16X TO CDU
A 68W	56J02- 87	56TB2-C 7	SIN AMG 16X TO CDU
A 66W	56J02- 90	56TB2-G 8	MG CDU ERROR SIG RET
A 75W	56J02- 92	56TB2-X 6	MG CDU MDA INPUT RET
A 69R	56J02- 94	56TB2-C 6	MG CDU ENCODER COM
A 67R	56J02-100	56TB2-U 5	COS AMG 16X S3
A 68R	56J02-101	56TB2-B 7	SIN AMG 16X S4
A 66R	56J02-104	56TB2-H 8	MG CDU 16X ERROR SIG
A 75L	56J02-105	56TB2-X 5	MG CDU MDA SLEW SIG
A 75R	56J02-106	56TB2-W 5	MG CDU MDA TACH SIG
A 69W	56J02-107	56TB2-B 6	MG CDU ENCODER PHASE 1
A 69L	56J02-108	56TB2-A 6	MG CDU ENCODER PHASE 2

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 53

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 127	56J05- 1	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 142	56J05- 2	56E 15	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 143	56J05- 3	56TB3-F 6	TRUNNION CDU MOTOR EXC
A 126	56J05- 4	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130R	56J05- 8	56TB3-G10	TRUNNION CDU 1/4X SIN HI
A 131R	56J05- 9	56TB3-F16	TRUNNION CDU 1/4X COS HI
A 131W	56J05- 10	56TB3-G16	TRUNNION CDU 1/4X COS LO
A 133	56J05- 11	56E 18	TRUNNION CDU 1/2X RSVR P3
A 132R	56J05- 12	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
A 129	56J05- 14	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 128	56J05- 17	56E 14	800 CPS 28 V 1 PCT HI OPTICS
A 125	56J05- 18	56E 13	800 CPS 28 V 1 PCT LO OPTICS
A 130W	56J05- 22	56TB3-F10	TRUNNION CDU 1/4X SIN LO
A 149	56J05- 25	56E 18	TRUNNION CDU 1/2X RSVR P3
A 146R	56J05- 28	56E 9	400 CPS VAR ILLUM PWR
A 146W	56J05- 29	56E 10	400 CPS 6 V LO
A 145L	56J05- 31	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
A 145W	56J05- 32	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
A 147	56J05- 41	56E 12	STRUCTURE GND
A 145R	56J05- 43	56TB3-M20	+28 VDC OPTICS
A 141	56J05- 50	56E 17	25.6 KC HI OPTICS
A 148R	56J05- 56	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI
A 140	56J05- 60	56E 16	25.6 KC LO OPTICS
A 148W	56J05- 66	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO
A 134W	56J05- 67	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
A 134R	56J05- 68	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
A 137W	56J05- 86	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
A 138W	56J05- 87	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
A 136	56J05- 89	56TB3-N18	TRUNNION CDU 16X LOAD
A 135W	56J05- 90	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
A 144W	56J05- 92	56TB3-M 7	TRUNION CDU TACH LO
A 139R	56J05- 94	56TB3-T 3	TRUNNION CDU ENCODER COM
A 137R	56J05-100	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
A 138R	56J05-101	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
A 135R	56J05-104	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
A 144R	56J05-106	56TB3-M 8	TRUNION CDU TACH HI
A 139W	56J05-107	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1
A 139L	56J05-108	56TB3-T 2	TRUNNION CDU ENCODER PHASE 2

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 56

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 231L	56TB1-B 8	56P03-U	IMU IG AND Y GYRO ERROR SIG
*	A 363L	56TB1-B 8	56P09- 61	IMU IG AND Y GYRO ERROR SIG
*	AA 29W	56TB1-B 8	56J11-B6	IMU IG AND Y GYRO ERROR SIG
*	AA155R	56TB1-B 8	56J15-A2	IMU IG AND Y GYRO ERROR SIG
*	A 223W	56TB1-C 2	56P02-S	3200 CPS 2 V LO
*	A 323W	56TB1-C 2	56P09- 58	3200 CPS 2 V LO
*	AA 28K	56TB1-C 2	56J11-L2	3200 CPS 2 V LO
*	AA 28L	56TB1-C 2	56J11-M2	3200 CPS 2 V LO
*	A 298R	56TB1-C 3	56P07-F*	OG ADA
*	AA 23K	56TB1-C 3	56J11-H1	OG ADA
*	A 298K	56TB1-C 4	56P07-H*	IG ADA
*	AA 23R	56TB1-C 4	56J11-F1	IG ADA
*	A 234W	56TB1-C 5	56P03-H	IG CDU ATTITUDE STEERING ERROR
*	AA 16R	56TB1-C 5	56J11-C1	IG CDU ATTITUDE STEERING ERROR
*	A 224R	56TB1-C 6	56P02-T	3200 CPS 2 V FEEDBACK HI
*	AA 42W	56TB1-C 6	56J11-F3	3200 CPS 2 V FEEDBACK HI
*	A 229W	56TB1-C 7	56P03-A	X GYRO ERROR SIG
*	A 362	56TB1-C 7	56P09- 52	X GYRO ERROR SIG
*	AA155L	56TB1-C 7	56J15-B1	X GYRO ERROR SIG
*	A 230W	56TB1-C 8	56P03-B	Z GYRO ERROR SIG
*	A 361	56TB1-C 8	56P09- 41	Z GYRO ERROR SIG
*	AA155W	56TB1-C 8	56J15-A1	Z GYRO ERROR SIG
*	A 223R	56TB1-D 2	56P02-R	3200 CPS 2 V HI
*	A 323R	56TB1-D 2	56P09- 59	3200 CPS 2 V HI
*	AA 28R	56TB1-D 2	56J11-M1	3200 CPS 2 V HI
*	AA 28W	56TB1-D 2	56J11-L1	3200 CPS 2 V HI
*	A 241R	56TB1-D 3	56P03-D*	IG TORQUE MOTOR HI
*	A 242W	56TB1-D 3	56P03-G*	IG TORQUE MOTOR HI
*	A 352W	56TB1-D 3	56P09-106	IG TORQUE MOTOR HI
*	AA 30R	56TB1-D 3	56J11-D6	IG TORQUE MOTOR HI
*	A 241W	56TB1-D 4	56P03-E*	IG TORQUE MOTOR RET
*	A 242R	56TB1-D 4	56P03-F*	IG TORQUE MOTOR RET
*	A 352R	56TB1-D 4	56P09- 93	IG TORQUE MOTOR RET
*	AA 30W	56TB1-D 4	56J11-D5	IG TORQUE MOTOR RET
*	A 272	56TB1-D 5	56P06-F	-28 VDC
*	AA 27	56TB1-D 5	56J11-N6	-28 VDC
*	A 26	56TB1-D 6	56P01- 4	COARSE ALIGN RELAY CONTROL
*	AA 35	56TB1-D 6	56J11-L3	COARSE ALIGN RELAY CONTROL
	A 224B	56TB1-D 7	SHLD A224	0 VDC IMU
	A 229B	56TB1-D 7	SHLD A229	0 VDC IMU

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 18

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA572	56TB1-D 7	56TB1-D 8	0 VDC IMU	
	AA590	56TB1-D 7	56TB2-V 3	0 VDC IMU	
	A 230B	56TB1-D 8	SHLD A230	0 VDC IMU	
	AA587	56TB1-D 8	56TB1-N 8	0 VDC IMU	
*	A 527	56TB1-D 8	56P11-D	0 VDC IMU	
*	AA572	56TB1-D 8	56TB1-D 7	0 VDC IMU	
*	A 158	56TB1-F 8	56J06- 81	ATTUT CONT MODE COMMAND FROM AGC	
*	A 475	56TB1-F 8	56J10- 12	ATTIT CONT MODE COMMAND FROM AGC	314
*	A 271L	56TB1-G 2	56P06-C	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 319R	56TB1-G 2	56P09- 67	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	AA 60W	56TB1-G 2	56J12-P2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
*	A 324W	56TB1-G 4	56P09- 81	25.6 KC LO IMU	
*	A 564R	56TB1-G 4	56E 3	25.6 KC LO IMU	
*	AA 64R	56TB1-G 4	56J12-P5	25.6 KC LO IMU	
*	A 508	56TB1-G 5	56J10- 10	+28 VDC TO COMPUTER RELAY	327
*	AA 79	56TB1-G 5	56J12-M4	+28 VDC TO COMPUTER RELAY	
*	A 325W	56TB1-G 7	56P09- 80	25.6 KC LO OPTICS	
*	A 560W	56TB1-G 7	56E 16	25.6 KC LO OPTICS	
*	AA 63R	56TB1-G 7	56J12-N6	25.6 KC LO OPTICS	
*	A 271W	56TB1-H 2	56P06-B	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 319L	56TB1-H 2	56P09- 78	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	AA 60R	56TB1-H 2	56J12-R1	800 CPS 28 V 5 PCT IMU WHEELS LO	
*	A 271R	56TB1-H 3	56P06-A	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 319W	56TB1-H 3	56P09- 79	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 60L	56TB1-H 3	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	A 324R	56TB1-H 4	56P09- 69	25.6 KC HI IMU	
*	A 564W	56TB1-H 4	56E 4	25.6 KC HI IMU	
*	AA 64W	56TB1-H 4	56J12-N4	25.6 KC HI IMU	
*	A 478	56TB1-H 5	56J10- 9	AGC FAIL SIG	326
*	AA 78	56TB1-H 5	56J12-M3	AGC FAIL SIG	
*	A 198	56TB1-H 6	56J08- 71	AGC POWER SUPPLY FAIL SIG HI	
*	A 332	56TB1-H 6	56P09- 13	AGC POWER SUPPLY FAIL SIG HI	
*	AA 80	56TB1-H 6	56J12-M1	AGC POWER SUPPLY FAIL SIG HI	
*	A 325R	56TB1-H 7	56P09- 68	25.6 KC HI OPTICS	
*	A 560R	56TB1-H 7	56E 17	25.6 KC HI OPTICS	
*	AA 63W	56TB1-H 7	56J12-P6	25.6 KC HI OPTICS	
*	A 187	56TB1-H 8	56J08- 51	ERROR DETECT LIGHT HI	
*	A 336	56TB1-H 8	56P09- 12	ERROR DETECT LIGHT HI	
*	AA 83	56TB1-H 8	56J12-L2	ERROR DETECT LIGHT HI	
*	A 18	56TB1-K 1	56P01- 91	MODE LAMP TEST PWR	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 19

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 238W	56TB1-A 2	56P03-Y	OG TORQUE MOTOR HI
*	A 273R	56TB1-A 2	56P06-H	OG TORQUE MOTOR HI
*	A 354W	56TB1-A 2	56P09- 95	OG TORQUE MOTOR HI
*	AA 34R	56TB1-A 2	56J11-H6	OG TORQUE MOTOR HI
*	A 239W	56TB1-A 3	56P03-A*	MG TORQUE MOTOR RET
*	A 240R	56TB1-A 3	56P03-B*	MG TORQUE MOTOR RET
*	A 353R	56TB1-A 3	56P09-107	MG TORQUE MOTOR RET
*	AA 32W	56TB1-A 3	56J11-G6	MG TORQUE MOTOR RET
*	A 239R	56TB1-A 4	56P03-Z	MG TORQUE MOTOR HI
*	A 240W	56TB1-A 4	56P03-C*	MG TORQUE MOTOR HI
*	A 353W	56TB1-A 4	56P09-108	MG TORQUE MOTOR HI
*	AA 32R	56TB1-A 4	56J11-F6	MG TORQUE MOTOR HI
*	A 235W	56TB1-A 5	56P03-L	MG CDU ATTITUDE STEERING ERROR
*	AA 20R	56TB1-A 5	56J11-C2	MG CDU ATTITUDE STEERING ERROR
	A 235B	56TB1-A 6	SHLD A235	MG CDU ERROR SIG RET
*	A 235R	56TB1-A 6	56P03-K	MG CDU ERROR SIG RET
*	AA 20W	56TB1-A 6	56J11-B2	MG CDU ERROR SIG RET
*	A 231K	56TB1-A 7	56P03-W	IMU MG ERROR SIG
*	A 363R	56TB1-A 7	56P09- 60	IMU MG ERROR SIG
*	AA 29R	56TB1-A 7	56J11-A5	IMU MG ERROR SIG
*	A 231R	56TB1-A 8	56P03-C	IMU OG ERROR SIG
*	A 363W	56TB1-A 8	56P09- 50	IMU OG ERROR SIG
*	AA 29L	56TB1-A 8	56J11-A6	IMU OG ERROR SIG
*	A 238R	56TB1-B 2	56P03-X	OG TORQUE MOTOR RET
*	A 273W	56TB1-B 2	56P06-J	OG TORQUE MOTOR RET
*	A 354R	56TB1-B 2	56P09- 94	OG TORQUE MOTOR RET
*	AA 34W	56TB1-B 2	56J11-H5	OG TORQUE MOTOR RET
*	A 298W	56TB1-B 3	56P07-J*	0 VDC IMU
*	AA 23W	56TB1-B 3	56J11-G2	0 VDC IMU
*	A 298L	56TB1-B 4	56P07-G*	MG ADA
*	AA 23L	56TB1-B 4	56J11-G1	MG ADA
	A 234B	56TB1-B 5	SHLD A234	IG CDU ERROR SIG RET
*	A 234R	56TB1-B 5	56P03-J	IG CDU ERROR SIG RET
*	AA 16W	56TB1-B 5	56J11-B1	IG CDU ERROR SIG RET
*	A 224W	56TB1-B 6	56P02-U	3200 CPS 2 V FEEDBACK LO
*	AA 42R	56TB1-B 6	56J11-G3	3200 CPS 2 V FEEDBACK LO
*	A 231W	56TB1-B 7	56P03-V	IMU GIMBAL AND GYRO ERROR SIG LO
*	A 363K	56TB1-B 7	56P09- 51	IMU GIMBAL AND GYRO ERROR SIG LO
*	AA 29K	56TB1-B 7	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO
*	AA155K	56TB1-B 7	56J15-B2	IMU GIMBAL AND GYRO ERROR SIG LO

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 17

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 430W	56TB1-K 1	56J09- 84	MODE LAMP TEST PWR	
*	A 4	56TB1-K 3	56P01- 48	COARSE ALIGN MODE COMMAND FROM AGC	
*	A 479L	56TB1-K 3	56J10- 22	COARSE ALIGN MODE COMMAND FROM AGC	308
*	A 3	56TB1-K 4	56P01- 38	ZERO ENCODER MODE COMMAND FROM AGC	
*	A 479W	56TB1-K 4	56J10- 21	ZERO ENCODER MODE COMMAND FROM AGC	307
*	A 5	56TB1-K 5	56P01- 13	FINE ALIGN MODE COMMAND FROM AGC	
*	A 479R	56TB1-K 5	56J10- 24	FINE ALIGN MODE COMMAND FROM AGC	310
*	A 7	56TB1-K 6	56P01- 58	ENTRY MODE COMMAND FROM AGC	
*	A 480R	56TB1-K 6	56J10- 25	ENTRY MODE COMMAND FROM AGC	311
*	A 154	56TB1-K 7	56J06- 12	MODE RELAY COMMON TO AGC	
*	A 480W	56TB1-K 7	56J10- 26	MODE RELAY COMMON TO AGC	312
*	A 521	56TB1-K 7	56J10- 13	MODE RELAY COMMON TO AGC	315
*	A 6	56TB1-K 8	56P01- 27	CDU MANUAL MODE COMMAND FROM AGC	
*	A 480L	56TB1-K 8	56J10- 23	CDU MANUAL MODE COMMAND FROM AGC	309
*	A 349	56TB1-L 2	56P09- 33	X PIP ERROR MONITOR	
*	AA120	56TB1-L 2	56J13-D2	X PIP ERROR MONITOR	
*	A 293W	56TB1-L 3	56P07-P	Y PIP TORQUE RET	
*	AA122W	56TB1-L 3	56J13-M3	Y PIP TORQUE RET	
*	A 293R	56TB1-L 4	56P07-N	Y PIP TORQUE +	
*	AA122R	56TB1-L 4	56J13-L3	Y PIP TORQUE +	
*	A 294L	56TB1-L 5	56P07-W	X PIP TORQUE -	
*	AA119L	56TB1-L 5	56J13-L1	X PIP TORQUE -	
*	A 294W	56TB1-L 6	56P07-V	X PIP TORQUE RET	
*	AA119W	56TB1-L 6	56J13-K1	X PIP TORQUE RET	
*	A 290L	56TB1-L 7	56P07-F	X GYRO TORQUE -	
*	AA124L	56TB1-L 7	56J13-G6	X GYRO TORQUE -	
*	A 290W	56TB1-L 8	56P07-E	X GYRO TORQUE RET	
*	AA124W	56TB1-L 8	56J13-F6	X GYRO TORQUE RET	
*	A 17L	56TB1-M 1	56P01-106	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
*	A 17K	56TB1-M 1	56P01- 90	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
*	A 350	56TB1-M 2	56P09- 43	Y PIP ERROR MONITOR	
*	AA123	56TB1-M 2	56J13-F2	Y PIP ERROR MONITOR	
*	A 296R	56TB1-M 3	56P07-Z	Y PIP ERROR HI	
*	AA121W	56TB1-M 3	56J13-A3	Y PIP ERROR HI	
*	A 293L	56TB1-M 4	56P07-R	Y PIP TORQUE -	
*	AA122L	56TB1-M 4	56J13-N3	Y PIP TORQUE -	
*	A 294R	56TB1-M 5	56P07-U	X PIP TORQUE +	
*	AA119R	56TB1-M 5	56J13-H1	X PIP TORQUE +	
*	A 295W	56TB1-M 6	56P07-Y	X PIP ERROR LO	
*	AA118R	56TB1-M 6	56J13-B1	X PIP ERROR LO	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 20

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INCHES

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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA512	56TB1-S 2	56TB1-R 2	400 CPS 6 V LO
	A 292B	56TB1-S 3	SHLD A292	0 VDC IMU
	AA127B	56TB1-S 3	SHLD AA127	0 VDC IMU
	AA575	56TB1-S 3	56TB1-S 6	0 VDC IMU
	AA591	56TB1-S 3	56TB2-M 4	0 VDC IMU
*	AA 46	56TB1-S 3	56J11-P6	0 VDC IMU
*	A 211	56TB1-S 5	56J08- 92	0 VDC IMU
*	A 343	56TB1-S 5	56P09- 23	0 VDC IMU
*	A 452	56TB1-S 5	56P10- 13	0 VDC IMU
*	A 556	56TB1-S 5	56E 19	0 VDC IMU
*	AA601	56TB1-S 5	56TB1-S 7	0 VDC IMU
	A 291B	56TB1-S 6	SHLD A291	0 VDC IMU
	AA133B	56TB1-S 6	SHLD AA133	0 VDC IMU
	AA576	56TB1-S 6	56TB1-S 8	0 VDC IMU
*	AA 98	56TB1-S 6	56J12-R5	0 VDC IMU
*	AA575	56TB1-S 6	56TB1-S 3	0 VDC IMU
	AA601	56TB1-S 7	56TB1-S 5	0 VDC IMU
	AA602	56TB1-S 7	56TB2-D 8	0 VDC IMU
*	AA600	56TB1-S 7	56TB1-S 8	0 VDC IMU
	A 289B	56TB1-S 8	SHLD A289	0 VDC IMU
	AA136B	56TB1-S 8	SHLD AA136	0 VDC IMU
	AA600	56TB1-S 8	56TB1-S 7	0 VDC IMU
*	AA576	56TB1-S 8	56TB1-S 6	0 VDC IMU
*	AA588	56TB1-S 8	56TB1-N 4	0 VDC IMU
*	A 266R	56TB1-T 1	56P05-L	400 CPS VAR ILLUM PWR
*	A 314R	56TB1-T 1	56P08-R*	400 CPS VAR ILLUM PWR
*	A 180W	56TB1-T 2	56J08- 36	400 CPS 6 V LO
*	A 266W	56TB1-T 2	56P05-M	400 CPS 6 V LO
*	A 314W	56TB1-T 2	56P08-S*	400 CPS 6 V LO
*	A 457L	56TB1-T 2	56P10- 81	400 CPS 6 V LO
*	AA511	56TB1-T 2	56TB1-S 2	400 CPS 6 V LO
*	A 292W	56TB1-T 3	56P07-L	Z PIP TORQUE RET
*	AA127W	56TB1-T 3	56J14-P3	Z PIP TORQUE RET
*	A 297W	56TB1-T 4	56P07-C*	Z PIP ERROR LO
*	AA126R	56TB1-T 4	56J14-A2	Z PIP ERROR LO
*	A 297R	56TB1-T 5	56P07-B*	Z PIP ERROR HI
*	AA126W	56TB1-T 5	56J14-A1	Z PIP ERROR HI
*	A 291R	56TB1-T 6	56P07-G	Y GYRO TORQUE +
*	AA133R	56TB1-T 6	56J14-M1	Y GYRO TORQUE +
*	A 351	56TB1-T 7	56P09- 44	Z PIP ERROR MONITOR

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR
SHEET 22

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA128	56TB1-T 7	56J14-H6	Z PIP ERROR MONITOR
*	A 289R	56TB1-T 8	56P07-A	Z GYRO TORQUE +
*	AA136R	56TB1-T 8	56J14-L6	Z GYRO TORQUE +
*	A 22	56TB1-U 2	56P01- 26	IMU DELAY LIGHT HI
*	A 193	56TB1-U 2	56J08- 42	IMU DELAY LIGHT HI
*	A 345	56TB1-U 2	56P09- 46	IMU DELAY LIGHT HI
*	A 292L	56TB1-U 3	56P07-M	Z PIP TORQUE -
*	AA127L	56TB1-U 3	56J14-P2	Z PIP TORQUE -
*	A 292R	56TB1-U 4	56P07-K	Z PIP TORQUE +
*	AA127R	56TB1-U 4	56J14-P1	Z PIP TORQUE +
*	A 291W	56TB1-U 5	56P07-H	Y GYRO TORQUE RET
*	AA133W	56TB1-U 5	56J14-M3	Y GYRO TORQUE RET
*	A 291L	56TB1-U 6	56P07-J	Y GYRO TORQUE -
*	AA133L	56TB1-U 6	56J14-M2	Y GYRO TORQUE -
*	A 289W	56TB1-U 7	56P07-B	Z GYRO TORQUE RET
*	AA136W	56TB1-U 7	56J14-N6	Z GYRO TORQUE RET
*	A 289L	56TB1-U 8	56P07-C	Z GYRO TORQUE -
*	AA136L	56TB1-U 8	56J14-M6	Z GYRO TORQUE -

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR
SHEET 23

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 295R	56TB1-M 7	56P07-X	X PIP ERROR HI
*	AA118W	56TB1-M 7	56J13-A1	X PIP ERROR HI
*	A 290R	56TB1-M 8	56P07-D	X GYRO TORQUE +
*	AA124R	56TB1-M 8	56J13-D6	X GYRO TORQUE +
*	A 430L	56TB1-N 1	56J09- 64	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
*	A 430K	56TB1-N 1	56J09- 63	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
*	A 296W	56TB1-N 2	56P07-A*	Y PIP ERROR LO
*	AA121R	56TB1-N 2	56J13-B3	Y PIP ERROR LO
*	A 180R	56TB1-N 3	56J08- 55	PROJECTION LAMP HI INTENSITY
*	A 419R	56TB1-N 3	56J09- 55	PROJECTION LAMP HI INTENSITY
	A 293B	56TB1-N 4	SHLD A293	0 VDC IMU
	AA122B	56TB1-N 4	SHLD AA122	0 VDC IMU
	AA573	56TB1-N 4	56TB1-N 5	0 VDC IMU
	AA588	56TB1-N 4	56TB1-S 8	0 VDC IMU
	AA589	56TB1-N 4	56TB2-M 5	0 VDC IMU
*	A 543	56TB1-N 4	56P12-D	0 VDC IMU
	A 294B	56TB1-N 5	SHLD A294	0 VDC IMU
	AA119B	56TB1-N 5	SHLD AA119	0 VDC IMU
	AA574	56TB1-N 5	56TB1-N 8	0 VDC IMU
*	AA 99	56TB1-N 5	56J12-R2	0 VDC IMU
*	AA573	56TB1-N 5	56TB1-N 4	0 VDC IMU
	A 290B	56TB1-N 8	SHLD A290	0 VDC IMU
	AA124B	56TB1-N 8	SHLD AA124	0 VDC IMU
*	AA100	56TB1-N 8	56J12-R4	0 VDC IMU
*	AA574	56TB1-N 8	56TB1-N 5	0 VDC IMU
*	AA587	56TB1-N 8	56TB1-D 8	0 VDC IMU
*	A 17R	56TB1-R 1	56P01-103	400 CPS VAR ILLUM PWR
*	A 17W	56TB1-R 1	56P01-108	400 CPS VAR ILLUM PWR
*	A 430R	56TB1-R 1	56J09- 54	400 CPS VAR ILLUM PWR
	AA512	56TB1-R 2	56TB1-S 2	400 CPS 6 V LO
*	A 457R	56TB1-R 2	56P10- 94	400 CPS 6 V LO
*	A 180L	56TB1-R 3	56J08- 46	PROJECTION LAMP LO INTENSITY
*	A 419W	56TB1-R 3	56J09- 46	PROJECTION LAMP LO INTENSITY
*	A 153W	56TB1-S 1	56J06-107	400 CPS VAR ILLUM PWR
*	A 561R	56TB1-S 1	56E 9	400 CPS VAR ILLUM PWR
	AA511	56TB1-S 2	56TB1-T 2	400 CPS 6 V LO
*	A 153R	56TB1-S 2	56J06-108	400 CPS 6 V LO
*	A 180K	56TB1-S 2	56J08- 19	400 CPS 6 V LO
*	A 457W	56TB1-S 2	56P10- 95	400 CPS 6 V LO
*	A 561W	56TB1-S 2	56E 10	400 CPS 6 V LO

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR
SHEET 21

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 1W	56TB2-A 1	56P01- 95	PANEL BRIGHTNESS CONTROL
*	A 431W	56TB2-A 1	56J09- 44	PANEL BRIGHTNESS CONTROL
*	A 1R	56TB2-A 2	56P01- 80	PANEL BRIGHTNESS CONTROL
*	A 431R	56TB2-A 2	56J09- 32	PANEL BRIGHTNESS CONTROL
	A 92B	56TB2-A 4	SHLD A 92	OG CDU ENCODER COM
*	A 92R	56TB2-A 4	56J03- 94	OG CDU ENCODER COM
*	AA163R	56TB2-A 4	56J15-D3	OG CDU ENCODER COM
	A 45B	56TB2-A 5	SHLD A 45	IG CDU ENCODER COM
*	A 45R	56TB2-A 5	56J01- 94	IG CDU ENCODER COM
*	AA161R	56TB2-A 5	56J15-C1	IG CDU ENCODER COM
*	A 69L	56TB2-A 6	56J02-108	MG CDU ENCODER PHASE 2
*	AA162R	56TB2-A 6	56J15-D2	MG CDU ENCODER PHASE 2
*	A 220R	56TB2-A 7	56P02-J	SIN AMG 16X S2
*	AA172W	56TB2-A 7	56J15-F8	SIN AMG 16X S2
*	A 226R	56TB2-A 8	56P02-Y	SIN AIG 16X S2
*	AA171W	56TB2-A 8	56J15-D8	SIN AIG 16X S2
*	A 11	56TB2-B 1	56P01- 69	LOCK CDU RELAY CONTROL
*	AA174	56TB2-B 1	56J15-S3	LOCK CDU RELAY CONTROL
*	A 8	56TB2-B 2	56P01- 12	ZERO ENCODER RELAY CONTROL
*	AA173	56TB2-B 2	56J15-S1	ZERO ENCODER RELAY CONTROL
*	A 92W	56TB2-B 4	56J03-107	OG CDU ENCODER PHASE 1
*	AA163W	56TB2-B 4	56J15-D4	OG CDU ENCODER PHASE 1
*	A 45W	56TB2-B 5	56J01-107	IG CDU ENCODER PHASE 1
*	AA161W	56TB2-B 5	56J15-C2	IG CDU ENCODER PHASE 1
*	A 69W	56TB2-B 6	56J02-107	MG CDU ENCODER PHASE 1
*	AA162W	56TB2-B 6	56J15-F1	MG CDU ENCODER PHASE 1
*	A 68R	56TB2-B 7	56J02-101	SIN AMG 16X S4
*	A 220W	56TB2-B 7	56P02-K	SIN AMG 16X S4
*	AA172R	56TB2-B 7	56J15-F9	SIN AMG 16X S4
*	A 44R	56TB2-B 8	56J01-101	SIN AIG 16X S4
*	A 226W	56TB2-B 8	56P02-Z	SIN AIG 16X S4
*	AA171R	56TB2-B 8	56J15-D7	SIN AIG 16X S4
*	A 10	56TB2-C 1	56P01- 5	FINE ALIGN RELAY CONTROL
*	AA170	56TB2-C 1	56J15-H4	FINE ALIGN RELAY CONTROL
*	A 30	56TB2-C 2	56P01- 37	BACKUP MODE RELAY CONTROL
*	A 159	56TB2-C 2	56J06- 37	BACKUP MODE RELAY CONTROL
*	AA156	56TB2-C 2	56J15-R1	BACKUP MODE RELAY CONTROL
*	A 92L	56TB2-C 4	56J03-108	OG CDU ENCODER PHASE 2
*	AA163L	56TB2-C 4	56J15-C3	OG CDU ENCODER PHASE 2
*	A 45L	56TB2-C 5	56J01-108	IG CDU ENCODER PHASE 2

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR
SHEET 24

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 150R	56J06- 1	56P01- 1	PITCH ATTITUDE ERROR METER
A 150W	56J06- 2	56P01- 2	PITCH ATTITUDE ERROR METER
A 161	56J06- 6	56P01- 6	ENTRY RELAY CONTROL RESET
A 160	56J06- 9	56P01- 9	MODE SWITCH INTERLOCK
A 154	56J06- 12	56TB1-K 7	MODE RELAY COMMON TO AGC
A 151R	56J06- 14	56P01- 14	YAW ATTITUDE ERROR METER
A 151W	56J06- 15	56P01- 15	YAW ATTITUDE ERROR METER
A 157	56J06- 18	56P01- 18	MODE RELAY COMMON TO D AND C ELECT
A 175	56J06- 22	56P01- 22	ATTITUDE CONTROL MODE LIGHT
A 165	56J06- 23	56P01- 23	FINE ALIGN RELAY CONTROL
A 166	56J06- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
A 167	56J06- 25	56P01- 25	ENTRY RELAY CONTROL
A 152W	56J06- 28	56P01- 28	ROLL ATTITUDE ERROR METER
A 152R	56J06- 29	56P01- 29	ROLL ATTITUDE ERROR METER
A 162	56J06- 34	56P01- 34	ZERO ENCODER RELAY CONTROL
A 163	56J06- 35	56P01- 35	COARSE ALIGN RELAY CONTROL
A 164	56J06- 36	56P01- 36	CDU MANUAL RELAY CONTROL
A 159	56J06- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL
A 177	56J06- 46	56P01- 46	ATTITUDE CONTROL MODE INTERLOCK
A 170	56J06- 56	56P01- 56	MANUAL ALIGN
A 155W	56J06- 68	56TB2-D 2	AGC COM
A 156W	56J06- 69	56J21-228	TRANSFER SWITCH INDICATION TO AGC 164A
A 169	56J06- 78	56TB2-L 4	0 VDC IMU
A 176	56J06- 79	56P01- 79	ENTRY MODE LIGHT
A 158	56J06- 81	56TB1-F 8	ATTUT CONT MODE COMMAND FROM AGC
A 178	56J06- 91	56TB3-F22	STRUCTURE GND
A 172	56J06- 92	56P01- 92	COARSE ALIGN MODE LIGHT
A 168	56J06- 93	56P01- 93	MODE RELAY COMMON
A 174	56J06- 94	56P01- 94	FINE ALIGN MODE LIGHT
A 171	56J06-104	56P01-104	ZERO ENCODER MODE LIGHT
A 173	56J06-105	56P01-105	CDU MANUAL MODE LIGHT
A 153W	56J06-107	56TB1-S 1	400 CPS VAR ILLUM PWR
A 153R	56J06-108	56TB1-S 2	400 CPS 6 V LO

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 57

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 208	56J08- 17	56E 19	0 VDC IMU
A 202	56J08- 18	56TB2-S 8	GIMBAL LOCK LIGHT HI
A 180K	56J08- 19	56TB1-S 2	400 CPS 6 V LO
A 205	56J08- 28	56E 19	0 VDC IMU
A 215	56J08- 29	56TB3-F22	STRUCTURE GND
A 204	56J08- 30	56E 19	0 VDC IMU
A 194	56J08- 31	56E 19	0 VDC IMU
A 207	56J08- 32	56J22- 71	MASTER WARNING LIGHT LO
A 210R	56J08- 35	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
A 180W	56J08- 36	56TB1-T 2	400 CPS 6 V LO
A 203	56J08- 41	56TB3-B 4	ZERO ENCODER LIGHT HI
A 193	56J08- 42	56TB1-U 2	IMU DELAY LIGHT HI
A 206	56J08- 43	56J22- 72	MASTER WARNING LIGHT HI
A 210W	56J08- 45	56TB3-L 6	400 CPS 0.5 V PI PHASE
A 180L	56J08- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY
A 565	56J08- 50	56TB2-T 3	SPARE FAIL LIGHT HI
A 187	56J08- 51	56TB1-H 8	ERROR DETECT LIGHT HI
A 212	56J08- 52	56E 19	0 VDC IMU
A 196	56J08- 53	56J22- 38	MASTER ALARM LIGHT HI
A 197	56J08- 54	56J22- 37	MASTER ALARM LIGHT LO
A 180R	56J08- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY
A 188	56J08- 60	56TB3-S 6	IMU FAIL LIGHT HI
A 189	56J08- 61	56E 20	0 VDC IMU
A 192	56J08- 62	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 213	56J08- 63	56E 20	0 VDC IMU
A 209R	56J08- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED
A 181	56J08- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 40 CPS
A 179	56J08- 67	56TB2-S 3	+28 VDC MDV
A 182R	56J08- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC
A 195	56J08- 70	56E 19	0 VDC IMU
A 198	56J08- 71	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 200	56J08- 72	56TB3-B 3	CDU FAIL LIGHT HI
A 190	56J08- 73	56TB3-B 2	ACCEL FAIL LIGHT HI
A 209W	56J08- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED
A 184	56J08- 78	56TB2-S 7	STEP-UP-C
A 186	56J08- 79	56TB2-S 5	STEP-DOWN-C
A 182W	56J08- 81	56TB3-B12	400 CPS 26 V SLEW
A 214	56J08- 82	56TB2-D 6	0 VDC IMU
A 201	56J08- 83	56E 20	0 VDC IMU
A 191	56J08- 84	56E 20	0 VDC IMU

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 58

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 226B	56TB2-D 8	SHLD A226	0 VDC IMU
*	AA577	56TB2-D 8	56TB2-D 7	0 VDC IMU
*	AA602	56TB2-D 8	56TB1-S 7	0 VDC IMU
	A 24B	56TB2-F 2	SHLD A 24	IG CDU ERROR SIG RET
	A 39B	56TB2-F 2	SHLD A 39	IG CDU ERROR SIG RET
	A 364B	56TB2-F 2	SHLD A364	IG CDU ERROR SIG RET
	AA580	56TB2-F 2	56TB2-G 2	IG CDU ERROR SIG RET
	AA569R	56TB2-F 3	56E 60	
*	A 13R	56TB2-F 3	56E 61	
*	A 155R	56TB2-F 3	56E 55	
*	AA176R	56TB2-F 3	56E 59	
*	AA487R	56TB2-F 3	56J21-122	
*	A 385	56TB2-F 4	56P09- 32	0 VDC IMU
*	AA606	56TB2-F 4	56TB2-D 4	0 VDC IMU
	A 25B	56TB2-F 7	SHLD A 25	MG CDU ERROR SIG RET
	A 63B	56TB2-F 7	SHLD A 63	MG CDU ERROR SIG RET
	A 365B	56TB2-F 7	SHLD A365	MG CDU ERROR SIG RET
	AA579	56TB2-F 7	56TB2-G 7	MG CDU ERROR SIG RET
	A 42B	56TB2-G 1	SHLD A 42	IG CDU ERROR SIG RET
*	A 42W	56TB2-G 1	56J01- 90	IG CDU ERROR SIG RET
*	AA196R	56TB2-G 1	56J16-D2	IG CDU ERROR SIG RET
*	A 24W	56TB2-G 2	56P01- 71	IG CDU ERROR SIG RET
*	A 39W	56TB2-G 2	56J01- 45	IG CDU ERROR SIG RET
*	A 364W	56TB2-G 2	56P09- 82	IG CDU ERROR SIG RET
*	AA 15R	56TB2-G 2	56J11-B1	IG CDU ERROR SIG RET
*	AA195R	56TB2-G 2	56J16-D2	IG CDU ERROR SIG RET
*	AA580	56TB2-G 2	56TB2-F 2	IG CDU ERROR SIG RET
*	A 38W	56TB2-G 3	56J01- 57	IG CDU ERROR SIG RET S1
*	AA194R	56TB2-G 3	56J16-D2	IG CDU ERROR SIG RET
*	A 19R	56TB2-G 4	56P01- 11	800 CPS 28 V 1 PCT HI IMU
*	A 216R	56TB2-G 4	56P02-A	800 CPS 28 V 1 PCT HI IMU
*	A 563W	56TB2-G 4	56E 1	800 CPS 28 V 1 PCT HI IMU
*	AA222R	56TB2-G 4	56J16-S4	800 CPS 28 V 1 PCT HI IMU
*	AA409W	56TB2-G 4	56J20-F5	800 CPS 28 V 1 PCT HI IMU
*	A 216W	56TB2-G 5	56P02-B	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	AA222W	56TB2-G 5	56J16-P4	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
*	A 62W	56TB2-G 6	56J02- 57	MG CDU ERROR SIG RET
*	AA199R	56TB2-G 6	56J16-D4	MG CDU ERROR SIG RET
*	A 25W	56TB2-G 7	56P01- 83	MG CDU ERROR SIG RET
*	A 63W	56TB2-G 7	56J02- 45	MG CDU ERROR SIG RET

165B

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 26

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 365W	56TB2-G 7	56P09- 71	MG CDU ERROR SIG RET
*	AA 19R	56TB2-G 7	56J11-B2	MG CDU ERROR SIG RET
*	AA200R	56TB2-G 7	56J16-D4	MG CDU ERROR SIG RET
*	AA579	56TB2-G 7	56TB2-F 7	MG CDU ERROR SIG RET
	A 66B	56TB2-G 8	SHLD A 66	MG CDU ERROR SIG RET
*	A 66W	56TB2-G 8	56J02- 90	MG CDU ERROR SIG RET
*	AA201R	56TB2-G 8	56J16-D4	MG CDU ERROR SIG RET
*	A 42R	56TB2-H 1	56J01-104	IG CDU 16X ERROR SIG
*	AA196W	56TB2-H 1	56J16-C1	IG CDU 16X ERROR SIG
*	A 24R	56TB2-H 2	56P01- 70	IG CDU 1X ERROR SIG
*	A 39R	56TB2-H 2	56J01- 35	IG CDU 1X ERROR SIG S2
*	A 364R	56TB2-H 2	56P09- 96	IG CDU 1X ERROR SIG
*	AA 15W	56TB2-H 2	56J11-A1	IG CDU 1X ERROR SIG
*	AA195W	56TB2-H 2	56J16-C2	IG CDU 1X ERROR SIG
*	A 38R	56TB2-H 3	56J01- 67	IG CDU 1/2X ERROR SIG S3
*	AA194W	56TB2-H 3	56J16-D1	IG CDU 1/2X ERROR SIG
*	A 19W	56TB2-H 4	56P01- 10	800 CPS 28 V 1 PCT LO IMU
*	A 563R	56TB2-H 4	56E 2	800 CPS 28 V 1 PCT LO IMU
*	AA222L	56TB2-H 4	56J16-S3	800 CPS 28 V 1 PCT LO IMU
*	AA409R	56TB2-H 4	56J20-F6	800 CPS 28 V 1 PCT LO IMU
	A 562	56TB2-H 5	56E 5	ZEROING RSVR 800 CPS
*	AA222K	56TB2-H 5	56J16-R4	ZEROING RSVR 800 CPS
*	A 62R	56TB2-H 6	56J02- 67	MG CDU 1/2X ERROR SIG
*	AA199W	56TB2-H 6	56J16-D3	MG CDU 1/2X ERROR SIG
*	A 25R	56TB2-H 7	56P01- 82	MG CDU 1X ERROR SIG
*	A 63R	56TB2-H 7	56J02- 35	MG CDU 1X ERROR SIG
*	A 365R	56TB2-H 7	56P09- 70	MG CDU 1X ERROR SIG
*	AA 19W	56TB2-H 7	56J11-A2	MG CDU 1X ERROR SIG
*	AA200W	56TB2-H 7	56J16-C4	MG CDU 1X ERROR SIG
*	A 66R	56TB2-H 8	56J02-104	MG CDU 16X ERROR SIG
*	AA201W	56TB2-H 8	56J16-C3	MG CDU 16X ERROR SIG
*	A 321R	56TB2-K 1	56P09- 45	800 CPS 28 V 1 PCT HI OPTICS
*	A 416R	56TB2-K 1	56J09- 80	800 CPS 28 V 1 PCT HI OPTICS
*	A 558R	56TB2-K 1	56E 14	800 CPS 28 V 1 PCT HI OPTICS
*	AA224W	56TB2-K 1	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS
*	AA557	56TB2-K 1	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
	AA557	56TB2-K 2	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
*	A 265R	56TB2-K 2	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS
*	A 301R	56TB2-K 2	56P08-J	800 CPS 28 V 1 PCT HI OPTICS
*	A 322R	56TB2-K 2	56P09- 56	800 CPS 28 V 1 PCT HI OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 27

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA161L	56TB2-C 5	56J15-D1	IG CDU ENCODER PHASE 2
	A 69B	56TB2-C 6	SHLD A 69	MG CDU ENCODER COM
*	A 69R	56TB2-C 6	56J02- 94	MG CDU ENCODER COM
*	AA162L	56TB2-C 6	56J15-F2	MG CDU ENCODER COM
*	A 68W	56TB2-C 7	56J02- 87	SIN AMG 16X TO CDU
*	AA172L	56TB2-C 7	56J15-D9	SIN AMG 16X TO CDU
*	A 44W	56TB2-C 8	56J01- 87	SIN AIG 16X TO CDU
*	AA171L	56TB2-C 8	56J15-F7	SIN AIG 16X TO CDU
*	A 557	56TB2-D 1	56E 8	+28 VDC CDU NOT LOCK
*	AA177	56TB2-D 1	56J15-R6	+28 VDC CDU NOT LOCK
	AA569W	56TB2-D 2	56J16-B7	AGC COM
*	A 13W	56TB2-D 2	56P01- 68	AGC COM
*	A 155W	56TB2-D 2	56J06- 68	AGC COM
*	AA176W	56TB2-D 2	56J15-B3	AGC COM
*	AA487W	56TB2-D 2	56J21-121	AGC COM
	A 13B	56TB2-D 3	SHLD A 13	AGC SIG 178 SHLD RET
	A 155B	56TB2-D 3	SHLD A155	AGC SIG 178 SHLD RET
	AA176B	56TB2-D 3	SHLD AA176	AGC SIG 178 SHLD RET
	AA487B	56TB2-D 3	SHLD AA487	AGC SIG 178 SHLD RET
*	AA561	56TB2-D 3	56E 57	AGC SIG 178 SHLD RET
*	AA569A	56TB2-D 3	SHLD AA569	AGC SIG 178 SHLD RET
	AA606	56TB2-D 4	56TB2-F 4	0 VDC IMU
	AA608	56TB2-D 4	56E 27	0 VDC IMU
*	A 287	56TB2-D 4	56P06-E	0 VDC IMU
*	AA605	56TB2-D 4	56TB2-D 5	0 VDC IMU
	A 458	56TB2-D 5	56E 48	0 VDC IMU
	AA605	56TB2-D 5	56TB2-D 4	0 VDC IMU
*	A 384	56TB2-D 5	56P09- 84	0 VDC IMU
*	A 550	56TB2-D 5	56E 21	0 VDC IMU
*	AA604	56TB2-D 5	56TB2-D 6	0 VDC IMU
	AA604	56TB2-D 6	56TB2-D 5	0 VDC IMU
*	A 214	56TB2-D 6	56J08- 82	0 VDC IMU
*	A 450	56TB2-D 6	56J09- 26	0 VDC IMU
*	A 549	56TB2-D 6	56E 20	0 VDC IMU
*	AA603	56TB2-D 6	56TB2-D 7	0 VDC IMU
	A 68B	56TB2-D 7	SHLD A 68	0 VDC IMU
	A 220B	56TB2-D 7	SHLD A220	0 VDC IMU
	AA577	56TB2-D 7	56TB2-D 8	0 VDC IMU
	AA603	56TB2-D 7	56TB2-D 6	0 VDC IMU
	A 44B	56TB2-D 8	SHLD A 44	0 VDC IMU

165A

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 25

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 76W	56TB2-K 3	56J02- 32	MG CDU MDA OUTPUT
*	AA203R	56TB2-K 3	56J16-P3	MG CDU MDA OUTPUT
	AA555	56TB2-K 4	56TB2-L 4	0 VDC IMU
*	A 52R	56TB2-K 4	56J01- 43	0 VDC IMU
*	A 76R	56TB2-K 4	56J02- 43	0 VDC IMU
*	A 97R	56TB2-K 4	56J03- 43	0 VDC IMU
*	AA223	56TB2-K 4	56J16-P2	0 VDC IMU
*	A 97W	56TB2-K 5	56J03- 32	OG CDU MDA OUTPUT
*	AA215R	56TB2-K 5	56J16-N2	OG CDU MDA OUTPUT
*	A 97L	56TB2-K 6	56J03- 31	OG CDU MDA OUTPUT
*	AA215W	56TB2-K 6	56J16-N1	OG CDU MDA OUTPUT
*	A 102	56TB2-K 8	56J03- 30	+28 VDC IMU FOR OG MDA
*	AA212	56TB2-K 8	56J16-T2	+28 VDC IMU FOR OG MDA
*	A 321W	56TB2-L 1	56P09- 55	800 CPS 28 V 1 PCT LO OPTICS
*	A 416W	56TB2-L 1	56J09- 69	800 CPS 28 V 1 PCT LO OPTICS
*	A 558W	56TB2-L 1	56E 13	800 CPS 28 V 1 PCT LO OPTICS
*	AA224R	56TB2-L 1	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
*	AA556	56TB2-L 1	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
	AA556	56TB2-L 2	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
*	A 265W	56TB2-L 2	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
*	A 301W	56TB2-L 2	56P08-K	800 CPS 28 V 1 PCT LO OPTICS
*	A 322W	56TB2-L 2	56P09- 57	800 CPS 28 V 1 PCT LO OPTICS
*	A 76L	56TB2-L 3	56J02- 31	MG CDU MDA OUTPUT
*	AA203W	56TB2-L 3	56J16-R3	MG CDU MDA OUTPUT
*	A 20	56TB2-L 4	56P01- 78	0 VDC IMU
*	A 169	56TB2-L 4	56J06- 78	0 VDC IMU
*	AA555	56TB2-L 4	56TB2-K 4	0 VDC IMU
*	A 52L	56TB2-L 5	56J01- 31	IG CDU MDA OUTPUT
*	AA198W	56TB2-L 5	56J16-R1	IG CDU MDA OUTPUT
*	A 52W	56TB2-L 6	56J01- 32	IG CDU MDA OUTPUT
*	AA198R	56TB2-L 6	56J16-P1	IG CDU MDA OUTPUT
	A 553	56TB2-L 8	56E 15	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 245W	56TB2-L 8	56P05-E	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	A 299W	56TB2-L 8	56P08-B	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
*	AA225R	56TB2-L 8	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA581	56TB2-M 1	56TB2-M 2	0 VDC IMU
*	A 546	56TB2-M 1	56P12-F	0 VDC IMU
*	AA 43	56TB2-M 1	56J11-R3	0 VDC IMU
*	AA461	56TB2-M 1	56J20-H2	0 VDC IMU
	AA582	56TB2-M 2	56TB2-M 3	0 VDC IMU

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 28

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INCHES
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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 56	56TB2-N 5	56J01- 30	+28 VDC IMU FOR IG MDA
*	AA210	56TB2-N 5	56J16-S1	+28 VDC IMU FOR IG MDA
*	A 96R	56TB2-N 6	56J03-106	OG CDU MDA TACH SIG
*	AA214R	56TB2-N 6	56J16-A5	OG CDU MDA TACH SIG
*	A 87W	56TB2-N 7	56J03- 6	COS AOG 1X S1
*	A 232W	56TB2-N 7	56P03-E	COS AOG 1X S1
*	A 360W	56TB2-N 7	56P09- 31	COS AOG 1X S1
*	AA204R	56TB2-N 7	56J16-C8	COS AOG 1X S1
*	AA506R	56TB2-N 7	56J22-142	COS AOG 1X S1
*	A 232R	56TB2-N 8	56P03-D	COS AOG 1X S3
*	A 360R	56TB2-N 8	56P09- 30	COS AOG 1X S3
*	AA204W	56TB2-N 8	56J16-B8	COS AOG 1X S3
*	AA506W	56TB2-N 8	56J22-141	COS AOG 1X S3
*	A 85W	56TB2-R 1	56J03- 57	OG CDU ERROR SIG RET
*	AA206R	56TB2-R 1	56J16-D6	OG CDU ERROR SIG RET
*	A 23W	56TB2-R 2	56P01- 97	OG CDU ERROR SIG RET
*	A 86W	56TB2-R 2	56J03- 45	OG CDU ERROR SIG RET
*	A 366W	56TB2-R 2	56P09- 83	OG CDU ERROR SIG RET
*	AA 21R	56TB2-R 2	56J11-B3	OG CDU ERROR SIG RET
*	AA207R	56TB2-R 2	56J16-D6	OG CDU ERROR SIG RET
*	AA578	56TB2-R 2	56TB2-S 2	OG CDU ERROR SIG RET
	A 89B	56TB2-R 3	SHLD A 89	OG CDU ERROR SIG RET
	A 338B	56TB2-R 3	SHLD A338	OG CDU ERROR SIG RET
	AA571R	56TB2-R 3	56J17-B2	OG CDU ERROR SIG RET
*	A 89W	56TB2-R 3	56J03- 90	OG CDU ERROR SIG RET
*	A 338W	56TB2-R 3	56P09- 38	OG CDU ERROR SIG RET
*	AA208W	56TB2-R 3	56J16-D6	OG CDU ERROR SIG RET
*	AA571A	56TB2-R 3	SHLD AA571	OG CDU ERROR SIG RET
*	A 9	56TB2-R 4	56P01- 57	ENTRY RELAY CONTROL
*	AA221	56TB2-R 4	56J16-M1	ENTRY RELAY CONTROL
*	A 80	56TB2-R 5	56J02- 30	+28 VDC IMU FOR MG MDA
*	AA211	56TB2-R 5	56J16-T1	+28 VDC IMU FOR MG MDA
*	A 96L	56TB2-R 6	56J03-105	OG CDU MDA SLEW SIG
*	AA214W	56TB2-R 6	56J16-A6	OG CDU MDA SLEW SIG
	A 96B	56TB2-R 7	SHLD A 96	OG CDU MDA INPUT RET
*	A 96W	56TB2-R 7	56J03- 92	OG CDU MDA INPUT RET
*	AA214L	56TB2-R 7	56J16-B5	OG CDU MDA INPUT RET
*	A 87R	56TB2-R 8	56J03- 20	COS AOG 1X TO CDU
*	AA204L	56TB2-R 8	56J16-C9	COS AOG 1X TO CDU
	A 23B	56TB2-S 2	SHLD A 23	OG CDU ERROR SIG RET

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 30

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 86B	56TB2-S 2	SHLD A 86	OG CDU ERROR SIG RET
	A 366B	56TB2-S 2	SHLD A366	OG CDU ERROR SIG RET
	AA578	56TB2-S 2	56TB2-R 2	OG CDU ERROR SIG RET
*	A 179	56TB2-S 3	56J08- 67	+28 VDC MDV
*	A 410	56TB2-S 3	56J09- 67	+28 VDC MDV
*	A 185	56TB2-S 4	56J08- 93	STEP-DOWN-R
*	A 411	56TB2-S 4	56J09- 93	STEP-DOWN-R
*	A 186	56TB2-S 5	56J08- 79	STEP-DOWN-C
*	A 412	56TB2-S 5	56J09- 79	STEP-DOWN-C
*	A 183	56TB2-S 6	56J08-106	STEP-UP-R
*	A 413	56TB2-S 6	56J09-106	STEP-UP-R
*	A 184	56TB2-S 7	56J08- 78	STEP-UP-C
*	A 414	56TB2-S 7	56J09- 78	STEP-UP-C
*	A 202	56TB2-S 8	56J08- 18	GIMBAL LOCK LIGHT HI
*	A 455	56TB2-S 8	56P10- 24	GIMBAL LOCK LIGHT HI
*	A 101	56TB2-T 1	56J03- 89	OG CDU 16X RSVR LOAD
*	AA219	56TB2-T 1	56J16-F5	OG CDU 16X RSVR LOAD
*	A 466	56TB2-T 3	56J10- 7	SPARE FAIL LIGHT HI
*	A 565	56TB2-T 3	56J08- 50	SPARE FAIL LIGHT HI
*	A 219W	56TB2-T 5	56P02-H	COS AMG 16X S1
*	AA231R	56TB2-T 5	56J16-G3	COS AMG 16X S1
*	A 51L	56TB2-T 6	56J01-105	IG CDU MDA SLEW SIG
*	AA197W	56TB2-T 6	56J16-A2	IG CDU MDA SLEW SIG
	A 51B	56TB2-T 7	SHLD A 51	IG CDU MDA INPUT RET
*	A 51W	56TB2-T 7	56J01- 92	IG CDU MDA INPUT RET
*	AA197L	56TB2-T 7	56J16-B1	IG CDU MDA INPUT RET
*	A 88R	56TB2-T 8	56J03- 21	SIN AOG 1X TO CDU
*	AA205L	56TB2-T 8	56J16-B9	SIN AOG 1X TO CDU
*	A 100	56TB2-U 1	56J03- 34	OG CDU 1X RSVR LOAD
*	AA218	56TB2-U 1	56J16-F6	OG CDU 1X RSVR LOAD
*	A 67W	56TB2-U 4	56J02- 86	COS AMG 16X TO CDU
*	AA231L	56TB2-U 4	56J16-G4	COS AMG 16X TO CDU
*	A 67R	56TB2-U 5	56J02-100	COS AMG 16X S3
*	A 219R	56TB2-U 5	56P02-G	COS AMG 16X S3
*	AA231W	56TB2-U 5	56J16-H3	COS AMG 16X S3
*	A 51R	56TB2-U 6	56J01-106	IG CDU MDA TACH SIG
*	AA197R	56TB2-U 6	56J16-A1	IG CDU MDA TACH SIG
*	A 233W	56TB2-U 7	56P03-G	SIN AOG 1X S2
*	A 359R	56TB2-U 7	56P09- 16	SIN AOG 1X S2
*	AA205W	56TB2-U 7	56J16-A8	SIN AOG 1X S2

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 31

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 44	56TB2-M 2	56J11-R1	0 VDC IMU
*	AA581	56TB2-M 2	56TB2-M 1	0 VDC IMU
	AA583	56TB2-M 3	56TB2-M 4	0 VDC IMU
*	AA 45	56TB2-M 3	56J11-R2	0 VDC IMU
*	AA582	56TB2-M 3	56TB2-M 2	0 VDC IMU
	A 245B	56TB2-M 4	SHLD A245	0 VDC IMU
	A 418B	56TB2-M 4	SHLD A418	0 VDC IMU
	AA584	56TB2-M 4	56TB2-M 5	0 VDC IMU
*	A 533	56TB2-M 4	56P11-F	0 VDC IMU
*	AA583	56TB2-M 4	56TB2-M 3	0 VDC IMU
*	AA591	56TB2-M 4	56TB1-S 3	0 VDC IMU
	AA585	56TB2-M 5	56TB2-M 6	0 VDC IMU
*	AA584	56TB2-M 5	56TB2-M 4	0 VDC IMU
*	AA589	56TB2-M 5	56TB1-N 4	0 VDC IMU
	AA586	56TB2-M 6	56TB2-M 7	0 VDC IMU
	AA592	56TB2-M 6	56TB3-S 2	0 VDC IMU
*	AA585	56TB2-M 6	56TB2-M 5	0 VDC IMU
*	A 534	56TB2-M 7	56P11-E	0 VDC IMU
*	AA460	56TB2-M 7	56J20-G1	0 VDC IMU
*	AA539	56TB2-M 7	56TB2-M 8	0 VDC IMU
*	AA586	56TB2-M 7	56TB2-M 6	0 VDC IMU
	A 87B	56TB2-M 8	SHLD A 87	0 VDC IMU
	A 232B	56TB2-M 8	SHLD A232	0 VDC IMU
	A 360B	56TB2-M 8	SHLD A360	0 VDC IMU
	AA506B	56TB2-M 8	SHLD AA506	0 VDC IMU
	AA539	56TB2-M 8	56TB2-M 7	0 VDC IMU
*	A 85R	56TB2-N 1	56J03- 67	OG CDU 1/2X ERROR SIG
*	AA206W	56TB2-N 1	56J16-D5	OG CDU 1/2X ERROR SIG
*	A 23R	56TB2-N 2	56P01- 96	OG CDU 1X ERROR SIG
*	A 86R	56TB2-N 2	56J03- 35	OG CDU 1X ERROR SIG
*	A 366R	56TB2-N 2	56P09- 72	OG CDU 1X ERROR SIG
*	AA 21W	56TB2-N 2	56J11-A3	OG CDU 1X ERROR SIG
*	AA207W	56TB2-N 2	56J16-C6	OG CDU 1X ERROR SIG
	AA571W	56TB2-N 3	56J17-A2	OG CDU 16X ERROR SIG
*	A 89R	56TB2-N 3	56J03-104	OG CDU 16X ERROR SIG
*	A 338R	56TB2-N 3	56P09- 39	OG CDU 16X ERROR SIG
*	AA208R	56TB2-N 3	56J16-C5	OG CDU 16X ERROR SIG
*	A 299R	56TB2-N 4	56P08-A	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	A 418W	56TB2-N 4	56J09- 96	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
*	AA225W	56TB2-N 4	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 29

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA505R	56TB2-U 7	56J22-107	SIN AOG 1X S2
*	A 88W	56TB2-U 8	56J03- 7	SIN AOG 1X S4
*	A 233R	56TB2-U 8	56P03-F	SIN AOG 1X S4
*	A 359W	56TB2-U 8	56P09- 17	SIN AOG 1X S4
*	AA205R	56TB2-U 8	56J16-A9	SIN AOG 1X S4
*	AA505W	56TB2-U 8	56J22-139	SIN AOG 1X S4
	A 91B	56TB2-V 2	SHLD A 91	0 VDC IMU
	A 218B	56TB2-V 2	SHLD A218	0 VDC IMU
	AA540	56TB2-V 2	56TB2-V 3	0 VDC IMU
	A 217B	56TB2-V 3	SHLD A217	0 VDC IMU
	AA596	56TB2-V 3	56TB2-V 4	0 VDC IMU
*	AA540	56TB2-V 3	56TB2-V 2	0 VDC IMU
*	AA590	56TB2-V 3	56TB1-D 7	0 VDC IMU
*	AA594	56TB2-V 3	56TB3-S 2	0 VDC IMU
	A 90B	56TB2-V 4	SHLD A 90	0 VDC IMU
	AA597	56TB2-V 4	56TB2-V 5	0 VDC IMU
*	AA596	56TB2-V 4	56TB2-V 3	0 VDC IMU
	A 67B	56TB2-V 5	SHLD A 67	0 VDC IMU
	A 219B	56TB2-V 5	SHLD A219	0 VDC IMU
	AA598	56TB2-V 5	56TB2-V 6	0 VDC IMU
*	AA597	56TB2-V 5	56TB2-V 4	0 VDC IMU
	A 43B	56TB2-V 6	SHLD A 43	0 VDC IMU
	A 225B	56TB2-V 6	SHLD A225	0 VDC IMU
	AA599	56TB2-V 6	56TB2-V 8	0 VDC IMU
*	AA598	56TB2-V 6	56TB2-V 5	0 VDC IMU
	A 88B	56TB2-V 8	SHLD A 88	0 VDC IMU
	A 233B	56TB2-V 8	SHLD A233	0 VDC IMU
	A 359B	56TB2-V 8	SHLD A359	0 VDC IMU
	AA505B	56TB2-V 8	SHLD AA505	0 VDC IMU
*	AA599	56TB2-V 8	56TB2-V 6	0 VDC IMU
*	A 55	56TB2-W 1	56J01- 34	IG CDU 1X RSVR LOAD S1
*	AA216	56TB2-W 1	56J16-F2	IG CDU 1X RSVR LOAD
*	A 91W	56TB2-W 2	56J03- 87	SIN AOG 16X S4
*	A 218W	56TB2-W 2	56P02-F	SIN AOG 16X S4
*	AA213R	56TB2-W 2	56J16-D9	SIN AOG 16X S4
*	A 217W	56TB2-W 3	56P02-D	COS AOG 16X S1
*	AA209R	56TB2-W 3	56J16-F7	COS AOG 16X S1
*	A 90R	56TB2-W 4	56J03-100	COS AOG 16X S3
*	A 217R	56TB2-W 4	56P02-C	COS AOG 16X S3
*	AA209W	56TB2-W 4	56J16-D7	COS AOG 16X S3

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 32

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INCHES

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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 190	56TB3-B 2	56J08- 73	ACCEL FAIL LIGHT HI	
*	A 333	56TB3-B 2	56P09- 49	ACCEL FAIL LIGHT HI	
*	A 474L	56TB3-B 2	56J10- 5	ACCEL FAIL LIGHT HI	303
*	A 200	56TB3-B 3	56J08- 72	CDU FAIL LIGHT HI	
*	A 335	56TB3-B 3	56P09- 47	CDU FAIL LIGHT HI	
*	A 474R	56TB3-B 3	56J10- 4	CDU FAIL LIGHT HI	302
*	A 203	56TB3-B 4	56J08- 41	ZERO ENCODER LIGHT HI	
*	A 346	56TB3-B 4	56P09- 35	ZERO ENCODER LIGHT HI	
*	A 474W	56TB3-B 4	56J10- 3	ZERO ENCODER LIGHT HI	301
*	A 209W	56TB3-B 6	56J08- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 448W	56TB3-B 6	56J09- 77	400 CPS 0.5 V ZERO PHASE ADJUSTED	
*	A 374R	56TB3-B 7	56P09- 89	DIRECT SHAFT CONTROLLER HI (TEST)	
*	AA342R	56TB3-B 7	56J18-N4	DIRECT SHAFT CONTROLLER HI (TEST)	
*	A 374W	56TB3-B 8	56P09-102	DIRECT SHAFT CONTROLLER LO (TEST)	
*	AA342W	56TB3-B 8	56J18-M4	DIRECT SHAFT CONTROLLER LO (TEST)	
*	A 377R	56TB3-B 9	56P09-104	SXT SHAFT MDA OUTPUT HI (TEST)	
*	AA392R	56TB3-B 9	56J19-L3	SXT SHAFT MDA OUTPUT HI (TEST)	
*	A 377W	56TB3-B10	56P09-105	SXT SHAFT MDA OUTPUT LO (TEST)	
*	AA392W	56TB3-B10	56J19-K3	SXT SHAFT MDA OUTPUT LO (TEST)	
*	A 394	56TB3-B11	56J09- 72	ZERO OPTICS RELAY CONTROL	
*	AA337	56TB3-B11	56J18-R4	ZERO OPTICS RELAY CONTROL	
*	A 182W	56TB3-B12	56J08- 81	400 CPS 26 V SLEW	
*	A 409W	56TB3-B12	56J09- 81	400 CPS 26 V SLEW	
*	A 182R	56TB3-B13	56J08- 68	400 CPS 26 V MDV RSVR EXC	
*	A 409R	56TB3-B13	56J09- 68	400 CPS 26 V MDV RSVR EXC	
*	A 199	56TB3-B14	56J08- 95	400 CPS 26 V LO	
*	A 460	56TB3-B14	56P10- 49	400 CPS 26 V LO	
	AA514	56TB3-B15	56TB3-D15	0 VDC OPTICS	
*	AA537	56TB3-B15	56TB3-T15	0 VDC OPTICS	
*	AA538	56TB3-B15	56TB3-G 9	0 VDC OPTICS	
*	A 396	56TB3-C 1	56J09- 98	ACCEL BRIDGE AMP PIN 6	
*	AA257	56TB3-C 1	56J17-F7	ACCEL BRIDGE AMP PIN 6	
*	A 281R	56TB3-C 2	56P06-F*	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
*	AA250R	56TB3-C 2	56J17-P4	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
*	A 281W	56TB3-C 3	56P06-G*	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
*	A 320W	56TB3-C 3	56P09- 34	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
*	AA412R	56TB3-C 3	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
*	A 370	56TB3-C 4	56P09- 73	BLOWER CURRENT SENSOR (TELEMETERY)	
*	AA271	56TB3-C 4	56J17-F6	BLOWER CURRENT SENSOR (TELEMETERY)	
*	A 368	56TB3-C 5	56P09- 85	IRIG TEMP (TELEMETRY)	

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99974	A	1014607
SCALE-NONE	REV LTR	SHEET 34

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA273	56TB3-C 5	56J17-F4	IRIG TEMP (TELEMETRY)
*	A 209R	56TB3-C 6	56J08- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 448R	56TB3-C 6	56J09- 65	400 CPS 0.5 V PI PHASE ADJUSTED
*	A 373W	56TB3-C 7	56P09-101	DIRECT TRUNNION CONTROLLER LO (TEST)
*	AA340W	56TB3-C 7	56J18-M1	DIRECT TRUNNION CONTROLLER LO (TEST)
*	A 383W	56TB3-C 8	56P09- 99	TRUNNION CDU MDA LO (TEST)
*	AA341W	56TB3-C 8	56J18-M3	TRUNNION CDU MDA LO (TEST)
*	A 375R	56TB3-C 9	56P09- 90	SXT TRUNNION MDA OUTPUT HI (TEST)
*	AA391R	56TB3-C 9	56J19-L1	SXT TRUNNION MDA OUTPUT HI (TEST)
*	A 375W	56TB3-C10	56P09-103	SXT TRUNNION MDA OUTPUT LO (TEST)
*	AA391W	56TB3-C10	56J19-K1	SXT TRUNNION MDA OUTPUT LO (TEST)
*	A 122W	56TB3-C11	56J04- 32	SHAFT CDU MOTOR CONTROL WINDING
*	AA321	56TB3-C11	56J18-R2	SHAFT CDU MOTOR CONTROL WINDING
*	A 145W	56TB3-C12	56J05- 32	TRUNNION CDU MOTOR CONTROL WINDING
*	AA320	56TB3-C12	56J18-R1	TRUNNION CDU MOTOR CONTROL WINDING
*	A 65R	56TB3-C13	56J02- 21	SIN AMG 1X RET
*	A 222W	56TB3-C13	56P02-N	SIN AMG 1X RET S2
*	A 357R	56TB3-C13	56P09- 15	SIN AMG 1X RET
*	AA507W	56TB3-C13	56J22-144	SIN AMG 1X RET
*	A 65W	56TB3-C14	56J02- 7	SIN AMG 1X
*	A 222R	56TB3-C14	56P02-P	SIN AMG 1X S4
*	A 357W	56TB3-C14	56P09- 29	SIN AMG 1X
*	AA507R	56TB3-C14	56J22-111	SIN AMG 1X
	AA609	56TB3-C15	56TB3-D15	0 VDC OPTICS
*	A 540	56TB3-C15	56P12-G	0 VDC OPTICS
*	AA565	56TB3-C15	56TB3-K22	0 VDC OPTICS
*	AA566	56TB3-C15	56TB3-K21	0 VDC OPTICS
*	AA567	56TB3-C15	56TB3-K20	0 VDC OPTICS
*	A 300L	56TB3-C16	56P08-G	SCT TRUNNION MOTOR CONTROL WINDING BLK
*	A 376W	56TB3-C16	56P09- 92	SCT TRUNNION MOTOR CONTROL WIN[illegible]G
*	AA360W	56TB3-C16	56J19-T3	SCT TRUNNION MOTOR CONTROL WI[illegible]
*	A 300W	56TB3-C17	56P08-E	SCT TRUNNION MOTOR CONTROL WIN[illegible]
*	A 376R	56TB3-C17	56P09- 91	SCT TRUNNION MOTOR CONTROL WINDING
*	AA360R	56TB3-C17	56J19-T2	SCT TRUNNION MOTOR CONTROL WINDING
*	A 246R	56TB3-C18	56P05-P	+28 VDC OPTICS
*	A 259R	56TB3-C18	56P05-R	+28 VDC OPTICS
*	AA515	56TB3-C18	56TB3-M20	+28 VDC OPTICS
*	A 300R	56TB3-C19	56P08-F	+28 VDC OPTICS
*	A 308R	56TB3-C19	56P08-H	+28 VDC OPTICS
*	AA558	56TB3-C19	56TB3-M20	+28 VDC OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 35

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 75R	56TB2-W 5	56J02-106	MG CDU MDA TACH SIG
*	AA202R	56TB2-W 5	56J16-A3	MG CDU MDA TACH SIG
*	A 43R	56TB2-W 6	56J01-100	COS AIG 16X S3
*	A 225R	56TB2-W 6	56P02-W	COS AIG 16X S3
*	AA230W	56TB2-W 6	56J16-H1	COS AIG 16X S3
*	A 43W	56TB2-W 7	56J01- 86	COS AIG 16X TO CDU
*	AA230L	56TB2-W 7	56J16-G2	COS AIG 16X TO CDU
*	A 79	56TB2-X 1	56J02- 34	MG CDU 1X RSVR LOAD
*	AA217	56TB2-X 1	56J16-F4	MG CDU 1X RSVR LOAD
*	A 91R	56TB2-X 2	56J03-101	SIN AOG 16X TO CDU
*	AA213L	56TB2-X 2	56J16-F9	SIN AOG 16X TO CDU
*	A 218R	56TB2-X 3	56P02-E	SIN AOG 16X S2
*	AA213W	56TB2-X 3	56J16-D8	SIN AOG 16X S2
*	A 90W	56TB2-X 4	56J03- 86	COS AOG 16X TO CDU
*	AA209L	56TB2-X 4	56J16-F8	COS AOG 16X TO CDU
*	A 75L	56TB2-X 5	56J02-105	MG CDU MDA SLEW SIG
*	AA202W	56TB2-X 5	56J16-A4	MG CDU MDA SLEW SIG
	A 75B	56TB2-X 6	SHLD A 75	MG CDU MDA INPUT RET
*	A 75W	56TB2-X 6	56J02- 92	MG CDU MDA INPUT RET
*	AA202L	56TB2-X 6	56J16-B3	MG CDU MDA INPUT RET
*	A 225W	56TB2-X 7	56P02-X	COS AIG 16X S1
*	AA230R	56TB2-X 7	56J16-G1	COS AIG 16X S1

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 33

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 525	56TB3-C20	56P11-B	+28 VDC IMU BUSS A
*	AA428	56TB3-C20	56J20-N1	+28 VDC IMU BUSS A
*	A 526	56TB3-C21	56P11-C	+28 VDC IMU BUSS A
*	AA432	56TB3-C21	56J20-S1	+28 VDC IMU BUSS A
*	A 536	56TB3-C22	56P12-M	+28 VDC STBY BUSS B
*	AA443	56TB3-C22	56J20-R4	+28 VDC STBY BUSS B
*	A 439	56TB3-D 1	56J09- 94	0 VDC IMU
*	AA264	56TB3-D 1	56J17-M1	0 VDC IMU
*	A 320R	56TB3-D 2	56P09- 22	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA250W	56TB3-D 2	56J17-R4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA412W	56TB3-D 2	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	A 192	56TB3-D 3	56J08- 62	IMU TEMP CONT FAIL LIGHT HI
*	A 344	56TB3-D 3	56P09- 11	IMU TEMP CONT FAIL LIGHT HI
*	AA275	56TB3-D 3	56J17-P5	IMU TEMP CONT FAIL LIGHT HI
*	A 367	56TB3-D 4	56P09- 98	ACCEL TEMP (TELEMETRY)
*	AA272	56TB3-D 4	56J17-F5	ACCEL TEMP (TELEMETRY)
*	A 369	56TB3-D 5	56P09- 97	HTR CURRENT (TELEMETRY)
*	AA274	56TB3-D 5	56J17-F3	HTR CURRENT (TELEMETRY)
*	A 269	56TB3-D 6	56P05-D	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
*	A 417	56TB3-D 6	56J09- 82	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
*	A 373R	56TB3-D 7	56P09-100	DIRECT TRUNNION CONTROLLER HI (TEST)
*	AA340R	56TB3-D 7	56J18-N1	DIRECT TRUNNION CONTROLLER HI (TEST)
*	A 383R	56TB3-D 8	56P09- 86	TRUNNION CDU MDA HI (TEST)
*	AA341R	56TB3-D 8	56J18-N3	TRUNNION CDU MDA HI (TEST)
*	A 372R	56TB3-D 9	56P09- 87	SHAFT CDU MDA (TEST) HI
*	AA343R	56TB3-D 9	56J18-N6	SHAFT CDU MDA (TEST) HI
*	A 372W	56TB3-D10	56P09- 88	SHAFT CDU MDA (TEST) LO
*	AA343W	56TB3-D10	56J18-M6	SHAFT CDU MDA (TEST) LO
*	A 122L	56TB3-D11	56J04- 31	SHAFT CDU MOTOR CONTROL WINDING
*	AA322	56TB3-D11	56J18-P2	SHAFT CDU MOTOR CONTROL WINDING
*	A 145L	56TB3-D12	56J05- 31	TRUNNION CDU MOTOR CONTROL WINDING
*	AA319	56TB3-D12	56J18-P1	TRUNNION CDU MOTOR CONTROL WINDING
*	A 41R	56TB3-D13	56J01- 21	SIN AIG 1X RET P4
*	A 228R	56TB3-D13	56P02-F*	SIN AIG 1X RET S2
*	A 355R	56TB3-D13	56P09- 1	SIN AIG 1X RET
*	AA509W	56TB3-D13	56J22-116	SIN AIG 1X RET
*	A 41W	56TB3-D14	56J01- 7	SIN AIG 1X P2
*	A 228W	56TB3-D14	56P02-G*	SIN AIG 1X S4
*	A 355W	56TB3-D14	56P09- 14	SIN AIG 1X
*	AA509R	56TB3-D14	56J22-148	SIN AIG 1X

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99974	A	1014607
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INCHES

0 1 2

PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA501R	56J21-133	56E 34	0 VDC IMU	139B
*	AA135R	56J21-134	56J14-D6	- DZ GYRO RATE	147A
*	AA135W	56J21-135	56E 33	0 VDC IMU	147B
	AA491R	56J21-136	56J12-G2	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA491W	56J21-137	56E 29	COMPUTER 25.6 KPPS SYNC RET	154B
*	AA527	56J21-139	56TB3-G22	+28 VDC AGC BUSS B	168
*	AA528	56J21-140	56TB3-F20	0 VDC AGC	170
*	A 469	56J21-141	56J10- 72	SPARE	213
*	A 496R	56J21-142	56J10- 60	OUT 0 3	216A
*	A 496W	56J21-143	56E 22		216B
*	A 502R	56J21-144	56J10- 63	OUT 0 10	223A
*	A 502W	56J21-145	56E 22		223B
*	A 486R	56J21-146	56J10- 41	ALARM 2	230A
*	A 486W	56J21-147	56E 23		230B
*	A 492R	56J21-148	56J10- 51	ALARM 9	237A
*	A 492W	56J21-149	56E 24		237B
*	A 472R	56J21-150	56J10- 36	KEY CODE 3	203A
*	A 472W	56J21-151	56E 25		203B
	AA489W	56J21-152	56J16-A7	ZERO ENCODER MODE INDICATION TO AGC	158A
	AA489R	56J21-153	56E 60		158B
*	A 14W	56J21-154	56P01- 59	COARSE ALIGN MODE INDICATION TO AGC	159A
*	A 14R	56J21-155	56E 61		159B
	AA494W	56J21-156	56J18-L1	SHAFT CDU ENCODER + DELTA THETA	110A
	AA494R	56J21-157	56E 53	SHAFT CDU DAC LO	110B
*	AA 85W	56J21-158	56J12-D5	CDU FAIL	124A
*	AA 85R	56J21-159	56J12-F5	CDU FAIL RET	124B
	AA470R	56J21-160	56E 36	COMPUTER RET	135A
	AA470W	56J21-161	56J15-K6	- DELTA V Y	135B
*	AA529	56J21-162	56TB3-F19	AGC TEMP MONITOR NO 2	172
	AA492W	56J21-163	56J18-K2	SHAFT CDU + DELTA THETA COMMAND	116A
	AA492R	56J21-164	56E 52	SHAFT CDU DAC LO	116B
	AA483W	56J21-165	56J15-B7	MG CDU + DELTA THETA COMMAND	130A
	AA483R	56J21-166	56E 41	MG DAC MDA SIG LO	130B
*	AA134W	56J21-167	56J14-D5	+ DZ GYRO RATE	146A
*	AA134R	56J21-168	56E 33	0 VDC IMU	146B
	AA490W	56J21-169	56J12-G1	COMPUTER 25.6 KPPS IN PHASE SYNC	153A
	AA490R	56J21-170	56E 29	COMPUTER 25.6 KPPS SYNC RET	153B
*	A 512	56J21-173	56J10- 56	GND	239
*	A 513	56J21-174	56J10- 55	+3 V B	240
*	A 495R	56J21-175	56J10- 74	OUT 0 2	215A

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 495W	56J21-176	56E 22		215B
*	A 501R	56J21-177	56J10- 62	OUT 0 9	222A
*	A 501W	56J21-178	56E 22		222B
*	A 485R	56J21-179	56J10- 40	ALARM 1	229A
*	A 485W	56J21-180	56E 23		229B
*	A 491R	56J21-181	56J10- 53	ALARM 8	236A
*	A 491W	56J21-182	56E 24		236B
*	A 514R	56J21-183	56J10- 35	KEY CODE 2	202A
*	A 514W	56J21-184	56E 25		202B
*	A 515R	56J21-185	56J10- 47	OR OF C1 THUR C33	210A
*	A 515W	56J21-186	56E 25		210B
*	A 518A	56J21-187	SHLD A518	GROUP 3 SHIELD	250
	AA488W	56J21-188	56J15-A3	MANUAL CDU MODE INDICATION TO AGC	160A
	AA488R	56J21-189	56E 59		160B
	AA499W	56J21-190	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA499R	56J21-191	56E 51	TRUNNION CDU DAC LO	109B
	AA478R	56J21-192	56J15-C6	MG ENCODER - DELTA THETA	123A
	AA478W	56J21-193	56E 40	MG DAC MDA SIG LO	123B
	AA469R	56J21-194	56E 36	COMPUTER RET	134A
	AA469W	56J21-195	56J15-L6	+ DELTA V Y	134B
*	AA530	56J21-196	56TB3-G19	AGC TEMP MONITOR NO 1	171
	AA497R	56J21-197	56J18-L3	TRUNNION CDU - DELTA THETA COMMAND	115A
	AA497W	56J21-198	56E 50	TRUNNION CDU DAC LO	115B
	AA482R	56J21-199	56J15-C5	IG CDU - DELTA THETA COMMAND	129A
	AA482W	56J21-200	56E 39	IG DAC MDA SIG LO	129B
*	AA132R	56J21-201	56J14-D4	- DY GYRO RATE	145A
*	AA132W	56J21-202	56E 33	0 VDC IMU	145B
	AA503R	56J21-203	56J11-L6	COMPUTER 3200 PPS OUT OF PHASE SYNC	152A
	AA503W	56J21-204	56E 28	COMPUTER 3200 PPS SYNC RET	152B
*	AA531	56J21-207	56TB3-G22	+28 VDC AGC BUSS B	168
*	AA532	56J21-208	56TB3-F20	0 VDC AGC	170
*	A 520	56J21-209	56J10- 75	SPARE	247
*	A 494R	56J21-210	56J10- 73	OUT 0 1	214A
*	A 494W	56J21-211	56E 22		214B
*	A 500R	56J21-212	56J10- 61	OUT 0 8	221A
*	A 500W	56J21-213	56E 22		221B
*	A 484R	56J21-214	56J10- 18	OUT 0 15	228A
*	A 484W	56J21-215	56E 23		228B
*	A 490R	56J21-216	56J10- 43	ALARM 7	235A
*	A 490W	56J21-217	56E 24		235B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 434R	56J21- 89	56E 58		103B
	AA468R	56J21- 92	56E 35	COMPUTER RET	133A
	AA468W	56J21- 93	56J15-M6	- DELTA V X	133B
	AA471R	56J21- 94	56E 37	COMPUTER RET	137A
	AA471W	56J21- 95	56J15-K4	- DELTA V Z	137B
*	AA525	56J21- 96	56TB3-M19	+3 VDC AGC	175
	AA484R	56J21- 97	56J15-C7	MG CDU - DELTA THETA COMMAND	131A
	AA484W	56J21- 98	56E 41	MG DAC MDA SIG LO	131B
	AA502W	56J21- 99	56J13-N6	PIPA SWITCHING PULSE	140A
	AA502R	56J21-100	56E 34	0 VDC IMU	140B
*	AA157W	56J21-101	56J15-P1	GYRO RESET PULSE	148A
*	AA157R	56J21-102	56J15-R2	0 VDC IMU	148B
	AA500R	56J21-103	56J17-R3	COMPUTER 12.8 KPPS SYNC	155A
	AA500W	56J21-104	56E 27	0 VDC IMU	155B
	A 547B	56J21-107	SHLD A547	GROUP 2 SHIELD	245
*	A 477	56J21-108	56J10- 57	+13 V B	241
*	A 497R	56J21-109	56J10- 28	OUT 0 4	217A
*	A 497W	56J21-110	56E 22		217B
*	A 503R	56J21-111	56J10- 14	OUT 0 11	224A
*	A 503W	56J21-112	56E 23		224B
*	A 487R	56J21-113	56J10- 19	ALARM 3	231A
*	A 487W	56J21-114	56E 23		231B
*	A 493R	56J21-115	56J10- 64	ALARM 10	238A
*	A 493W	56J21-116	56E 24		238B
*	A 511R	56J21-117	56J10- 37	KEY CODE 4	204A
*	A 511W	56J21-118	56E 25		204B
	A 440W	56J21-119	56E 56	AGC COMMON	101A
	A 440R	56J21-120	56E 58		101B
	AA487W	56J21-121	56TB2-D 2	AGC COM	165A
	AA487R	56J21-122	56TB2-F 3		165B
	AA495W	56J21-123	56J18-K1	SHAFT CDU ENCODER - DELTA THETA	111A
	AA495R	56J21-124	56E 53	SHAFT CDU DAC LO	111B
	AA467R	56J21-125	56E 35	COMPUTER RET	132A
	AA467W	56J21-126	56J15-M5	+ DELTA V X	132B
	AA472R	56J21-127	56E 37	COMPUTER RET	136A
	AA472W	56J21-128	56J15-K5	+ DELTA V Z	136B
*	AA526	56J21-129	56TB3-D19	AGC TEMP MONITOR NO 3	173
	AA493R	56J21-130	56J18-L2	SHAFT CDU - DELTA THETA COMMAND	117A
	AA493W	56J21-131	56E 52	SHAFT CDU DAC LO	117B
	AA501W	56J21-132	56J13-N5	PIPA INTERROGATE PULSE	139A

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SIZE A
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SCALE-NONE
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 516R	56J21-218	56J10- 34	KEY CODE 1	201A
*	A 516W	56J21-219	56E 25		201B
*	A 517R	56J21-220	56J10- 48	ERROR RESET	208A
*	A 517W	56J21-221	56E 25		208B
*	A 15W	56J21-222	56P01- 49	FINE ALIGN MODE INDICATION TO AGC	161A
*	A 15R	56J21-223	56E 61		161B
*	A 27W	56J21-224	56P01- 76	ATTIT CONT MODE INDICATION TO AGC	162A
*	A 27R	56J21-225	56E 61		162B
*	A 16W	56J21-226	56P01- 39	ENTRY MODE INDICATION TO AGC	163A
*	A 16R	56J21-227	56E 61		163B
*	A 156W	56J21-228	56J06- 69	TRANSFER SWITCH INDICATION TO AGC	164A
*	A 156R	56J21-229	56E 55		164B
	AA498W	56J21-230	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA	108A
	AA498R	56J21-231	56E 51	TRUNNION CDU DAC LO	108B
	AA477W	56J21-232	56J15-B6	MG ENCODER + DELTA THETA	122A
	AA477R	56J21-233	56E 40	MG DAC MDA SIG LO	122B
*	AA423	56J21-234	56J20-H4	+28 VDC AGC	166
	AA496W	56J21-235	56J18-K3	TRUNNION CDU + DELTA THETA COMMAND	114A
	AA496R	56J21-236	56E 50	TRUNNION CDU DAC LO	114B
	AA481W	56J21-237	56J15-B5	IG CDU + DELTA THETA COMMAND	128A
	AA481R	56J21-238	56E 39	IG DAC MDA SIG LO	128B
*	AA131R	56J21-239	56J14-D3	+ DY GYRO RATE	144A
*	AA131W	56J21-240	56E 33	0 VDC IMU	144B
	AA504R	56J21-241	56J11-M6	COMPUTER 3200 PPS IN PHASE SYNC	151A
	AA504W	56J21-242	56E 28	COMPUTER 3200 PPS SYNC RET	151B

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR
SHEET 98

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 429	56J09- 1	56TB3-N15	0 VDC OPTICS	
A 392	56J09- 2	56TB3-M 3	TRUNNION ENCODER PIN 8	
A 389W	56J09- 3	56J22-193	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 387W	56J09- 4	56J22-233	PITCH ATTIT IMPULSE CONTR OUTPUT UP	
A 387L	56J09- 5	56J22-232	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN	
A 388L	56J09- 6	56J22-197	YAW ATTIT IMPULSE CONTR OUTPUT LEFT	
A 388R	56J09- 7	56J22-235	YAW ATTIT IMPULSE CONTR INPUT	
A 425R	56J09- 10	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI	
A 389R	56J09- 16	56J22-230	ROLL ATTIT IMPULSE CONTR INPUT	
A 389L	56J09- 17	56J22-192	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT	
A 387R	56J09- 18	56J22-195	PITCH ATTIT IMPULSE CONTR INPUT	
A 426R	56J09- 19	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI	
A 388W	56J09- 20	56J22-198	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT	
A 391	56J09- 21	56TB3-K 4	TRUNNION ENCODER PIN 9	
A 425W	56J09- 23	56TB3-M11	RSVR DRIVE AMP INPUT LO	
A 425L	56J09- 24	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
A 437W	56J09- 25	56J21- 54	OPTICS ZERO ENCODER	104A
A 450	56J09- 26	56TB2-D 6	0 VDC IMU	
* A 453	56J09- 29	56P10- 10		
A 433W	56J09- 30	56J21- 86	MARK	102A
A 434W	56J09- 31	56J21- 88	NOT MARK	103A
A 431R	56J09- 32	56TB2-A 2	PANEL BRIGHTNESS CONTROL	
A 426W	56J09- 33	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO	
A 427W	56J09- 34	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
A 427R	56J09- 35	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
A 420	56J09- 36	56E 56	AGC COMMON	
A 449R	56J09- 37	56J21- 18	OPTICS MODE SW COMPUTER INDICATION	106A
A 423	56J09- 38	56TB3-G 6	SHAFT CDU MOTOR EXC	
A 393W	56J09- 40	56J22-200	0 VDC FROM NAA	
A 393R	56J09- 41	56J22-237	+28 VDC FROM NAA	
A 415	56J09- 42	56E 56	AGC COMMON	
A 431W	56J09- 44	56TB2-A 1	PANEL BRIGHTNESS CONTROL	
A 419W	56J09- 46	56TB1-R 3	PROJECTION LAMP LO INTENSITY	
A 421W	56J09- 47	56TB3-F 7	TRUNNION CDU DAC LO	
A 422R	56J09- 48	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
A 424	56J09- 49	56TB3-F 6	TRUNNION CDU MOTOR EXC	
A 393L	56J09- 50	56J22-238	ATTITUDE DISABLE SIG TO NAA	
A 435	56J09- 51	56TB3-M22	+28 VDC MDV	
A 432K	56J09- 52	56P10-108	400 CPS 6 V LO	
A 432L	56J09- 53	56P10-107	400 CPS 6 V HI	

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99974	A	1014607
SCALE-NONE	REV LTR	SHEET 60

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 430R	56J09- 54	56TB1-R 1	400 CPS VAR ILLUM PWR	
A 419R	56J09- 55	56TB1-N 3	PROJECTION LAMP HI INTENSITY	
A 421R	56J09- 56	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
A 422W	56J09- 57	56TB3-F 8	SHAFT CDU DAC LO	
A 405	56J09- 58	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 404	56J09- 59	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL	
A 406	56J09- 60	56E 56	AGC COMMON	
A 432R	56J09- 61	56P10-106	400 CPS 5.5 V HI	
A 432W	56J09- 62	56P10- 93	400 CPS 5.5 V HI	
A 430K	56J09- 63	56TB1-N 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
A 430L	56J09- 64	56TB1-N 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT	
A 448R	56J09- 65	56TB3-C 6	400 CPS 0.5 V PI PHASE ADJUSTED	
A 408	56J09- 66	56TB3-H 6	MDV SLEW CONTROL 0.5 V 40 CPS	
A 410	56J09- 67	56TB2-S 3	+28 VDC MDV	
A 409R	56J09- 68	56TB3-B13	400 CPS 26 V MDV RSVR EXC	
A 416W	56J09- 69	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS	
A 407W	56J09- 70	56J21- 16	SXT PWR ON INDICATION TO AGC	105A
A 445	56J09- 71	56TB3-M20	+28 VDC OPTICS	
A 394	56J09- 72	56TB3-B11	ZERO OPTICS RELAY CONTROL	
A 390	56J09- 73	56TB3-F 3	CONDITION LAMP TEST	
A 403	56J09- 74	56TB3-H 5	IMU TEMP ALARM AMP PIN 15	
A 444	56J09- 75	56TB3-K 5	IMU TEMP ALARM AMP PIN 14	
A 400	56J09- 76	56TB3-L 5	IMU TEMP CONT K2 PIN 6	
A 448W	56J09- 77	56TB3-B 6	400 CPS 0.5 V ZERO PHASE ADJUSTED	
A 414	56J09- 78	56TB2-S 7	STEP-UP-C	
A 412	56J09- 79	56TB2-S 5	STEP-DOWN-C	
A 416R	56J09- 80	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS	
A 409W	56J09- 81	56TB3-B12	400 CPS 26 V SLEW	
A 417	56J09- 82	56TB3-D 6	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD	
A 436	56J09- 83	56TB3-L15	0 VDC OPTICS	
A 430W	56J09- 84	56TB1-K 1	MODE LAMP TEST PWR	
A 442	56J09- 85	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6	
A 398	56J09- 86	56TB3-L 1	IRIG TEMP GAIN SWITCH NC	
A 401L	56J09- 87	56TB3-H 1	IMU TEMP CONT AMP PIN 5	
A 401K	56J09- 88	56TB3-G 2	IMU TEMP CONT K2 PIN 5	
A 443	56J09- 89	56TB3-G 3	IRIG ZERO DEVIATION CHECK	
A 402	56J09- 90	56TB3-N 6	EMERG HTR CONT MODULE LO	
A 451	56J09- 91	56TB3-F22	STRUCTURE GND	
A 438	56J09- 92	56TB3-K 1	IMU TEMP ALARM AMP PIN 5	
A 411	56J09- 93	56TB2-S 4	STEP-DOWN-R	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 61

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 211	56J08- 92	56TB1-S 5	0 VDC IMU
A 185	56J08- 93	56TB2-S 4	STEP-DOWN-R
A 199	56J08- 95	56TB3-B14	400 CPS 26 V LO
A 183	56J08-106	56TB2-S 6	STEP-UP-R

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 59

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 439	56J09- 94	56TB3-D 1	0 VDC IMU
A 447	56J09- 95	56P10- 48	400 CPS 26 V HI
A 418W	56J09- 96	56TB2-N 4	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 395	56J09- 97	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 396	56J09- 98	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
A 428	56J09- 99	56TB3-L18	COSECANT RELAY CONTROL
A 401R	56J09-100	56TB3-G 1	IMU HTR CURRENT AMP PIN 5
A 401W	56J09-101	56TB3-H 2	IMU TEMP CONT K1 PIN 3
A 399	56J09-102	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
A 441	56J09-103	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
A 397	56J09-104	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
A 446	56J09-105	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
A 413	56J09-106	56TB2-S 6	STEP-UP-R

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 62

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 388W	56J22-198	56J09- 20	YAW ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 393W	56J22-200	56J09- 40	0 VDC FROM NAA
*	AA292	56J22-206	56J17-M3	0 VDC SPACECRAFT
*	AA175	56J22-227	56J15-S3	LOCK CDU RELAY CONTROL
*	AA220	56J22-228	56J16-L1	FINE ALIGN RELAY CONTROL
*	A 389R	56J22-230	56J09- 16	ROLL ATTIT IMPULSE CONTR INPUT
*	A 387L	56J22-232	56J09- 5	PITCH ATTIT IMPULSE CONTR OUTPUT DOWN
*	A 387W	56J22-233	56J09- 4	PITCH ATTIT IMPULSE CONTR OUTPUT UP
*	A 388R	56J22-235	56J09- 7	YAW ATTIT IMPULSE CONTR INPUT
*	A 393R	56J22-237	56J09- 41	+28 VDC FROM NAA
*	A 393L	56J22-238	56J09- 50	ATTITUDE DISABLE SIG TO NAA
*	AA293	56J22-243	56J17-L3	IMU TEMP LIGHT (MAIN PANEL)
*	AA 74	56J22-244	56J12-G3	ERROR DETECT LIGHT MAIN PANEL

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 100

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 150R	56P01- 1	56J06- 1	PITCH ATTITUDE ERROR METER
*	A 150W	56P01- 2	56J06- 2	PITCH ATTITUDE ERROR METER
	A 26	56P01- 4	56TB1-D 6	COARSE ALIGN RELAY CONTROL
	A 10	56P01- 5	56TB2-C 1	FINE ALIGN RELAY CONTROL
*	A 161	56P01- 6	56J06- 6	ENTRY RELAY CONTROL RESET
	A 21	56P01- 7	56TB3-S21	+28 VDC IMU
*	A 160	56P01- 9	56J06- 9	MODE SWITCH INTERLOCK
	A 19W	56P01- 10	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
	A 19R	56P01- 11	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
	A 8	56P01- 12	56TB2-B 2	ZERO ENCODER RELAY CONTROL
	A 5	56P01- 13	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC
*	A 151R	56P01- 14	56J06- 14	YAW ATTITUDE ERROR METER
*	A 151W	56P01- 15	56J06- 15	YAW ATTITUDE ERROR METER
*	A 157	56P01- 18	56J06- 18	MODE RELAY COMMON TO D AND C ELECT
*	A 175	56P01- 22	56J06- 22	ATTITUDE CONTROL MODE LIGHT
*	A 165	56P01- 23	56J06- 23	FINE ALIGN RELAY CONTROL
	A 12	56P01- 24	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
*	A 167	56P01- 25	56J06- 25	ENTRY RELAY CONTROL
	A 22	56P01- 26	56TB1-U 2	IMU DELAY LIGHT HI
	A 6	56P01- 27	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC
*	A 152W	56P01- 28	56J06- 28	ROLL ATTITUDE ERROR METER
*	A 152R	56P01- 29	56J06- 29	ROLL ATTITUDE ERROR METER
*	A 162	56P01- 34	56J06- 34	ZERO ENCODER RELAY CONTROL
*	A 163	56P01- 35	56J06- 35	COARSE ALIGN RELAY CONTROL
*	A 164	56P01- 36	56J06- 36	CDU MANUAL RELAY CONTROL
	A 30	56P01- 37	56TB2-C 2	BACKUP MODE RELAY CONTROL
	A 3	56P01- 38	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC
	A 16W	56P01- 39	56J21-226	ENTRY MODE INDICATION TO AGC 163A
	A 31	56P01- 45	56TB3-M 2	IMU TD RELAY C
*	A 177	56P01- 46	56J06- 46	ATTITUDE CONTROL MODE INTERLOCK
	A 4	56P01- 48	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC
	A 15W	56P01- 49	56J21-222	FINE ALIGN MODE INDICATION TO AGC 161A
	A 32	56P01- 55	56TB3-L 2	IMU TD RELAY NO
*	A 170	56P01- 56	56J06- 56	MANUAL ALIGN
	A 9	56P01- 57	56TB2-R 4	ENTRY RELAY CONTROL
	A 7	56P01- 58	56TB1-K 6	ENTRY MODE COMMAND FROM AGC
	A 14W	56P01- 59	56J21-154	COARSE ALIGN MODE INDICATION TO AGC 159A
	A 2	56P01- 65	56TB3-L 1	IRIG TEMP GAIN SWITCH NC
	A 13W	56P01- 68	56TB2-D 2	AGC COM
	A 11	56P01- 69	56TB2-B 1	LOCK CDU RELAY CONTROL

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 101

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA287W	56J22- 1	56J17-A3	ROLL ERROR BODY OFFSET AXIS HI
	AA287B	56J22- 2	SHLD AA287	
*	AA244W	56J22- 3	56J17-A4	ROLL ERROR BODY AXIS HI
*	AA244R	56J22- 4	56J17-B4	ROLL ERROR BODY AXIS LO
	AA245B	56J22- 5	SHLD AA245	
*	AA245W	56J22- 6	56J17-C4	YAW ERROR BODY AXIS HI
	AA246B	56J22- 8	SHLD AA246	
*	AA288R	56J22- 10	56J17-C1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA288B	56J22- 11	SHLD AA288	
*	A 197	56J22- 37	56J08- 54	MASTER ALARM LIGHT LO
*	A 196	56J22- 38	56J08- 53	MASTER ALARM LIGHT HI
*	AA287R	56J22- 39	56J17-B3	ROLL ERROR BODY OFFSET AXIS LO
	AA244B	56J22- 41	SHLD AA244	
*	AA245R	56J22- 43	56J17-D4	YAW ERROR BODY AXIS LO
*	AA246W	56J22- 45	56J17-C3	YAW ERROR BODY OFFSET AXIS HI
*	AA246R	56J22- 46	56J17-D3	YAW ERROR BODY OFFSET AXIS LO
*	AA288W	56J22- 48	56J17-D1	PITCH ERROR BODY AND BODY OFFSET AXIS HI
*	A 207	56J22- 71	56J08- 32	MASTER WARNING LIGHT LO
*	A 206	56J22- 72	56J08- 43	MASTER WARNING LIGHT HI
	AA505R	56J22-107	56TB2-U 7	SIN AOG 1X S2
	AA507R	56J22-111	56TB3-C14	SIN AMG 1X
	AA508W	56J22-113	56TB3-N20	COS AMG 1X S3
	AA508R	56J22-114	56TB3-N21	COS AMG 1X S1
	AA509W	56J22-116	56TB3-D13	SIN AIG 1X RET
*	AA517R	56J22-120	56TB3-R21	800 CPS 28 V 1 PCT LO IMU
	AA505W	56J22-139	56TB2-U 8	SIN AOG 1X S4
	AA506W	56J22-141	56TB2-N 8	COS AOG 1X S3
	AA506R	56J22-142	56TB2-N 7	COS AOG 1X S1
	AA507W	56J22-144	56TB3-C13	SIN AMG 1X RET
	AA509R	56J22-148	56TB3-D14	SIN AIG 1X
	AA510W	56J22-150	56TB3-F13	COS AIG 1X RET
	AA510R	56J22-151	56TB3-F14	COS AIG 1X
*	AA517W	56J22-153	56TB3-R22	800 CPS 28 V 1 PCT HI IMU
*	A 461	56J22-171	56P10- 8	MAIN PANEL GIMBAL LOCK LIGHT
*	AA570	56J22-172	56TB3-F 2	MAIN PANEL CONDITION LAMP TEST
*	AA518	56J22-190	56TB3-F 4	ATTITUDE CONTROL RELAY CONTROL
*	A 389L	56J22-192	56J09- 17	ROLL ATTIT IMPULSE CONTR OUTPUT LEFT
*	A 389W	56J22-193	56J09- 3	ROLL ATTIT IMPULSE CONTR OUTPUT RIGHT
*	A 387R	56J22-195	56J09- 18	PITCH ATTIT IMPULSE CONTR INPUT
*	A 388L	56J22-197	56J09- 6	YAW ATTIT IMPULSE CONTR OUTPUT LEFT

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 99

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 24R	56P01- 70	56TB2-H 2	IG CDU 1X ERROR SIG
	A 24W	56P01- 71	56TB2-G 2	IG CDU ERROR SIG RET
	A 27W	56P01- 76	56J21-224	ATTIT CONT MODE INDICATION TO AGC 162A
	A 20	56P01- 78	56TB2-L 4	0 VDC IMU
*	A 176	56P01- 79	56J06- 79	ENTRY MODE LIGHT
	A 1R	56P01- 80	56TB2-A 2	PANEL BRIGHTNESS CONTROL
	A 25R	56P01- 82	56TB2-H 7	MG CDU 1X ERROR SIG
	A 25W	56P01- 83	56TB2-G 7	MG CDU ERROR SIG RET
	A 33	56P01- 84	56TB3-F21	STRUCTURE GND
	A 28	56P01- 88	56TB3-F 3	CONDITION LAMP TEST
	A 29	56P01- 89	56TB3-M21	+28 VDC MDV
	A 17K	56P01- 90	56TB1-M 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
	A 18	56P01- 91	56TB1-K 1	MODE LAMP TEST PWR
*	A 172	56P01- 92	56J06- 92	COARSE ALIGN MODE LIGHT
*	A 168	56P01- 93	56J06- 93	MODE RELAY COMMON
*	A 174	56P01- 94	56J06- 94	FINE ALIGN MODE LIGHT
	A 1W	56P01- 95	56TB2-A 1	PANEL BRIGHTNESS CONTROL
	A 23R	56P01- 96	56TB2-N 2	OG CDU 1X ERROR SIG
	A 23W	56P01- 97	56TB2-R 2	OG CDU ERROR SIG RET
	A 17R	56P01-103	56TB1-R 1	400 CPS VAR ILLUM PWR
*	A 171	56P01-104	56J06-104	ZERO ENCODER MODE LIGHT
*	A 173	56P01-105	56J06-105	CDU MANUAL MODE LIGHT
	A 17L	56P01-106	56TB1-M 1	400 CPS 6 V HI TO PANEL BRIGHTNESS CONT
	A 17W	56P01-108	56TB1-R 1	400 CPS VAR ILLUM PWR

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 102

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 547A	56J10- 1	SHLD A547	GROUP 2 SHIELD	245
	A 464	56J10- 2	56TB3-F 3	CONDITION LAMP TEST	328
	A 474W	56J10- 3	56TB3-B 4	ZERO ENCODER LIGHT HI	301
	A 474R	56J10- 4	56TB3-B 3	CDU FAIL LIGHT HI	302
	A 474L	56J10- 5	56TB3-B 2	ACCEL FAIL LIGHT HI	303
	A 465	56J10- 6	56TB3-S 6	IMU FAIL LIGHT HI	304
	A 466	56J10- 7	56TB2-T 3	SPARE FAIL LIGHT HI	305
	A 507	56J10- 8	56TB3-M22	+28 VDC MDV	306
	A 478	56J10- 9	56TB1-H 5	AGC FAIL SIG	326
	A 508	56J10- 10	56TB1-G 5	+28 VDC TO COMPUTER RELAY	327
	A 475	56J10- 12	56TB1-F 8	ATTIT CONT MODE COMMAND FROM AGC	314
	A 521	56J10- 13	56TB1-K 7	MODE RELAY COMMON TO AGC	315
	A 503R	56J10- 14	56J21-111	OUT 0 11	224A
	A 506R	56J10- 15	56J21- 78	OUT 0 12	225A
	A 504R	56J10- 16	56J21- 43	OUT 0 13	226A
	A 483R	56J10- 17	56J21- 6	OUT 0 14	227A
	A 484R	56J10- 18	56J21-214	OUT 0 15	228A
	A 487R	56J10- 19	56J21-113	ALARM 3	231A
	A 471R	56J10- 20	56J21- 82	POWER SYNC	242A
	A 479W	56J10- 21	56TB1-K 4	ZERO ENCODER MODE COMMAND FROM AGC	307
	A 479L	56J10- 22	56TB1-K 3	COARSE ALIGN MODE COMMAND FROM AGC	308
	A 480L	56J10- 23	56TB1-K 8	CDU MANUAL MODE COMMAND FROM AGC	309
	A 479R	56J10- 24	56TB1-K 5	FINE ALIGN MODE COMMAND FROM AGC	310
	A 480R	56J10- 25	56TB1-K 6	ENTRY MODE COMMAND FROM AGC	311
	A 480W	56J10- 26	56TB1-K 7	MODE RELAY COMMON TO AGC	312
	A 518B	56J10- 27	SHLD A518	GROUP 3 SHIELD	250
	A 497R	56J10- 28	56J21-109	OUT 0 4	217A
	A 498R	56J10- 29	56J21- 76	OUT 0 5	218A
	A 499R	56J10- 30	56J21- 41	OUT 0 6	219A
	A 505R	56J10- 31	56J21- 4	OUT 0 7	220A
	A 482R	56J10- 32	56J21- 80	ALARM 4	232A
	A 488R	56J10- 33	56J21- 45	ALARM 5	233A
	A 516R	56J10- 34	56J21-218	KEY CODE 1	201A
	A 514R	56J10- 35	56J21-183	KEY CODE 2	202A
	A 472R	56J10- 36	56J21-150	KEY CODE 3	203A
	A 511R	56J10- 37	56J21-117	KEY CODE 4	204A
	A 467R	56J10- 38	56J21- 84	KEY CODE 5	205A
	A 510R	56J10- 39	56J21- 14	TEST ALARM	207A
	A 485R	56J10- 40	56J21-179	ALARM 1	229A
	A 486R	56J10- 41	56J21-146	ALARM 2	230A

CODE IDENT NO. 99974 | SIZE A | 1014607
SCALE-NONE | REV LTR | SHEET 63

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
A 470R	56J10- 42	56J21- 47	TIMING (1.5 CPS)	244A
A 490R	56J10- 43	56J21-216	ALARM 7	235A
A 489R	56J10- 44	56J21- 8	ALARM 6	234A
A 522	56J10- 45	56J21- 10	SPARE	248
A 523	56J10- 46	56J21- 11	SPARE	249
A 515R	56J10- 47	56J21-185	OR OF C1 THUR C33	210A
A 517R	56J10- 48	56J21-220	ERROR RESET	208A
A 468W	56J10- 49	56J21- 12	KEY RESET NAV	209A
A 492R	56J10- 51	56J21-148	ALARM 9	237A
A 491R	56J10- 53	56J21-181	ALARM 8	236A
A 513	56J10- 55	56J21-174	+3 V B	240
A 512	56J10- 56	56J21-173	GND	239
A 477	56J10- 57	56J21-108	+13 V B	241
A 509	56J10- 58	56J21- 39	GND	239
A 481	56J10- 59	56J21- 40	+28 VDC AGC	243
A 496R	56J10- 60	56J21-142	OUT 0 3	216A
A 500R	56J10- 61	56J21-212	OUT 0 8	221A
A 501R	56J10- 62	56J21-177	OUT 0 9	222A
A 502R	56J10- 63	56J21-144	OUT 0 10	223A
A 493R	56J10- 64	56J21-115	ALARM 10	238A
A 476	56J10- 70	56J21- 3	SPARE	211
A 473	56J10- 71	56J21- 75	SPARE	212
A 469	56J10- 72	56J21-141	SPARE	213
A 494R	56J10- 73	56J21-210	OUT 0 1	214A
A 495R	56J10- 74	56J21-175	OUT 0 2	215A
A 520	56J10- 75	56J21-209	SPARE	247
A 519	56J10- 82	56E 26	COMMONED RETURNS GROUND	330

CODE IDENT NO. 99974 | SIZE A | 1014607
SCALE-NONE | REV LTR | SHEET 64

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA 15W	56J11-A1	56TB2-H 2	IG CDU 1X ERROR SIG	
	AA 19W	56J11-A2	56TB2-H 7	MG CDU 1X ERROR SIG	
	AA 21W	56J11-A3	56TB2-N 2	OG CDU 1X ERROR SIG	
	AA 10R	56J11-A5	56J12-A2	IMU MG ERROR SIG	
	AA 29R	56J11-A5	56TB1-A 7	IMU MG ERROR SIG	
	AA 10L	56J11-A6	56J12-B1	IMU OG ERROR SIG	
	AA 29L	56J11-A6	56TB1-A 8	IMU OG ERROR SIG	
	AA 15R	56J11-B1	56TB2-G 2	IG CDU ERROR SIG RET	
	AA 16W	56J11-B1	56TB1-B 5	IG CDU ERROR SIG RET	
	AA 19R	56J11-B2	56TB2-G 7	MG CDU ERROR SIG RET	
	AA 20W	56J11-B2	56TB1-A 6	MG CDU ERROR SIG RET	
	AA 11R	56J11-B3	56J17-B1	OG CDU ERROR SIG RET	
	AA 21R	56J11-B3	56TB2-R 2	OG CDU ERROR SIG RET	
	AA 10K	56J11-B5	56J12-B2	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA 29K	56J11-B5	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA 10W	56J11-B6	56J12-A1	IMU IG AND Y GYRO ERROR SIG	
	AA 29W	56J11-B6	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG	
	AA 16R	56J11-C1	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR	
	AA 20R	56J11-C2	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR	
	AA 11W	56J11-C3	56J17-A1	OG CDU ATTITUDE STEERING ERROR	
	AA 30W	56J11-D5	56TB1-D 4	IG TORQUE MOTOR RET	
	AA 30R	56J11-D6	56TB1-D 3	IG TORQUE MOTOR HI	
	AA 23R	56J11-F1	56TB1-C 4	IG ADA	
	AA 42W	56J11-F3	56TB1-C 6	3200 CPS 2 V FEEDBACK HI	
	AA 32R	56J11-F6	56TB1-A 4	MG TORQUE MOTOR HI	
	AA 23L	56J11-G1	56TB1-B 4	MG ADA	
	AA 23W	56J11-G2	56TB1-B 3	0 VDC IMU	
	AA 24	56J11-G2	56J11-P6	0 VDC IMU	
	AA 42R	56J11-G3	56TB1-B 6	3200 CPS 2 V FEEDBACK LO	
	AA 32W	56J11-G6	56TB1-A 3	MG TORQUE MOTOR RET	
	AA 23K	56J11-H1	56TB1-C 3	OG ADA	
	AA 34W	56J11-H5	56TB1-B 2	OG TORQUE MOTOR RET	
	AA 34R	56J11-H6	56TB1-A 2	OG TORQUE MOTOR HI	
	AA 9W	56J11-L1	56J12-H2	3200 CPS 2 V HI	
	AA 28W	56J11-L1	56TB1-D 2	3200 CPS 2 V HI	
	AA 9R	56J11-L2	56J12-K2	3200 CPS 2 V LO	
	AA 28K	56J11-L2	56TB1-C 2	3200 CPS 2 V LO	
	AA 35	56J11-L3	56TB1-D 6	COARSE ALIGN RELAY CONTROL	
	AA 7	56J11-L4	56J12-K3	STRUCTURE GND	
*	AA503R	56J11-L6	56J21-203	COMPUTER 3200 PPS OUT OF PHASE SYNC	152A

CODE IDENT NO. 99974 | SIZE A | 1014607
SCALE-NONE | REV LTR | SHEET 65

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA 28R	56J11-M1	56TB1-D 2	3200 CPS 2 V HI	
	AA 28L	56J11-M2	56TB1-C 2	3200 CPS 2 V LO	
	AA 36	56J11-M5	56E 28	COMPUTER 3200 PPS SYNC RET	
	AA 37	56J11-M5	56J11-P3	0 VDC IMU	
*	AA504R	56J11-M6	56J21-241	COMPUTER 3200 PPS IN PHASE SYNC	151A
	AA 12R	56J11-N1	56J17-P2	3200 CPS 20 V CT	
	AA 12L	56J11-N2	56J17-R2	3200 CPS 20 V LO	
	AA 8W	56J11-N3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
	AA 5W	56J11-N4	56J12-N3	800 CPS 28 V 1 PCT HI IMU	
	AA 5R	56J11-N5	56J12-P3	800 CPS 28 V 1 PCT LO IMU	
	AA 14	56J11-N6	56J13-P6	-28 VDC	
	AA 27	56J11-N6	56TB1-D 5	-28 VDC	
	AA 12W	56J11-P1	56J17-N2	3200 CPS 20 V HI	
	AA 38	56J11-P2	56J11-R3	0 VDC IMU	
	AA 39	56J11-P3	56J11-R3	0 VDC IMU	
*	AA 37	56J11-P3	56J11-M5	0 VDC IMU	
	AA 18	56J11-P4	56J11-R4	0 VDC IMU	
	AA 22	56J11-P4	56J11-P5	0 VDC IMU	
*	AA 22	56J11-P5	56J11-P4	0 VDC IMU	
	AA 26	56J11-P6	56J11-R6	0 VDC IMU	
	AA 46	56J11-P6	56TB1-S 3	0 VDC IMU	
*	AA 24	56J11-P6	56J11-G2	0 VDC IMU	
	AA 41	56J11-R1	56J11-R2	0 VDC IMU	
	AA 44	56J11-R1	56TB2-M 2	0 VDC IMU	
	AA 45	56J11-R2	56TB2-M 3	0 VDC IMU	
*	AA 41	56J11-R2	56J11-R1	0 VDC IMU	
	AA 43	56J11-R3	56TB2-M 1	0 VDC IMU	
*	AA 38	56J11-R3	56J11-P2	0 VDC IMU	
*	AA 39	56J11-R3	56J11-P3	0 VDC IMU	
	AA 17	56J11-R4	56J11-R5	0 VDC IMU	
*	AA 18	56J11-R4	56J11-P4	0 VDC IMU	
	AA 31	56J11-R5	56J11-R6	0 VDC IMU	
*	AA 17	56J11-R5	56J11-R4	0 VDC IMU	
	AA 33	56J11-R6	56J11-S6	0 VDC IMU	
*	AA 26	56J11-R6	56J11-P6	0 VDC IMU	
*	AA 31	56J11-R6	56J11-R5	0 VDC IMU	
	AA 2	56J11-S1	56J20-L1	+28 VDC IMU	
	AA 40	56J11-S1	56J11-S2	+28 VDC IMU	
	AA 3	56J11-S2	56J20-L2	+28 VDC IMU	
*	AA 40	56J11-S2	56J11-S1	+28 VDC IMU	

CODE IDENT NO. 99974 | SIZE A | 1014607
SCALE-NONE | REV LTR | SHEET 66

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 229W	56P03-A	56TB1-C 7	X GYRO ERROR SIG
A 239W	56P03-A*	56TB1-A 3	MG TORQUE MOTOR RET
A 230W	56P03-B	56TB1-C 8	Z GYRO ERROR SIG
A 240R	56P03-B*	56TB1-A 3	MG TORQUE MOTOR RET
A 231R	56P03-C	56TB1-A 8	IMU OG ERROR SIG
A 240W	56P03-C*	56TB1-A 4	MG TORQUE MOTOR HI
A 232R	56P03-D	56TB2-N 8	COS AOG 1X S3
A 241R	56P03-D*	56TB1-D 3	IG TORQUE MOTOR HI
A 232W	56P03-E	56TB2-N 7	COS AOG 1X S1
A 241W	56P03-E*	56TB1-D 4	IG TORQUE MOTOR RET
A 233R	56P03-F	56TB2-U 8	SIN AOG 1X S4
A 242R	56P03-F*	56TB1-D 4	IG TORQUE MOTOR RET
A 233W	56P03-G	56TB2-U 7	SIN AOG 1X S2
A 242W	56P03-G*	56TB1-D 3	IG TORQUE MOTOR HI
A 234W	56P03-H	56TB1-C 5	IG CDU ATTITUDE STEERING ERROR
A 244	56P03-H*	56TB3-T20	+28 VDC IMU
A 234R	56P03-J	56TB1-B 5	IG CDU ERROR SIG RET
A 243	56P03-J*	56TB3-F 5	GIMBAL LOCK SIGNAL
A 235R	56P03-K	56TB1-A 6	MG CDU ERROR SIG RET
A 235W	56P03-L	56TB1-A 5	MG CDU ATTITUDE STEERING ERROR
A 236W	56P03-M	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
A 236R	56P03-N	56TB3-R 4	PITCH YAW RSVR S3
A 237W	56P03-P	56TB3-R 1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
A 237R	56P03-R	56TB3-R 2	PITCH-YAW RSVR S4
A 231L	56P03-U	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 231W	56P03-V	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 231K	56P03-W	56TB1-A 7	IMU MG ERROR SIG
A 238R	56P03-X	56TB1-B 2	OG TORQUE MOTOR RET
A 238W	56P03-Y	56TB1-A 2	OG TORQUE MOTOR HI
A 239R	56P03-Z	56TB1-A 4	MG TORQUE MOTOR HI

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 104

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	A 268W	56P04-A	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
*	A 268R	56P04-C	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
*	A 251W	56P04-F	56P05-FF	AS 16X RSVR P4 TRIM
*	A 251R	56P04-H	56P05-EE	AS 16X RSVR P2 TRIM
*	A 267W	56P04-J	56P05-W	AT 64X RSVR P4 TRIM
*	A 267R	56P04-K	56P05-X	AT 64X RSVR P2 TRIM

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 105

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 216R	56P02-A	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
A 227R	56P02-A*	56TB3-F14	COS AIG 1X S3
A 216W	56P02-B	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
A 227W	56P02-B*	56TB3-F13	COS AIG 1X RET S1
A 217R	56P02-C	56TB2-W 4	COS AOG 16X S3
A 217W	56P02-D	56TB2-W 3	COS AOG 16X S1
A 218R	56P02-E	56TB2-X 3	SIN AOG 16X S2
A 218W	56P02-F	56TB2-W 2	SIN AOG 16X S4
A 228R	56P02-F*	56TB3-D13	SIN AIG 1X RET S2
A 219R	56P02-G	56TB2-J 5	COS AMG 16X S3
A 228W	56P02-G*	56TB3-D14	SIN AIG 1X S4
A 219W	56P02-H	56TB2-T 5	COS AMG 16X S1
A 220R	56P02-J	56TB2-A 7	SIN AMG 16X S2
A 220W	56P02-K	56TB2-B 7	SIN AMG 16X S4
A 221R	56P02-L	56TB3-N20	COS AMG 1X S3
A 221W	56P02-M	56TB3-N21	COS AMG 1X S1
A 222W	56P02-N	56TB3-C13	SIN AMG 1X RET S2
A 222R	56P02-P	56TB3-C14	SIN AMG 1X S4
A 223R	56P02-R	56TB1-D 2	3200 CPS 2 V HI
A 223W	56P02-S	56TB1-C 2	3200 CPS 2 V LO
A 224R	56P02-T	56TB1-C 6	3200 CPS 2 V FEEDBACK HI
A 224W	56P02-U	56TB1-B 6	3200 CPS 2 V FEEDBACK LO
A 225R	56P02-W	56TB2-W 6	COS AIG 16X S3
A 225W	56P02-X	56TB2-X 7	COS AIG 16X S1
A 226R	56P02-Y	56TB2-A 8	SIN AIG 16X S2
A 226W	56P02-Z	56TB2-B 8	SIN AIG 16X S4

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 103

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	A 259W	56P05-A	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING RED
	A 264	56P05-AA	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
	A 253R	56P05-A*	56TB3-S 8	SXT AT 64X RSVR COS HI
	A 259R	56P05-B	56TB3-C18	+28 VDC OPTICS
	A 263W	56P05-BB	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
	A 253W	56P05-B*	56TB3-S 7	SXT AT 64X RSVR COS LO
	A 259L	56P05-C	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING BLK
	A 265R	56P05-CC	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
*	A 247R	56P05-CC	56P05-K	800 CPS 28 V 1 PCT HI OPTICS
	A 254R	56P05-C*	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
	A 269	56P05-D	56TB3-D 6	800 CPS 28 V 5 PCT L-90 DEG HI OPT SWTD
	A 265W	56P05-DD	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
*	A 247W	56P05-DD	56P05-J	800 CPS 28 V 1 PCT LO OPTICS
	A 254W	56P05-D*	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
	A 245W	56P05-E	56TB2-L 8	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	A 251R	56P05-EE	56P04-H	AS 16X RSVR P2 TRIM
	A 255R	56P05-E*	56TB3-G16	TRUNNION CDU 1/4X COS LO
	A 251W	56P05-FF	56P04-F	AS 16X RSVR P4 TRIM
	A 255W	56P05-F*	56TB3-F16	TRUNNION CDU 1/4X COS HI
	A 256R	56P05-G*	56TB3-G10	TRUNNION CDU 1/4X SIN HI
	A 263R	56P05-HH	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
	A 256W	56P05-H*	56TB3-F10	TRUNNION CDU 1/4X SIN LO
	A 246W	56P05-I*	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING RED
	A 247W	56P05-J	56P05-DD	800 CPS 28 V 1 PCT LO OPTICS
	A 268R	56P05-J	56P04-C	800 CPS 28 V 1 PCT LO OPTICS
	A 246L	56P05-J*	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING BLK
	A 247R	56P05-K	56P05-CC	800 CPS 28 V 1 PCT HI OPTICS
	A 268W	56P05-K	56P04-A	800 CPS 28 V 1 PCT HI OPTICS
	A 257R	56P05-K*	56TB3-T16	SXT TRUNNION TACH HI
	A 266R	56P05-L	56TB1-T 1	400 CPS VAR ILLUM PWR
	A 266W	56P05-M	56TB1-T 2	400 CPS 6 V LO
	A 257W	56P05-M*	56TB3-T17	SXT TRUNNION TACH LO
	A 248R	56P05-N*	56TB3-R 8	SXT AS 16X RSVR SIN HI
	A 246R	56P05-P	56TB3-C18	+28 VDC OPTICS
	A 248W	56P05-P*	56TB3-R 7	SXT AS 16X RSVR SIN LO
	A 258R	56P05-Q*	56TB3-R10	SXT AS 16X RSVR COS LO
	A 270	56P05-R	56TB3-F21	STRUCTURE GND
	A 258W	56P05-R*	56TB3-R11	SXT AS 16X RSVR COS HI
	A 249	56P05-S	56TB3-K21	0 VDC OPTICS
	A 250	56P05-T	56TB3-K21	0 VDC OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 106

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA 10W	56J12-A1	56J11-B6	IMU IG AND Y GYRO ERROR SIG	
*	AA 10R	56J12-A2	56J11-A5	IMU MG ERROR SIG	
	AA 75	56J12-A5	56J13-D2	X PIP ERROR MONITOR	
	AA 76	56J12-A6	56J13-F2	Y PIP ERROR MONITOR	
*	AA 10L	56J12-B1	56J11-A6	IMU OG ERROR SIG	
*	AA 10K	56J12-B2	56J11-B5	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA 77	56J12-B5	56E 34	0 VDC IMU	
	AA 47	56J12-B6	56J14-H6	Z PIP ERROR MONITOR	
*	AA232L	56J12-D1	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	
*	AA232R	56J12-D2	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	
	AA 86W	56J12-D4	56J21- 60	ACCEL FAIL	138A
	AA 85W	56J12-D5	56J21-158	CDU FAIL	124A
	AA 84W	56J12-D6	56J21- 28	IMU FAIL	141A
	AA 67	56J12-F1	56E 31	COMPUTER 800 PPS SYNC RET	
	AA 68	56J12-F1	56J12-F2	COMPUTER 800 PPS SYNC RET	
	AA 69	56J12-F2	56E 29	COMPUTER 25.6 KPPS SYNC RET	
*	AA 68	56J12-F2	56J12-F1	COMPUTER 800 PPS SYNC RET	
	AA 97	56J12-F3	56J17-M3	0 VDC SPACECRAFT	
	AA 86R	56J12-F4	56J21- 61	ACCEL FAIL RET	138B
	AA 85R	56J12-F5	56J21-159	CDU FAIL RET	124B
	AA 84R	56J12-F6	56J21- 29	IMU FAIL RET	141B
*	AA490W	56J12-G1	56J21-169	COMPUTER 25.6 KPPS IN PHASE SYNC	153A
*	AA491R	56J12-G2	56J21-136	COMPUTER 25.6 KPPS OUT OF PHASE SYNC	154A
	AA 74	56J12-G3	56J22-244	ERROR DETECT LIGHT MAIN PANEL	
	AA 53	56J12-G4	56J20-L6	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP	
	AA 59	56J12-G5	56J16-R2	0 VDC IMU	
	AA 71	56J12-G5	56J12-R5	0 VDC IMU	
	AA 58	56J12-G6	56J16-N3	OG CDU FAILURE INDICATION	
	AA 70R	56J12-H1	56J21- 71	COMPUTER 102.4 KPPS SYNC RET	156B
*	AA 70A	56J12-H1	SHLD AA 70	COMPUTER 102.4 KPPS SYNC RET	
	AA 48W	56J12-H2	56J15-S4	3200 CPS 2 V HI	
*	AA 9W	56J12-H2	56J11-L1	3200 CPS 2 V HI	
	AA 93	56J12-H3	56J17-L2	MAIN PANEL CONDITION LAMP TEST	
	AA 52W	56J12-H4	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 62	56J12-H4	56J12-N2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 56	56J12-H5	56J16-M2	IG CDU FAILURE INDICATION	
	AA 57	56J12-H6	56J16-M3	MG CDU FAILURE INDICATION	
	AA 70W	56J12-K1	56J21- 70	COMPUTER 102.4 KPPS SYNC	156A
	AA 48R	56J12-K2	56J15-R4	3200 CPS 2 V LO	
*	AA 9R	56J12-K2	56J11-L2	3200 CPS 2 V LO	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 68

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA 72	56J12-K3	56J13-C6	STRUCTURE GND	
*	AA 7	56J12-K3	56J11-L4	STRUCTURE GND	
	AA 52R	56J12-K4	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
	AA 73L	56J12-K6	56J14-R2	+12, +120 VDC RET GYRO	
	AA 82	56J12-L1	56TB3-M22	+28 VDC MDV	
	AA 83	56J12-L2	56TB1-H 8	ERROR DETECT LIGHT HI	
	AA 95R	56J12-L5	56J13-R3	+32 VDC RET GYRO	
	AA 73R	56J12-L6	56J14-S2	+120 VDC GYRO	
	AA 80	56J12-M1	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI	
	AA 81	56J12-M1	56J21- 36	AGC POWER SUPPLY FAIL SIG HI	157A
	AA 78	56J12-M3	56TB1-H 5	AGC FAIL SIG	
	AA 79	56J12-M4	56TB1-G 5	+28 VDC TO COMPUTER RELAY	
	AA 95W	56J12-M5	56J13-S3	+32 VDC GYRO	
	AA 73W	56J12-M6	56J14-S3	+12 VDC GYRO	
	AA 61	56J12-N1	56J12-P1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 62	56J12-N2	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA 49W	56J12-N3	56J15-P6	800 CPS 28 V 1 PCT HI IMU	
*	AA 5W	56J12-N3	56J11-N4	800 CPS 28 V 1 PCT HI IMU	
	AA 64W	56J12-N4	56TB1-H 4	25.6 KC HI IMU	
	AA 65	56J12-N4	56J12-N5	25.6 KC HI IMU	
	AA 50W	56J12-N5	56J15-N6	25.6 KC HI IMU	
*	AA 65	56J12-N5	56J12-N4	25.6 KC HI IMU	
	AA 63R	56J12-N6	56TB1-G 7	25.6 KC LO OPTICS	
	AA 94R	56J12-N6	56J17-N3	25.6 KC LO OPTICS	
	AA 60L	56J12-P1	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
*	AA 61	56J12-P1	56J12-N1	800 CPS 28 V 5 PCT IMU WHEELS PHASE A	
	AA 60W	56J12-P2	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B	
	AA 49R	56J12-P3	56J15-P5	800 CPS 28 V 1 PCT LO IMU	
*	AA 5R	56J12-P3	56J11-N5	800 CPS 28 V 1 PCT LO IMU	
	AA 92W	56J12-P4	56J17-R3	COMPUTER 12.8 KPPS SYNC	
*	AA 8W	56J12-P4	56J11-N3	COMPUTER 12.8 KPPS SYNC	
	AA 50R	56J12-P5	56J15-N5	25.6 KC LO IMU	
	AA 64R	56J12-P5	56TB1-G 4	25.6 KC LO IMU	
	AA 63W	56J12-P6	56TB1-H 7	25.6 KC HI OPTICS	
	AA 94W	56J12-P6	56J17-P3	25.6 KC HI OPTICS	
	AA 60R	56J12-R1	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO	
	AA 89	56J12-R2	56J12-R3	0 VDC IMU	
	AA 99	56J12-R2	56TB1-N 5	0 VDC IMU	
	AA 90	56J12-R3	56J12-R4	0 VDC IMU	
*	AA 89	56J12-R3	56J12-R2	0 VDC IMU	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 69

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA 13	56J11-S3	56J17-R1	+28 VDC STBY
	AA 1	56J11-S4	56J15-S6	+28 VDC IMU
	AA 6	56J11-S4	56J12-S5	+28 VDC IMU
	AA 25	56J11-S4	56J11-S5	+28 VDC IMU
	AA 4	56J11-S5	56J20-K2	+28 VDC IMU
*	AA 25	56J11-S5	56J11-S4	+28 VDC IMU
*	AA 33	56J11-S6	56J11-R6	0 VDC IMU

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 67

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA 91	56J12-R4	56E 31	0 VDC IMU
	AA100	56J12-R4	56TB1-N 8	0 VDC IMU
*	AA 90	56J12-R4	56J12-R3	0 VDC IMU
	AA 96	56J12-R5	56J13-R6	0 VDC IMU
	AA 98	56J12-R5	56TB1-S 6	0 VDC IMU
*	AA 71	56J12-R5	56J12-G5	0 VDC IMU
	AA 66	56J12-R6	56TB3-L20	0 VDC OPTICS
	AA 54	56J12-S1	56J20-M1	+28 VDC IMU
	AA 87	56J12-S1	56J12-S3	+28 VDC IMU
	AA 55	56J12-S2	56J20-M2	+28 VDC IMU
	AA 88	56J12-S2	56J12-S4	+28 VDC IMU
*	AA 87	56J12-S3	56J12-S1	+28 VDC IMU
*	AA 88	56J12-S4	56J12-S2	+28 VDC IMU
*	AA 6	56J12-S5	56J11-S4	+28 VDC IMU
	AA 51	56J12-S6	56J20-N5	+28 VDC OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE - NONE	REV LTR	SHEET 70

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 271R	56P06-A	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 286	56P06-A*	56TB3-K 3	IRIG TEMP IND SENSOR RET
A 271W	56P06-B	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO
A 282R	56P06-B*	56TB3-L13	PRESSURE SENSOR +28 VDC HI
A 271L	56P06-C	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 282W	56P06-C*	56TB3-K13	PRESSURE SENSOR +28 VDC LO
A 284	56P06-D	56TB3-T20	+28 VDC IMU
A 283R	56P06-D*	56TB3-K19	IMU PRESSURE MONITOR HI
A 287	56P06-E	56TB2-D 4	0 VDC IMU
A 283W	56P06-E*	56TB3-H19	IMU PRESSURE MONITOR LO
A 272	56P06-F	56TB1-D 5	-28 VDC
A 281R	56P06-F*	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 288	56P06-G	56TB3-F21	STRUCTURE GND
A 281W	56P06-G*	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 273R	56P06-H	56TB1-A 2	OG TORQUE MOTOR HI
A 273W	56P06-J	56TB1-B 2	OG TORQUE MOTOR RET
A 274	56P06-K	56TB3-G 5	IMU TEMP SENSOR COM
A 275W	56P06-L	56TB3-L 3	IRIG TEMP CONT SENSOR RET
A 275R	56P06-M	56TB3-L 4	IRIG TEMP CONT SENSOR HI
A 276	56P06-N	56TB3-R 6	ACCEL INDICATING SENSOR HI
A 285	56P06-P	56TB3-M 1	ACCEL TEMP IND SENSOR RET
A 279W	56P06-R	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY
A 278R	56P06-V	56TB3-N 5	IMU CONTROL HTR HI
A 278W	56P06-W	56TB3-N 4	IMU CONTROL HTR LO
A 279R	56P06-X	56TB3-N 1	IMU EMERGENCY HTR HI
A 277	56P06-Y	56TB3-N 6	EMERG HTR CONT MODULE LO
A 280	56P06-Z	56TB3-H 4	IRIG TEMP IND SENSOR HI

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 108

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 289R	56P07-A	56TB1-T 8	Z GYRO TORQUE +
A 296W	56P07-A*	56TB1-N 2	Y PIP ERROR LO
A 289W	56P07-B	56TB1-U 7	Z GYRO TORQUE RET
A 297R	56P07-B*	56TB1-T 5	Z PIP ERROR HI
A 289L	56P07-C	56TB1-U 8	Z GYRO TORQUE -
A 297W	56P07-C*	56TB1-T 4	Z PIP ERROR LO
A 290R	56P07-D	56TB1-M 8	X GYRO TORQUE +
A 290W	56P07-E	56TB1-L 8	X GYRO TORQUE RET
A 290L	56P07-F	56TB1-L 7	X GYRO TORQUE -
A 298R	56P07-F*	56TB1-C 3	OG ADA
A 291R	56P07-G	56TB1-T 6	Y GYRO TORQUE +
A 298L	56P07-G*	56TB1-B 4	MG ADA
A 291W	56P07-H	56TB1-U 5	Y GYRO TORQUE RET
A 298K	56P07-H*	56TB1-C 4	IG ADA
A 291L	56P07-J	56TB1-U 6	Y GYRO TORQUE -
A 298W	56P07-J*	56TB1-B 3	0 VDC IMU
A 292R	56P07-K	56TB1-U 4	Z PIP TORQUE +
A 292W	56P07-L	56TB1-T 3	Z PIP TORQUE RET
A 292L	56P07-M	56TB1-U 3	Z PIP TORQUE -
A 293R	56P07-N	56TB1-L 4	Y PIP TORQUE +
A 293W	56P07-P	56TB1-L 3	Y PIP TORQUE RET
A 293L	56P07-R	56TB1-M 4	Y PIP TORQUE -
A 294R	56P07-U	56TB1-M 5	X PIP TORQUE +
A 294W	56P07-V	56TB1-L 6	X PIP TORQUE RET
A 294L	56P07-W	56TB1-L 5	X PIP TORQUE -
A 295R	56P07-X	56TB1-M 7	X PIP ERROR HI
A 295W	56P07-Y	56TB1-M 6	X PIP ERROR LO
A 296R	56P07-Z	56TB1-M 3	Y PIP ERROR HI

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 109

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 260R	56P05-U*	56TB3-S17	SXT SHAFT TACH HI
A 260W	56P05-V*	56TB3-S16	SXT SHAFT TACH LO
A 267W	56P05-W	56P04-J	AT 64X RSVR P4 TRIM
A 261R	56P05-W*	56TB3-N13	SHAFT CDU 1/2X COS LO P4
A 267R	56P05-X	56P04-K	AT 64X RSVR P2 TRIM
A 261W	56P05-X*	56TB3-N14	SHAFT CDU 1/2X COS HI P2
A 252R	56P05-Y	56TB3-T 8	SXT AT 64X RSVR SIN LO
A 262R	56P05-Y*	56TB3-K10	SHAFT CDU 1/2X SIN HI P1
A 252W	56P05-Z	56TB3-T 7	SXT AT 64X RSVR SIN HI
A 262W	56P05-Z*	56TB3-K11	SHAFT CDU 1/2X SIN LO P3

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 107

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 299R	56P08-A	56TB2-N 4	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
A 299W	56P08-B	56TB2-L 8	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
A 315	56P08-B*	56TB3-K21	0 VDC OPTICS
A 308W	56P08-C*	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING RED
A 308L	56P08-D*	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING BLK
A 300W	56P08-E	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING RED
A 309R	56P08-E*	56TB3-N16	SCT SHAFT TACH HI
A 300R	56P08-F	56TB3-C19	+28 VDC OPTICS
A 309W	56P08-F*	56TB3-N17	SCT SHAFT TACH LO
A 300L	56P08-G	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING BLK
A 310R	56P08-G*	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
A 308R	56P08-H	56TB3-C19	+28 VDC OPTICS
A 311	56P08-H*	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
A 310W	56P08-I*	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
A 301R	56P08-J	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
A 312W	56P08-J*	56TB3-K10	SHAFT CDU 1/2X SIN HI S1
A 301W	56P08-K	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
A 312R	56P08-K*	56TB3-K11	SHAFT CDU 1/2X SIN LO P1
A 313W	56P08-M*	56TB3-N13	SHAFT CDU 1/2X COS LO P2
A 302R	56P08-N	56TB3-R17	SCT TRUNNION TACH HI
A 313R	56P08-N*	56TB3-N14	SHAFT CDU 1/2X COS HI P4
A 302W	56P08-P	56TB3-R16	SCT TRUNNION TACH LO
A 303	56P08-R	56TB3-K21	0 VDC OPTICS
A 314R	56P08-R*	56TB1-T 1	400 CPS VAR ILLUM PWR
A 304W	56P08-S	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
A 314W	56P08-S*	56TB1-T 2	400 CPS 6 V LO
A 304R	56P08-T	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
A 316	56P08-T*	56TB3-F22	STRUCTURE GND
A 305	56P08-U	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
A 306R	56P08-V	56TB3-S13	SCT TRUNNION 1X SIN LO
A 306W	56P08-W	56TB3-S14	SCT TRUNNION 1X SIN HI
A 307R	56P08-X	56TB3-T14	SCT TRUNNION 1X COS HI
A 307W	56P08-Y	56TB3-T13	SCT TRUNNION 1X COS LO

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 110

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 96	56J13-R6	56J12-R5	0 VDC IMU
	AA112W	56J13-S1	56J14-S2	+120 VDC GYRO
	AA109W	56J13-S2	56J14-S1	+120 VDC PIP
	AA110W	56J13-S3	56J14-S5	+32 VDC GYRO
*	AA 95W	56J13-S3	56J12-M5	+32 VDC GYRO
	AA111W	56J13-S4	56J14-S4	+32 VDC PIP
	AA107	56J13-S6	56J14-S6	+28 VDC IMU

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 72

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA126W	56J14-A1	56TB1-T 5	Z PIP ERROR HI	
	AA126R	56J14-A2	56TB1-T 4	Z PIP ERROR LO	
*	AA104	56J14-A6	56J13-A6	X GYRO DC DIFF AMP OUTPUT	
	AA143	56J14-C1	56J15-N2	+ SET X GYRO CAGE	
	AA144	56J14-C2	56J15-P2	- SET X GYRO CAGE	
	AA141	56J14-C3	56J15-N3	+ SET Y GYRO CAGE	
	AA142	56J14-C4	56J15-P3	- SET Y GYRO CAGE	
	AA139	56J14-C5	56J15-N4	+ SET Z GYRO CAGE	
	AA140	56J14-C6	56J15-P4	- SET Z GYRO CAGE	
	AA129R	56J14-D1	56J21- 66	+ DX GYRO RATE	142A
	AA130W	56J14-D2	56J21- 32	- DX GYRO RATE	143A
	AA131R	56J14-D3	56J21-239	+ DY GYRO RATE	144A
	AA132R	56J14-D4	56J21-201	- DY GYRO RATE	145A
	AA134W	56J14-D5	56J21-167	+ DZ GYRO RATE	146A
	AA135R	56J14-D6	56J21-134	- DZ GYRO RATE	147A
	AA148	56J14-F6	56J15-L2	P Z	
*	AA103	56J14-G1	56J13-H6	X GYRO CAL DUMMY	
	AA149	56J14-G6	56J15-M2	N Z	
*	AA105W	56J14-H1	56J13-K6	X GYRO TERNARY CUR SW TORQUE	
	AA138	56J14-H3	56J15-L1	PIPA INTERROGATE PULSE	
*	AA101	56J14-H3	56J13-N5	PIPA INTERROGATE PULSE	
	AA145	56J14-H4	56J15-M1	GYRO DATA PULSE	
	AA151	56J14-H5	56J15-K3	STRUCTURE GND	
*	AA106	56J14-H5	56J13-C6	STRUCTURE GND	
	AA128	56J14-H6	56TB1-T 7	Z PIP ERROR MONITOR	
*	AA 47	56J14-H6	56J12-B6	Z PIP ERROR MONITOR	
*	AA105R	56J14-K1	56J13-L6	X GYRO TERNARY CUR SW TORQUE	
	AA146	56J14-K3	56J15-N1	PIPA SWITCHING PULSE	
*	AA102	56J14-K3	56J13-N6	PIPA SWITCHING PULSE	
	AA147	56J14-K4	56J15-P1	GYRO RESET PULSE	
	AA136R	56J14-L6	56TB1-T 8	Z GYRO TORQUE +	
	AA133R	56J14-M1	56TB1-T 6	Y GYRO TORQUE +	
	AA133L	56J14-M2	56TB1-U 6	Y GYRO TORQUE -	
	AA133W	56J14-M3	56TB1-U 5	Y GYRO TORQUE RET	
	AA136L	56J14-M6	56TB1-U 8	Z GYRO TORQUE -	
	AA136W	56J14-N6	56TB1-U 7	Z GYRO TORQUE RET	
	AA127R	56J14-P1	56TB1-U 4	Z PIP TORQUE +	
	AA127L	56J14-P2	56TB1-U 3	Z PIP TORQUE -	
	AA127W	56J14-P3	56TB1-T 3	Z PIP TORQUE RET	
*	AA113	56J14-P6	56J13-P6	-28 VDC	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 73

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA118W	56J13-A1	56TB1-M 7	X PIP ERROR HI	
	AA121W	56J13-A3	56TB1-M 3	Y PIP ERROR HI	
	AA104	56J13-A6	56J14-A6	X GYRO DC DIFF AMP OUTPUT	
	AA118R	56J13-B1	56TB1-M 6	X PIP ERROR LO	
	AA121R	56J13-B3	56TB1-N 2	Y PIP ERROR LO	
	AA106	56J13-C6	56J14-H5	STRUCTURE GND	
*	AA 72	56J13-C6	56J12-K3	STRUCTURE GND	
	AA114	56J13-D1	56J15-L4	P X	
	AA120	56J13-D2	56TB1-L 2	X PIP ERROR MONITOR	
*	AA 75	56J13-D2	56J12-A5	X PIP ERROR MONITOR	
	AA116	56J13-D3	56J15-L3	P Y	
	AA124R	56J13-D6	56TB1-M 8	X GYRO TORQUE +	
	AA115	56J13-F1	56J15-M4	N X	
	AA123	56J13-F2	56TB1-M 2	Y PIP ERROR MONITOR	
*	AA 76	56J13-F2	56J12-A6	Y PIP ERROR MONITOR	
	AA117	56J13-F3	56J15-M3	N Y	
	AA124W	56J13-F6	56TB1-L 8	X GYRO TORQUE RET	
	AA124L	56J13-G6	56TB1-L 7	X GYRO TORQUE -	
	AA119R	56J13-H1	56TB1-M 5	X PIP TORQUE +	
	AA103	56J13-H6	56J14-G1	X GYRO CAL DUMMY	
	AA119W	56J13-K1	56TB1-L 6	X PIP TORQUE RET	
	AA105W	56J13-K6	56J14-H1	X GYRO TERNARY CUR SW TORQUE	
	AA119L	56J13-L1	56TB1-L 5	X PIP TORQUE -	
	AA122R	56J13-L3	56TB1-L 4	Y PIP TORQUE +	
	AA105R	56J13-L6	56J14-K1	X GYRO TERNARY CUR SW TORQUE	
	AA122W	56J13-M3	56TB1-L 3	Y PIP TORQUE RET	
	AA122L	56J13-N3	56TB1-M 4	Y PIP TORQUE -	
	AA101	56J13-N5	56J14-H3	PIPA INTERROGATE PULSE	
*	AA501W	56J13-N5	56J21-132	PIPA INTERROGATE PULSE	139A
	AA102	56J13-N6	56J14-K3	PIPA SWITCHING PULSE	
*	AA502W	56J13-N6	56J21- 99	PIPA SWITCHING PULSE	140A
	AA113	56J13-P6	56J14-P6	-28 VDC	
*	AA 14	56J13-P6	56J11-N6	-28 VDC	
	AA112R	56J13-R1	56J14-R2	+12, +120 VDC RET GYRO	
	AA109R	56J13-R2	56J14-R1	+120 VDC RET PIP	
	AA110R	56J13-R3	56J14-R5	+32 VDC RET GYRO	
*	AA 95R	56J13-R3	56J12-L5	+32 VDC RET GYRO	
	AA111R	56J13-R4	56J14-R4	+32 VDC RET PIP	
	AA108	56J13-R6	56J14-R6	0 VDC IMU	
	AA125	56J13-R6	56E 34	0 VDC IMU	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 71

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA150R	56J14-R1	56J15-R5	+120 VDC RET PIP
*	AA109R	56J14-R1	56J13-R2	+120 VDC RET PIP
*	AA 73L	56J14-R2	56J12-K6	+12, +120 VDC RET GYRO
*	AA112R	56J14-R2	56J13-R1	+12, +120 VDC RET GYRO
	AA154R	56J14-R4	56J17-S5	+32 VDC RET PIP
*	AA111R	56J14-R4	56J13-R4	+32 VDC RET PIP
*	AA110R	56J14-R5	56J13-R3	+32 VDC RET GYRO
	AA137	56J14-R6	56E 33	0 VDC IMU
	AA153	56J14-R6	56J15-R2	0 VDC IMU
*	AA108	56J14-R6	56J13-R6	0 VDC IMU
	AA150W	56J14-S1	56J15-S5	+120 VDC PIP
*	AA109W	56J14-S1	56J13-S2	+120 VDC PIP
*	AA 73R	56J14-S2	56J12-L6	+120 VDC GYRO
*	AA112W	56J14-S2	56J13-S1	+120 VDC GYRO
*	AA 73W	56J14-S3	56J12-M6	+12 VDC GYRO
	AA154W	56J14-S4	56J17-T5	+32 VDC PIP
*	AA111W	56J14-S4	56J13-S4	+32 VDC PIP
*	AA110W	56J14-S5	56J13-S3	+32 VDC GYRO
	AA152	56J14-S6	56J15-S2	+28 VDC IMU
*	AA107	56J14-S6	56J13-S6	+28 VDC IMU

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 74

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 361	56P09- 41	56TB1-C 8	Z GYRO ERROR SIG
A 379R	56P09- 42	56TB3-K19	IMU PRESSURE MONITOR HI
A 350	56P09- 43	56TB1-M 2	Y PIP ERROR MONITOR
A 351	56P09- 44	56TB1-T 7	Z PIP ERROR MONITOR
A 321R	56P09- 45	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
A 345	56P09- 46	56TB1-U 2	IMU DELAY LIGHT HI
A 335	56P09- 47	56TB3-B 3	CDU FAIL LIGHT HI
A 334	56P09- 48	56TB3-S 6	IMU FAIL LIGHT HI
A 333	56P09- 49	56TB3-B 2	ACCEL FAIL LIGHT HI
A 363W	56P09- 50	56TB1-A 8	IMU OG ERROR SIG
A 363K	56P09- 51	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO
A 362	56P09- 52	56TB1-C 7	X GYRO ERROR SIG
A 379W	56P09- 53	56TB3-H19	IMU PRESSURE MONITOR LO
A 381	56P09- 54	56TB3-M19	+3 VDC AGC
A 321W	56P09- 55	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS
A 322R	56P09- 56	56TB2-K 2	800 CPS 28 V 1 PCT HI OPTICS
A 322W	56P09- 57	56TB2-L 2	800 CPS 28 V 1 PCT LO OPTICS
A 323W	56P09- 58	56TB1-C 2	3200 CPS 2 V LO
A 323R	56P09- 59	56TB1-D 2	3200 CPS 2 V HI
A 363R	56P09- 60	56TB1-A 7	IMU MG ERROR SIG
A 363L	56P09- 61	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG
A 380	56P09- 62	56TB3-L19	+13 VDC AGC
A 382	56P09- 63	56TB3-N19	0 VDC AGC
A 371L	56P09- 64	56TB3-G19	AGC TEMP MONITOR NO 1
A 328	56P09- 65	56TB3-H20	+28 VDC OPTICS
A 329	56P09- 66	56TB3-L21	0 VDC OPTICS
A 319R	56P09- 67	56TB1-G 2	800 CPS 28 V 5 PCT IMU WHEELS PHASE B
A 325R	56P09- 68	56TB1-H 7	25.6 KC HI OPTICS
A 324R	56P09- 69	56TB1-H 4	25.6 KC HI IMU
A 365R	56P09- 70	56TB2-H 7	MG CDU 1X ERROR SIG
A 365W	56P09- 71	56TB2-G 7	MG CDU ERROR SIG RET
A 366R	56P09- 72	56TB2-N 2	OG CDU 1X ERROR SIG
A 370	56P09- 73	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
A 371R	56P09- 74	56TB3-F19	AGC TEMP MONITOR NO 2
A 371W	56P09- 75	56TB3-D19	AGC TEMP MONITOR NO 3
A 378R	56P09- 76	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
A 378W	56P09- 77	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
A 319L	56P09- 78	56TB1-H 2	800 CPS 28 V 5 PCT IMU WHEELS LO
A 319W	56P09- 79	56TB1-H 3	800 CPS 28 V 5 PCT IMU WHEELS PHASE A
A 325W	56P09- 80	56TB1-G 7	25.6 KC LO OPTICS

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 112

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 324W	56P09- 81	56TB1-G 4	25.6 KC LO IMU
A 364W	56P09- 82	56TB2-G 2	IG CDU ERROR SIG RET
A 366W	56P09- 83	56TB2-R 2	OG CDU ERROR SIG RET
A 384	56P09- 84	56TB2-D 5	0 VDC IMU
A 368	56P09- 85	56TB3-C 5	IRIG TEMP (TELEMETRY)
A 383R	56P09- 86	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
A 372R	56P09- 87	56TB3-D 9	SHAFT CDU MDA (TEST) HI
A 372W	56P09- 88	56TB3-D10	SHAFT CDU MDA (TEST) LO
A 374R	56P09- 89	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
A 375R	56P09- 90	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
A 376R	56P09- 91	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
A 376W	56P09- 92	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
A 352R	56P09- 93	56TB1-D 4	IG TORQUE MOTOR RET
A 354R	56P09- 94	56TB1-B 2	OG TORQUE MOTOR RET
A 354W	56P09- 95	56TB1-A 2	OG TORQUE MOTOR HI
A 364R	56P09- 96	56TB2-H 2	IG CDU 1X ERROR SIG
A 369	56P09- 97	56TB3-D 5	HTR CURRENT (TELEMETERY)
A 367	56P09- 98	56TB3-D 4	ACCEL TEMP (TELEMETRY)
A 383W	56P09- 99	56TB3-C 8	TRUNNION CDU MDA LO (TEST)
A 373R	56P09-100	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
A 373W	56P09-101	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)
A 374W	56P09-102	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
A 375W	56P09-103	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
A 377R	56P09-104	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
A 377W	56P09-105	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
A 352W	56P09-106	56TB1-D 3	IG TORQUE MOTOR HI
A 353R	56P09-107	56TB1-A 3	MG TORQUE MOTOR RET
A 353W	56P09-108	56TB1-A 4	MG TORQUE MOTOR HI

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 113

MIL 2074 12-62

INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 355R	56P09- 1	56TB3-D13	SIN AIG 1X RET
A 356R	56P09- 2	56TB3-F13	COS AIG 1X RET
A 356W	56P09- 3	56TB3-F14	COS AIG 1X
A 330	56P09- 4	56TB3-R20	+28 VDC AGC
A 317R	56P09- 5	56TB3-T19	+20 VDC CONDITIONING
A 317W	56P09- 6	56TB3-S19	0 VDC CONDITIONING
A 386W	56P09- 7	56TB3-R19	+2.5 VDC CONDITIONING HI
A 318W	56P09- 8	56TB3-R21	800 CPS 28 V 1 PCT LO IMU
A 318R	56P09- 9	56TB3-R22	800 CPS 28 V 1 PCT HI IMU
A 342	56P09- 10	56TB3-F 5	GIMBAL LOCK SIGNAL
A 344	56P09- 11	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI
A 336	56P09- 12	56TB1-H 8	ERROR DETECT LIGHT HI
A 332	56P09- 13	56TB1-H 6	AGC POWER SUPPLY FAIL SIG HI
A 355W	56P09- 14	56TB3-D14	SIN AIG 1X
A 357R	56P09- 15	56TB3-C13	SIN AMG 1X RET
A 359R	56P09- 16	56TB2-U 7	SIN AOG 1X S2
A 359W	56P09- 17	56TB2-U 8	SIN AOG 1X S4
A 331	56P09- 18	56TB3-N19	0 VDC AGC
A 327	56P09- 19	56TB3-T21	+28 VDC IMU
A 326	56P09- 20	56TB3-N22	+28 VDC STBY
A 386R	56P09- 21	56TB3-S20	+2.5 VDC CONDITIONING LO
A 320R	56P09- 22	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
A 343	56P09- 23	56TB1-S 5	0 VDC IMU
A 348	56P09- 24	56E 21	0 VDC IMU
A 341	56P09- 25	56E 21	0 VDC IMU
A 340	56P09- 26	56E 21	0 VDC IMU
A 337	56P09- 27	56E 21	0 VDC IMU
A 358R	56P09- 28	56TB3-N20	COS AMG 1X S3
A 357W	56P09- 29	56TB3-C14	SIN AMG 1X
A 360R	56P09- 30	56TB2-N 8	COS AOG 1X S3
A 360W	56P09- 31	56TB2-N 7	COS AOG 1X S1
A 385	56P09- 32	56TB2-F 4	0 VDC IMU
A 349	56P09- 33	56TB1-L 2	X PIP ERROR MONITOR
A 320W	56P09- 34	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU
A 346	56P09- 35	56TB3-B 4	ZERO ENCODER LIGHT HI
A 347	56P09- 36	56E 21	0 VDC IMU
A 339	56P09- 37	56E 21	0 VDC IMU
A 338W	56P09- 38	56TB2-R 3	OG CDU ERROR SIG RET
A 338R	56P09- 39	56TB2-N 3	OG CDU 16X ERROR SIG
A 358W	56P09- 40	56TB3-N21	COS AMG 1X S1

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 111

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 461	56P10- 8	56J22-171	MAIN PANEL GIMBAL LOCK LIGHT
A 462	56P10- 9	56TB3-F 1	0 VDC SPACECRAFT
A 453	56P10- 10	56J09- 29	
A 454	56P10- 12	56TB3-F 5	GIMBAL LOCK SIGNAL
A 452	56P10- 13	56TB1-S 5	0 VDC IMU
A 463	56P10- 22	56TB3-F 2	MAIN PANEL CONDITION LAMP TEST
A 455	56P10- 24	56TB2-S 8	GIMBAL LOCK LIGHT HI
A 459R	56P10- 38	56TB3-K 6	400 CPS 0.5 V ZERO PHASE
A 459W	56P10- 39	56TB3-L 6	400 CPS 0.5 V PI PHASE
* A 447	56P10- 48	56J09- 95	400 CPS 26 V HI
A 460	56P10- 49	56TB3-B14	400 CPS 26 V LO
A 456W	56P10- 68	56TB3-K14	400 CPS 115 V LO
A 456R	56P10- 69	56TB3-L14	400 CPS 115 V HI
A 457L	56P10- 81	56TB1-T 2	400 CPS 6 V LO
* A 432W	56P10- 93	56J09- 62	400 CPS 5.5 V HI
A 457R	56P10- 94	56TB1-R 2	400 CPS 6 V LO
A 457W	56P10- 95	56TB1-S 2	400 CPS 6 V LO
* A 432R	56P10-106	56J09- 61	400 CPS 5.5 V HI
* A 432L	56P10-107	56J09- 53	400 CPS 6 V HI
* A 432K	56P10-108	56J09- 52	400 CPS 6 V LO

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 114

MIL 2074 12-62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA162W	56J15-F1	5-TB2-B 6	MG CDU ENCODER PHASE 1	
	AA162L	56J15-F2	56TB2-C 6	MG CDU ENCODER COM	
	AA171L	56J15-F7	56TB2-C 8	SIN AIG 16X TO CDU	
	AA172W	56J15-F8	56TB2-A 7	SIN AMG 16X S2	
	AA172R	56J15-F9	56TB2-B 7	SIN AMG 16X S4	
	AA170	56J15-H4	56TB2-C 1	FINE ALIGN RELAY CONTROL	
	AA184	56J15-H4	56J16-L1	FINE ALIGN RELAY CONTROL	
	AA178	56J15-H5	56J20-H4	+28 VDC AGC	
	AA187	56J15-K3	56J16-N4	STRUCTURE GND	
*	AA151	56J15-K3	56J14-H5	STRUCTURE GND	
*	AA471W	56J15-K4	56J21- 95	- DELTA V Z	137B
*	AA472W	56J15-K5	56J21-128	+ DELTA V Z	136B
*	AA470W	56J15-K6	56J21-161	- DELTA V Y	135B
*	AA138	56J15-L1	56J14-H3	PIPA INTERROGATE PULSE	
*	AA148	56J15-L2	56J14-F6	P Z	
*	AA116	56J15-L3	56J13-D3	P Y	
*	AA114	56J15-L4	56J13-D1	P X	
	AA158	56J15-L5	56E 35	COMPUTER RET	
	AA159	56J15-L5	56E 36	COMPUTER RET	
	AA160	56J15-L5	56E 37	COMPUTER RET	
*	AA469W	56J15-L6	56J21-195	+ DELTA V Y	134B
*	AA145	56J15-M1	56J14-H4	GYRO DATA PULSE	
*	AA149	56J15-M2	56J14-G6	N Z	
*	AA117	56J15-M3	56J13-F3	N Y	
*	AA115	56J15-M4	56J13-F1	N X	
*	AA467W	56J15-M5	56J21-126	+ DELTA V X	132B
*	AA468W	56J15-M6	56J21- 93	- DELTA V X	133B
*	AA146	56J15-N1	56J14-K3	PIPA SWITCHING PULSE	
*	AA143	56J15-N2	56J14-C1	+ SET X GYRO CAGE	
*	AA141	56J15-N3	56J14-C3	+ SET Y GYRO CAGE	
*	AA139	56J15-N4	56J14-C5	+ SET Z GYRO CAGE	
*	AA 50R	56J15-N5	56J12-P5	25.6 KC LO IMU	
*	AA 50W	56J15-N6	56J12-N5	25.6 KC HI IMU	
	AA157W	56J15-P1	56J21-101	GYRO RESET PULSE	148A
*	AA147	56J15-P1	56J14-K4	GYRO RESET PULSE	
*	AA144	56J15-P2	56J14-C2	- SET X GYRO CAGE	
*	AA142	56J15-P3	56J14-C4	- SET Y GYRO CAGE	
*	AA140	56J15-P4	56J14-C6	- SET Z GYRO CAGE	
	AA185R	56J15-P5	56J16-S3	800 CPS 28 V 1 PCT LO IMU	
*	AA 49R	56J15-P5	56J12-P3	800 CPS 28 V 1 PCT LO IMU	

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99974	A	1014607
SCALE-NONE	REV LTR	SHEET 76

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA185W	56J15-P6	56J16-S4	800 CPS 28 V 1 PCT HI IMU	
*	AA 49W	56J15-P6	56J12-N3	800 CPS 28 V 1 PCT HI IMU	
	AA156	56J15-R1	56TB2-C 2	BACKUP MODE RELAY CONTROL	
	AA157R	56J15-R2	56J21-102	0 VDC IMU	148B
*	AA153	56J15-R2	56J14-R6	0 VDC IMU	
*	AA 48R	56J15-R4	56J12-K2	3200 CPS 2 V LO	
	AA188R	56J15-R5	56J17-L4	+120 VDC RET PIP	
*	AA150R	56J15-R5	56J14-R1	+120 VDC RET PIP	
	AA177	56J15-R6	56TB2-D 1	+28 VDC CDU NOT LOCK	
	AA173	56J15-S1	56TB2-B 2	ZERO ENCODER RELAY CONTROL	
	AA183	56J15-S1	56J16-L2	ZERO ENCODER RELAY CONTROL	
	AA179	56J15-S2	56J20-K1	+28 VDC IMU	
*	AA152	56J15-S2	56J14-S6	+28 VDC IMU	
	AA174	56J15-S3	56TB2-B 1	LOCK CDU RELAY CONTROL	
	AA175	56J15-S3	56J22-227	LOCK CDU RELAY CONTROL	
*	AA 48W	56J15-S4	56J12-H2	3200 CPS 2 V HI	
	AA188W	56J15-S5	56J17-L5	+120 VDC PIP	
*	AA150W	56J15-S5	56J14-S1	+120 VDC PIP	
	AA186	56J15-S6	56J16-S2	+28 VDC IMU	
*	AA 1	56J15-S6	56J11-S4	+28 VDC IMU	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 77

MIL 2074 12-62

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA155W	56J15-A1	56TB1-C 8	Z GYRO ERROR SIG	
	AA155R	56J15-A2	56TB1-B 8	IMU IG AND Y GYRO ERROR SIG	
*	AA488W	56J15-A3	56J21-188	MANUAL CDU MODE INDICATION TO AGC	160A
	AA180R	56J15-A4	56J16-B2	IG DAC MDA SIG HI	
	AA164	56J15-A5	56E 38	IG DAC MDA SIG LO	
	AA167	56J15-A5	56E 39	IG DAC MDA SIG LO	
	AA180W	56J15-A5	56J16-B1	IG DAC MDA SIG LO	
	AA181R	56J15-A6	56J16-B4	MG DAC MDA SIG HI	
	AA165	56J15-A7	56E 40	MG DAC MDA SIG LO	
	AA168	56J15-A7	56E 41	MG DAC MDA SIG LO	
	AA181W	56J15-A7	56J16-B3	MG DAC MDA SIG LO	
	AA182R	56J15-A8	56J16-B6	OG DAC MDA SIG HI	
	AA166	56J15-A9	56E 42	OG DAC MDA SIG LO	
	AA169	56J15-A9	56E 43	OG DAC MDA SIG LO	
	AA182W	56J15-A9	56J16-B5	OG DAC MDA SIG LO	
	AA155L	56J15-B1	56TB1-C 7	X GYRO ERROR SIG	
	AA155K	56J15-B2	56TB1-B 7	IMU GIMBAL AND GYRO ERROR SIG LO	
	AA176W	56J15-B3	56TB2-D 2	AGC COM	
*	AA475W	56J15-B4	56J21- 24	IG ENCODER + DELTA THETA	120A
*	AA481W	56J15-B5	56J21-237	IG CDU + DELTA THETA COMMAND	128A
*	AA477W	56J15-B6	56J21-232	MG ENCODER + DELTA THETA	122A
*	AA483W	56J15-B7	56J21-165	MG CDU + DELTA THETA COMMAND	130A
*	AA479W	56J15-B8	56J21- 56	OG ENCODER + DELTA THETA	118A
*	AA485W	56J15-B9	56J21- 64	OG CDU + DELTA THETA COMMAND	126A
	AA161R	56J15-C1	56TB2-A 5	IG CDU ENCODER COM	
	AA161W	56J15-C2	56TB2-B 5	IG CDU ENCODER PHASE 1	
	AA163L	56J15-C3	56TB2-C 4	OG CDU ENCODER PHASE 2	
*	AA476R	56J15-C4	56J21- 26	IG ENCODER - DELTA THETA	121A
*	AA482R	56J15-C5	56J21-199	IG CDU - DELTA THETA COMMAND	129A
*	AA478R	56J15-C6	56J21-192	MG ENCODER - DELTA THETA	123A
*	AA484R	56J15-C7	56J21- 97	MG CDU - DELTA THETA COMMAND	131A
*	AA480R	56J15-C8	56J21- 58	OG ENCODER - DELTA THETA	119A
*	AA486R	56J15-C9	56J21- 30	OG CDU - DELTA THETA COMMAND	127A
	AA161L	56J15-D1	56TB2-C 5	IG CDU ENCODER PHASE 2	
	AA162R	56J15-D2	56TB2-A 6	MG CDU ENCODER PHASE 2	
	AA163R	56J15-D3	56TB2-A 4	OG CDU ENCODER COM	
	AA163W	56J15-D4	56TB2-B 4	OG CDU ENCODER PHASE 1	
	AA171R	56J15-D7	56TB2-B 8	SIN AIG 16X S4	
	AA171W	56J15-D8	56TB2-A 8	SIN AIG 16X S2	
	AA172L	56J15-D9	56TB2-C 7	SIN AMG 16X TO CDU	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 75

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA197R	56J16-A1	56TB2-U 6	IG CDU MDA TACH SIG	
	AA197W	56J16-A2	56TB2-T 6	IG CDU MDA SLEW SIG	
	AA202R	56J16-A3	56TB2-W 5	MG CDU MDA TACH SIG	
	AA202W	56J16-A4	56TB2-X 5	MG CDU MDA SLEW SIG	
	AA214R	56J16-A5	56TB2-N 6	OG CDU MDA TACH SIG	
	AA214W	56J16-A6	56TB2-R 6	OG CDU MDA SLEW SIG	
*	AA489W	56J16-A7	56J21-152	ZERO ENCODER MODE INDICATION TO AGC	158A
	AA205W	56J16-A8	56TB2-U 7	SIN AOG 1X S2	
	AA205R	56J16-A9	56TB2-U 8	SIN AOG 1X S4	
	AA197L	56J16-B1	56TB2-T 7	IG CDU MDA INPUT RET	
*	AA180W	56J16-B1	56J15-A5	IG DAC MDA SIG LO	
*	AA197A	56J16-B1	SHLD AA197	IG CDU MDA INPUT RET	
*	AA180R	56J16-B2	56J15-A4	IG DAC MDA SIG HI	
	AA202L	56J16-B3	56TB2-X 6	MG CDU MDA INPUT RET	
*	AA181W	56J16-B3	56J15-A7	MG DAC MDA SIG LO	
*	AA202A	56J16-B3	SHLD AA202	MG CDU MDA INPUT RET	
*	AA181R	56J16-B4	56J15-A6	MG DAC MDA SIG HI	
	AA214L	56J16-B5	56TB2-R 7	OG CDU MDA INPUT RET	
*	AA182W	56J16-B5	56J15-A9	OG DAC MDA SIG LO	
*	AA214A	56J16-B5	SHLD AA214	OG CDU MDA INPUT RET	
*	AA182R	56J16-B6	56J15-A8	OG DAC MDA SIG HI	
*	AA569W	56J16-B7	56TB2-D 2	AGC COM	
	AA204W	56J16-B8	56TB2-N 8	COS AOG 1X S3	
	AA205L	56J16-B9	56TB2-T 8	SIN AOG 1X TO CDU	
	AA196W	56J16-C1	56TB2-H 1	IG CDU 16X ERROR SIG	
	AA195W	56J16-C2	56TB2-H 2	IG CDU 1X ERROR SIG	
	AA201W	56J16-C3	56TB2-H 8	MG CDU 16X ERROR SIG	
	AA200W	56J16-C4	56TB2-H 7	MG CDU 1X ERROR SIG	
	AA208R	56J16-C5	56TB2-N 3	OG CDU 16X ERROR SIG	
	AA207W	56J16-C6	56TB2-N 2	OG CDU 1X ERROR SIG	
	AA204R	56J16-C8	56TB2-N 7	COS AOG 1X S1	
	AA204L	56J16-C9	56TB2-R 8	COS AOG 1X TO CDU	
	AA194W	56J16-D1	56TB2-H 3	IG CDU 1/2X ERROR SIG	
	AA194R	56J16-D2	56TB2-G 3	IG CDU ERROR SIG RET	
	AA195R	56J16-D2	56TB2-G 2	IG CDU ERROR SIG RET	
	AA196R	56J16-D2	56TB2-G 1	IG CDU ERROR SIG RET	
	AA199W	56J16-D3	56TB2-H 6	MG CDU 1/2X ERROR SIG	
	AA199R	56J16-D4	56TB2-G 6	MG CDU ERROR SIG RET	
	AA200R	56J16-D4	56TB2-G 7	MG CDU ERROR SIG RET	
	AA201R	56J16-D4	56TB2-G 8	MG CDU ERROR SIG RET	

CODE IDENT NO.	SIZE	
99974	A	1014607
SCALE-NONE	REV LTR	SHEET 78

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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA233R	56J16-N5	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA192R	56J16-N6	56J20-M4	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA225R	56J16-N6	56TB2-L 8	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS
	AA198R	56J16-P1	56TB2-L 6	IG CDU MDA OUTPUT
	AA223	56J16-P2	56TB2-K 4	0 VDC IMU
	AA203R	56J16-P3	56TB2-K 3	MG CDU MDA OUTPUT
	AA222W	56J16-P4	56TB2-G 5	IMU RSVR EXC 800 CPS 28 V 1 PCT LO IMU
	AA191W	56J16-P5	56J20-K3	800 CPS 28 V 1 PCT HI OPTICS
	AA224W	56J16-P5	56TB2-K 1	800 CPS 28 V 1 PCT HI OPTICS
	AA233W	56J16-P5	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA192W	56J16-P6	56J20-L4	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA225W	56J16-P6	56TB2-N 4	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS
	AA198W	56J16-R1	56TB2-L 5	IG CDU MDA OUTPUT
*	AA 59	56J16-R2	56J12-G5	0 VDC IMU
	AA203W	56J16-R3	56TB2-L 3	MG CDU MDA OUTPUT
	AA222K	56J16-R4	56TB2-H 5	ZEROING RSVR 800 CPS
	AA228	56J16-R5	56TB3-L20	0 VDC OPTICS
	AA229	56J16-R6	56TB3-L20	0 VDC OPTICS
	AA210	56J16-S1	56TB2-N 5	+28 VDC IMU FOR IG MDA
	AA193	56J16-S2	56J20-K2	+28 VDC IMU
*	AA186	56J16-S2	56J15-S6	+28 VDC IMU
	AA222L	56J16-S3	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
*	AA185R	56J16-S3	56J15-P5	800 CPS 28 V 1 PCT LO IMU
	AA222R	56J16-S4	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
*	AA185W	56J16-S4	56J15-P6	800 CPS 28 V 1 PCT HI IMU
	AA189	56J16-S5	56J20-N5	+28 VDC OPTICS
	AA190	56J16-S6	56J20-N6	+28 VDC OPTICS
	AA211	56J16-T1	56TB2-R 5	+28 VDC IMU FOR MG MDA
	AA212	56J16-T2	56TB2-K 8	+28 VDC IMU FOR OG MDA

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR
SHEET 80

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA 11W	56J17-A1	56J11-C3	OG CDU ATTITUDE STEERING ERROR
*	AA571W	56J17-A2	56TB2-N 3	OG CDU 16X ERROR SIG
	AA287W	56J17-A3	56J22- 1	ROLL ERROR BODY OFFSET AXIS HI
	AA244W	56J17-A4	56J22- 3	ROLL ERROR BODY AXIS HI
	AA281W	56J17-A6	56TB3-T 4	TRUNNION CDU ENCODER PHASE 1
	AA281R	56J17-A7	56TB3-T 3	TRUNNION CDU ENCODER COM
	AA281L	56J17-A8	56TB3-T 2	TRUNNION CDU ENCODER PHASE 2
	AA285	56J17-A9	56TB3-M 3	TRUNNION ENCODER PIN 8
*	AA 11R	56J17-B1	56J11-B3	OG CDU ERROR SIG RET
*	AA571R	56J17-B2	56TB2-R 3	OG CDU ERROR SIG RET
	AA287R	56J17-B3	56J22- 39	ROLL ERROR BODY OFFSET AXIS LO
	AA244R	56J17-B4	56J22- 4	ROLL ERROR BODY AXIS LO
	AA268	56J17-B5	56TB3-L 3	IRIG TEMP CONT SENSOR RET
	AA267	56J17-B6	56TB3-L 4	IRIG TEMP CONT SENSOR HI
	AA252	56J17-B7	56TB3-H 3	IMU TEMP CONT -5 DEG GAIN CHECK
	AA253	56J17-B8	56TB3-G 3	IRIG ZERO DEVIATION CHECK
	AA286	56J17-B9	56TB3-K 4	TRUNNION ENCODER PIN 9
	AA288R	56J17-C1	56J22- 10	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289W	56J17-C1	56TB3-R 1	PITCH ERROR BODY AND BODY OFFSET AXIS LO
	AA289R	56J17-C2	56TB3-R 2	PITCH-YAW RSVR S4
	AA246W	56J17-C3	56J22- 45	YAW ERROR BODY OFFSET AXIS HI
	AA245W	56J17-C4	56J22- 6	YAW ERROR BODY AXIS HI
	AA266	56J17-C5	56TB3-K 3	IRIG TEMP IND SENSOR RET
	AA276	56J17-C6	56TB3-H 4	IRIG TEMP IND SENSOR HI
	AA254	56J17-C7	56TB3-G 4	IRIG TEMP BRIDGE AMP PIN 6
	AA290	56J17-C8	56TB3-L 1	IRIG TEMP GAIN SWITCH NC
	AA284W	56J17-C9	56TB3-T 5	SHAFT CDU ENCODER PHASE 1
	AA288W	56J17-D1	56J22- 48	PITCH ERROR BODY AND BODY OFFSET AXIS HI
	AA247R	56J17-D2	56TB3-R 4	PITCH YAW RSVR S3
	AA246R	56J17-D3	56J22- 46	YAW ERROR BODY OFFSET AXIS LO
	AA247W	56J17-D3	56TB3-R 5	YAW ERROR BODY OFFSET AXIS LO
	AA245R	56J17-D4	56J22- 43	YAW ERROR BODY AXIS LO
	AA269	56J17-D5	56TB3-M 1	ACCEL TEMP IND SENSOR RET
	AA255	56J17-D6	56TB3-M 5	IMU IMU TEMP CONT +5 DEG GAIN CHECK
	AA256	56J17-D7	56TB3-M 4	ACCEL ZERO DEVIATION CHECK
	AA251	56J17-D8	56TB3-M 2	IMU TD RELAY C
	AA284R	56J17-D9	56TB3-S 5	SHAFT CDU ENCODER COM
	AA274	56J17-F3	56TB3-D 5	HTR CURRENT (TELEMETRY)
	AA273	56J17-F4	56TB3-C 5	IRIG TEMP (TELEMETRY)
	AA272	56J17-F5	56TB3-D 4	ACCEL TEMP (TELEMETRY)

CODE IDENT NO. 99974
SIZE A
1014607
SCALE-NONE
REV LTR
SHEET 81

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA206W	56J16-D5	56TB2-N 1	OG CDU 1/2X ERROR SIG	
	AA206R	56J16-D6	56TB2-R 1	OG CDU ERROR SIG RET	
	AA207R	56J16-D6	56TB2-R 2	OG CDU ERROR SIG RET	
	AA208W	56J16-D6	56TB2-R 3	OG CDU ERROR SIG RET	
	AA209W	56J16-D7	56TB2-W 4	COS AOG 16X S3	
	AA213W	56J16-D8	56TB2-X 3	SIN AOG 16X S2	
	AA213R	56J16-D9	56TB2-W 2	SIN AOG 16X S4	
	AA216	56J16-F2	56TB2-W 1	IG CDU 1X RSVR LOAD	
	AA217	56J16-F4	56TB2-X 1	MG CDU 1X RSVR LOAD	
	AA219	56J16-F5	56TB2-T 1	OG CDU 16X RSVR LOAD	
	AA218	56J16-F6	56TB2-U 1	OG CDU 1X RSVR LOAD	
	AA209R	56J16-F7	56TB2-W 3	COS AOG 16X S1	
	AA209L	56J16-F8	56TB2-X 4	COS AOG 16X TO CDU	
	AA213L	56J16-F9	56TB2-X 2	SIN AOG 16X TO CDU	
	AA230R	56J16-G1	56TB2-X 7	COS AIG 16X S1	
	AA230L	56J16-G2	56TB2-W 7	COS AIG 16X TO CDU	
	AA231R	56J16-G3	56TB2-T 5	COS AMG 16X S1	
	AA231L	56J16-G4	56TB2-U 4	COS AMG 16X TO CDU	
	AA230W	56J16-H1	56TB2-W 6	COS AIG 16X S3	
	AA231W	56J16-H3	56TB2-U 5	COS AMG 16X S3	
	AA220	56J16-L1	56J22-228	FINE ALIGN RELAY CONTROL	
*	AA184	56J16-L1	56J15-H4	FINE ALIGN RELAY CONTROL	
*	AA183	56J16-L2	56J15-S1	ZERO ENCODER RELAY CONTROL	
	AA226W	56J16-L3	56J21- 35	COMPUTER 800 PPS SYNC RET	150B
	AA227W	56J16-L3	56J21- 68	COMPUTER 800 PPS SYNC RET	149A
	AA232W	56J16-L3	56E 31	COMPUTER 800 PPS SYNC RET	
	AA226R	56J16-L4	56J21- 34	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
	AA232L	56J16-L4	56J12-D1	COMPUTER 800 PPS OUT OF PHASE SYNC	
	AA221	56J16-M1	56TB2-R 4	ENTRY RELAY CONTROL	
*	AA 56	56J16-M2	56J12-H5	IG CDU FAILURE INDICATION	
*	AA 57	56J16-M3	56J12-H6	MG CDU FAILURE INDICATION	
	AA227R	56J16-M4	56J21- 69	COMPUTER 800 PPS IN PHASE SYNC	149B
	AA232R	56J16-M4	56J12-D2	COMPUTER 800 PPS IN PHASE SYNC	
	AA215W	56J16-N1	56TB2-K 6	OG CDU MDA OUTPUT	
	AA215R	56J16-N2	56TB2-K 5	OG CDU MDA OUTPUT	
*	AA 58	56J16-N3	56J12-G6	OG CDU FAILURE INDICATION	
	AA234	56J16-N4	56J17-L6	STRUCTURE GND	
*	AA187	56J16-N4	56J15-K3	STRUCTURE GND	
	AA191R	56J16-N5	56J20-L3	800 CPS 28 V 1 PCT LO OPTICS	
	AA224R	56J16-N5	56TB2-L 1	800 CPS 28 V 1 PCT LO OPTICS	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA271	56J17-F6	56TB3-C 4	BLOWER CURRENT SENSOR (TELEMETERY)
	AA257	56J17-F7	56TB3-C 1	ACCEL BRIDGE AMP PIN 6
	AA249	56J17-F8	56TB3-L 2	IMU TD RELAY NO
	AA284L	56J17-F9	56TB3-S 4	SHAFT CDU ENCODER PHASE 2
	AA261	56J17-G1	56TB3-K 5	IMU TEMP ALARM AMP PIN 14
	AA262	56J17-G2	56TB3-H 5	IMU TEMP ALARM AMP PIN 15
	AA242R	56J17-G4	56J18-L1	SHAFT CDU ENCODER + DELTA THETA
	AA243R	56J17-G6	56J18-L4	TRUNNION CDU ENCODER + DELTA THETA
	AA259	56J17-H1	56TB3-K 2	IMU TEMP ALARM BIAS RESISTOR
	AA260	56J17-H2	56TB3-K 1	IMU TEMP ALARM AMP PIN 5
	AA242W	56J17-H4	56E 53	SHAFT CDU DAC LO
	AA243W	56J17-H6	56E 51	TRUNNION CDU DAC LO
	AA242L	56J17-K4	56J18-K1	SHAFT CDU ENCODER - DELTA THETA
	AA243L	56J17-K6	56J18-K4	TRUNNION CDU ENCODER - DELTA THETA
	AA263	56J17-L1	56TB3-L 5	IMU TEMP CONT K2 PIN 6
	AA279	56J17-L2	56TB3-F 2	MAIN PANEL CONDITION LAMP TEST
*	AA 93	56J17-L2	56J12-H3	MAIN PANEL CONDITION LAMP TEST
	AA293	56J17-L3	56J22-243	IMU TEMP LIGHT (MAIN PANEL)
*	AA188R	56J17-L4	56J15-R5	+120 VDC RET PIP
*	AA188W	56J17-L5	56J15-S5	+120 VDC PIP
	AA241	56J17-L6	56J18-R5	STRUCTURE GND
*	AA234	56J17-L6	56J16-N4	STRUCTURE GND
	AA264	56J17-M1	56TB3-D 1	0 VDC IMU
	AA277	56J17-M2	56TB3-G 5	IMU TEMP SENSOR COM
	AA278	56J17-M3	56TB3-F 1	0 VDC SPACECRAFT
	AA292	56J17-M3	56J22-206	0 VDC SPACECRAFT
*	AA 97	56J17-M3	56J12-F3	0 VDC SPACECRAFT
	AA265W	56J17-M4	56TB3-N 1	IMU EMERGENCY HTR HI
	AA258W	56J17-M5	56TB3-H 2	IMU TEMP CONT K1 PIN 3
	AA258R	56J17-M6	56TB3-H 1	IMU TEMP CONT AMP PIN 5
	AA270W	56J17-N1	56TB3-N 4	IMU CONTROL HTR LO
*	AA 12W	56J17-N2	56J11-P1	3200 CPS 20 V HI
*	AA 94R	56J17-N3	56J12-N6	25.6 KC LO OPTICS
	AA265R	56J17-N4	56TB3-N 2	EMERGENCY HTR LO-OPER AND STBY
	AA258L	56J17-N5	56TB3-G 2	IMU TEMP CONT K2 PIN 5
	AA258K	56J17-N6	56TB3-G 1	IMU HTR CURRENT AMP PIN 5
	AA270R	56J17-P1	56TB3-N 5	IMU CONTROL HTR HI
*	AA 12R	56J17-P2	56J11-N1	3200 CPS 20 V CT
*	AA 94W	56J17-P3	56J12-P6	25.6 KC HI OPTICS
	AA250R	56J17-P4	56TB3-C 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU

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INCHES
0 1 2
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA275	56J17-P5	56TB3-D 3	IMU TEMP CONT FAIL LIGHT HI	
	AA235	56J17-P6	56TB3-F 3	CONDITION LAMP TEST	
*	AA 13	56J17-R1	56J11-S3	+28 VDC STBY	
*	AA 12L	56J17-R2	56J11-N2	3200 CPS 20 V LO	
*	AA 92W	56J17-R3	56J12-P4	COMPUTER 12.8 KPPS SYNC	
*	AA500R	56J17-R3	56J21-103	COMPUTER 12.8 KPPS SYNC	155A
	AA250W	56J17-R4	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU	
	AA280	56J17-R5	56TB3-M21	+28 VDC MDV	
	AA282	56J17-R6	56TB3-L21	0 VDC OPTICS	
	AA283	56J17-R6	56J17-S6	0 VDC OPTICS	
	AA291	56J17-S1	56J17-S2	0 VDC IMU	
	AA296	56J17-S1	56TB3-N 3	0 VDC IMU	
	AA248	56J17-S2	56TB3-S 2	0 VDC IMU	
*	AA291	56J17-S2	56J17-S1	0 VDC IMU	
	AA295	56J17-S3	56TB3-N 3	0 VDC IMU	
	AA297	56J17-S4	56TB3-R 3	0 VDC IMU	
*	AA154R	56J17-S5	56J14-R4	+32 VDC RET PIP	
*	AA283	56J17-S6	56J17-R6	0 VDC OPTICS	
	AA238	56J17-T1	56J20-P3	+28 VDC STBY	
	AA294	56J17-T1	56J17-T2	+28 VDC STBY	
	AA239	56J17-T2	56J20-P4	+28 VDC STBY	
*	AA294	56J17-T2	56J17-T1	+28 VDC STBY	
	AA237	56J17-T3	56J20-M2	+28 VDC IMU	
	AA236	56J17-T4	56J20-M1	+28 VDC IMU	
*	AA154W	56J17-T5	56J14-S4	+32 VDC PIP	
	AA240	56J17-T6	56J18-S1	+28 VDC OPTICS	

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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
AA308W	56J18-A1	56TB3-S 8	SXT AT 64X RSVR COS HI
AA309W	56J18-A2	56TB3-T10	TRUNNION CDU 16X RSVR COS HI P1
AA309R	56J18-A3	56TB3-T11	TRUNNION CDU 16X RSVR COS LO P3
AA313W	56J18-A4	56TB3-N 8	SHAFT CDU 16X RSVR COS HI P1
AA313R	56J18-A5	56TB3-N 7	SHAFT CDU 16X RSVR COS LO P3
AA317W	56J18-A6	56TB3-L10	TRUNNION CDU 1/2X RSVR P2
AA316R	56J18-A7	56TB3-L 8	SHAFT CDU TACH LO
AA316W	56J18-A8	56TB3-L 7	SHAFT CDU TACH HI
AA315W	56J18-A9	56TB3-M 8	TRUNION CDU TACH HI
AA308R	56J18-B1	56TB3-S 7	SXT AT 64X RSVR COS LO
AA307R	56J18-B2	56TB3-T 7	SXT AT 64X RSVR SIN HI
AA310W	56J18-B3	56TB3-S10	TRUNNION CDU 16X RSVR SIN HI P2
AA310R	56J18-B4	56TB3-S11	TRUNNION CDU 16X RSVR SIN LO P4
AA314W	56J18-B5	56TB3-N10	SHAFT CDU 16X RSVR SIN HI P2
AA317R	56J18-B6	56TB3-L11	TRUNNION CDU 1/2X RSVR P3
AA300W	56J18-B8	56J19-C2	TRUNNION CDU 16X ERROR SIG HI
AA329W	56J18-B8	56TB3-H 8	TRUNNION CDU 16X ERROR SIG HI
AA315R	56J18-B9	56TB3-M 7	TRUNION CDU TACH LO
AA312R	56J18-C1	56TB3-R11	SXT AS 16X RSVR COS HI
AA307W	56J18-C2	56TB3-T 8	SXT AT 64X RSVR SIN LO
AA314R	56J18-C5	56TB3-N11	SHAFT CDU 16X RSVR SIN LO P4
AA334W	56J18-C6	56TB3-G14	SHAFT CDU 1X SIN OUTPUT HI
AA335W	56J18-C7	56TB3-G11	TRUNNION CDU MDA CONTROLLER SIG HI
AA300R	56J18-C8	56J19-B2	TRUNNION CDU 16X ERROR SIG LO
AA329R	56J18-C8	56TB3-H 7	TRUNNION CDU 16X ERROR SIG LO
AA301W	56J18-C9	56J19-B4	SHAFT CDU 16X ERROR SIG HI
AA331W	56J18-C9	56TB3-H10	SHAFT CDU 16X ERROR SIG HI
AA312W	56J18-D1	56TB3-R10	SXT AS 16X RSVR COS LO
AA311W	56J18-D2	56TB3-R 8	SXT AS 16X RSVR SIN HI
AA311R	56J18-D3	56TB3-R 7	SXT AS 16X RSVR SIN LO
AA338R	56J18-D4	56TB3-K 7	SHAFT CDU 1X COS OUTPUT HI
AA338W	56J18-D5	56TB3-K 8	SHAFT CDU 1X COS OUTPUT LO
AA334R	56J18-D6	56TB3-G13	SHAFT CDU 1X SIN OUTPUT LO
AA335R	56J18-D7	56TB3-G12	TRUNNION CDU MDA CONTROLLER SIG LO
AA326W	56J18-D8	56TB3-M10	RSVR DRIVE AMP TRUNNION SIG (RSVD) HI
AA301R	56J18-D9	56J19-B3	SHAFT CDU 16X ERROR SIG LO
AA331R	56J18-D9	56TB3-H11	SHAFT CDU 16X ERROR SIG LO
AA299W	56J18-F1	56J19-D4	TRUNNION CDU 1/4X SIN HI
AA330W	56J18-F1	56TB3-G10	TRUNNION CDU 1/4X SIN HI
AA299R	56J18-F2	56J19-F4	TRUNNION CDU 1/4X SIN LO

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
	AA330R	56J18-F2	56TB3-F10	TRUNNION CDU 1/4X SIN LO	
	AA318W	56J18-F3	56TB3-L12	TRUNNION CDU 1/2X RSVR LOAD HI	
	AA318R	56J18-F4	56TB3-K12	TRUNNION CDU 1/2X RSVR LOAD LO	
	AA336W	56J18-F6	56TB3-F11	SHAFT CDU MDA CONTROLLER SIG HI	
	AA336R	56J18-F7	56TB3-F12	SHAFT CDU MDA CONTROLLER SIG LO	
	AA326R	56J18-F8	56TB3-M12	RSVR DRIVE AMP SHAFT SIG (RSVD) HI	
	AA326L	56J18-F9	56TB3-M11	RSVR DRIVE AMP INPUT LO	
	AA332W	56J18-G1	56TB3-K10	SHAFT CDU 1/2X SIN HI S1	
	AA345W	56J18-G2	56TB3-G 8	SHAFT CDU DAC OUTPUT HI	
	AA344W	56J18-G3	56TB3-G 7	TRUNNION CDU DAC OUTPUT HI	
	AA302K	56J18-G5	56J19-H6	COSECANT AMP FEEDBACK SIG HI	
	AA302W	56J18-G6	56J19-G6	COSECANT AMP OUTPUT HI	
	AA332R	56J18-H1	56TB3-K11	SHAFT CDU 1/2X SIN LO S3	
	AA345R	56J18-H2	56TB3-F 8	SHAFT CDU DAC LO	
	AA346	56J18-H2	56E 52	SHAFT CDU DAC LO	
	AA347	56J18-H2	56E 53	SHAFT CDU DAC LO	
	AA344R	56J18-H3	56TB3-F 7	TRUNNION CDU DAC LO	
	AA348	56J18-H3	56E 50	TRUNNION CDU DAC LO	
	AA349	56J18-H3	56E 51	TRUNNION CDU DAC LO	
	AA302L	56J18-H5	56J19-H5	SHAFT CDU MDA COSECANT SIG	
	AA302R	56J18-H6	56J19-G5	COSECANT AMP FEEDBACK SIG LO	
*	AA242L	56J18-K1	56J17-K4	SHAFT CDU ENCODER - DELTA THETA	
*	AA495W	56J18-K1	56J21-123	SHAFT CDU ENCODER - DELTA THETA	111A
*	AA492W	56J18-K2	56J21-163	SHAFT CDU + DELTA THETA COMMAND	116A
*	AA496W	56J18-K3	56J21-235	TRUNNION CDU + DELTA THETA COMMAND	114A
*	AA243L	56J18-K4	56J17-K6	TRUNNION CDU ENCODER - DELTA THETA	
*	AA499W	56J18-K4	56J21-190	TRUNNION CDU ENCODER - DELTA THETA	109A
	AA328W	56J18-K6	56TB3-T12	SHAFT CDU 1X P1 (S1)	
*	AA242R	56J18-L1	56J17-G4	SHAFT CDU ENCODER + DELTA THETA	
*	AA494W	56J18-L1	56J21-156	SHAFT CDU ENCODER + DELTA THETA	110A
*	AA493R	56J18-L2	56J21-130	SHAFT CDU - DELTA THETA COMMAND	117A
*	AA497R	56J18-L3	56J21-197	TRUNNION CDU - DELTA THETA COMMAND	115A
*	AA243R	56J18-L4	56J17-G6	TRUNNION CDU ENCODER + DELTA THETA	
*	AA498W	56J18-L4	56J21-230	TRUNNION CDU ENCODER + DELTA THETA	108A
	AA328R	56J18-L5	56TB3-S12	SHAFT CDU 1X P2 (S2)	
	AA328L	56J18-L6	56TB3-R12	SHAFT CDU 1X P3 (S3)	
	AA340W	56J18-M1	56TB3-C 7	DIRECT TRUNNION CONTROLLER LO (TEST)	
	AA350	56J18-M1	56J18-P3	0 VDC OPTICS	
	AA351	56J18-M1	56J18-M2	0 VDC OPTICS	
	AA352	56J18-M2	56J18-M3	0 VDC OPTICS	

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA351	56J18-M2	56J18-M1	0 VDC OPTICS
	AA341W	56J18-M3	56TB3-C 8	TRUNNION CDU MDA LO (TEST)
	AA353	56J18-M3	56J18-M4	0 VDC OPTICS
*	AA352	56J18-M3	56J18-M2	0 VDC OPTICS
	AA342W	56J18-M4	56TB3-B 8	DIRECT SHAFT CONTROLLER LO (TEST)
	AA354	56J18-M4	56J18-M5	0 VDC OPTICS
*	AA353	56J18-M4	56J18-M3	0 VDC OPTICS
	AA355	56J18-M5	56J18-M6	0 VDC OPTICS
*	AA354	56J18-M5	56J18-M4	0 VDC OPTICS
	AA343W	56J18-M6	56TB3-D10	SHAFT CDU MDA (TEST) LO
*	AA355	56J18-M6	56J18-M5	0 VDC OPTICS
	AA340R	56J18-N1	56TB3-D 7	DIRECT TRUNNION CONTROLLER HI (TEST)
	AA341R	56J18-N3	56TB3-D 8	TRUNNION CDU MDA HI (TEST)
	AA342R	56J18-N4	56TB3-B 7	DIRECT SHAFT CONTROLLER HI (TEST)
	AA343R	56J18-N6	56TB3-D 9	SHAFT CDU MDA (TEST) HI
	AA319	56J18-P1	56TB3-D12	TRUNNION CDU MOTOR CONTROL WINDING
	AA322	56J18-P2	56TB3-D11	SHAFT CDU MOTOR CONTROL WINDING
	AA303	56J18-P3	56J19-R4	0 VDC OPTICS
*	AA350	56J18-P3	56J18-M1	0 VDC OPTICS
	AA320	56J18-R1	56TB3-C12	TRUNNION CDU MOTOR CONTROL WINDING
	AA321	56J18-R2	56TB3-C11	SHAFT CDU MOTOR CONTROL WINDING
	AA333	56J18-R3	56TB3-K20	0 VDC OPTICS
	AA337	56J18-R4	56TB3-B11	ZERO OPTICS RELAY CONTROL
	AA306	56J18-R5	56J19-P3	STRUCTURE GND
*	AA241	56J18-R5	56J17-L6	STRUCTURE GND
	AA298	56J18-S1	56J19-T1	+28 VDC OPTICS
*	AA240	56J18-S1	56J17-T6	+28 VDC OPTICS
	AA323	56J18-S3	56J18-S4	0 VDC OPTICS
	AA325	56J18-S3	56TB3-K20	0 VDC OPTICS
*	AA323	56J18-S4	56J18-S3	0 VDC OPTICS
	AA305	56J18-S5	56J19-P5	0 VDC OPTICS
	AA339	56J18-S5	56J18-T5	0 VDC OPTICS
	AA304R	56J18-S6	56J19-N6	800 CPS 28 V 1 PCT LO OPTICS
*	AA233R	56J18-S6	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS
	AA324	56J18-T3	56J18-T4	0 VDC OPTICS
	AA327	56J18-T3	56TB3-K20	0 VDC OPTICS
*	AA324	56J18-T4	56J18-T3	0 VDC OPTICS
*	AA339	56J18-T5	56J18-S5	0 VDC OPTICS
	AA304W	56J18-T6	56J19-P6	800 CPS 28 V 1 PCT HI OPTICS
*	AA233W	56J18-T6	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS

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INCHES
0 1 2
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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 541	56P12-A	56TB3-G22	+28 VDC AGC BUSS B
A 537	56P12-B	56TB3-D20	+28 VDC IMU BUSS B
A 538	56P12-C	56TB3-D21	+28 VDC IMU BUSS B
A 543	56P12-D	56TB1-N 4	0 VDC IMU
A 544	56P12-E	56TB3-S 2	0 VDC IMU
A 546	56P12-F	56TB2-M 1	0 VDC IMU
A 540	56P12-G	56TB3-C15	0 VDC OPTICS
A 539	56P12-H	56TB3-H22	+28 VDC OPTICS BUSS B
A 542	56P12-J	56TB3-F20	0 VDC AGC
A 545	56P12-L	56TB3-F22	STRUCTURE GND
A 536	56P12-M	56TB3-C22	+28 VDC STBY BUSS B

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INCHES
0 1 2
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INTERCONNECT LIST

CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
A 530	56P11-A	56TB3-G21	+28 VDC AGC BUSS A
A 525	56P11-B	56TB3-C20	+28 VDC IMU BUSS A
A 526	56P11-C	56TB3-C21	+28 VDC IMU BUSS A
A 527	56P11-D	56TB1-D 8	0 VDC IMU
A 534	56P11-E	56TB2-M 7	0 VDC IMU
A 533	56P11-F	56TB2-M 4	0 VDC IMU
A 529	56P11-G	56TB3-D15	0 VDC OPTICS
A 528	56P11-H	56TB3-H21	+28 VDC OPTICS BUSS A
A 531	56P11-J	56TB3-G20	0 VDC AGC
A 532W	56P11-K	56TB3-K14	400 CPS 115 V LO
A 535	56P11-L	56TB3-F21	STRUCTURE GND
A 524	56P11-M	56TB3-D22	+28 VDC STBY BUSS A
A 532R	56P11-N	56TB3-L14	400 CPS 115 V HI

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA302K	56J19-H6	56J18-G5	COSECANT AMP FEEDBACK SIG HI
	AA391W	56J19-K1	56TB3-C10	SXT TRUNNION MDA OUTPUT LO (TEST)
	AA397	56J19-K1	56J19-R4	0 VDC OPTICS
	AA398	56J19-K1	56J19-K2	0 VDC OPTICS
	AA399	56J19-K2	56J19-K3	0 VDC OPTICS
*	AA398	56J19-K2	56J19-K1	0 VDC OPTICS
	AA392W	56J19-K3	56TB3-B10	SXT SHAFT MDA OUTPUT LO (TEST)
	AA400	56J19-K3	56J19-K4	0 VDC OPTICS
*	AA399	56J19-K3	56J19-K2	0 VDC OPTICS
	AA401	56J19-K4	56J19-K5	0 VDC OPTICS
*	AA400	56J19-K4	56J19-K3	0 VDC OPTICS
	AA402	56J19-K5	56J19-K6	0 VDC OPTICS
*	AA401	56J19-K5	56J19-K4	0 VDC OPTICS
*	AA402	56J19-K6	56J19-K5	0 VDC OPTICS
	AA391R	56J19-L1	56TB3-C 9	SXT TRUNNION MDA OUTPUT HI (TEST)
	AA392R	56J19-L3	56TB3-B 9	SXT SHAFT MDA OUTPUT HI (TEST)
	AA388	56J19-M5	56TB3-K18	0 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA387	56J19-M6	56TB3-G18	25 DEG TRUNNION SCT OFFSET RELAY CONTROL
	AA389	56J19-N5	56TB3-L18	COSECANT RELAY CONTROL
*	AA304R	56J19-N6	56J18-S6	800 CPS 28 V 1 PCT LO OPTICS
	AA359R	56J19-P1	56TB3-D18	SXT SHAFT MOTOR CONTROL WINDING
	AA361R	56J19-P2	56TB3-G17	SCT SHAFT MOTOR CONTROL WINDING
	AA356	56J19-P3	56J20-G4	STRUCTURE GND
	AA395	56J19-P3	56J20-G4	STRUCTURE GND
*	AA306	56J19-P3	56J18-R5	STRUCTURE GND
	AA394	56J19-P4	56J19-P5	0 VDC OPTICS
	AA393	56J19-P5	56TB3-K21	0 VDC OPTICS
*	AA305	56J19-P5	56J18-S5	0 VDC OPTICS
*	AA394	56J19-P5	56J19-P4	0 VDC OPTICS
*	AA304W	56J19-P6	56J18-T6	800 CPS 28 V 1 PCT HI OPTICS
	AA359W	56J19-R1	56TB3-F18	SXT SHAFT MOTOR CONTROL WINDING
	AA361W	56J19-R2	56TB3-F17	SCT SHAFT MOTOR CONTROL WINDING
	AA390	56J19-R4	56TB3-K21	0 VDC OPTICS
*	AA303	56J19-R4	56J18-P3	0 VDC OPTICS
*	AA397	56J19-R4	56J19-K1	0 VDC OPTICS
	AA362	56J19-R5	56J19-S4	0 VDC OPTICS
	AA363	56J19-R6	56J19-T4	0 VDC OPTICS
	AA358R	56J19-S2	56TB3-D17	SXT TRUNNION MOTOR CONTROL WINDING
	AA358W	56J19-S3	56TB3-D16	SXT TRUNNION MOTOR CONTROL WINDING
	AA364	56J19-S4	56TB3-K22	0 VDC OPTICS

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SCALE-NONE	REV LTR	SHEET 88

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
*	AA362	56J19-S4	56J19-R5	0 VDC OPTICS
	AA366	56J19-S5	56J19-S6	0 VDC OPTICS
	AA369	56J19-S5	56TB3-K22	0 VDC OPTICS
*	AA366	56J19-S6	56J19-S5	0 VDC OPTICS
	AA357	56J19-T1	56J20-M6	+28 VDC OPTICS
*	AA298	56J19-T1	56J18-S1	+28 VDC OPTICS
	AA360R	56J19-T2	56TB3-C17	SCT TRUNNION MOTOR CONTROL WINDING
	AA360W	56J19-T3	56TB3-C16	SCT TRUNNION MOTOR CONTROL WINDING
	AA365	56J19-T4	56TB3-L22	0 VDC OPTICS
*	AA363	56J19-T4	56J19-R6	0 VDC OPTICS
	AA368	56J19-T5	56J19-T6	0 VDC OPTICS
	AA367	56J19-T6	56TB3-L22	0 VDC OPTICS
*	AA368	56J19-T6	56J19-T5	0 VDC OPTICS

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SCALE-NONE	REV LTR	SHEET 89

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA370W	56J19-A1	56TB3-T16	SXT TRUNNION TACH HI
	AA371R	56J19-A2	56TB3-S16	SXT SHAFT TACH LO
	AA371W	56J19-A3	56TB3-S17	SXT SHAFT TACH HI
	AA375W	56J19-A5	56TB3-H16	SXT SHAFT 1/2X RSVR ERROR HI
	AA378	56J19-A7	56TB3-R18	SCT TRUNNION 1X RSVR LOAD
	AA372R	56J19-A8	56TB3-R16	SCT TRUNNION TACH LO
	AA372W	56J19-A9	56TB3-R17	SCT TRUNNION TACH HI
	AA370R	56J19-B1	56TB3-T17	SXT TRUNNION TACH LO
*	AA300R	56J19-B2	56J18-C8	TRUNNION CDU 16X ERROR SIG LO
*	AA301R	56J19-B3	56J18-D9	SHAFT CDU 16X ERROR SIG LO
*	AA301W	56J19-B4	56J18-C9	SHAFT CDU 16X ERROR SIG HI
	AA375R	56J19-B5	56TB3-H17	SXT SHAFT 1/2X RSVR ERROR LO
	AA377W	56J19-B7	56TB3-K16	SCT TRUNNION 1X RSVR ERROR HI
	AA377R	56J19-B8	56TB3-K17	SCT TRUNNION 1X RSVR ERROR LO
	AA373W	56J19-B9	56TB3-N16	SCT SHAFT TACH HI
*	AA300W	56J19-C2	56J18-B8	TRUNNION CDU 16X ERROR SIG HI
	AA384	56J19-C3	56TB3-N18	TRUNNION CDU 16X LOAD
	AA385	56J19-C4	56TB3-M18	SHAFT CDU 16X LOAD
	AA376	56J19-C5	56TB3-S18	SXT SHAFT 1/2X RSVR LOAD
	AA380	56J19-C7	56TB3-T18	SCT SHAFT 1/2X RSVR LOAD
	AA379R	56J19-C8	56TB3-L16	SCT SHAFT 1/2X RSVR ERROR LO
	AA373R	56J19-C9	56TB3-N17	SCT SHAFT TACH LO
	AA374W	56J19-D1	56TB3-M16	SXT TRUNNION 1X RSVR ERROR HI
	AA374R	56J19-D2	56TB3-M17	SXT TRUNNION 1X RSVR ERROR LO
*	AA299W	56J19-D4	56J18-F1	TRUNNION CDU 1/4X SIN HI
	AA396W	56J19-D5	56TB3-N14	SHAFT CDU 1/2X COS HI S2
	AA396R	56J19-D6	56TB3-N13	SHAFT CDU 1/2X COS LO S4
	AA379W	56J19-D8	56TB3-L17	SCT SHAFT 1/2X RSVR ERROR HI
*	AA299R	56J19-F4	56J18-F2	TRUNNION CDU 1/4X SIN LO
	AA381W	56J19-F5	56TB3-F16	TRUNNION CDU 1/4X COS HI
	AA381R	56J19-F6	56TB3-G16	TRUNNION CDU 1/4X COS LO
	AA386R	56J19-F8	56TB3-R14	TRUNNION CDU 1/2X RSVR S1 PHASE CORR
	AA386W	56J19-F9	56TB3-R13	TRUNNION CDU 1/2X RSVR S3
	AA382R	56J19-G1	56TB3-T13	SCT TRUNNION 1X COS LO
	AA383R	56J19-G2	56TB3-S14	SCT TRUNNION 1X SIN HI
	AA383W	56J19-G3	56TB3-S13	SCT TRUNNION 1X SIN LO
*	AA302R	56J19-G5	56J18-H6	COSECANT AMP FEEDBACK SIG LO
*	AA302W	56J19-G6	56J18-G6	COSECANT AMP OUTPUT HI
	AA382W	56J19-H1	56TB3-T14	SCT TRUNNION 1X COS HI
*	AA302L	56J19-H5	56J18-H5	SHAFT CDU MDA COSECANT SIG

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA416	56J20-A1	56TB3-G19	AGC TEMP MONITOR NO 1
	AA417	56J20-A2	56TB3-F19	AGC TEMP MONITOR NO 2
	AA419W	56J20-A3	56TB3-N20	COS AMG 1X S3
	AA414	56J20-A4	56TB3-K19	IMU PRESSURE MONITOR HI
	AA464R	56J20-A6	56TB3-L13	PRESSURE SENSOR +28 VDC HI
	AA418	56J20-B1	56TB3-D19	AGC TEMP MONITOR NO 3
	AA419R	56J20-B3	56TB3-N21	COS AMG 1X S1
	AA415	56J20-B4	56TB3-H19	IMU PRESSURE MONITOR LO
	AA427R	56J20-B5	56TB3-T19	+20 VDC CONDITIONING
	AA464W	56J20-B6	56TB3-K13	PRESSURE SENSOR +28 VDC LO
	AA427W	56J20-C5	56TB3-S19	0 VDC CONDITIONING
	AA425	56J20-C6	56TB3-L19	+13 VDC AGC
	AA463R	56J20-D4	56TB3-S20	+2.5 VDC CONDITIONING LO
	AA463W	56J20-D5	56TB3-R19	+2.5 VDC CONDITIONING HI
	AA426	56J20-D6	56TB3-M19	+3 VDC AGC
	AA409W	56J20-F5	56TB2-G 4	800 CPS 28 V 1 PCT HI IMU
	AA410W	56J20-F5	56TB3-R22	800 CPS 28 V 1 PCT HI IMU
	AA409R	56J20-F6	56TB2-H 4	800 CPS 28 V 1 PCT LO IMU
	AA410R	56J20-F6	56TB3-R21	800 CPS 28 V 1 PCT LO IMU
	AA458	56J20-G1	56J20-H1	0 VDC IMU
	AA460	56J20-G1	56TB2-M 7	0 VDC IMU
	AA465W	56J20-G3	56TB3-K14	400 CPS 115 V LO
	AA462	56J20-G4	56TB3-F22	STRUCTURE GND
*	AA356	56J20-G4	56J19-P3	STRUCTURE GND
*	AA395	56J20-G4	56J19-P3	STRUCTURE GND
	AA411	56J20-G5	56J20-H5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA 52W	56J20-G5	56J12-H4	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA413	56J20-G6	56J20-H6	800 CPS 28 V 5 PCT L-90 DEG LO IMU
*	AA 52R	56J20-G6	56J12-K4	800 CPS 28 V 5 PCT L-90 DEG LO IMU
	AA459	56J20-H1	56J20-H2	0 VDC IMU
*	AA458	56J20-H1	56J20-G1	0 VDC IMU
	AA461	56J20-H2	56TB2-M 1	0 VDC IMU
*	AA459	56J20-H2	56J20-H1	0 VDC IMU
	AA465R	56J20-H3	56TB3-L14	400 CPS 115 V HI
	AA422	56J20-H4	56TB3-R20	+28 VDC AGC
	AA423	56J20-H4	56J21-234	+28 VDC AGC
*	AA178	56J20-H4	56J15-H5	+28 VDC AGC
	AA412W	56J20-H5	56TB3-D 2	800 CPS 28 V 5 PCT L-90 DEG HI IMU
*	AA411	56J20-H5	56J20-G5	800 CPS 28 V 5 PCT L-90 DEG HI IMU
	AA412R	56J20-H6	56TB3-C 3	800 CPS 28 V 5 PCT L-90 DEG LO IMU

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INCHES
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PHOTOGRAPHIC SCALE ONLY

INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION
	AA406	56J20-N6	56TB3-H20	+28 VDC OPTICS
*	AA190	56J20-N6	56J16-S6	+28 VDC OPTICS
	AA430	56J20-P1	56J20-R1	+28 VDC IMU BUSS A
*	AA429	56J20-P1	56J20-N1	+28 VDC IMU BUSS A
	AA435	56J20-P2	56J20-R2	+28 VDC IMU BUSS B
*	AA434	56J20-P2	56J20-N2	+28 VDC IMU BUSS B
	AA445	56J20-P3	56TB3-N22	+28 VDC STBY
*	AA238	56J20-P3	56J17-T1	+28 VDC STBY
*	AA239	56J20-P4	56J17-T2	+28 VDC STBY
	AA446	56J20-P5	56TB3-H21	+28 VDC OPTICS BUSS A
	AA447	56J20-P5	56J20-R5	+28 VDC OPTICS BUSS A
	AA450	56J20-P6	56TB3-H22	+28 VDC OPTICS BUSS B
	AA451	56J20-P6	56J20-R6	+28 VDC OPTICS BUSS B
	AA431	56J20-R1	56J20-S1	+28 VDC IMU BUSS A
*	AA430	56J20-R1	56J20-P1	+28 VDC IMU BUSS A
	AA436	56J20-R2	56J20-S2	+28 VDC IMU BUSS B
*	AA435	56J20-R2	56J20-P2	+28 VDC IMU BUSS B
	AA441	56J20-R3	56TB3-D22	+28 VDC STBY BUSS A
	AA442	56J20-R3	56J20-S3	+28 VDC STBY BUSS A
	AA443	56J20-R4	56TB3-C22	+28 VDC STBY BUSS B
	AA444	56J20-R4	56J20-S4	+28 VDC STBY BUSS B
	AA448	56J20-R5	56J20-S5	+28 VDC OPTICS BUSS A
*	AA447	56J20-R5	56J20-P5	+28 VDC OPTICS BUSS A
	AA452	56J20-R6	56J20-S6	+28 VDC OPTICS BUSS B
*	AA451	56J20-R6	56J20-P6	+28 VDC OPTICS BUSS B
	AA432	56J20-S1	56TB3-C21	+28 VDC IMU BUSS A
*	AA431	56J20-S1	56J20-R1	+28 VDC IMU BUSS A
	AA437	56J20-S2	56TB3-D21	+28 VDC IMU BUSS B
*	AA436	56J20-S2	56J20-R2	+28 VDC IMU BUSS B
*	AA442	56J20-S3	56J20-R3	+28 VDC STBY BUSS A
*	AA444	56J20-S4	56J20-R4	+28 VDC STBY BUSS B
	AA449	56J20-S5	56TB3-H21	+28 VDC OPTICS BUSS A
*	AA448	56J20-S5	56J20-R5	+28 VDC OPTICS BUSS A
	AA453	56J20-S6	56TB3-H22	+28 VDC OPTICS BUSS B
*	AA452	56J20-S6	56J20-R6	+28 VDC OPTICS BUSS B

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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA519	56J21- 1	56TB3-G21	+28 VDC AGC BUSS A	167
*	AA520	56J21- 2	56TB3-G20	0 VDC AGC	169
*	A 476	56J21- 3	56J10- 70	SPARE	211
*	A 505R	56J21- 4	56J10- 31	OUT 0 7	220A
*	A 505W	56J21- 5	56E 22		220B
*	A 483R	56J21- 6	56J10- 17	OUT 0 14	227A
*	A 483W	56J21- 7	56E 23		227B
*	A 489R	56J21- 8	56J10- 44	ALARM 6	234A
*	A 489W	56J21- 9	56E 24		234B
*	A 522	56J21- 10	56J10- 45	SPARE	248
*	A 523	56J21- 11	56J10- 46	SPARE	249
*	A 468W	56J21- 12	56J10- 49	KEY RESET NAV	209A
*	A 468R	56J21- 13	56E 25		209B
*	A 510R	56J21- 14	56J10- 39	TEST ALARM	207A
*	A 510W	56J21- 15	56E 25		207B
*	A 407W	56J21- 16	56J09- 70	SXT PWR ON INDICATION TO AGC	105A
*	A 407R	56J21- 17	56E 58		105B
*	A 449R	56J21- 18	56J09- 37	OPTICS MODE SW COMPUTER INDICATION	106A
	A 449W	56J21- 19	56E 58		106B
	AA474	56J21- 22	56E 47	AGC SIG 179 SHLD RET	179
	AA473	56J21- 23	56E 45	AGC SIG 180 SHLD RET	180
	AA475W	56J21- 24	56J15-B4	IG ENCODER + DELTA THETA	120A
	AA475R	56J21- 25	56E 38	IG DAC MDA SIG LO	120B
	AA476R	56J21- 26	56J15-C4	IG ENCODER - DELTA THETA	121A
	AA476W	56J21- 27	56E 38	IG DAC MDA SIG LO	121B
*	AA 84W	56J21- 28	56J12-D6	IMU FAIL	141A
*	AA 84R	56J21- 29	56J12-F6	IMU FAIL RET	141B
	AA486R	56J21- 30	56J15-C9	OG CDU - DELTA THETA COMMAND	127A
	AA486W	56J21- 31	56E 43	OG DAC MDA SIG LO	127B
*	AA130W	56J21- 32	56J14-D2	- DX GYRO RATE	143A
*	AA130R	56J21- 33	56E 33	0 VDC IMU	143B
*	AA226R	56J21- 34	56J16-L4	COMPUTER 800 PPS OUT OF PHASE SYNC	150A
*	AA226W	56J21- 35	56J16-L3	COMPUTER 800 PPS SYNC RET	150B
*	AA 81	56J21- 36	56J12-M1	AGC POWER SUPPLY FAIL SIG HI	157A
*	AA403	56J21- 37	56J20-L5	+28 VDC MDV	157B
*	A 509	56J21- 39	56J10- 58	GND	239
*	A 481	56J21- 40	56J10- 59	+28 VDC AGC	243
*	A 499R	56J21- 41	56J10- 30	OUT 0 6	219A
*	A 499W	56J21- 42	56E 22		219B
*	A 504R	56J21- 43	56J10- 16	OUT 0 13	226A

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SIZE A
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	AA413	56J20-H6	56J20-G6	800 CPS 28 V 5 PCT L-90 DEG LO IMU	
	AA454	56J20-K1	56TB3-T20	+28 VDC IMU	
	AA455	56J20-K1	56TB3-T21	+28 VDC IMU	
*	AA179	56J20-K1	56J15-S2	+28 VDC IMU	
	AA456	56J20-K2	56TB3-S21	+28 VDC IMU	
*	AA 4	56J20-K2	56J11-S5	+28 VDC IMU	
*	AA193	56J20-K2	56J16-S2	+28 VDC IMU	
*	AA191W	56J20-K3	56J16-P5	800 CPS 28 V 1 PCT HI OPTICS	
	AA424	56J20-K4	56TB3-N19	0 VDC AGC	
	AA420	56J20-K5	56TB3-G21	+28 VDC AGC BUSS A	
	AA421	56J20-K6	56TB3-G22	+28 VDC AGC BUSS B	
	AA438	56J20-L1	56J20-M1	+28 VDC IMU	
	AA439	56J20-L1	56J20-L2	+28 VDC IMU	
*	AA 2	56J20-L1	56J11-S1	+28 VDC IMU	
	AA440	56J20-L2	56J20-M2	+28 VDC IMU	
*	AA 3	56J20-L2	56J11-S2	+28 VDC IMU	
*	AA439	56J20-L2	56J20-L1	+28 VDC IMU	
*	AA191R	56J20-L3	56J16-N5	800 CPS 28 V 1 PCT LO OPTICS	
*	AA192W	56J20-L4	56J16-P6	800 CPS 28 V 5 PCT L-90 DEG HI OPTICS	
	AA403	56J20-L5	56J21- 37	+28 VDC MDV	157B
	AA404	56J20-L5	56TB3-M22	+28 VDC MDV	
*	AA 53	56J20-L6	56J12-G4	+28 VDC IMU FOR 800 CPS 5 PCT MTR PWRAMP	
*	AA 54	56J20-M1	56J12-S1	+28 VDC IMU	
*	AA236	56J20-M1	56J17-T4	+28 VDC IMU	
*	AA438	56J20-M1	56J20-L1	+28 VDC IMU	
*	AA 55	56J20-M2	56J12-S2	+28 VDC IMU	
*	AA237	56J20-M2	56J17-T3	+28 VDC IMU	
*	AA440	56J20-M2	56J20-L2	+28 VDC IMU	
*	AA192R	56J20-M4	56J16-N6	800 CPS 28 V 5 PCT L-90 DEG LO OPTICS	
	AA405	56J20-M5	56TB3-M21	+28 VDC MDV	
	AA457	56J20-M6	56TB3-M20	+28 VDC OPTICS	
*	AA357	56J20-M6	56J19-T1	+28 VDC OPTICS	
	AA428	56J20-N1	56TB3-C20	+28 VDC IMU BUSS A	
	AA429	56J20-N1	56J20-P1	+28 VDC IMU BUSS A	
	AA433	56J20-N2	56TB3-D20	+28 VDC IMU BUSS B	
	AA434	56J20-N2	56J20-P2	+28 VDC IMU BUSS B	
	AA408	56J20-N3	56TB3-K22	0 VDC OPTICS	
	AA407	56J20-N4	56TB3-L21	0 VDC OPTICS	
*	AA 51	56J20-N5	56J12-S6	+28 VDC OPTICS	
*	AA189	56J20-N5	56J16-S5	+28 VDC OPTICS	

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SIZE A
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INTERCONNECT LIST

	CONDUCTOR	FROM	TO	SIGNAL DESCRIPTION	
*	A 504W	56J21- 44	56E 23		226B
*	A 488R	56J21- 45	56J10- 33	ALARM 5	233A
*	A 488W	56J21- 46	56E 23		233B
*	A 470R	56J21- 47	56J10- 42	TIMING (1.5 CPS)	244A
*	A 470W	56J21- 48	56E 24		244B
	AA562	56J21- 53	56E 57	AGC SIG 178 SHLD RET	178
*	A 437W	56J21- 54	56J09- 25	OPTICS ZERO ENCODER	104A
*	A 437R	56J21- 55	56E 58		104B
	AA479W	56J21- 56	56J15-B8	OG ENCODER + DELTA THETA	118A
	AA479R	56J21- 57	56E 42	OG DAC MDA SIG LO	118B
	AA480R	56J21- 58	56J15-C8	OG ENCODER - DELTA THETA	119A
	AA480W	56J21- 59	56E 42	OG DAC MDA SIG LO	119B
*	AA 86W	56J21- 60	56J12-D4	ACCEL FAIL	138A
*	AA 86R	56J21- 61	56J12-F4	ACCEL FAIL RET	138B
*	AA521	56J21- 62	56TB3-L19	+13 VDC AGC	176
*	AA522	56J21- 63	56TB3-N19	0 VDC AGC	177
	AA485W	56J21- 64	56J15-B9	OG CDU + DELTA THETA COMMAND	126A
	AA485R	56J21- 65	56E 43	OG DAC MDA SIG LO	126B
*	AA129R	56J21- 66	56J14-D1	+ DX GYRO RATE	142A
*	AA129W	56J21- 67	56E 33	0 VDC IMU	142B
*	AA227W	56J21- 68	56J16-L3	COMPUTER 800 PPS SYNC RET	149A
*	AA227R	56J21- 69	56J16-M4	COMPUTER 800 PPS IN PHASE SYNC	149B
*	AA 70W	56J21- 70	56J12-K1	COMPUTER 102.4 KPPS SYNC	156A
*	AA 70R	56J21- 71	56J12-H1	COMPUTER 102.4 KPPS SYNC RET	156B
*	AA523	56J21- 73	56TB3-G21	+28 VDC AGC BUSS A	167
*	AA524	56J21- 74	56TB3-G20	0 VDC AGC	169
*	A 473	56J21- 75	56J10- 71	SPARE	212
*	A 498R	56J21- 76	56J10- 29	OUT 0 5	218A
*	A 498W	56J21- 77	56E 22		218B
*	A 506R	56J21- 78	56J10- 15	OUT 0 12	225A
*	A 506W	56J21- 79	56E 23		225B
*	A 482R	56J21- 80	56J10- 32	ALARM 4	232A
*	A 482W	56J21- 81	56E 23		232B
*	A 471R	56J21- 82	56J10- 20	POWER SYNC	242A
*	A 471W	56J21- 83	56E 24		242B
*	A 467R	56J21- 84	56J10- 38	KEY CODE 5	205A
*	A 467W	56J21- 85	56E 25		205B
*	A 433W	56J21- 86	56J09- 30	MARK	102A
*	A 433R	56J21- 87	56E 58		102B
*	A 434W	56J21- 88	56J09- 31	NOT MARK	103A

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SIZE A
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INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR			FROM				TO				W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2 T / N	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2 T / N	TERMINATION SPEC. 1 ITEM NO.	NO.	FR	TO
AA599	4	6 00	56TB2-V 6	138N			56TB2-V 8	138N			1	1
AA600	4	6 00	56TB1-S 8	138N			56TB1-S 7	138N			2	2
AA601	4	6 00	56TB1-S 7	138N			56TB1-S 6	138N			1	1
AA602	4	10 00	56TB1-S 7	138N			56TB2-D 8	138N			3	2
AA603	4	6 00	56TB2-D 7	138N			56TB2-D 6	138N			1	1
AA604	4	6 00	56TB2-D 6	138N			56TB2-D 5	138N			2	2
AA605	4	6 00	56TB2-D 5	138N			56TB2-D 4	138N			1	1
AA606	4	6 00	56TB2-D 4	138N			56TB2-F 4	138N			2	1
AA607	4	6 00	56TB3-F22	138N			56TB3-F21	138N			1	1
AA608	4	18 00	56TB2-D 4	138N			56E 27	20N			3	
AA609	4	6 00	56TB3-C15	138N			56TB3-D15	138N			2	2
AA610	4	9 00	56J11-N3	138N			56J12-P4	138N			1	1
AA611	4	6 00	56TB1-R 1	138N			56TB1-S 1	138N			1	1
AA612	4	6 00	56TB1-S 1	138N			56TB1-T 1	138N			2	1
AA613	4	6 00	56TB3-B20	138N			56TB3-B21	138N			1	1
AA614	4	6 00	56TB3-B21	138N			56TB3-F21	138N			2	2
AA615	4	6 00	56TB2-R 3	138N			56TB2-S 3	138N			1	1
AA616	4	9 00	56J18-R4	138N			56J19-M4	138N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR A SHEET 61 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR			FROM				TO				W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2 T / N	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2 T / N	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA617	4	9 00	56J11-L4	138N			56E 66	20N	12		2	
AA618	4	9 00	56J11-L4	138N			56E 67	20N	12		3	
AA619	4	4 00	56TB3-B20	138N			56E 68	20N	12		2	
AA620	4	6 00	56TB3-B20	138N			56E 69	20N	12		3	
AA621	4	6 00	56TB2-T 2	138N			56TB2-T 3	138N			1	1
AA622	4	17 00	56J20-R1	1 38N			56TB3-C20	1 38N			2	2
AA623	4	17 00	56J20-P1	1 38N			56TB3-C21	1 38N			2	2
AA624	4	17 00	56J20-R2	1 38N			56TB3-D20	1 38N			2	2
AA625	4	17 00	56J20-P2	1 38N			56TB3-D21	1 38N			2	2
AA626	4	17 00	56J20-S3	1 38N			56TB3-D22	1 38N			2	2
AA627	4	17 00	56J20-S4	1 38N			56TB3-C22	1 38N			2	2
AA628	4	17 00	56J20-R5	1 38N			56TB3-H21	1 38N			3	3
AA629	4	17 00	56J20-R6	1 38N			56TB3-H22	1 38N			3	3
AA630	4	6 00	56TB3-D15	1 38N			56TB3-G15	1 38N			1	1
AA631	4	6 00	56TB3-R3	1 38N			56TB3-S3	1 38N			2	1
AA632	4	6 00	56TB1-S3	1 38N			56TB1-S4	1 38N			1	2
AA633	4	6 00	56TB1-S4	1 38N			56TB1-S5	1 38N			3	2
AA634	4	6 00	56TB1-S5	1 38N			56TB1-S6	1 38N			3	3
AA635	4	6 00	56TB3-T5	1 38N			56TB2-V8	1 38N			2	3

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR A SHEET 62 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA303	4	900	56J18-P3	138	N				56J19-R4	138	N				2	2
AA304R	4	900	56J18-S6	138	N				56J19-N6	138	N				2	1
AA304W	4	900	56J18-T6	138	N				56J19-P6	138	N				2	1
AA305	4	900	56J18-S5	138	N				56J19-P5	138	N				2	2
AA306	4	900	56J18-R5	138	N				56J19-P3	138	N				2	2
AA307	2	1400		250		225	11			300		275	7			
AA307B	4	600	56TB3-R 9	138	N				SHLD AA307	20	N				3	
AA307L			56J18-C2	88	N				56TB3-T 8	138	N				1	1
AA307R			56J18-B2	88	N				56TB3-T 7	138	N				1	1
AA308	2	1400		250		225	11			300		275	7			
AA308B	4	600	56TB3-N 9	138	N				SHLD AA308	20	N				3	
AA308L			56J18-A1	88	N				56TB3-S 8	138	N				1	1
AA308R			56J18-B1	88	N				56TB3-S 7	138	N				1	1
AA309	2	1400		250		225	11			300		275	7			
AA309B	4	600	56TB3-T 9	138	N				SHLD AA309	20	N				3	
AA309L			56J18-A2	88	N				56TB3-T10	138	N				1	1
AA309R			56J18-A3	88	N				56TB3-T11	138	N				1	1
AA310	2	1400		250		225	11			300		275	7			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE REV LTR ✓ A SHEET 34 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA310B	4	600	56TB3-S 9	138	N				SHLD AA310	20	N				3	
AA310L			56J18-B3	88	N				56TB3-S10	138	N				1	1
AA310R			56J18-B4	88	N				56TB3-S11	138	N				1	1
AA311R	3	1400	56J18-D3	88	N				56TB3-R 7	138	N				1	1
AA311W	3	1400	56J18-D2	88	N				56TB3-R 8	138	N				1	1
AA312R	3	1400	56J18-C1	88	N				56TB3-R11	138	N				1	1
AA312W	3	1400	56J18-D1	88	N				56TB3-R10	138	N				1	1
AA313R	3	1400	56J18-A5	88	N				56TB3-N 7	138	N				1	1
AA313W	3	1400	56J18-A4	88	N				56TB3-N 8	138	N				1	1
AA314R	3	1400	56J18-C5	88	N				56TB3-N11	138	N				1	1
AA314W	3	1400	56J18-B5	88	N				56TB3-N10	138	N				1	1
AA315	2	1400		250		225	11			300		275	7			
AA315B	4	600	56TB3-M 9	138	N				SHLD AA315	20	N				3	
AA315L			56J18-A9	88	N				56TB3-M 8	138	N				1	1
AA315R			56J18-B9	88	N				56TB3-M 7	138	N				1	1
AA316	2	1400		250		225	11			300		275	7			
AA316B	4	600	56TB3-L 9	138	N				SHLD AA316	20	N				3	
AA316L			56J18-A8	88	N				56TB3-L 7	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE REV LTR ✓ A SHEET 35 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA291	4	600	56J17-S1	138	N				56J17-S2	138	N				1	1
AA292	4	1600	56J17-M3	138	N				56J22-206	10	N		6		3	1
AA293	4	1600	56J17-L3	138	N				56J22-243	10	N		6		1	1
AA294	4	600	56J17-T1	138	N				56J17-T2	138	N				1	1
AA295	4	1400	56J17-S3	138	N				56TB3-N 3	138	N				1	2
AA296	4	1400	56J17-S1	138	N				56TB3-S 3	138	N				2	3
AA297	4	1400	56J17-S4	138	N				56TB3-R 3	138	N				1	3
AA298	4	900	56J18-S1	138	N				56J19-T1	138	N				2	2
AA299R	3	900	56J18-F2	88	N				56J19-F4	88	N				1	1
AA299W	3	900	56J18-F1	88	N				56J19-D4	88	N				1	1
AA300R	3	900	56J18-C8	88	N				56J19-B2	88	N				1	1
AA300W	3	900	56J18-B8	88	N				56J19-C1	88	N				1	1
AA301R	3	900	56J18-D9	88	N				56J19-B3	88	N				1	1
AA301W	3	900	56J18-C9	88	N				56J19-A4	88	N				1	1
AA302K	4	900	56J18-G5	138	N				56J19-H6	138	N				1	1
AA302L	4	900	56J18-H5	138	N				56J19-H5	138	N				1	1
AA302R	4	900	56J18-H6	138	N				56J19-G5	138	N				1	1
AA302W	4	900	56J18-G6	138	N				56J19-G6	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE REV LTR ✓ A SHEET 33 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA316R			56J18-A7	88	N				56TB3-L 8	138	N				1	1
AA317R	3	1400	56J18-B6	88	N				56TB3-L11	138	N				1	1
AA317W	3	1400	56J18-A6	88	N				56TB3-L10	138	N				1	1
AA318R	3	1400	56J18-F4	88	N				56TB3-K12	138	N				1	1
AA318W	3	1400	56J18-F3	88	N				56TB3-L12	138	N				1	1
AA319	4	1400	56J18-P1	138	N				56TB3-D12	138	N				1	1
AA320	4	1400	56J18-R1	138	N				56TB3-C12	138	N				1	1
AA321	4	1400	56J18-R2	138	N				56TB3-C11	138	N				1	1
AA322	4	1400	56J18-P2	138	N				56TB3-D11	138	N				1	1
AA323	4	600	56J18-S3	138	N				56J18-S4	138	N				1	1
AA324	4	600	56J18-T3	138	N				56J18-T4	138	N				1	1
AA325	4	1400	56J18-S3	138	N				56TB3-K20	138	N				2	1
AA326L	3	1400	56J18-F9	88	N				56TB3-M11	138	N				1	1
AA326R	3	1400	56J18-F8	88	N				56TB3-M12	138	N				1	1
AA326W	3	1400	56J18-D8	88	N				56TB3-M10	138	N				1	1
AA327	4	1400	56J18-T3	138	N				56TB3-K20	138	N				2	2
AA328L	4	1400	56J18-L6	138	N				56TB3-R12	138	N				1	1
AA328R	4	1400	56J18-L5	138	N				56TB3-S12	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

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MANNED
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HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE REV LTR ✓ A SHEET 36 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

TDRR 07882

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014606-011	1014606-011	A	REVISED PER TDRR NO. 06261	14 FEB 64	WK

REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49

REV STATUS OF SHEETS																								
REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN C. M. Kulp DATE 13 NOV 63
CHECKED C Wilson 22 NOV 63
APPROVAL D. Bayta 22 Nov 63
APPROVAL R. Hensley 22 NOV 63
NASA APPROVAL W. J. Blum 12-3
MIT APPROVAL 12-16
CONTRACT NAS 9-497

MANNED
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HOUSTON, TEXAS

WIRE LIST AA
AGE HARNESS & END CONNECTOR ASSY

CODE IDENT NO. | SIZE | 1014608 | REV A
SCALE — | SHEET 1 OF 6

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
50	A														
51	A														
52	A														
53	A														
54	A														
55	A														
56	A														
57	A														
58	A														
59	A														
60	A														
61	A														
62	A														

MANNED
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HOUSTON, TEXAS

REVISION A

NASA DRAWING NO. 1014608
SHEET 2 OF 62

PENNANT NOTE — GENERAL NOTES

1 SEE CONDUCTOR CHART PENNANT NOTE 1

2 SEE CONDUCTOR CHART PENNANT NOTE 2

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

5 LENGTHS SPECIFIED ARE FOR CONDUCTORS BEFORE ATTACHING TO AN ACCESSORY.

6 CONDUCTORS WITH THE SAME NUMBER ARE TWISTED TOGETHER.

7 LENGTHS SPECIFIED FOR TWISTED CONDUCTORS ARE FOR AFTER TWISTING.

8 TWISTED CONDUCTORS ARE TO BE TWISTED WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED CONDUCTOR.

9 CONDUCTOR LENGTHS ARE FOR MANUFACTURING REF. ONLY.

10 NUMBERS IN WIRE-WRAP COLUMN INDICATE THE LEVEL OF TERMINATION. CONDUCTORS LISTED AS ----
   LEVEL 1 TO BE WIRE-WRAPPED AT BASE OF CONTACT
   LEVEL 2 TO FOLLOW LEVEL 1
   LEVEL 3 TO FOLLOW LEVEL 2

11 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE-NONE | REV LTR A | SHEET 3 OF 62

PENNANT NOTE — GENERAL NOTES

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
   A - FROM END SHIELD
   B - TO END SHIELD
   K - BLACK
   L - BLUE
   R - RED
   W - WHITE

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE-NONE | REV LTR A | SHEET 4 OF 62

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA336R	3	1400	56J18-F7	88	N				56TB3-F12	138	N				1	1
AA336W	3	1400	56J18-F6	88	N				56TB3-F11	138	N				1	1
AA337	4	1400	56J18-R4	138	N				56TB3-B11	138	N				2	1
AA338R	3	1400	56J18-D4	88	N				56TB3-K 7	138	N				1	1
AA338W	3	1400	56J18-D5	88	N				56TB3-K 8	138	N				1	1
AA339	4	600	56J18-S5	138	N				56J18-T5	138	N				1	1
AA340R	4	1400	56J18-N1	138	N				56TB3-D 7	138	N				1	1
AA340W	4	1400	56J18-M1	138	N				56TB3-C 7	138	N				3	1
AA341R	4	1400	56J18-N3	138	N				56TB3-D 8	138	N				1	1
AA341W	4	1400	56J18-M3	138	N				56TB3-C 8	138	N				3	1
AA342R	4	1400	56J18-N4	138	N				56TB3-B 7	138	N				1	1
AA342W	4	1400	56J18-M4	138	N				56TB3-B 8	138	N				3	1
AA343R	4	1400	56J18-N6	138	N				56TB3-D 9	138	N				1	1
AA343W	4	1400	56J18-M6	138	N				56TB3-D10	138	N				2	1
AA344R	4	1400	56J18-H3	138	N				56TB3-F 7	138	N				1	1
AA344W	4	1400	56J18-G3	138	N				56TB3-G 7	138	N				1	1
AA345R	4	1400	56J18-H2	138	N				56TB3-F 8	138	N				1	1
AA345W	4	1400	56J18-G2	138	N				56TB3-G 8	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 38 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA346	4	600	56J18-H2	138	N				56E 52	20	N		8		2	
AA347	4	600	56J18-H2	138	N				56E 53	20	N				3	
AA348	4	600	56J18-H3	138	N				56E 50	20	N		8		2	
AA349	4	600	56J18-H3	138	N				56E 51	20	N				3	
AA350	4	600	56J18-M1	138	N				56J18-P3	138	N				2	1
AA351	4	600	56J18-M1	138	N				56J18-M2	138	N				1	1
AA352	4	600	56J18-M2	138	N				56J18-M3	138	N				2	2
AA353	4	600	56J18-M3	138	N				56J18-M4	138	N				1	1
AA354	4	600	56J18-M4	138	N				56J18-M5	138	N				2	2
AA355	4	600	56J18-M5	138	N				56J18-M6	138	N				1	1
AA356	4	900	56J19-P3	138	N				56J20-G4	138	N				1	1
AA357	4	900	56J19-T1	138	N				56J20-M6	138	N				1	1
AA358R	4	1500	56J19-S2	138	N				56TB3-D17	138	N				1	1
AA358W	4	1500	56J19-S3	138	N				56TB3-D16	138	N				1	1
AA359R	4	1500	56J19-P1	138	N				56TB3-D18	138	N				1	1
AA359W	4	1500	56J19-R1	138	N				56TB3-F18	138	N				1	1
AA360R	4	1500	56J19-T2	138	N				56TB3-C17	138	N				1	1
AA360W	4	1500	56J19-T3	138	N				56TB3-C16	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 39 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA328W	4	1400	56J18-K6	138	N				56TB3-T12	138	N				1	1
AA329	2	1500		250		225	11			300		275	7			
AA329B	4	600	56TB3-H 9	138	N				SHLD AA329	20	N				3	
AA329L			56J19-C2	88	N				56TB3-H 8	138	N				1	1
AA329R			56J19-B2	88	N				56TB3-H 7	138	N				2	1
AA330R	3	1400	56J18-F2	88	N				56TB3-F10	138	N				2	1
AA330W	3	1400	56J18-F1	88	N				56TB3-G10	138	N				2	1
AA331	2	1500		250		225	11			300		275	7			
AA331B	4	600	56TB3-K 9	138	N				SHLD AA331	20	N				3	
AA331L			56J19-B4	88	N				56TB3-H10	138	N				1	1
AA331R			56J19-B3	88	N				56TB3-H11	138	N				2	1
AA332R	4	1400	56J18-H1	138	N				56TB3-K11	138	N				1	1
AA332W	4	1400	56J18-G1	138	N				56TB3-K10	138	N				1	1
AA333	4	1400	56J18-R3	138	N				56TB3-K20	138	N				1	3
AA334R	3	1400	56J18-D6	88	N				56TB3-G13	138	N				1	1
AA334W	3	1400	56J18-C6	88	N				56TB3-G14	138	N				1	1
AA335R	3	1400	56J18-D7	88	N				56TB3-G12	138	N				1	1
AA335W	3	1400	56J18-C7	88	N				56TB3-G11	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 37 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA361R	4	1500	56J19-P2	138	N				56TB3-G17	138	N				1	1
AA361W	4	1500	56J19-R2	138	N				56TB3-F17	138	N				1	1
AA362	4	600	56J19-R5	138	N				56J19-S4	138	N				1	1
AA363	4	600	56J19-R6	138	N				56J19-T4	138	N				1	1
AA364	4	1500	56J19-S4	138	N				56TB3-K22	138	N				2	1
AA365	4	1500	56J19-T4	138	N				56TB3-L22	138	N				2	1
AA366	4	600	56J19-S5	138	N				56J19-S6	138	N				1	1
AA367	4	1500	56J19-T6	138	N				56TB3-L22	138	N				2	2
AA368	4	600	56J19-T5	138	N				56J19-T6	138	N				1	1
AA369	4	1500	56J19-S5	138	N				56TB3-K22	138	N				2	2
AA370R	3	1500	56J19-B1	88	N				56TB3-T17	138	N				1	1
AA370W	3	1500	56J19-A1	88	N				56TB3-T16	138	N				1	1
AA371R	3	1500	56J19-A2	88	N				56TB3-S16	138	N				1	1
AA371W	3	1500	56J19-A3	88	N				56TB3-S17	138	N				1	1
AA372R	3	1500	56J19-A8	88	N				56TB3-R16	138	N				1	1
AA372W	3	1500	56J19-A9	88	N				56TB3-R17	138	N				1	1
AA373R	3	1500	56J19-C9	88	N				56TB3-N17	138	N				1	1
AA373W	3	1500	56J19-B9	88	N				56TB3-N16	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 40 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	TERMINATION SPEC ITEM NO.	NO.	FRW-50 W-W FR	TO
AA 1	4	1600	56J11-S4	138	N			56J15-S6	138	N			3	2
AA 2	4	2800	56J11-S1	138	N			56J20-L1	138	N			2	3
AA 3	4	2800	56J11-S2	138	N			56J20-L2	138	N			2	3
AA 4	4	2800	56J11-S5	138	N			56J20-K2	138	N			2	1
AA 5R	4	900	56J11-N4	138	N			56J12-P3	138	N			1	1
AA 5W	4	900	56J11-N5	138	N			56J12-N3	138	N			1	1
AA 6	4	900	56J11-S4	138	N			56J12-S5	138	N			2	1
AA 7	4	900	56J11-L4	138	N			56J12-K3	138	N			1	1
AA 9R	4	900	56J11-L2	138	N			56J12-K2	138	N			1	1
AA 9W	4	900	56J11-L1	138	N			56J12-H2	138	N			1	1
AA 10K	4	900	56J11-B5	138	N			56J12-B2	138	N			1	1
AA 10L	4	900	56J11-A6	138	N			56J12-B1	138	N			1	1
AA 10R	4	900	56J11-A5	138	N			56J12-A2	138	N			1	1
AA 10W	4	900	56J11-B6	138	N			56J12-A1	138	N			1	1
AA 11R	3	2000	56J11-B3	138	N			56J17-B1	88	N			1	1
AA 11W	3	2000	56J11-C3	138	N			56J17-A1	88	N			1	1
AA 12L	4	2000	56J11-N2	138	N			56J17-R2	138	N			1	1
AA 12R	4	2000	56J11-N1	138	N			56J17-P2	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 6 OF 62

MIL 2085 . 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	TERMINATION SPEC ITEM NO.	NO.	W-W FR	TO
AA 12W	4	2000	56J11-P1	138	N			56J17-N2	138	N			1	1
AA 13	4	2000	56J11-S3	138	N			56J17-R1	138	N			1	1
AA 14	4	1100	56J11-N6	138	N			56J13-P6	138	N			1	1
AA 15R	4	1700	56J11-B1	138	N			56TB2-G 2	138	N			1	2
AA 15W	4	1700	56J11-A1	138	N			56TB2-H 2	138	N			1	1
AA 16R	4	1400	56J11-C1	138	N			56TB1-C 5	138	N			1	1
AA 16W	4	1400	56J11-B1	138	N			56TB1-B 5	138	N			2	1
AA 17	4	600	56J11-R4	138	N			56J11-R5	138	N			2	2
AA 18	4	600	56J11-P4	138	N			56J11-R4	138	N			1	1
AA 19R	4	1700	56J11-B2	138	N			56TB2-G 7	138	N			1	2
AA 19W	4	1700	56J11-A2	138	N			56TB2-H 7	138	N			1	1
AA 20R	4	1400	56J11-C2	138	N			56TB1-A 5	138	N			1	1
AA 20W	4	1400	56J11-B2	138	N			56TB1-A 6	138	N			2	1
AA 21R	4	1700	56J11-B3	138	N			56TB2-R 2	138	N			2	2
AA 21W	4	1700	56J11-A3	138	N			56TB2-N 2	138	N			1	1
AA 22	4	600	56J11-P4	138	N			56J11-P5	138	N			2	1
AA 23K	4	1400	56J11-G1	138	N			56TB1-C 3	138	N			1	1
AA 23L	4	1400	56J11-H1	138	N			56TB1-B 4	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 7 OF 62

MIL 2085 . 4-63 WIR

GJG WIRE LIST AA + 1014608

LIST OF MATERIALS

PENNANT NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014608- 1	WIRE PER 1010708-1 SOLID 30AWG (THREE COND. TWISTED AND SHIELDED) 13 FT. 3.0 IN. TOTAL LENGTH
	2	1	1014608- 2	WIRE PER 1010708-2 SOLID 30AWG (TWO COND. TWISTED AND SHIELDED) 13 FT. 9.0 IN. TOTAL LENGTH
	3	1	1014608- 3	WIRE PER 1010708-4 SOLID 30AWG (SINGLE COND.) 186 FT. 2.0 IN. TOTAL LENGTH
	4	1	1014608- 4	WIRE PER 1010708-5 SOLID 24AWG (SINGLE COND.) 630 FT. 8.0 IN. TOTAL LENGTH
	5	1	1014608- 5	WIRE PER 1010708-3 SOLID 24AWG (TWO COND. TWISTED AND SHIELDED) 83 FT. 3.0 IN. TOTAL LENGTH
11	6	145	1010464- 2	CONTACT, SOCKET
11	7	36	1010402- 1	SLEEVE, SOLDER
11	8	64	1010402- 2	SLEEVE, SOLDER
11	9	50	1010490-110	INSULATION-SLEEVING, ELEC.
11	10	9	1010490-112	INSULATION-SLEEVING, ELEC.
11	11	11	1010490-114	INSULATION-SLEEVING, ELEC.
	12	4	MS-25036-44	TERMINAL LUG

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 5 OF 62

MIL 2084 4-63

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	TERMINATION SPEC ITEM NO.	NO.	W-W FR	TO
AA 23R	4	1400	56J11-F1	138	N			56TB1-C 4	138	N			1	1
AA 23W	4	1400	56J11-G2	138	N			56TB1-B 3	138	N			2	1
AA 24	4	600	56J11-G2	138	N			56J11-P6	138	N			1	1
AA 25	4	600	56J11-S4	138	N			56J11-S5	138	N			1	1
AA 26	4	600	56J11-P6	138	N			56J11-R6	138	N			2	2
AA 27	4	1400	56J11-N6	138	N			56TB1-D 5	138	N			2	1
AA 28K	4	1400	56J11-L2	138	N			56TB1-C 2	138	N			2	2
AA 28L	4	1400	56J11-M2	138	N			56TB1-C 2	138	N			1	1
AA 28R	4	1400	56J11-M1	138	N			56TB1-D 2	138	N			1	1
AA 28W	4	1400	56J11-L1	138	N			56TB1-D 2	138	N			2	2
AA 29K	4	1400	56J11-B5	138	N			56TB1-B 7	138	N			2	2
AA 29L	4	1400	56J11-A6	138	N			56TB1-A 8	138	N			2	1
AA 29R	4	1400	56J11-A5	138	N			56TB1-A 7	138	N			2	1
AA 29W	4	1400	56J11-B6	138	N			56TB1-B 8	138	N			2	2
AA 30R	4	1400	56J11-D6	138	N			56TB1-D 3	138	N			1	1
AA 30W	4	1400	56J11-D5	138	N			56TB1-D 4	138	N			1	1
AA 31	4	600	56J11-R5	138	N			56J11-R6	138	N			1	1
AA 32R	4	1400	56J11-F6	138	N			56TB1-A 4	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 8 OF 62

MIL 2085 . 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA385	3	1500	56J19-C4	88	N			56TB3-M18	138	N			1	1
AA386R	3	1500	56J19-F8	88	N			56TB3-R14	138	N			1	1
AA386W	3	1500	56J19-F9	88	N			56TB3-R13	138	N			1	1
AA387	4	1500	56J19-M6	138	N			56TB3-G18	138	N			1	1
AA388	4	1500	56J19-M5	138	N			56TB3-K18	138	N			1	1
AA389	4	1500	56J19-N5	138	N			56TB3-L18	138	N			1	1
AA390	4	1500	56J19-R4	138	N			56TB3-K21	138	N			3	2
AA391R	4	1500	56J19-L1	138	N			56TB3-C 9	138	N			1	1
AA391W	4	1500	56J19-K1	138	N			56TB3-C10	138	N			3	1
AA392R	4	1500	56J19-L3	138	N			56TB3-B 9	138	N			1	1
AA392W	4	1500	56J19-K3	138	N			56TB3-B10	138	N			3	1
AA393	4	1500	56J19-P5	138	N			56TB3-K21	138	N			3	3
AA394	4	600	56J19-P4	138	N			56J19-P5	138	N			1	1
AA396R	3	1500	56J19-D6	88	N			56TB3-N13	138	N			1	1
AA396W	3	1500	56J19-D5	88	N			56TB3-N14	138	N			1	1
AA397	4	600	56J19-K1	138	N			56J19-R4	138	N			2	1
AA398	4	600	56J19-K1	138	N			56J19-K2	138	N			1	1
AA399	4	600	56J19-K2	138	N			56J19-K3	138	N			2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE REV LTR + A SHEET 42 OF 62

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA400	4	600	56J19-K3	138	N			56J19-K4	138	N			1	1
AA401	4	600	56J19-K4	138	N			56J19-K5	138	N			2	2
AA402	4	600	56J19-K5	138	N			56J19-K6	138	N			1	1
AA403	4	1000	56J20-L5	138	N			56J21- 37	10	N	6		1	1
AA404	4	1700	56J20-L5	138	N			56TB3-M22	138	N			2	2
AA405	4	1700	56J20-M5	138	N			56TB3-M21	138	N			1	2
AA406	4	1700	56J20-N6	138	N			56TB3-H20	138	N			2	1
AA407	4	1700	56J20-N4	138	N			56TB3-L21	138	N			1	3
AA408	4	1700	56J20-N3	138	N			56TB3-K22	138	N			1	3
AA409R	4	2500	56J20-F6	138	N			56TB2-H 4	138	N			1	2
AA409W	4	2500	56J20-F5	138	N			56TB2-G 4	138	N			1	2
AA410R	4	1700	56J20-F6	138	N			56TB3-B19	138	N			2	1
AA410W	4	1700	56J20-F5	138	N			56TB3-B18	138	N			2	1
AA411	4	600	56J20-G5	138	N			56J20-H5	138	N			1	1
AA412R	4	1700	56J20-H6	138	N			56TB3-C 3	138	N			2	1
AA412W	4	1700	56J20-H5	138	N			56TB3-D 2	138	N			2	2
AA413	4	600	56J20-G6	138	N			56J20-H6	138	N			1	1
AA414	4	1700	56J20-A4	138	N			56TB3-K19	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE REV LTR + A SHEET 43 OF 62

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA374R	3	1500	56J19-D2	88	N			56TB3-M17	138	N			1	1
AA374W	3	1500	56J19-D1	88	N			56TB3-M16	138	N			1	1
AA375R	3	1500	56J19-B5	88	N			56TB3-H17	138	N			1	1
AA375W	3	1500	56J19-A5	88	N			56TB3-H16	138	N			1	1
AA376	3	1500	56J19-C5	88	N			56TB3-S18	138	N			1	1
AA377R	3	1500	56J19-B8	88	N			56TB3-K17	138	N			1	1
AA377W	3	1500	56J19-B7	88	N			56TB3-K16	138	N			1	1
AA378	3	1500	56J19-A7	88	N			56TB3-R18	138	N			1	1
AA379R	3	1500	56J19-C8	88	N			56TB3-L16	138	N			1	1
AA379W	3	1500	56J19-D8	88	N			56TB3-L17	138	N			1	1
AA380	3	1500	56J19-C7	88	N			56TB3-T18	138	N			1	1
AA381R	3	1500	56J19-F6	88	N			56TB3-G16	138	N			1	1
AA381W	3	1500	56J19-F5	88	N			56TB3-F16	138	N			1	1
AA382R	4	1500	56J19-G1	138	N			56TB3-T13	138	N			1	1
AA382W	4	1500	56J19-H1	138	N			56TB3-T14	138	N			1	1
AA383R	4	1500	56J19-G2	138	N			56TB3-S14	138	N			1	1
AA383W	4	1500	56J19-G3	138	N			56TB3-S13	138	N			1	1
AA384	3	1500	56J19-C3	88	N			56TB3-N18	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE REV LTR + A SHEET 41 OF 62

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA415	4	1700	56J20-B4	138	N			56TB3-H19	138	N			1	1
AA416	4	1700	56J20-A1	138	N			56TB3-G19	138	N			1	1
AA417	4	1700	56J20-A2	138	N			56TB3-F19	138	N			1	1
AA418	4	1700	56J20-B1	138	N			56TB3-D19	138	N			1	1
AA419R	4	1700	56J20-B3	138	N			56TB3-N21	138	N			1	1
AA419W	4	1700	56J20-A3	138	N			56TB3-N20	138	N			1	1
AA420	4	1700	56J20-K5	138	N			56TB3-G21	138	N			1	1
AA421	4	1700	56J20-K6	138	N			56TB3-G22	138	N			1	1
AA422	4	1700	56J20-H4	138	N			56TB3-R20	138	N			2	1
AA423	4	1000	56J20-H4	138	N			56J21-234	10	N	6		3	1
AA424	4	1700	56J20-K4	138	N			56TB3-N19	138	N			1	1
AA425	4	1700	56J20-C6	138	N			56TB3-L19	138	N			1	1
AA426	4	1700	56J20-D6	138	N			56TB3-M19	138	N			1	1
AA427R	4	1700	56J20-B5	138	N			56TB3-T19	138	N			1	1
AA427W	4	1700	56J20-C5	138	N			56TB3-S19	138	N			1	1
AA428	4	1700	56J20-N1	138	N			56TB3-C20	138	N			2	1
AA429	4	600	56J20-N1	138	N			56J20-P1	138	N			1	1
~~AA430~~	~~4~~	~~600~~	~~56J20-P1~~	~~138~~	~~N~~			~~56J20-R1~~	~~138~~	~~N~~			~~2~~	~~2~~

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE REV LTR + A SHEET 44 OF 62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA 48R	4	1400	56J12-K2	138	N				56J15-R4	138	N				2	1
AA 48W	4	1400	56J12-H2	138	N				56J15-S4	138	N				2	1
AA 49R	4	1400	56J12-P3	138	N				56J15-P5	138	N				2	2
AA 49W	4	1400	56J12-N3	138	N				56J15-P6	138	N				2	2
AA 50R	4	1400	56J12-P5	138	N				56J15-N5	138	N				1	1
AA 50W	4	1400	56J12-N5	138	N				56J15-N6	138	N				2	1
AA 51	4	2600	56J12-S6	138	N				56J20-N5	138	N				1	2
AA 52R	4	2600	56J12-K4	138	N				56J20-G6	138	N				1	2
AA 52W	4	2600	56J12-H4	138	N				56J20-G5	138	N				2	2
AA 53	4	2600	56J12-G4	138	N				56J20-L6	138	N				1	1
AA 54	4	2600	56J12-S1	138	N				56J20-M1	138	N				2	3
AA 55	4	2600	56J12-S2	138	N				56J20-M2	138	N				2	3
AA 56	4	1600	56J12-H5	138	N				56J16-M2	138	N				1	1
AA 57	4	1600	56J12-H6	138	N				56J16-M3	138	N				1	1
AA 58	4	1600	56J12-G6	138	N				56J16-N3	138	N				1	1
AA 59	4	1600	56J12-G5	138	N				56J16-R2	138	N				2	1
AA 60L	4	1100	56J12-P1	138	N				56TB1-H 3	138	N				2	1
AA 60R	4	1100	56J12-R1	138	N				56TB1-H 2	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR ∅ A SHEET 10 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA 60W	4	1100	56J12-P2	138	N				56TB1-G 2	138	N				1	1
AA 61	4	600	56J12-N1	138	N				56J12-P1	138	N				1	1
AA 62	4	600	56J12-H4	138	N				56J12-N2	138	N				1	1
AA 63R	4	1100	56J12-N6	138	N				56TB1-G 7	138	N				2	1
AA 63W	4	1100	56J12-P6	138	N				56TB1-H 7	138	N				2	1
AA 64R	4	1100	56J12-P5	138	N				56TB1-G 4	138	N				2	1
AA 64W	4	1100	56J12-N4	138	N				56TB1-H 4	138	N				2	1
AA 65	4	600	56J12-N4	138	N				56J12-N5	138	N				1	1
AA 66	4	2400	56J12-R6	138	N				56TB3-L20	138	N				1	1
AA 67	4	600	56J12-F1	138	N				56E 31	20	N		7		2	
AA 68	4	600	56J12-F1	138	N				56J12-F2	138	N				1	1
AA 69	4	600	56J12-F2	138	N				56E 29	20	N		8		2	
AA 70	5	2800		300		275	8			50		25	9			
AA 70A	4	600	SHLD AA 70	20	N				56J12-H1	138	N					2
AA 70L			56J12-K1	138	N				56J21- 70	10	N		6		1	1
AA 70R			56J12-H1	138	N				56J21- 71	10	N		6		1	1
AA 71	4	600	56J12-G5	138	N				56J12-R5	138	N				1	1
AA 72	4	900	56J12-K3	138	N				56J13-C6	138	N				2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR ∅ A SHEET 11 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA 32W	4	1400	56J11-G6	138	N				56TB1-A 3	138	N				1	1
AA 33	4	600	56J11-R6	138	N				56J11-S6	138	N				3	1
AA 34R	4	1400	56J11-H6	138	N				56TB1-A 2	138	N				1	1
AA 34W	4	1400	56J11-H5	138	N				56TB1-B 2	138	N				1	1
AA 35	4	1400	56J11-L3	138	N				56TB1-D 6	138	N				1	1
AA 36	4	600	56J11-M5	138	N				56E 28	20	N		8		2	
AA 37	4	600	56J11-M5	138	N				56J11-P3	138	N				1	1
AA 38	4	600	56J11-P2	138	N				56J11-R3	138	N				1	1
AA 39	4	600	56J11-P3	138	N				56J11-R3	138	N				2	2
AA 40	4	600	56J11-S1	138	N				56J11-S2	138	N				1	1
AA 41	4	600	56J11-R1	138	N				56J11-R2	138	N				1	1
AA 42R	4	1400	56J11-G3	138	N				56TB1-B 6	138	N				1	1
AA 42W	4	1400	56J11-F3	138	N				56TB1-C 6	138	N				1	1
AA 43	4	1700	56J11-R3	138	N				56TB2-M 1	138	N				3	2
AA 44	4	1700	56J11-R1	138	N				56TB2-M 2	138	N				2	3
AA 45	4	1700	56J11-R2	138	N				56TB2-M 3	138	N				2	3
AA 46	4	1400	56J11-P6	138	N				56TB1-S 3	138	N				3	3
AA 47	4	1100	56J12-B6	138	N				56J14-H6	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR ∅ A SHEET 9 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA 73L	4	1100	56J12-K6	138	N				56J14-R2	138	N				1	2
AA 73R	4	1100	56J12-L6	138	N				56J14-S2	138	N				1	2
AA 73W	4	1100	56J12-M6	138	N				56J14-S3	138	N				1	1
AA 74	4	2700	56J12-G3	138	N				56J22-244	10	N		6		1	1
AA 75	4	900	56J12-A5	138	N				56J13-D2	138	N				1	1
AA 76	4	900	56J12-A6	138	N				56J13-F2	138	N				1	1
AA 77	4	600	56J12-B5	138	N				56E 34	20	N		7		1	
AA 78	4	1100	56J12-M3	138	N				56TB1-H 5	138	N				1	1
AA 79	4	1100	56J12-M4	138	N				56TB1-G 5	138	N				1	1
AA 80	4	1100	56J12-M1	138	N				56TB1-H 6	138	N				2	1
AA 81	4	2700	56J12-M1	138	N				56J21- 36	10	N		6		1	1
AA 82	4	2400	56J12-L1	138	N				56TB3-M22	138	N				1	1
AA 83	4	1100	56J12-L2	138	N				56TB1-H 8	138	N				1	1
AA 84R	4	2700	56J12-F6	138	N				56J21- 29	10	N		6		1	1
AA 84W	4	2700	56J12-D6	138	N				56J21- 28	10	N		6		1	1
AA 85R	4	2700	56J12-F5	138	N				56J21-159	10	N		6		1	1
AA 85W	4	2700	56J12-D5	138	N				56J21-158	10	N		6		1	1
AA 86R	4	2700	56J12-F4	138	N				56J21- 61	10	N		6		1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR ∅ A SHEET 12 OF 62

MIL 2085 - 4-63 WIR

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA449	4	1700	56J20-S5	138	N				56TB3-H21	138	N				2	2
AA450	4	1700	56J20-P6	138	N				56TB3-H22	138	N				2	1
AA451	4	600	56J20-P6	138	N				56J20-R6	138	N				1	1
AA452	4	600	56J20-R6	138	N				56J20-S6	138	N				2	1
AA453	4	1700	56J20-S6	138	N				56TB3-H22	138	N				2	2
AA454	4	1700	56J20-K1	138	N				56TB3-T20	138	N				2	2
AA455	4	1700	56J20-K1	138	N				56TB3-T21	138	N				3	3
AA456	4	1700	56J20-K2	138	N				56TB3-S21	138	N				3	2
AA457	4	1700	56J20-M6	138	N				56TB3-M20	138	N				2	3
→ AA458	4	600	56J20-G1	138	N				56J20-H1	138	N				1	1 ←
AA459	4	600	56J20-H1	138	N				56J20-H2	138	N				2	1
AA460	4	2500	56J20-G1	138	N				56TB2-M 7	138	N				2	3
AA461	4	2500	56J20-H2	138	N				56TB2-M 1	138	N				2	3
AA462	4	1700	56J20-G4	138	N				56TB3-F22	138	N				2	2
AA463R	4	1700	56J20-D4	138	N				56TB3-S20	138	N				1	1
AA463W	4	1700	56J20-D5	138	N				56TB3-R19	138	N				1	1
AA464R	4	1700	56J20-A6	138	N				56TB3-L13	138	N				1	1
AA464W	4	1700	56J20-B6	138	N				56TB3-K13	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 46 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA465R	4	1700	56J20-H3	138	N				56TB3-L14	138	N				1	1
AA465W	4	1700	56J20-G3	138	N				56TB3-K14	138	N				1	1
AA466	4	600	56TB3-H12	138	N				56TB3-R 3	138	N				1	1
AA467	5	2100		50		25	8			300		275	9			
AA467A	4	600	SHLD AA467	20	N				56E 46	20	N		8			
AA467L			56J21-126	10	N		6		56J15-M5	138	N				1	1
AA467R			56J21-125	10	N		6		56E 35	20	N				1	
AA468	5	2100		50		25	8			300		275	9			
AA468A	4	600	SHLD AA468	20	N				56E 46	20	N					
→ AA468L			56J21- 93	10	N		6		56J15-M6	138	N				1	1 ←
AA468R			56J21- 92	10	N		6		56E 35	20	N				1	
AA469	5	2100		50		25	8			300		275	9			
AA469A	4	600	SHLD AA469	20	N				56E 46	20	N					
AA469L			56J21-195	10	N		6		56J15-L6	138	N				1	1
AA469R			56J21-194	10	N		6		56E 36	20	N				1	
AA470	5	2100		50		25	8			300		275	9			
AA470A	4	600	SHLD AA470	20	N				56E 46	20	N					
AA470L			56J21-161	10	N		6		56J15-K6	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 47 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA431	4	600	56J20-R1	138	N				56J20-S1	138	N				1	1
AA432	4	1700	56J20-S1	138	N				56TB3-C21	138	N				2	1
AA433	4	1700	56J20-N2	138	N				56TB3-D20	138	N				2	1
AA434	4	600	56J20-N2	138	N				56J20-P2	138	N				1	1
~~AA435~~	~~4~~	~~600~~	~~56J20-P2~~	~~138~~	~~N~~				~~56J20-R2~~	~~138~~	~~N~~				~~2~~	~~2~~
AA436	4	600	56J20-R2	138	N				56J20-S2	138	N				1	1
AA437	4	1700	56J20-S2	138	N				56TB3-D21	138	N				2	1
AA438	4	600	56J20-L1	138	N				56J20-M1	138	N				2	1
AA439	4	600	56J20-L1	138	N				56J20-L2	138	N				1	1
→ AA440	4	600	56J20-L2	138	N				56J20-M2	138	N				2	1 ←
AA441	4	1700	56J20-R3	138	N				56TB3-D22	138	N				2	1
AA442	4	600	56J20-R3	138	N				56J20-S3	138	N				1	1
AA443	4	1700	56J20-R4	138	N				56TB3-C22	138	N				2	1
AA444	4	600	56J20-R4	138	N				56J20-S4	138	N				1	1
AA445	4	1700	56J20-P3	138	N				56TB3-N22	138	N				2	1
AA446	4	1700	56J20-P5	138	N				56TB3-H21	138	N				2	1
AA447	4	600	56J20-P5	138	N				56J20-R5	138	N				1	1
AA448	4	600	56J20-R5	138	N				56J20-S5	138	N				2	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 45 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA470R			56J21-160	10	N		6		56E 36	20	N				1	
AA471	5	2100		50		25	8			300		275	9			
AA471A	4	600	SHLD AA471	20	N				56E 46	20	N					
AA471L			56J21- 95	10	N		6		56J15-K4	138	N				1	1
AA471R			56J21- 94	10	N		6		56E 37	20	N				1	
AA472	5	2100		50		25	8			300		275	9			
AA472A	4	600	SHLD AA472	20	N				56E 46	20	N					
AA472L			56J21-128	10	N		6		56J15-K5	138	N				1	1
AA472R			56J21-127	10	N		6		56E 37	20	N				1	
→ AA473	4	600	56J21- 23	10	N		6		56E 45	20	N		8		1	←
AA474	4	600	56J21- 22	10	N		6		56E 47	20	N		8		1	
AA475	5	2100		50		25	8			250		225	9			
AA475A	4	600	SHLD AA475	20	N				56E 47	20	N					
AA475L			56J21- 24	10	N		6		56J15-B4	88	N				1	1
AA475R			56J21- 25	10	N		6		56E 38	20	N				1	
AA476	5	2100		50		25	8			250		225	9			
AA476A	4	600	SHLD AA476	20	N				56E 47	20	N					
AA476L			56J21- 27	10	N		6		56E 38	20	N				1	

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 48 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	2	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	2	TERMINATION ITEM NO.	SPEC	NO.	W-W FR	W-W TO
AA100	4	1100	56J12-R4	138	N					56TB1-N 8	138	N					3	2
AA101	4	900	56J13-N5	138	N					56J14-H3	138	N					1	1
AA102	4	900	56J13-N6	138	N					56J14-K3	138	N					1	1
AA103	4	900	56J13-H6	138	N					56J14-G1	138	N					1	1
AA104	4	900	56J13-A6	138	N					56J14-A6	138	N					1	1
AA105R	4	900	56J13-L6	138	N					56J14-K1	138	N					1	1
AA105W	4	900	56J13-K6	138	N					56J14-H1	138	N					1	1
AA106	4	900	56J13-C6	138	N					56J14-H5	138	N					1	1
AA107	4	900	56J13-S6	138	N					56J14-S6	138	N					1	1
AA108	4	900	56J13-R6	138	N					56J14-R6	138	N					1	1
AA109R	4	900	56J13-R2	138	N					56J14-R1	138	N					1	1
AA109W	4	900	56J13-S2	138	N					56J14-S1	138	N					1	1
AA110R	4	900	56J13-R3	138	N					56J14-R5	138	N					2	1
AA110W	4	900	56J13-S3	138	N					56J14-S5	138	N					2	1
AA111R	4	900	56J13-R4	138	N					56J14-R4	138	N					1	1
AA111W	4	900	56J13-S4	138	N					56J14-S4	138	N					1	1
AA112R	4	900	56J13-R1	138	N					56J14-R2	138	N					1	1
AA112W	4	900	56J13-S1	138	N					56J14-S2	138	N					1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 14 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	2	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	2	TERMINATION ITEM NO.	SPEC	NO.	W-W FR	W-W TO
AA113	4	900	56J13-P6	138	N					56J14-P6	138	N					2	1
AA114	4	1100	56J13-D1	138	N					56J15-L4	138	N					1	1
AA115	4	1100	56J13-F1	138	N					56J15-M4	138	N					1	1
AA116	4	1100	56J13-D3	138	N					56J15-L3	138	N					1	1
AA117	4	1100	56J13-F3	138	N					56J15-M3	138	N					1	1
AA118R	4	1400	56J13-B1	138	N					56TB1-M 6	138	N					1	1
AA118W	4	1400	56J13-A1	138	N					56TB1-M 7	138	N					1	1
AA119	1	1400		300		275	10				300		275	7				
AA119B	4	600	56TB1-N 5	138	N					SHLD AA119	20	N					1	
AA119L			56J13-L1	138	N					56TB1-L 5	138	N					1	1
AA119R			56J13-H1	138	N					56TB1-M 5	138	N					1	1
AA119W			56J13-K1	138	N					56TB1-L 6	138	N					1	1
AA120	4	1400	56J13-D2	138	N					56TB1-L 2	138	N					2	1
AA121R	4	1400	56J13-B3	138	N					56TB1-N 2	138	N					1	1
AA121W	4	1400	56J13-A3	138	N					56TB1-M 3	138	N					1	1
AA122	1	1400		300		275	10				300		275	7				
AA122B	4	600	56TB1-N 4	138	N					SHLD AA122	20	N					2	
AA122L			56J13-N3	138	N					56TB1-M 4	138	N					1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 15 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	2	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	2	TERMINATION ITEM NO.	SPEC	NO.	W-W FR	W-W TO
AA 86W	4	2700	56J12-D4	138	N					56J21- 60	10	N		6			1	1
AA 87	4	600	56J12-S1	138	N					56J12-S3	138	N					1	1
AA 88	4	600	56J12-S2	138	N					56J12-S4	138	N					1	1
AA 89	4	600	56J12-R2	138	N					56J12-R3	138	N					1	1
AA 90	4	600	56J12-R3	138	N					56J12-R4	138	N					2	1
AA 91	4	600	56J12-R4	138	N					56E 31	20	N					2	
AA 92	5	1800		300		275	9				300		275	8				
AA 92B	4		56E 27	20	N		7			SHLD AA 92	20	N						
AA 92L			56J12-P4	138	N					56J17-R3	138	N					2	1
AA 92R			56J12-P4	138	N					56J17-R3	138	N					3	3
AA 94R	4	1800	56J12-N6	138	N					56J17-N3	138	N					1	1
AA 94W	4	1800	56J12-P6	138	N					56J17-P3	138	N					1	1
AA 95R	4	900	56J12-L5	138	N					56J13-R3	138	N					1	1
AA 95W	4	900	56J12-M5	138	N					56J13-S3	138	N					1	1
AA 96	4	900	56J12-R5	138	N					56J13-R6	138	N					2	2
AA 97	4	1800	56J12-F3	138	N					56J17-M3	138	N					1	1
AA 98	4	1100	56J12-R5	138	N					56TB1-S 6	138	N					3	2
AA 99	4	1100	56J12-R2	138	N					56TB1-N 5	138	N					2	2

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 13 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	2	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	2	TERMINATION ITEM NO.	SPEC	NO.	W-W FR	W-W TO
AA122R			56J13-L3	138	N					56TB1-L 4	138	N					1	1
AA122W			56J13-M3	138	N					56TB1-L 3	138	N					1	1
AA123	4	1400	56J13-F2	138	N					56TB1-M 2	138	N					2	1
AA124	1	1400		300		275	10				300		275	7				
AA124B	4	600	56TB1-N 8	138	N					SHLD AA124	20	N					1	
AA124L			56J13-G6	138	N					56TB1-L 7	138	N					1	1
AA124R			56J13-D6	138	N					56TB1-M 8	138	N					1	1
AA124W			56J13-F6	138	N					56TB1-L 8	138	N					1	1
AA125	4	600	56J13-R6	138	N					56E 34	20	N					3	
AA126R	4	1600	56J14-A2	138	N					56TB1-T 4	138	N					1	1
AA126W	4	1600	56J14-A1	138	N					56TB1-T 5	138	N					1	1
AA127	1	1600		300		275	10				300		275	7				
AA127B	4	600	56TB1-S 4	138	N					SHLD AA127	20	N					1	
AA127L			56J14-P2	138	N					56TB1-U 3	138	N					1	1
AA127R			56J14-P1	138	N					56TB1-U 4	138	N					1	1
AA127W			56J14-P3	138	N					56TB1-T 3	138	N					1	1
AA128	4	1600	56J14-H6	138	N					56TB1-T 7	138	N					2	1
AA129R	4	2300	56J14-D1	138	N					56J21- 67	10	N		6			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 16 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA481B	4	600	56E 39	20	N			SHLD AA481	20	N				
AA481L			56J21-237	10	N		6	56J15-B5	88	N			1	1
AA481R			56J21-238	10	N		6	56E 39	20	N			1	
AA482	5	2100		50		25	9		250		225	8		
AA482B	4	600	56E 39	20	N			SHLD AA482	20	N				
AA482L			56J21-200	10	N		6	56E 39	20	N			1	
AA482R			56J21-199	10	N		6	56J15-C5	88	N			1	1
AA483	5	2100		50		25	9		250		225	8		
AA483B	4	600	56E 41	20	N			SHLD AA483	20	N				
AA483L			56J21-165	10	N		6	56J15-B7	88	N			1	1
AA483R			56J21-166	10	N		6	56E 41	20	N			1	
AA484	5	2100		50		25	9		250		225	8		
AA484B	4	600	56E 41	20	N			SHLD AA484	20	N				
AA484L			56J21- 98	10	N		6	56E 41	20	N			1	
AA484R			56J21- 97	10	N		6	56J15-C7	88	N			1	1
AA485	5	2100		50		25	9		250		225	8		
AA485B	4	600	56E 43	20	N			SHLD AA485	20	N				
AA485L			56J21- 64	10	N		6	56J15-B9	88	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 50 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA485R			56J21- 65	10	N		6	56E 43	20	N			1	
AA486	5	2100		50		25	9		250		225	8		
AA486B	4	600	56E 43	20	N			SHLD AA486	20	N				
AA486L			56J21- 31	10	N		6	56E 43	20	N			1	
AA486R			56J21- 30	10	N		6	56J15-C9	88	N			1	1
AA487	5	2700		50		25	8		300		275	8		
AA487A	4	600	SHLD AA487	20	N			56E 57	20	N		8		
AA487B	4	600	56TB2-D3	138	N			SHLD AA487	20	N			3	
AA487L			56J21-121	10	N		6	56TB2-D 2	138	N			1	2
AA487R			56J21-122	10	N		6	56TB2-F 3	138	N			1	1
AA488	5	2100		50		25	8		250		225	9		
AA488A	4	600	SHLD AA488	20	N			56E 57	20	N				
AA488L			56J21-188	10	N		6	56J15-A3	88	N			1	1
AA488R			56J21-189	10	N		6	56E 59	20	N			1	
AA489	5	1900		50		25	8		250		225	9		
AA489A	4	600	SHLD AA489	20	N			56E 57	20	N				
AA489L			56J21-152	10	N		6	56J16-A7	88	N			1	1
AA489R			56J21-153	10	N		6	56E 60	20	N		7	1	
AA490	5	2700		50		25	9		300		275	8		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 51 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA476R			56J21- 26	10	N		6	56J15-C4	88	N			1	1
AA477	5	2100		50		25	8		250		225	9		
AA477A	4	600	SHLD AA477	20	N			56E 47	20	N				
AA477L			56J21-232	10	N		6	56J15-B6	88	N			1	1
AA477R			56J21-233	10	N		6	56E 40	20	N			1	
AA478	5	2100		50		25	8		250		225	9		
AA478A	4	600	SHLD AA478	20	N			56E 47	20	N				
AA478L			56J21-193	10	N		6	56E 40	20	N			1	
AA478R			56J21-192	10	N		6	56J15-C6	88	N			1	1
AA479	5	2100		50		25	8		250		225	9		
AA479A	4	600	SHLD AA479	20	N			56E 47	20	N				
AA479L			56J21- 56	10	N		6	56J15-B8	88	N			1	1
AA479R			56J21- 57	10	N		6	56E 42	20	N			1	
AA480	5	2100		50		25	8		250		225	9		
AA480A	4	600	SHLD AA480	20	N			56E 47	20	N				
AA480L			56J21- 59	10	N		6	56E 42	20	N			1	
AA480R			56J21- 58	10	N		6	56J15-C8	88	N			1	1
AA481	5	2100		50		25	9		250		225	8		

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 49 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA490B	4	600	56E 29	20	N			SHLD AA490	20	N				
AA490L			56J21-169	10	N		6	56J12-G1	138	N			1	1
AA490R			56J21-170	10	N		6	56E 29	20	N			1	
AA491	5	2700		50		25	9		300		275	8		
AA491B	4	600	56E 29	20	N			SHLD AA491	20	N				
AA491L			56J21-137	10	N		6	56E 29	20	N			1	
AA491R			56J21-136	10	N		6	56J12-G2	138	N			1	1
AA492	5	1400		50		25	9		300		275	8		
AA492B	4	600	56E 52	20	N			SHLD AA492	20	N				
AA492L			56J21-163	10	N		6	56J18-K2	138	N			1	1
AA492R			56J21-164	10	N		6	56E 52	20	N			1	
AA493	5	1400		50		25	9		300		275	8		
AA493B	4	600	56E 52	20	N			SHLD AA493	20	N				
AA493L			56J21-131	10	N		6	56E 52	20	N			1	
AA493R			56J21-130	10	N		6	56J18-L2	138	N			1	1
AA494	5	1400		50		25	8		300		275	9		
AA494A	4	600	SHLD AA494	20	N			56E 45	20	N				
AA494L			56J21-156	10	N		6	56J18-L1	138	N			1	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 52 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA136L			56J14-M6	138	N				56TB1-U 8	138	N				1	1
AA136R			56J14-L6	138	N				56TB1-T 8	138	N				1	1
AA136W			56J14-N6	138	N				56TB1-U 7	138	N				1	1
AA137	4	600	56J14-R6	138	N				56E 33	20	N				3	
AA138	4	900	56J14-H3	138	N				56J15-L1	138	N				2	1
AA139	4	900	56J14-C5	138	N				56J15-N4	138	N				1	1
AA140	4	900	56J14-C6	138	N				56J15-P4	138	N				1	1
AA141	4	900	56J14-C3	138	N				56J15-N3	138	N				1	1
AA142	4	900	56J14-C4	138	N				56J15-P3	138	N				1	1
AA143	4	900	56J14-C1	138	N				56J15-N2	138	N				1	1
AA144	4	900	56J14-C2	138	N				56J15-P2	138	N				1	1
AA145	4	900	56J14-H4	138	N				56J15-M1	138	N				1	1
AA146	4	900	56J14-K3	138	N				56J15-N1	138	N				2	1
AA147	4	900	56J14-K4	138	N				56J15-P1	138	N				1	1
AA148	4	900	56J14-F6	138	N				56J15-L2	138	N				1	1
AA149	4	900	56J14-G6	138	N				56J15-M2	138	N				1	1
AA150R	4	900	56J14-R1	138	N				56J15-R5	138	N				2	2
AA150W	4	900	56J14-S1	138	N				56J15-S5	138	N				2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 18 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA151	4	900	56J14-H5	138	N				56J15-K3	138	N				2	2
AA152	4	900	56J14-S6	138	N				56J15-S2	138	N				2	1
AA153	4	900	56J14-R6	138	N				56J15-R2	138	N				2	1
AA154R	4	1400	56J14-R4	138	N				56J17-S5	138	N				2	1
AA154W	4	1400	56J14-S4	138	N				56J17-T5	138	N				2	1
AA155K	3	1800	56J15-B2	88	N				56TB1-B 7	138	N				1	1
AA155L	3	1800	56J15-B1	88	N				56TB1-C 7	138	N				1	1
AA155R	3	1800	56J15-A2	88	N				56TB1-B 8	138	N				1	1
AA155W	3	1800	56J15-A1	88	N				56TB1-C 8	138	N				1	1
AA156	4	1500	56J15-R1	138	N				56TB2-C 2	138	N				1	1
AA157R	4	2100	56J15-R2	138	N				56J21-101	10	N		6		2	1
AA157W	4	2100	56J15-P1	138	N				56J21-102	10	N		6		2	1
AA158	4	600	56J15-L5	138	N				56E 35	20	N		7		1	
AA159	4	600	56J15-L5	138	N				56E 36	20	N		7		2	
AA160	4	600	56J15-L5	138	N				56E 37	20	N		7		3	
AA161L	3	1500	56J15-D1	88	N				56TB2-C 5	138	N				1	1
AA161R	3	1500	56J15-C1	88	N				56TB2-A 5	138	N				1	1
AA161W	3	1500	56J15-C2	88	N				56TB2-B 5	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 19 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA129W	4	2300	56E 33	20	N		8		56J21- 66	10	N		6			1
AA130R	4	2300	56E 33	20	N				56J21- 32	10	N		6			1
AA130W	4	2300	56J14-D2	138	N				56J21- 33	10	N		6		1	1
AA131R	4	2300	56J14-D3	138	N				56J21-240	10	N		6		1	1
AA131W	4	2300	56E 33	20	N				56J21-239	10	N		6			1
AA132R	4	2300	56J14-D4	138	N				56J21-202	10	N		6		1	1
AA132W	4	2300	56E 33	20	N				56J21-201	10	N		6			1
AA133	1	1600		300		275	10			300		275	7			
AA133B	4	600	56TB1-S 5	138	N				SHLD AA133	20	N				1	
AA133L			56J14-M2	138	N				56TB1-U 6	138	N				1	1
AA133R			56J14-M1	138	N				56TB1-T 6	138	N				1	1
AA133W			56J14-M3	138	N				56TB1-U 5	138	N				1	1
AA134R	4	2300	56E 33	20	N				56J21-167	10	N		6			1
AA134W	4	2300	56J14-D5	138	N				56J21-168	10	N		6		1	1
AA135R	4	2300	56J14-D6	138	N				56J21-135	10	N		6		1	1
AA135W	4	2300	56E 33	20	N				56J21-134	10	N		6			1
AA136	1	1600		300		275	10			300		275	7			
AA136B	4	600	56TB1-S 8	138	N				SHLD AA136	20	N				3	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 17 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA162L	3	1500	56J15-F2	88	N				56TB2-C 6	138	N				1	1
AA162R	3	1500	56J15-D2	88	N				56TB2-A 6	138	N				1	1
AA162W	3	1500	56J15-F1	88	N				56TB2-B 6	138	N				1	1
AA163L	3	1500	56J15-C3	88	N				56TB2-C 4	138	N				1	1
AA163R	3	1500	56J15-D3	88	N				56TB2-A 4	138	N				1	1
AA163W	3	1500	56J15-D4	88	N				56TB2-B 4	138	N				1	1
AA164	3	600	56J15-A5	88	N				56E 38	20	N		7		2	
AA165	3	600	56J15-A7	88	N				56E 40	20	N		7		3	
AA166	3	600	56J15-A9	88	N				56E 42	20	N		7		3	
AA167	3	600	56J15-A5	88	N				56E 39	20	N		8		3	
AA168	3	600	56J15-A7	88	N				56E 41	20	N		8		2	
AA169	3	600	56J15-A9	88	N				56E 43	20	N		8		2	
AA170	4	1500	56J15-H4	138	N				56TB2-C 1	138	N				2	1
AA171L	3	1500	56J15-F7	88	N				56TB2-C 8	138	N				1	1
AA171R	3	1500	56J15-D7	88	N				56TB2-B 8	138	N				1	1
AA171W	3	1500	56J15-D8	88	N				56TB2-A 8	138	N				1	1
AA172L	3	1500	56J15-D9	88	N				56TB2-C 7	138	N				1	1
AA172R	3	1500	56J15-F9	88	N				56TB2-B 7	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 20 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TERMINATION SPEC. ▷1		CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TERMINATION SPEC ▷1			
NUMBER	ITEM NO.	▷2	CIRCUIT POINT	▷2	TIN	▷2	ITEM NO.	NO.	CIRCUIT POINT	▷2	TIN	▷2	ITEM NO.	NO.	FR	TO
AA184	4	900	56J15-H4	138	N				56J16-L1	138	N				1	1
AA185R	4	900	56J15-P5	138	N				56J16-S3	138	N				1	1
AA185W	4	900	56J15-P6	138	N				56J16-S4	138	N				1	1
AA186	4	900	56J15-S6	138	N				56J16-S2	138	N				1	1
AA187	4	900	56J15-K3	138	N				56J16-N4	138	N				1	1
AA188R	4	1100	56J15-R5	138	N				56J17-L4	138	N				1	1
AA188W	4	1100	56J15-S5	138	N				56J17-L5	138	N				1	1
AA189	4	1600	56J16-S5	138	N				56J20-N5	138	N				1	1
AA190	4	1600	56J16-S6	138	N				56J20-N6	138	N				1	1
AA191R	4	1600	56J16-N5	138	N				56J20-L3	138	N				2	1
AA191W	4	1600	56J16-P5	138	N				56J20-K3	138	N				2	1
AA192R	4	1600	56J16-N6	138	N				56J20-M4	138	N				1	1
AA192W	4	1600	56J16-P6	138	N				56J20-L4	138	N				1	1
AA193	4	1600	56J16-S2	138	N				56J20-K2	138	N				2	2
AA194R	3	1700	56J16-D2	88	N				56TB2-G 3	138	N				1	1
AA194W	3	1700	56J16-D1	88	N				56TB2-H 3	138	N				1	1
AA195R	3	1700	56J16-D2	88	N				56TB2-G 2	138	N				2	3
AA195W	3	1700	56J16-C2	88	N				56TB2-H 2	138	N				1	2

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR A SHEET 22 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TERMINATION SPEC. ▷1		CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TERMINATION SPEC ▷1			
NUMBER	ITEM NO.	▷2	CIRCUIT POINT	▷2	TIN	▷2	ITEM NO.	NO.	CIRCUIT POINT	▷2	TIN	▷2	ITEM NO.	NO.	FR	TO
AA196R	3	1700	56J16-D2	88	N				56TB2-G 1	138	N				3	1
AA196W	3	1700	56J16-C1	88	N				56TB2-H 1	138	N				1	1
AA197	1	1700		250		225	7			300		275	10			
AA197A	4	600	SHLD AA197	20	N				56J16-B1	88	N					2
AA197L			56J16-B1	88	N				56TB2-T 7	138	N				3	1
AA197R			56J16-A1	88	N				56TB2-U 6	138	N				1	1
AA197W			56J16-A2	88	N				56TB2-T 6	138	N				1	1
AA198R	4	1700	56J16-P1	138	N				56TB2-L 6	138	N				1	1
AA198W	4	1700	56J16-R1	138	N				56TB2-L 5	138	N				1	1
AA199R	3	1700	56J16-D4	88	N				56TB2-G 6	138	N				1	1
AA199W	3	1700	56J16-D3	88	N				56TB2-H 6	138	N				1	1
AA200R	3	1700	56J16-D4	88	N				56TB2-G 7	138	N				2	3
AA200W	3	1700	56J16-C4	88	N				56TB2-H 7	138	N				1	2
AA201R	3	1700	56J16-D4	88	N				56TB2-G 8	138	N				3	1
AA201W	3	1700	56J16-C3	88	N				56TB2-H 8	138	N				1	1
AA202	1	1700		250		225	7			300		275	10			
AA202A	4	600	SHLD AA202	20	N				56J16-B3	88	N					2
AA202L			56J16-B3	88	N				56TB2-X 6	138	N				3	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR A SHEET 23 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TERMINATION SPEC. ▷1		CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TERMINATION SPEC ▷1			
NUMBER	ITEM NO.	▷2	CIRCUIT POINT	▷2	TIN	▷2	ITEM NO.	NO.	CIRCUIT POINT	▷2	TIN	▷2	ITEM NO.	NO.	FR	TO
AA172W	3	1500	56J15-F8	88	N				56TB2-A 7	138	N				1	1
AA173	4	1500	56J15-S1	138	N				56TB2-B 2	138	N				2	1
AA174	4	1500	56J15-S3	138	N				56TB2-B 1	138	N				1	1
AA175	4	2100	56J15-S3	138	N				56J22-227	10	N		6		2	1
AA176	2	1500		250		225	11			300		275	7			
AA176B	4	600	56TB2-D 3	138	N				SHLD AA176	20	N				1	
AA176L			56J15-B3	88	N				56TB2-D 2	138	N				1	1
AA176R			56E 59	20	N		7		56TB2-F 3	138	N					2
AA177	4	1500	56J15-R6	138	N				56TB2-D 1	138	N				1	1
AA178	4	1800	56J15-H5	138	N				56J20-H4	138	N				1	1
AA179	4	1800	56J15-S2	138	N				56J20-K1	138	N				2	1
AA180R	3	900	56J15-A4	88	N				56J16-B2	88	N				1	1
AA180W	3	900	56J15-A5	88	N				56J16-B1	88	N				1	1
AA181R	3	900	56J15-A6	88	N				56J16-B4	88	N				1	1
AA181W	3	900	56J15-A7	88	N				56J16-B3	88	N				1	1
AA182R	3	900	56J15-A8	88	N				56J16-B6	88	N				1	1
AA182W	3	900	56J15-A9	88	N				56J16-B5	88	N				1	1
AA183	4	900	56J15-S1	138	N				56J16-L2	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR A SHEET 21 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TERMINATION SPEC. ▷1		CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TERMINATION SPEC ▷1			
NUMBER	ITEM NO.	▷2	CIRCUIT POINT	▷2	TIN	▷2	ITEM NO.	NO.	CIRCUIT POINT	▷2	TIN	▷2	ITEM NO.	NO.	FR	TO
AA202R			56J16-A3	88	N				56TB2-W 5	138	N				1	1
AA202W			56J16-A4	88	N				56TB2-X 5	138	N				1	1
AA203R	4	1700	56J16-P3	138	N				56TB2-K 3	138	N				1	1
AA203W	4	1700	56J16-R3	138	N				56TB2-L 3	138	N				1	1
AA204L	3	1700	56J16-C9	88	N				56TB2-R 8	138	N				1	1
AA204R	3	1700	56J16-C8	88	N				56TB2-N 7	138	N				1	1
AA204W	3	1700	56J16-B8	88	N				56TB2-N 8	138	N				1	1
AA205L	3	1700	56J16-B9	88	N				56TB2-T 8	138	N				1	1
AA205R	3	1700	56J16-A9	88	N				56TB2-U 8	138	N				1	1
AA205W	3	1700	56J16-A8	88	N				56TB2-U 7	138	N				1	1
AA206R	3	1700	56J16-D6	88	N				56TB2-R 1	138	N				1	1
AA206W	3	1700	56J16-D5	88	N				56TB2-N 1	138	N				1	1
AA207R	3	1700	56J16-D6	88	N				56TB2-R 2	138	N				2	3
AA207W	3	1700	56J16-C6	88	N				56TB2-N 2	138	N				1	2
AA208R	3	1700	56J16-C5	88	N				56TB2-N 3	138	N				1	1
AA208W	3	1700	56J16-D6	88	N				56TB2-R 3	138	N				3	2
AA209L	3	1700	56J16-F8	88	N				56TB2-X 4	138	N				1	1
AA209R	3	1700	56J16-D7	88	N				56TB2-W 3	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR A SHEET 24 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 2
PHOTOGRAPHIC SCALE ONLY

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM T I N	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO T I N	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA499A	4	600	SHLD AA499	20	N				56E 45	20	N					
AA499L			56J21-190	10	N		6		56J18-K4	138	N				1	2
AA499R			56J21-191	10	N		6		56E 51	20	N				1	
AA500	5	1600		50		25	9			300		275	8			
AA500B	4	600	56E 27	20	N				SHLD AA500	20	N					
AA500L			56J21-104	10	N		6		56E 27	20	N				1	
AA500R			56J21-103	10	N		6		56J17-R3	138	N				1	2
AA501R	4	2500	56J21-133	10	N		6		56E 34	20	N				1	
AA501W	4	2500	56J21-132	10	N		6		56J13-N5	138	N				1	2
AA502R	4	2500	56J21-100	10	N		6		56E 34	20	N				1	
AA502W	4	2500	56J21- 99	10	N		6		56J13-N6	138	N				1	2
AA503	5	2900		50		25	9			300		275	8			
AA503B	4	600	56E 28	20	N				SHLD AA503	20	N					
AA503L			56J21-204	10	N		6		56E 28	20	N				1	
AA503R			56J21-203	10	N		6		56J11-L6	138	N				1	1
AA504	5	2900		50		25	9			300		275	8			
AA504B	4	600	56E 28	20	N				SHLD AA504	20	N					
AA504L			56J21-242	10	N		6		56E 28	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE

REV LTR ~~/~~ A

SHEET 54 OF 62

MIL 2085 - 4-63 WIR

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM T I N	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO T I N	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA504R			56J21-241	10	N		6		56J11-M6	138	N				1	1
AA505	5	2700		50		25	9			300		275	8			
AA505B	4	600	56TB2-V 8	138	N				SHLD AA505	20	N				2	
AA505L			56J22-139	10	N		6		56TB2-U 8	138	N				1	2
AA505R			56J22-107	10	N		6		56TB2-U 7	138	N				1	2
AA506	5	2700		50		25	9			300		275	8			
AA506B	4	600	56TB2-M 8	138	N				SHLD AA506	20	N				2	
AA506L			56J22-141	10	N		6		56TB2-N 8	138	N				1	2
AA506R			56J22-142	10	N		6		56TB2-N 7	138	N				1	2
AA507	5	1700		50		25	9			300		275	8			
AA507B	4	600	56TB3-H12	138	N				SHLD AA507	20	N				3	
AA507L			56J22-144	10	N		6		56TB3-C13	138	N				1	1
AA507R			56J22-111	10	N		6		56TB3-C14	138	N				1	1
AA508	5	1700		50		25	9			300		275	8			
AA508B	4	600	56TB3-H14	138	N				SHLD AA508	20	N				2	
AA508L			56J22-113	10	N		6		56TB3-N20	138	N				1	2
AA508R			56J22-114	10	N		6		56TB3-N21	138	N				1	2
AA509	5	1700		50		25	9			300		275	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE

REV LTR ~~/~~ A

SHEET 55 OF 62

MIL 2085 - 4-63 WIR

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM T I N	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO T I N	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA494R			56J21-157	10	N		6		56E 53	20	N				1	
AA495	5	1400		50		25	8			300		275	9			
AA495A	4	600	SHLD AA495	20	N				56E 45	20	N					
AA495L			56J21-123	10	N		6		56J18-K1	138	N				1	2
AA495R			56J21-124	10	N		6		56E 53	20	N				1	
AA496	5	1400		50		25	9			300		275	8			
AA496B	4	600	56E 50	20	N				SHLD AA496	20	N					
AA496L			56J21-235	10	N		6		56J18-K3	138	N				1	1
AA496R			56J21-236	10	N		6		56E 50	20	N				1	
AA497	5	1400		50		25	9			300		275	8			
AA497B	4	600	56E 50	20	N				SHLD AA497	20	N					
AA497L			56J21-198	10	N		6		56E 50	20	N				1	
AA497R			56J21-197	10	N		6		56J18-L3	138	N				1	1
AA498	5	1400		50		25	8			300		275	9			
AA498A			SHLD AA498	20	N				56E 45	20	N					
AA498L			56J21-230	10	N		6		56J18-L4	138	N				1	2
AA498R			56J21-231	10	N		6		56E 51	20	N				1	
AA499	5	1400		50		25	8			300		275	9			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE

REV LTR ~~/~~ A

SHEET 53 OF 62

MIL 2085 - 4-63 WIR

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM T I N	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO T I N	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA509B	4	600	56TB3-H13	138	N				SHLD AA509	20	N				3	
AA509L			56J22-116	10	N		6		56TB3-D13	138	N				1	1
AA509R			56J22-148	10	N		6		56TB3-D14	138	N				1	1
AA510	5	1700		50		25	9			300		275	8			
AA510B	4	600	56TB3-H14	138	N				SHLD AA510	20	N				3	
AA510L			56J22-150	10	N		6		56TB3-F13	138	N				1	1
AA510R			56J22-151	10	N		6		56TB3-F14	138	N				1	1
AA511	4	600	56TB1-S 2	138	N				56TB1-T 2	138	N				2	1
AA512	4	600	56TB1-R 2	138	N				56TB1-S 2	138	N				1	1
AA513	4	600	56TB3-H12	138	N				56TB3-H13	138	N				2	2
AA514	4	600	56TB3-B15	138	N				56TB3-C15	138	N				1	3
AA515	4	600	56TB3-M20	138	N				56TB3-C18	138	N				1	1
AA517R	4	1700	56TB3-B19	138	N				56J22-120	10	N		6		2	1
AA517W	4	1700	56TB3-B18	138	N				56J22-153	10	N		6		2	1
AA518	4	1700	56TB3-F 4	138	N				56J22-190	10	N		6		1	1
~~AA519~~	~~4~~	~~1700~~	~~56TB3-G21~~	~~138~~	~~N~~				~~56J21- 1~~	~~10~~	~~N~~		~~6~~		~~2~~	~~1~~
~~AA520~~	~~4~~	~~1700~~	~~56TB3-G20~~	~~138~~	~~N~~				~~56J21- 2~~	~~10~~	~~N~~		~~6~~		~~1~~	~~1~~
AA521	4	1700	56TB3-L19	138	N				56J21- 62	10	N		6		2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE

REV LTR ~~/~~ A

SHEET 56 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA220	4	1900	56J16-L1	138	N				56J22-228	10	N		6		2	1
AA221	4	1700	56J16-M1	138	N				56TB2-R 4	138	N				1	1
AA222K	4	1700	56J16-R4	138	N				56TB2-H 5	138	N				1	1
AA222L	4	1700	56J16-S3	138	N				56TB2-H 4	138	N				2	1
AA222R	4	1700	56J16-S4	138	N				56TB2-G 4	138	N				2	1
AA222W	4	1700	56J16-P4	138	N				56TB2-G 5	138	N				1	1
AA223	4	1700	56J16-P2	138	N				56TB2-K 4	138	N				1	2
AA224R	4	1700	56J16-N5	138	N				56TB2-L 1	138	N				3	2
AA224W	4	1700	56J16-P5	138	N				56TB2-K 1	138	N				3	2
AA225R	4	1700	56J16-N6	138	N				56TB2-T 2	138	N				2	2
AA225W	4	1700	56J16-P6	138	N				56TB2-U 3	138	N				2	1
AA226	5	1900		300		275	8			50		25	9			
AA226A			SHLD AA226	20	N				56E 30	20	N		7			
AA226L			56J16-L3	138	N				56J21- 35	10	N		6		1	1
AA226R			56J16-L4	138	N				56J21- 34	10	N		6		2	1
AA227	5	1900		300		275	8			50		25	9			
AA227A			SHLD AA227	20	N				56E 30	20	N					
AA227L			56J16-L3	138	N				56J21- 68	10	N		6		2	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE - NONE | REV LTR A | SHEET 26 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA227R			56J16-M4	138	N				56J21- 69	10	N		6		2	1
AA228	4	1500	56J16-R5	138	N				56TB3-L20	138	N				1	2
AA229	4	1500	56J16-R6	138	N				56TB3-L20	138	N				1	3
AA230L	4	1700	56J16-G2	138	N				56TB2-W 7	138	N				1	1
AA230R	4	1700	56J16-H1	138	N				56TB2-X 7	138	N				1	1
AA230W	4	1700	56J16-G1	138	N				56TB2-W 6	138	N				1	1
AA231L	4	1700	56J16-G4	138	N				56TB2-U 4	138	N				1	1
AA231R	4	1700	56J16-H3	138	N				56TB2-T 5	138	N				1	1
AA231W	4	1700	56J16-G3	138	N				56TB2-U 5	138	N				1	1
AA232	1	1800		300		275	7			300		275	7			
AA232A	4	600	SHLD AA232	20	N				56E 30	20	N					
AA232B	4	600	56E 31	20	N				SHLD AA232	20	N					
AA232L			56J16-L4	138	N				56J12-D1	138	N				1	1
AA232R			56J16-M4	138	N				56J12-D2	138	N				1	1
AA232W			56J16-L3	138	N				56E 31	20	N				3	
AA233R	4	1100	56J16-N5	138	N				56J18-S6	138	N				1	1
AA233W	4	1100	56J16-P5	138	N				56J18-T6	138	N				1	1
AA234	4	900	56J16-N4	138	N				56J17-L6	138	N				2	2

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE - NONE | REV LTR A | SHEET 27 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA209W	3	1700	56J16-F7	88	N				56TB2-W 4	138	N				1	1
AA210	4	1700	56J16-S1	138	N				56TB2-N 5	138	N				1	1
AA211	4	1700	56J16-T1	138	N				56TB2-R 5	138	N				1	1
AA212	4	1700	56J16-T2	138	N				56TB2-K 8	138	N				1	1
AA213L	3	1700	56J16-F9	88	N				56TB2-X 2	138	N				1	1
AA213R	3	1700	56J16-D9	88	N				56TB2-W 2	138	N				1	1
AA213W	3	1700	56J16-D8	88	N				56TB2-X 3	138	N				1	1
AA214	1	1700		250		225	7			300		275	10			
AA214A	4	600	SHLD AA214	20	N				56J16-B5	88	N					2
AA214L			56J16-B5	88	N				56TB2-R 7	138	N				3	1
AA214R			56J16-A5	88	N				56TB2-N 6	138	N				1	1
AA214W			56J16-A6	88	N				56TB2-R 6	138	N				1	1
AA215R	4	1700	56J16-N2	138	N				56TB2-K 5	138	N				1	1
AA215W	4	1700	56J16-N1	138	N				56TB2-K 6	138	N				1	1
AA216	3	1700	56J16-F2	88	N				56TB2-W 1	138	N				1	1
AA217	3	1700	56J16-F4	88	N				56TB2-X 1	138	N				1	1
AA218	3	1700	56J16-F6	88	N				56TB2-S 1	138	N				1	1
AA219	3	1700	56J16-F5	88	N				56TB2-T 1	138	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE - NONE | REV LTR A | SHEET 25 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA235	4	1400	56J17-P6	138	N				56TB3-F 3	138	N				1	1
AA236	4	1400	56J17-T4	138	N				56J20-M1	138	N				1	2
AA237	4	1400	56J17-T3	138	N				56J20-M2	138	N				1	2
AA238	4	1400	56J17-T1	138	N				56J20-P3	138	N				2	1
AA239	4	1400	56J17-T2	138	N				56J20-P4	138	N				2	1
AA240	4	900	56J17-T6	138	N				56J18-S1	138	N				1	1
AA241	4	900	56J17-L6	138	N				56J18-R5	138	N				1	1
AA242L	4	900	56J17-K4	138	N				56J18-K1	138	N				1	1
AA242R	4	900	56J17-G4	138	N				56J18-L1	138	N				1	1
AA242W	4	600	56J17-H4	138	N				56E 53	20	N		7		1	
AA243L	4	900	56J17-K6	138	N				56J18-K4	138	N				1	1
AA243R	4	900	56J17-G6	138	N				56J18-L4	138	N				1	1
AA243W	4	600	56J17-H6	138	N				56E 51	20	N		7		1	
AA244	5	1600		250		225	9			50		25	8			
AA244B	4	600	56J22- 41	10	N		6		SHLD AA244	20	N				1	
AA244L			56J17-A4	88	N				56J22- 3	10	N		6		1	1
AA244R			56J17-B4	88	N				56J22- 4	10	N		6		1	1
AA245	5	1600		250		225	9			50		25	8			

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE - NONE | REV LTR A | SHEET 28 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR INDIVIDUAL LENGTH			FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET				FROM TERMINATION SPEC. 1		TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TO TERMINATION SPEC 1		W-W	-
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA256	3	1400	56J17-D7	88	N				56TB3-M 4	138	N				1	1
AA257	3	1400	56J17-F7	88	N				56TB3-C 1	138	N				1	1
AA258K	4	1400	56J17-N6	138	N				56TB3-G 1	138	N				1	1
AA258L	4	1400	56J17-N5	138	N				56TB3-G 2	138	N				1	1
AA258R	4	1400	56J17-M6	138	N				56TB3-H 1	138	N				1	1
AA258W	4	1400	56J17-M5	138	N				56TB3-H 2	138	N				1	1
AA259	4	1400	56J17-H1	138	N				56TB3-K 2	138	N				1	1
AA260	4	1400	56J17-H2	138	N				56TB3-K 1	138	N				1	1
AA261	4	1400	56J17-G1	138	N				56TB3-K 5	138	N				1	1
AA262	4	1400	56J17-G2	138	N				56TB3-H 5	138	N				1	1
AA263	4	1400	56J17-L1	138	N				56TB3-L 5	138	N				1	1
AA264	4	1400	56J17-M1	138	N				56TB3-D 1	138	N				1	1
AA265	5	1400		300		275	9			300		275	8			
AA265B	4	600	56TB3-S 3	138	N				SHLD AA265	20	N				2	
AA265L			56J17-M4	138	N				56TB3-N 1	138	N				1	1
AA265R			56J17-N4	138	N				56TB3-N 2	138	N				1	1
AA266	3	1400	56J17-C5	88	N				56TB3-K 3	138	N				1	1
AA267	3	1400	56J17-B6	88	N				56TB3-L 4	138	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A

MIL 2085 - 4-63 WIR

CONDUCTOR INDIVIDUAL LENGTH			FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET				FROM TERMINATION SPEC. 1		TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TO TERMINATION SPEC 1		W-W	-
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA268	3	1400	56J17-B5	88	N				56TB3-L 3	138	N				1	1
AA269	3	1400	56J17-D5	88	N				56TB3-M 1	138	N				1	1
AA270	5	1400		300		275	9			300		275	8			
AA270B	4	600	56TB3-N 3	138	N				SHLD AA270	20	N				1	
AA270L			56J17-N1	138	N				56TB3-N 4	138	N				1	1
AA270R			56J17-P1	138	N				56TB3-N 5	138	N				1	1
AA271	3	1400	56J17-F6	88	N				56TB3-C 4	138	N				1	1
AA272	3	1400	56J17-F5	88	N				56TB3-D 4	138	N				1	1
AA273	3	1400	56J17-F4	88	N				56TB3-C 5	138	N				1	1
AA274	3	1400	56J17-F3	88	N				56TB3-D 5	138	N				1	1
AA275	4	1400	56J17-P5	138	N				56TB3-D 3	138	N				1	1
AA276	3	1400	56J17-C6	88	N				56TB3-H 4	138	N				1	1
AA277	4	1400	56J17-M2	138	N				56TB3-G 5	138	N				1	1
AA278	4	1400	56J17-M3	138	N				56TB3-F 1	138	N				2	1
AA280	4	1400	56J17-R5	138	N				56TB3-M21	138	N				1	1
AA281L	3	1400	56J17-A8	88	N				56TB3-T 6	138	N				1	1
AA281R	3	1400	56J17-A7	88	N				56TB3-T 5	138	N				1	1
AA281W	3	1400	56J17-A6	88	N				56TB3-T 4	138	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A

MIL 2085 - 4-63 WIR

CONDUCTOR INDIVIDUAL LENGTH			FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET				FROM TERMINATION SPEC. 1		TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TO TERMINATION SPEC 1		W-W	-
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA245B	4	600	56J22- 5	10	N		6		SHLD AA245	20	N				1	
AA245L			56J17-C4	88	N				56J22- 6	10	N		6		1	1
AA245R			56J17-D4	88	N				56J22- 43	10	N		6		1	1
AA246	5	1600		225		250	9			50		25	8			
AA246B	4	600	56J22- 8	10	N		6		SHLD AA246	20	N				1	
AA246L			56J17-C3	88	N				56J22- 45	10	N		6		1	1
AA246R			56J17-D3	88	N				56J22- 46	10	N		6		1	1
AA247R	3	1400	56J17-D2	88	N				56TB3-R 4	138	N				1	1
AA247W	3	1400	56J17-D3	88	N				56TB3-R 5	138	N				2	1
AA248	4	1400	56J17-S2	138	N				56TB3-T 3	138	N				2	3
AA249	3	1400	56J17-F8	88	N				56TB3-L 2	138	N				1	1
AA250R	4	1400	56J17-P4	138	N				56TB3-C 2	138	N				1	1
AA250W	4	1400	56J17-R4	138	N				56TB3-D 2	138	N				1	1
AA251	3	1400	56J17-D8	88	N				56TB3-M 2	138	N				1	1
AA252	3	1400	56J17-B7	88	N				56TB3-H 3	138	N				1	1
AA253	3	1400	56J17-B8	88	N				56TB3-G 3	138	N				1	1
AA254	3	1400	56J17-C7	88	N				56TB3-G 4	138	N				1	1
AA255	3	1400	56J17-D6	88	N				56TB3-M 5	138	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A

MIL 2085 - 4-63 WIR

CONDUCTOR INDIVIDUAL LENGTH			FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET				FROM TERMINATION SPEC. 1		TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET				TO TERMINATION SPEC 1		W-W	-
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA282	4	1400	56J17-R6	138	N				56TB3-L21	138	N				2	2
AA283	4	600	56J17-R6	138	N				56J17-S6	138	N				1	1
AA284L	3	1400	56J17-F9	88	N				56TB3-S 4	138	N				1	1
AA284R	3	1400	56J17-D9	88	N				56TB3-S 5	138	N				1	1
AA284W	3	1400	56J17-C9	88	N				56TB3-S 6	138	N				1	1
AA285	3	1400	56J17-A9	88	N				56TB3-M 3	138	N				1	1
AA286	3	1400	56J17-B9	88	N				56TB3-K 4	138	N				1	1
AA287	5	1600		250		225	9			50		25	8			
AA287B	4	600	56J22- 2	10	N		6		SHLD AA287	20	N				1	
AA287L			56J17-A3	88	N				56J22- 1	10	N		6		1	1
AA287R			56J17-B3	88	N				56J22- 39	10	N		6		1	1
AA288	5	1600		250		225	9			50		25	8			
AA288B	4	600	56J22- 11	10	N		6		SHLD AA288	20	N				1	
AA288L			56J17-D1	88	N				56J22- 48	10	N		6		1	1
AA288R			56J17-C1	88	N				56J22- 10	10	N		6		1	1
AA289R	3	1400	56J17-C2	88	N				56TB3-M 14	138	N				1	1
AA289W	3	1400	56J17-C1	88	N				56TB3-M 13	138	N				2	1
AA290	3	1400	56J17-C8	88	N				56TB3-L 1	138	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA540	4	600	56TB2-V 2	138	N				56TB2-V 3	138	N				1	1
AA541	4	600	56TB3-G 9	138	N				56TB3-H 9	138	N				1	1
AA542	4	600	56TB3-H 9	138	N				56TB3-K 9	138	N				2	2
AA543	4	600	56TB3-K 9	138	N				56TB3-L 9	138	N				1	1
AA544	4	600	56TB3-L 9	138	N				56TB3-M 9	138	N				2	2
AA545	4	600	56TB3-M 9	138	N				56TB3-N 9	138	N				1	1
AA546	4	600	56TB3-N 9	138	N				56TB3-R 9	138	N				2	2
AA547	4	600	56TB3-R 9	138	N				56TB3-S 9	138	N				1	1
AA548	4	600	56TB3-S 9	138	N				56TB3-T 9	138	N				2	2
AA549	4	600	56TB3-T 9	138	N				56TB3-T15	138	N				1	2
AA550	4	600	56TB3-G15	138	N				56TB3-H15	138	N				2	2
AA551	4	600	56TB3-H15	138	N				56TB3-K15	138	N				1	1
AA552	4	600	56TB3-K15	138	N				56TB3-L15	138	N				2	2
AA553	4	600	56TB3-R15	138	N				56TB3-S15	138	N				2	2
AA554	4	600	56TB3-H13	138	N				56TB3-H14	138	N				1	1
AA555	4	600	56TB2-K 4	138	N				56TB2-L 4	138	N				1	1
AA556	4	600	56TB2-L 2	138	N				56TB2-L 1	138	N				1	1
AA557	4	600	56TB2-K 2	138	N				56TB2-K 1	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR ✓ A
SHEET 58 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA558	4	600	56TB3-M20	138	N				56TB3-C19	138	N				2	1
AA559	4	600	56TB3-T20	138	N				56TB3-T21	138	N				1	1
AA560	4	600	56TB3-S21	138	N				56TB3-T21	138	N				1	2
~~AA561~~	~~4~~	~~2400~~	~~56E 57~~	~~20~~	~~N~~				~~56TB2-D 3~~	~~138~~	~~N~~					~~3~~
AA562	4	600	56J21- 53	10	N		6		56E 57	20	N				1	
AA563	4	600	56TB3-L21	138	N				56TB3-D15	138	N				1	3
AA566	4	600	56TB3-K21	138	N				56TB3-C15	138	N				1	1
AA568	4	600	56E 45	20	N				56E 46	20	N					
AA569	2	1700		300		275	7			250		225	11			
AA569A	4	600	SHLD AA569	20	N				56TB2-D 3	138	N					2
AA569L			56TB2-D 2	138	N				56J16-B7	88	N				3	1
AA569R			56TB2-F 3	138	N				56E 60	20	N				3	
AA571	2	1900		300		275	7			250		225	11			
AA571A	4	600	SHLD AA571	20	N				56TB2-S 3	138	N					2
AA571L			56TB2-N 3	138	N				56J17-A2	88	N				2	1
AA571R			56TB2-R 3	138	N				56J17-B2	88	N				3	1
AA572	4	600	56TB1-D 7	138	N				56TB1-D 8	138	N				1	1
AA577	4	600	56TB2-D 7	138	N				56TB2-D 8	138	N				2	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR ✓ A
SHEET 59 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA522	4	1700	56TB3-N19	138	N				56J21- 63	10	N		6		2	1
~~AA523~~	~~4~~	~~1700~~	~~56TB3-G21~~	~~138~~	~~N~~				~~56J21- 73~~	~~10~~	~~N~~		~~6~~		~~3~~	~~1~~
~~AA524~~	~~4~~	~~1700~~	~~56TB3-G20~~	~~138~~	~~N~~				~~56J21- 74~~	~~10~~	~~N~~		~~6~~		~~2~~	~~1~~
AA525	4	1700	56TB3-M19	138	N				56J21- 96	10	N		6		2	1
AA526	4	1700	56TB3-D19	138	N				56J21-129	10	N		6		2	1
~~AA527~~	~~4~~	~~1700~~	~~56TB3-G22~~	~~138~~	~~N~~				~~56J21-139~~	~~10~~	~~N~~		~~6~~		~~2~~	~~1~~
~~AA528~~	~~4~~	~~1700~~	~~56TB3-F20~~	~~138~~	~~N~~				~~56J21-140~~	~~10~~	~~N~~		~~6~~		~~1~~	~~1~~
AA529	4	1700	56TB3-F19	138	N				56J21-162	10	N		6		2	1
AA530	4	1700	56TB3-G19	138	N				56J21-196	10	N		6		2	1
~~AA531~~	~~4~~	~~1700~~	~~56TB3-G22~~	~~138~~	~~N~~				~~56J21-207~~	~~10~~	~~N~~		~~6~~		~~3~~	~~1~~
~~AA532~~	~~4~~	~~1700~~	~~56TB3-F20~~	~~138~~	~~N~~				~~56J21-208~~	~~10~~	~~N~~		~~6~~		~~2~~	~~1~~
AA533	4	600	56TB3-L15	138	N				56TB3-M15	138	N				1	1
AA534	4	600	56TB3-M15	138	N				56TB3-N15	138	N				2	2
AA535	4	600	56TB3-N15	138	N				56TB3-R15	138	N				1	1
AA536	4	600	56TB3-S15	138	N				56TB3-T15	138	N				1	1
~~AA537~~	~~4~~	~~600~~	~~56TB3-T15~~	~~138~~	~~N~~				~~56TB3-B15~~	~~138~~	~~N~~				~~2~~	~~3~~
AA538	4	600	56TB3-G 9	138	N				56TB3-B15	138	N				2	2
AA539	4	600	56TB2-M 8	138	N				56TB2-M 7	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR ✓ A
SHEET 57 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA578	4	600	56TB2-S 2	138	N				56TB2-R 2	138	N				1	1
AA579	4	600	56TB2-F 7	138	N				56TB2-G 7	138	N				1	1
AA580	4	600	56TB2-F 2	138	N				56TB2-G 2	138	N				1	1
AA581	4	600	56TB2-M 1	138	N				56TB2-M 2	138	N				1	1
AA582	4	600	56TB2-M 2	138	N				56TB2-M 3	138	N				2	2
AA583	4	600	56TB2-M 3	138	N				56TB2-M 4	138	N				1	1
AA584	4	600	56TB2-M 4	138	N				56TB2-M 5	138	N				2	2
AA585	4	600	56TB2-M 5	138	N				56TB2-M 6	138	N				1	1
AA586	4	600	56TB2-M 6	138	N				56TB2-M 7	138	N				2	2
AA588	4	600	56TB1-N 4	138	N				56TB1-S 8	138	N				1	1
AA589	4	1000	56TB1-N 4	138	N				56TB2-M 5	138	N				3	3
AA590	4	1000	56TB1-D 7	138	N				56TB2-V 2	138	N				2	2
AA591	4	1000	56TB1-S 3	138	N				56TB2-M 4	138	N				2	3
AA592	4	2200	56TB2-M 6	138	N				56TB3-T 3	138	N				3	1
~~AA594~~	~~4~~	~~2200~~	~~56TB3-S 2~~	~~138~~	~~N~~				~~56TB2-V 3~~	~~138~~	~~N~~				~~2~~	~~3~~
AA596	4	600	56TB2-V 3	138	N				56TB2-V 4	138	N				2	2
AA597	4	600	56TB2-V 4	138	N				56TB2-V 5	138	N				1	1
AA598	4	600	56TB2-V 5	138	N				56TB2-V 6	138	N				2	2

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR ✓ A
SHEET 60 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG

WIRE LIST AA

1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷		FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2▷	T I N	FROM TERMINATION SPEC. 1▷ ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2▷	T I N	TO TERMINATION SPEC 1▷ ITEM NO.	NO.	W-W FR	W-W TO
AA599	4	6	00	56TB2-V 6	138	N			56TB2-V 8	138	N			1	1
AA600	4	6	00	56TB1-S 8	138	N			56TB1-S 7	138	N			2	2
AA601	4	6	00	56TB1-S 7	138	N			56TB1-S 6	138	N			1	1
AA602	4	10	00	56TB1-S 7	138	N			56TB2-D 8	138	N			3	2
AA603	4	6	00	56TB2-D 7	138	N			56TB2-D 6	138	N			1	1
AA604	4	6	00	56TB2-D 6	138	N			56TB2-D 5	138	N			2	2
AA605	4	6	00	56TB2-D 5	138	N			56TB2-D 4	138	N			1	1
AA606	4	6	00	56TB2-D 4	138	N			56TB2-F 4	138	N			2	1
AA607	4	6	00	56TB3-F22	138	N			56TB3-F21	138	N			1	1
AA608	4	18	00	56TB2-D 4	138	N			56E 27	20	N			3	
AA609	4	6	00	56TB3-C15	138	N			56TB3-D15	138	N			2	2
AA610	4	9	00	56J11-N3	138	N			56J12-P4	138	N			1	1
AA611	4	6	00	56TB1-R 1	138	N			56TB1-S 1	138	N			1	1
AA612	4	6	00	56TB1-S 1	138	N			56TB1-T 1	138	N			2	1
AA613	4	6	00	56TB3-B20	138	N			56TB3-B21	138	N			1	1
AA614	4	6	00	56TB3-B21	138	N			56TB3-F21	138	N			2	2
AA615	4	6	00	56TB2-R 3	138	N			56TB2-S 3	138	N			1	1
AA616	4	9	00	56J18-R4	138	N			56J19-M4	138	N			1	1

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE | REV LTR ✓ A | SHEET 61 OF 62

MIL 2085 - 4-63 WIR

GJG

WIRE LIST AA

1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷		FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2▷	T I N	FROM TERMINATION SPEC. 1▷ ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2▷	T I N	TO TERMINATION SPEC 1▷ ITEM NO.	NO.	W-W FR	W-W T
AA617	4	9	00	56J11-L4	138	N			56E 66	20	N	12		2	
AA618	4	9	00	56J11-L4	138	N			56E 67	20	N	12		3	
AA619	4	4	00	56TB3-B20	138	N			56E 68	20	N	12		2	
AA620	4	6	00	56TB3-B20	138	N			56E 69	20	N	12		3	
AA621	4	6	00	56TB2-T 2	138	N			56TB2-T 3	138	N			1	1
AA622	4	17	00	56J20-R1	1 38	N			56TB3-C20	1 38	N			2	2
AA623	4	17	00	56J20-P1	1 38	N			56TB3-C21	1 38	N			2	2
AA624	4	17	00	56J20-R2	1 38	N			56TB3-D20	1 38	N			2	2
AA625	4	17	00	56J20-P2	1 38	N			56TB3-D21	1 38	N			2	2
AA626	4	17	00	56J20-S3	1 38	N			56TB3-D22	1 38	N			2	2
AA627	4	17	00	56J20-S4	1 38	N			56TB3-C22	1 38	N			2	2
AA628	4	17	00	56J20-R5	1 38	N			56TB3-H21	1 38	N			3	3
AA629	4	17	00	56J20-R6	1 38	N			56TB3-H22	1 38	N			3	3
AA630	4	6	00	56TB3-D15	1 38	N			56TB3-G15	1 38	N			1	1
AA631	4	6	00	56TB3-R3	1 38	N			56TB3-S3	1 38	N			2	1
AA632	4	6	00	56TB1-S3	1 38	N			56TB1-S4	1 38	N			1	2
AA633	4	6	00	56TB1-S4	1 38	N			56TB1-S5	1 38	N			3	2
AA634	4	6	00	56TB1-S5	1 38	N			56TB1-S6	1 38	N			3	3
AA635	4	6	00	56TB3-T3	1 38	N			56TB2-V8	1 38	N			2	3

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE | REV LTR ✓ A | SHEET 62 OF

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	W-W FR	W-W TO
AA303	4	900	56J18-P3	138	N					56J19-R4	138	N					2	2
AA304R	4	900	56J18-S6	138	N					56J19-N6	138	N					2	1
AA304W	4	900	56J18-T6	138	N					56J19-P6	138	N					2	1
AA305	4	900	56J18-S5	138	N					56J19-P5	138	N					2	2
AA306	4	900	56J18-R5	138	N					56J19-P3	138	N					2	2
AA307	2	1400		250		225	11				300		275	7				
AA307B	4	600	56TB3-R 9	138	N					SHLD AA307	20	N					3	
AA307L			56J18-C2	88	N					56TB3-T 8	138	N					1	1
AA307R			56J18-B2	88	N					56TB3-T 7	138	N					1	1
AA308	2	1400		250		225	11				300		275	7				
AA308B	4	600	56TB3-N 9	138	N					SHLD AA308	20	N					3	
AA308L			56J18-A1	88	N					56TB3-S 8	138	N					1	1
AA308R			56J18-B1	88	N					56TB3-S 7	138	N					1	1
AA309	2	1400		250		225	11				300		275	7				
AA309B	4	600	56TB3-T 9	138	N					SHLD AA309	20	N					3	
AA309L			56J18-A2	88	N					56TB3-T10	138	N					1	1
AA309R			56J18-A3	88	N					56TB3-T11	138	N					1	1
AA310	2	1400		250		225	11				300		275	7				

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A 1014608
SCALE-NONE REV LTR ✓ A SHEET 34 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	W-W FR	W-W TO
AA310B	4	600	56TB3-S 9	138	N					SHLD AA310	20	N					3	
AA310L			56J18-B3	88	N					56TB3-S10	138	N					1	1
AA310R			56J18-B4	88	N					56TB3-S11	138	N					1	1
AA311R	3	1400	56J18-D3	88	N					56TB3-R 7	138	N					1	1
AA311W	3	1400	56J18-D2	88	N					56TB3-R 8	138	N					1	1
AA312R	3	1400	56J18-C1	88	N					56TB3-R11	138	N					1	1
AA312W	3	1400	56J18-D1	88	N					56TB3-R10	138	N					1	1
AA313R	3	1400	56J18-A5	88	N					56TB3-N 7	138	N					1	1
AA313W	3	1400	56J18-A4	88	N					56TB3-N 8	138	N					1	1
AA314R	3	1400	56J18-C5	88	N					56TB3-N11	138	N					1	1
AA314W	3	1400	56J18-B5	88	N					56TB3-N10	138	N					1	1
AA315	2	1400		250		225	11				300		275	7				
AA315B	4	600	56TB3-M 9	138	N					SHLD AA315	20	N					3	
AA315L			56J18-A9	88	N					56TB3-M 8	138	N					1	1
AA315R			56J18-B9	88	N					56TB3-M 7	138	N					1	1
AA316	2	1400		250		225	11				300		275	7				
AA316B	4	600	56TB3-L 9	138	N					SHLD AA316	20	N					3	
AA316L			56J18-A8	88	N					56TB3-L 7	138	N					1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A 1014608
SCALE-NONE REV LTR ✓ A SHEET 35 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	W-W FR	W-W TO
AA291	4	600	56J17-S1	138	N					56J17-S2	138	N					1	1
AA292	4	1600	56J17-M3	138	N					56J22-206	10	N		6			3	1
AA293	4	1600	56J17-L3	138	N					56J22-243	10	N		6			1	1
AA294	4	600	56J17-T1	138	N					56J17-T2	138	N					1	1
AA295	4	1400	56J17-S3	138	N					56TB3-N 3	138	N					1	2
AA296	4	1400	56J17-S1	138	N					56TB3-S 3	138	N					2	3
AA297	4	1400	56J17-S4	138	N					56TB3-R 3	138	N					1	3
AA298	4	900	56J18-S1	138	N					56J19-T1	138	N					2	2
AA299R	3	900	56J18-F2	88	N					56J19-F4	88	N					1	1
AA299W	3	900	56J18-F1	88	N					56J19-D4	88	N					1	1
AA300R	3	900	56J18-C8	88	N					56J19-B2	88	N					1	1
AA300W	3	900	56J18-B8	88	N					56J19-C1	88	N					1	1
AA301R	3	900	56J18-D9	88	N					56J19-B3	88	N					1	1
AA301W	3	900	56J18-C9	88	N					56J19-A4	88	N					1	1
AA302K	4	900	56J18-G5	138	N					56J19-H6	138	N					1	1
AA302L	4	900	56J18-H5	138	N					56J19-H5	138	N					1	1
AA302R	4	900	56J18-H6	138	N					56J19-G5	138	N					1	1
AA302W	4	900	56J18-G6	138	N					56J19-G6	138	N					1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A 1014608
SCALE-NONE REV LTR ✓ A SHEET 33 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	W-W FR	W-W TO
AA316R			56J18-A7	88	N					56TB3-L 8	138	N					1	1
AA317R	3	1400	56J18-B6	88	N					56TB3-L11	138	N					1	1
AA317W	3	1400	56J18-A6	88	N					56TB3-L10	138	N					1	1
AA318R	3	1400	56J18-F4	88	N					56TB3-K12	138	N					1	1
AA318W	3	1400	56J18-F3	88	N					56TB3-L12	138	N					1	1
AA319	4	1400	56J18-P1	138	N					56TB3-D12	138	N					1	1
AA320	4	1400	56J18-R1	138	N					56TB3-C12	138	N					1	1
AA321	4	1400	56J18-R2	138	N					56TB3-C11	138	N					1	1
AA322	4	1400	56J18-P2	138	N					56TB3-D11	138	N					1	1
AA323	4	600	56J18-S3	138	N					56J18-S4	138	N					1	1
AA324	4	600	56J18-T3	138	N					56J18-T4	138	N					1	1
AA325	4	1400	56J18-S3	138	N					56TB3-K20	138	N					2	1
AA326L	3	1400	56J18-F9	88	N					56TB3-M11	138	N					1	1
AA326R	3	1400	56J18-F8	88	N					56TB3-M12	138	N					1	1
AA326W	3	1400	56J18-D8	88	N					56TB3-M10	138	N					1	1
AA327	4	1400	56J18-T3	138	N					56TB3-K20	138	N					2	2
AA328L	4	1400	56J18-L6	138	N					56TB3-R12	138	N					1	1
AA328R	4	1400	56J18-L5	138	N					56TB3-S12	138	N					1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A 1014608
SCALE-NONE REV LTR ✓ A SHEET 36 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

TDRR 04882

APPLICATION	
NEXT ASSY	USED ON
1014606-011	1014606-011

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED PER TDRR NO. 06261	14 FEB 64	WK.
B	REVISED PER TDRR NO. 06724	10 MAR 64	WK.

REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
SHEET	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49

REV STATUS REV	B	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
OF SHEETS SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

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HOUSTON, TEXAS

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

		DATE
DRAWN	C. M. Kuhn	13 NOV 63
CHECKED	C Wilson	22 Nov 63
APPROVAL	D. Bayte	22 Nov 63
APPROVAL	[illegible] for S. Stanley	22 Nov 63 2 Dec
NASA APPROVAL	W. O. Blair	12-2
MIT APPROVAL	[illegible]	12/12/63
CONTRACT	NAS 9-497	

WIRE LIST AA

AGE HARNESS & END CONNECTOR ASSY

CODE IDENT NO. SIZE 1014608 REV B

SCALE — SHEET 1 OF 62

REVISION STATUS OF SHEETS

SH	REV
50	A
51	A
52	A
53	A
54	A
55	A
56	A
57	A
58	A
59	A
60	A
61	A
62	A

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HOUSTON, TEXAS

REVISION A

NASA DRAWING NO. 1014608
SHEET 2 OF 62

PENNANT NOTE	GENERAL NOTES
1	SEE CONDUCTOR CHART PENNANT NOTE 1
2	SEE CONDUCTOR CHART PENNANT NOTE 2
3	INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
4	Y OR N IN TINNED COLUMN INDICATES YES OR NO.
5	LENGTHS SPECIFIED ARE FOR CONDUCTORS BEFORE ATTACHING TO AN ACCESSORY.
6	CONDUCTORS WITH THE SAME NUMBER ARE TWISTED TOGETHER.
7	LENGTHS SPECIFIED FOR TWISTED CONDUCTORS ARE FOR AFTER TWISTING.
8	TWISTED CONDUCTORS ARE TO BE TWISTED WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED CONDUCTOR.
9	CONDUCTOR LENGTHS ARE FOR MANUFACTURING REF. ONLY.
10	NUMBERS IN WIRE-WRAP COLUMN INDICATE THE LEVEL OF TERMINATION. CONDUCTORS LISTED AS ---- LEVEL 1 TO BE WIRE-WRAPPED AT BASE OF CONTACT LEVEL 2 TO FOLLOW LEVEL 1 LEVEL 3 TO FOLLOW LEVEL 2
11	VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING

PENNANT NOTE — GENERAL NOTES

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.

A - FROM END SHIELD
B - TO END SHIELD
K - BLACK
L - BLUE
R - RED
W - WHITE

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA336R	3	1400	56J18-F7	88	N				56TB3-F12	138	N				1	1
AA336W	3	1400	56J18-F6	88	N				56TB3-F11	138	N				1	1
AA337	4	1400	56J18-R4	138	N				56TB3-B11	138	N				2	1
AA338R	3	1400	56J18-D4	88	N				56TB3-K 7	138	N				1	1
AA338W	3	1400	56J18-D5	88	N				56TB3-K 8	138	N				1	1
AA339	4	600	56J18-S5	138	N				56J18-T5	138	N				1	1
AA340R	4	1400	56J18-N1	138	N				56TB3-D 7	138	N				1	1
AA340W	4	1400	56J18-M1	138	N				56TB3-C 7	138	N				3	1
AA341R	4	1400	56J18-N3	138	N				56TB3-D 8	138	N				1	1
AA341W	4	1400	56J18-M3	138	N				56TB3-C 8	138	N				3	1
AA342R	4	1400	56J18-N4	138	N				56TB3-B 7	138	N				1	1
AA342W	4	1400	56J18-M4	138	N				56TB3-B 8	138	N				3	1
AA343R	4	1400	56J18-N6	138	N				56TB3-D 9	138	N				1	1
AA343W	4	1400	56J18-M6	138	N				56TB3-D10	138	N				2	1
AA344R	4	1400	56J18-H3	138	N				56TB3-F 7	138	N				1	1
AA344W	4	1400	56J18-G3	138	N				56TB3-G 7	138	N				1	1
AA345R	4	1400	56J18-H2	138	N				56TB3-F 8	138	N				1	1
AA345W	4	1400	56J18-G2	138	N				56TB3-G 8	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE REV LTR A SHEET 38 OF 62

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA346	4	600	56J18-H2	138	N				56E 52	20	N		8		2	
AA347	4	600	56J18-H2	138	N				56E 53	20	N				3	
AA348	4	600	56J18-H3	138	N				56E 50	20	N		8		2	
AA349	4	600	56J18-H3	138	N				56E 51	20	N				3	
AA350	4	600	56J18-M1	138	N				56J18-P3	138	N				2	1
AA351	4	600	56J18-M1	138	N				56J18-M2	138	N				1	1
AA352	4	600	56J18-M2	138	N				56J18-M3	138	N				2	2
AA353	4	600	56J18-M3	138	N				56J18-M4	138	N				1	1
AA354	4	600	56J18-M4	138	N				56J18-M5	138	N				2	2
AA355	4	600	56J18-M5	138	N				56J18-M6	138	N				1	1
AA356	4	900	56J19-P3	138	N				56J20-G4	138	N				1	1
AA357	4	900	56J19-T1	138	N				56J20-M6	138	N				1	1
AA358R	4	1500	56J19-S2	138	N				56TB3-D17	138	N				1	1
AA358W	4	1500	56J19-S3	138	N				56TB3-D16	138	N				1	1
AA359R	4	1500	56J19-P1	138	N				56TB3-D18	138	N				1	1
AA359W	4	1500	56J19-R1	138	N				56TB3-F18	138	N				1	1
AA360R	4	1500	56J19-T2	138	N				56TB3-C17	138	N				1	1
AA360W	4	1500	56J19-T3	138	N				56TB3-C16	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE REV LTR A SHEET 39 OF 62

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA328W	4	1400	56J18-K6	138	N				56TB3-T12	138	N				1	1
AA329	2	1500		250		225	11			300		275	7			
AA329B	4	600	56TB3-H 9	138	N				SHLD AA329	20	N				3	
AA329L			56J19-C2	88	N				56TB3-H 8	138	N				1	1
AA329R			56J19-B2	88	N				56TB3-H 7	138	N				2	1
AA330R	3	1400	56J18-F2	88	N				56TB3-F10	138	N				2	1
AA330W	3	1400	56J18-F1	88	N				56TB3-G10	138	N				2	1
AA331	2	1500		250		225	11			300		275	7			
AA331B	4	600	56TB3-K 9	138	N				SHLD AA331	20	N				3	
AA331L			56J19-B4	88	N				56TB3-H10	138	N				1	1
AA331R			56J19-B3	88	N				56TB3-H11	138	N				2	1
AA332R	4	1400	56J18-H1	138	N				56TB3-K11	138	N				1	1
AA332W	4	1400	56J18-G1	138	N				56TB3-K10	138	N				1	1
AA333	4	1400	56J18-R3	138	N				56TB3-K20	138	N				1	3
AA334R	3	1400	56J18-D6	88	N				56TB3-G13	138	N				1	1
AA334W	3	1400	56J18-C6	88	N				56TB3-G14	138	N				1	1
AA335R	3	1400	56J18-D7	88	N				56TB3-G12	138	N				1	1
AA335W	3	1400	56J18-C7	88	N				56TB3-G11	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE REV LTR A SHEET 37 OF 62

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA361R	4	1500	56J19-P2	138	N				56TB3-G17	138	N				1	1
AA361W	4	1500	56J19-R2	138	N				56TB3-F17	138	N				1	1
AA362	4	600	56J19-R5	138	N				56J19-S4	138	N				1	1
AA363	4	600	56J19-R6	138	N				56J19-T4	138	N				1	1
AA364	4	1500	56J19-S4	138	N				56TB3-K22	138	N				2	1
AA365	4	1500	56J19-T4	138	N				56TB3-L22	138	N				2	1
AA366	4	600	56J19-S5	138	N				56J19-S6	138	N				1	1
AA367	4	1500	56J19-T6	138	N				56TB3-L22	138	N				2	2
AA368	4	600	56J19-T5	138	N				56J19-T6	138	N				1	1
AA369	4	1500	56J19-S5	138	N				56TB3-K22	138	N				2	2
AA370R	3	1500	56J19-B1	88	N				56TB3-T17	138	N				1	1
AA370W	3	1500	56J19-A1	88	N				56TB3-T16	138	N				1	1
AA371R	3	1500	56J19-A2	88	N				56TB3-S16	138	N				1	1
AA371W	3	1500	56J19-A3	88	N				56TB3-S17	138	N				1	1
AA372R	3	1500	56J19-A8	88	N				56TB3-R16	138	N				1	1
AA372W	3	1500	56J19-A9	88	N				56TB3-R17	138	N				1	1
AA373R	3	1500	56J19-C9	88	N				56TB3-N17	138	N				1	1
AA373W	3	1500	56J19-B9	88	N				56TB3-N16	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE REV LTR A SHEET 40 OF 62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	TERMINATION SPEC. 1▷ ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	TERMINATION SPEC 1▷ ITEM NO.	NO.	FR	TO
AA 1	4	1600	56J11-S4	138	N			56J15-S6	138	N			3	2
AA 2	4	2800	56J11-S1	138	N			56J20-L1	138	N			2	3
AA 3	4	2800	56J11-S2	138	N			56J20-L2	138	N			2	3
AA 4	4	2800	56J11-S5	138	N			56J20-K2	138	N			2	1
AA 5R	4	900	56J11-N4	138	N			56J12-P3	138	N			1	1
AA 5W	4	900	56J11-N5	138	N			56J12-N3	138	N			1	1
AA 6	4	900	56J11-S4	138	N			56J12-S5	138	N			2	1
AA 7	4	900	56J11-L4	138	N			56J12-K3	138	N			1	1
AA 9R	4	900	56J11-L2	138	N			56J12-K2	138	N			1	1
AA 9W	4	900	56J11-L1	138	N			56J12-H2	138	N			1	1
AA 10K	4	900	56J11-B5	138	N			56J12-B2	138	N			1	1
AA 10L	4	900	56J11-A6	138	N			56J12-B1	138	N			1	1
AA 10R	4	900	56J11-A5	138	N			56J12-A2	138	N			1	1
AA 10W	4	900	56J11-B6	138	N			56J12-A1	138	N			1	1
AA 11R	3	2000	56J11-B3	138	N			56J17-B1	88	N			1	1
AA 11W	3	2000	56J11-C3	138	N			56J17-A1	88	N			1	1
AA 12L	4	2000	56J11-N2	138	N			56J17-R2	138	N			1	1
AA 12R	4	2000	56J11-N1	138	N			56J17-P2	138	N			1	1

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 6 OF 62

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	TERMINATION SPEC. 1▷ ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	TERMINATION SPEC 1▷ ITEM NO.	NO.	FR	TO
AA 12W	4	2000	56J11-P1	138	N			56J17-N2	138	N			1	1
AA 13	4	2000	56J11-S3	138	N			56J17-R1	138	N			1	1
AA 14	4	1100	56J11-N6	138	N			56J13-P6	138	N			1	1
AA 15R	4	1700	56J11-B1	138	N			56TB2-G 2	138	N			1	2
AA 15W	4	1700	56J11-A1	138	N			56TB2-H 2	138	N			1	1
AA 16R	4	1400	56J11-C1	138	N			56TB1-C 5	138	N			1	1
AA 16W	4	1400	56J11-B1	138	N			56TB1-B 5	138	N			2	1
AA 17	4	600	56J11-R4	138	N			56J11-R5	138	N			2	2
AA 18	4	600	56J11-P4	138	N			56J11-R4	138	N			1	1
AA 19R	4	1700	56J11-B2	138	N			56TB2-G 7	138	N			1	2
AA 19W	4	1700	56J11-A2	138	N			56TB2-H 7	138	N			1	1
AA 20R	4	1400	56J11-C2	138	N			56TB1-A 5	138	N			1	1
AA 20W	4	1400	56J11-B2	138	N			56TB1-A 6	138	N			2	1
AA 21R	4	1700	56J11-B3	138	N			56TB2-R 2	138	N			2	2
AA 21W	4	1700	56J11-A3	138	N			56TB2-N 2	138	N			1	1
AA 22	4	600	56J11-P4	138	N			56J11-P5	138	N			2	1
AA 23K	4	1400	56J11-G1	138	N			56TB1-C 3	138	N			1	1
AA 23L	4	1400	56J11-H1	138	N			56TB1-B 4	138	N			1	1

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MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
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SHEET 7 OF 62

LIST OF MATERIALS

PENNANT NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014608- 1	WIRE PER 1010708-1 SOLID 30AWG (THREE COND. TWISTED AND SHIELDED) 13 FT. 3.0 IN. TOTAL LENGTH
	2	1	1014608- 2	WIRE PER 1010708-2 SOLID 30AWG (TWO COND. TWISTED AND SHIELDED) 13 FT. 9.0 IN. TOTAL LENGTH
	3	1	1014608- 3	WIRE PER 1010708-4 SOLID 30AWG (SINGLE COND.) 186 FT. 2.0 IN. TOTAL LENGTH
	4	1	1014608- 4	WIRE PER 1010708-5 SOLID 24AWG (SINGLE COND.) 630 FT. 8.0 IN. TOTAL LENGTH
	5	1	1014608- 5	WIRE PER 1010708-3 SOLID 24AWG (TWO COND. TWISTED AND SHIELDED) 83 FT. 3.0 IN. TOTAL LENGTH
11	6	145	1010738-2 2	CONTACT, SOCKET
11	7	36	1010402- 1	SLEEVE, SOLDER
11	8	64	1010402- 2	SLEEVE, SOLDER
11	9	50	1010490-110	INSULATION-SLEEVING, ELEC.
11	10	9	1010490-112	INSULATION-SLEEVING, ELEC.
11	11	11	1010490-114	INSULATION-SLEEVING, ELEC.
	12	4	MS-25036-44	TERMINAL LUG

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR B
SHEET 5 OF 62

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	TERMINATION SPEC. 1▷ ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	TERMINATION SPEC 1▷ ITEM NO.	NO.	FR	TO
AA 23R	4	1400	56J11-F1	138	N			56TB1-C 4	138	N			1	1
AA 23W	4	1400	56J11-G2	138	N			56TB1-B 3	138	N			2	1
AA 24	4	600	56J11-G2	138	N			56J11-P6	138	N			1	1
AA 25	4	600	56J11-S4	138	N			56J11-S5	138	N			1	1
AA 26	4	600	56J11-P6	138	N			56J11-R6	138	N			2	2
AA 27	4	1400	56J11-N6	138	N			56TB1-D 5	138	N			2	1
AA 28K	4	1400	56J11-L2	138	N			56TB1-C 2	138	N			2	2
AA 28L	4	1400	56J11-M2	138	N			56TB1-C 2	138	N			1	1
AA 28R	4	1400	56J11-M1	138	N			56TB1-D 2	138	N			1	1
AA 28W	4	1400	56J11-L1	138	N			56TB1-D 2	138	N			2	2
AA 29K	4	1400	56J11-B5	138	N			56TB1-B 7	138	N			2	2
AA 29L	4	1400	56J11-A6	138	N			56TB1-A 8	138	N			2	1
AA 29R	4	1400	56J11-A5	138	N			56TB1-A 7	138	N			2	1
AA 29W	4	1400	56J11-B6	138	N			56TB1-B 8	138	N			2	2
AA 30R	4	1400	56J11-D6	138	N			56TB1-D 3	138	N			1	1
AA 30W	4	1400	56J11-D5	138	N			56TB1-D 4	138	N			1	1
AA 31	4	600	56J11-R5	138	N			56J11-R6	138	N			1	1
AA 32R	4	1400	56J11-F6	138	N			56TB1-A 4	138	N			1	1

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR A
SHEET 8 OF 62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM					TO					W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA385	3	1500	56J19-C4	88	N			56TB3-M18	138	N			1	1
AA386R	3	1500	56J19-F8	88	N			56TB3-R14	138	N			1	1
AA386W	3	1500	56J19-F9	88	N			56TB3-R13	138	N			1	1
AA387	4	1500	56J19-M6	138	N			56TB3-G18	138	N			1	1
AA388	4	1500	56J19-M5	138	N			56TB3-K18	138	N			1	1
AA389	4	1500	56J19-N5	138	N			56TB3-L18	138	N			1	1
AA390	4	1500	56J19-R4	138	N			56TB3-K21	138	N			3	2
AA391R	4	1500	56J19-L1	138	N			56TB3-C 9	138	N			1	1
AA391W	4	1500	56J19-K1	138	N			56TB3-C10	138	N			3	1
AA392R	4	1500	56J19-L3	138	N			56TB3-B 9	138	N			1	1
AA392W	4	1500	56J19-K3	138	N			56TB3-B10	138	N			3	1
AA393	4	1500	56J19-P5	138	N			56TB3-K21	138	N			3	3
AA394	4	600	56J19-P4	138	N			56J19-P5	138	N			1	1
AA396R	3	1500	56J19-D6	88	N			56TB3-N13	138	N			1	1
AA396W	3	1500	56J19-D5	88	N			56TB3-N14	138	N			1	1
AA397	4	600	56J19-K1	138	N			56J19-R4	138	N			2	1
AA398	4	600	56J19-K1	138	N			56J19-K2	138	N			1	1
AA399	4	600	56J19-K2	138	N			56J19-K3	138	N			2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR ~~+~~ A SHEET 42 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM					TO					W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA400	4	600	56J19-K3	138	N			56J19-K4	138	N			1	1
AA401	4	600	56J19-K4	138	N			56J19-K5	138	N			2	2
AA402	4	600	56J19-K5	138	N			56J19-K6	138	N			1	1
AA403	4	1000	56J20-L5	138	N			56J21- 37	10	N	6		1	1
AA404	4	1700	56J20-L5	138	N			56TB3-M22	138	N			2	2
AA405	4	1700	56J20-M5	138	N			56TB3-M21	138	N			1	2
AA406	4	1700	56J20-N6	138	N			56TB3-H20	138	N			2	1
AA407	4	1700	56J20-N4	138	N			56TB3-L21	138	N			1	3
AA408	4	1700	56J20-N3	138	N			56TB3-K22	138	N			1	3
AA409R	4	2500	56J20-F6	138	N			56TB2-H 4	138	N			1	2
AA409W	4	2500	56J20-F5	138	N			56TB2-G 4	138	N			1	2
AA410R	4	1700	56J20-F6	138	N			56TB3-B19	138	N			2	1
AA410W	4	1700	56J20-F5	138	N			56TB3-B18	138	N			2	1
AA411	4	600	56J20-G5	138	N			56J20-H5	138	N			1	1
AA412R	4	1700	56J20-H6	138	N			56TB3-C 3	138	N			2	1
AA412W	4	1700	56J20-H5	138	N			56TB3-D 2	138	N			2	2
AA413	4	600	56J20-G6	138	N			56J20-H6	138	N			1	1
AA414	4	1700	56J20-A4	138	N			56TB3-K19	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR + A SHEET 43 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM					TO					W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA374R	3	1500	56J19-D2	88	N			56TB3-M17	138	N			1	1
AA374W	3	1500	56J19-D1	88	N			56TB3-M16	138	N			1	1
AA375R	3	1500	56J19-B5	88	N			56TB3-H17	138	N			1	1
AA375W	3	1500	56J19-A5	88	N			56TB3-H16	138	N			1	1
AA376	3	1500	56J19-C5	88	N			56TB3-S18	138	N			1	1
AA377R	3	1500	56J19-B8	88	N			56TB3-K17	138	N			1	1
AA377W	3	1500	56J19-B7	88	N			56TB3-K16	138	N			1	1
AA378	3	1500	56J19-A7	88	N			56TB3-R18	138	N			1	1
AA379R	3	1500	56J19-C8	88	N			56TB3-L16	138	N			1	1
AA379W	3	1500	56J19-D8	88	N			56TB3-L17	138	N			1	1
AA380	3	1500	56J19-C7	88	N			56TB3-T18	138	N			1	1
AA381R	3	1500	56J19-F6	88	N			56TB3-G16	138	N			1	1
AA381W	3	1500	56J19-F5	88	N			56TB3-F16	138	N			1	1
AA382R	4	1500	56J19-G1	138	N			56TB3-T13	138	N			1	1
AA382W	4	1500	56J19-H1	138	N			56TB3-T14	138	N			1	1
AA383R	4	1500	56J19-G2	138	N			56TB3-S14	138	N			1	1
AA383W	4	1500	56J19-G3	138	N			56TB3-S13	138	N			1	1
AA384	3	1500	56J19-C3	88	N			56TB3-N18	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR ~~+~~ A SHEET 41 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM					TO					W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA415	4	1700	56J20-B4	138	N			56TB3-H19	138	N			1	1
AA416	4	1700	56J20-A1	138	N			56TB3-G19	138	N			1	1
AA417	4	1700	56J20-A2	138	N			56TB3-F19	138	N			1	1
AA418	4	1700	56J20-B1	138	N			56TB3-D19	138	N			1	1
AA419R	4	1700	56J20-B3	138	N			56TB3-N21	138	N			1	1
AA419W	4	1700	56J20-A3	138	N			56TB3-N20	138	N			1	1
AA420	4	1700	56J20-K5	138	N			56TB3-G21	138	N			1	1
AA421	4	1700	56J20-K6	138	N			56TB3-G22	138	N			1	1
AA422	4	1700	56J20-H4	138	N			56TB3-R20	138	N			2	1
AA423	4	1000	56J20-H4	138	N			56J21-234	10	N	6		3	1
AA424	4	1700	56J20-K4	138	N			56TB3-N19	138	N			1	1
AA425	4	1700	56J20-C6	138	N			56TB3-L19	138	N			1	1
AA426	4	1700	56J20-D6	138	N			56TB3-M19	138	N			1	1
AA427R	4	1700	56J20-B5	138	N			56TB3-T19	138	N			1	1
AA427W	4	1700	56J20-C5	138	N			56TB3-S19	138	N			1	1
AA428	4	1700	56J20-N1	138	N			56TB3-C20	138	N			2	1
AA429	4	600	56J20-N1	138	N			56J20-P1	138	N			1	1
~~AA430~~	~~4~~	~~600~~	~~56J20-P1~~	~~138~~	~~N~~			~~56J20-R1~~	~~138~~	~~N~~			~~2~~	~~2~~

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR ~~+~~ A SHEET 44 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA 48R	4	1400	56J12-K2	138	N				56J15-R4	138	N				2	1
AA 48W	4	1400	56J12-H2	138	N				56J15-S4	138	N				2	1
AA 49R	4	1400	56J12-P3	138	N				56J15-P5	138	N				2	2
AA 49W	4	1400	56J12-N3	138	N				56J15-P6	138	N				2	2
AA 50R	4	1400	56J12-P5	138	N				56J15-N5	138	N				1	1
AA 50W	4	1400	56J12-N5	138	N				56J15-N6	138	N				2	1
AA 51	4	2600	56J12-S6	138	N				56J20-N5	138	N				1	2
AA 52R	4	2600	56J12-K4	138	N				56J20-G6	138	N				1	2
AA 52W	4	2600	56J12-H4	138	N				56J20-G5	138	N				2	2
AA 53	4	2600	56J12-G4	138	N				56J20-L6	138	N				1	1
AA 54	4	2600	56J12-S1	138	N				56J20-M1	138	N				2	3
AA 55	4	2600	56J12-S2	138	N				56J20-M2	138	N				2	3
AA 56	4	1600	56J12-H5	138	N				56J16-M2	138	N				1	1
AA 57	4	1600	56J12-H6	138	N				56J16-M3	138	N				1	1
AA 58	4	1600	56J12-G6	138	N				56J16-N3	138	N				1	1
AA 59	4	1600	56J12-G5	138	N				56J16-R2	138	N				2	1
AA 60L	4	1100	56J12-P1	138	N				56TB1-H 3	138	N				2	1
AA 60R	4	1100	56J12-R1	138	N				56TB1-H 2	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE-NONE | REV LTR ≠ A | SHEET 10 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA 60W	4	1100	56J12-P2	138	N				56TB1-G 2	138	N				1	1
AA 61	4	600	56J12-N1	138	N				56J12-P1	138	N				1	1
AA 62	4	600	56J12-H4	138	N				56J12-N2	138	N				1	1
AA 63R	4	1100	56J12-N6	138	N				56TB1-G 7	138	N				2	1
AA 63W	4	1100	56J12-P6	138	N				56TB1-H 7	138	N				2	1
AA 64R	4	1100	56J12-P5	138	N				56TB1-G 4	138	N				2	1
AA 64W	4	1100	56J12-N4	138	N				56TB1-H 4	138	N				2	1
AA 65	4	600	56J12-N4	138	N				56J12-N5	138	N				1	1
AA 66	4	2400	56J12-R6	138	N				56TB3-L20	138	N				1	1
AA 67	4	600	56J12-F1	138	N				56E 31	20	N		7		2	
AA 68	4	600	56J12-F1	138	N				56J12-F2	138	N				1	1
AA 69	4	600	56J12-F2	138	N				56E 29	20	N		8		2	
AA 70	5	2800		300		275	8			50		25	9			
AA 70A	4	600	SHLD AA 70	20	N				56J12-H1	138	N					2
AA 70L			56J12-K1	138	N				56J21- 70	10	N		6		1	1
AA 70R			56J12-H1	138	N				56J21- 71	10	N		6		1	1
AA 71	4	600	56J12-G5	138	N				56J12-R5	138	N				1	1
AA 72	4	900	56J12-K3	138	N				56J13-C6	138	N				2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE-NONE | REV LTR ≠ A | SHEET 11 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA 32W	4	1400	56J11-G6	138	N				56TB1-A 3	138	N				1	1
AA 33	4	600	56J11-R6	138	N				56J11-S6	138	N				3	1
AA 34R	4	1400	56J11-H6	138	N				56TB1-A 2	138	N				1	1
AA 34W	4	1400	56J11-H5	138	N				56TB1-B 2	138	N				1	1
AA 35	4	1400	56J11-L3	138	N				56TB1-D 6	138	N				1	1
AA 36	4	600	56J11-M5	138	N				56E 28	20	N		8		2	
AA 37	4	600	56J11-M5	138	N				56J11-P3	138	N				1	1
AA 38	4	600	56J11-P2	138	N				56J11-R3	138	N				1	1
AA 39	4	600	56J11-P3	138	N				56J11-R3	138	N				2	2
AA 40	4	600	56J11-S1	138	N				56J11-S2	138	N				1	1
AA 41	4	600	56J11-R1	138	N				56J11-R2	138	N				1	1
AA 42R	4	1400	56J11-G3	138	N				56TB1-B 6	138	N				1	1
AA 42W	4	1400	56J11-F3	138	N				56TB1-C 6	138	N				1	1
AA 43	4	1700	56J11-R3	138	N				56TB2-M 1	138	N				3	2
AA 44	4	1700	56J11-R1	138	N				56TB2-M 2	138	N				2	3
AA 45	4	1700	56J11-R2	138	N				56TB2-M 3	138	N				2	3
AA 46	4	1400	56J11-P6	138	N				56TB1-S 3	138	N				3	3
AA 47	4	1100	56J12-B6	138	N				56J14-H6	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE-NONE | REV LTR ≠ A | SHEET 9 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA 73L	4	1100	56J12-K6	138	N				56J14-R2	138	N				1	2
AA 73R	4	1100	56J12-L6	138	N				56J14-S2	138	N				1	2
AA 73W	4	1100	56J12-M6	138	N				56J14-S3	138	N				1	1
AA 74	4	2700	56J12-G3	138	N				56J22-244	10	N		6		1	1
AA 75	4	900	56J12-A5	138	N				56J13-D2	138	N				1	1
AA 76	4	900	56J12-A6	138	N				56J13-F2	138	N				1	1
AA 77	4	600	56J12-B5	138	N				56E 34	20	N		7		1	
AA 78	4	1100	56J12-M3	138	N				56TB1-H 5	138	N				1	1
AA 79	4	1100	56J12-M4	138	N				56TB1-G 5	138	N				1	1
AA 80	4	1100	56J12-M1	138	N				56TB1-H 6	138	N				2	1
AA 81	4	2700	56J12-M1	138	N				56J21- 36	10	N		6		1	1
AA 82	4	2400	56J12-L1	138	N				56TB3-M22	138	N				1	1
AA 83	4	1100	56J12-L2	138	N				56TB1-H 8	138	N				1	1
AA 84R	4	2700	56J12-F6	138	N				56J21- 29	10	N		6		1	1
AA 84W	4	2700	56J12-D6	138	N				56J21- 28	10	N		6		1	1
AA 85R	4	2700	56J12-F5	138	N				56J21-159	10	N		6		1	1
AA 85W	4	2700	56J12-D5	138	N				56J21-158	10	N		6		1	1
AA 86R	4	2700	56J12-F4	138	N				56J21- 61	10	N		6		1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE-NONE | REV LTR ≠ A | SHEET 12 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA449	4	1700	56J20-S5	138	N				56TB3-H21	138	N				2	2
AA450	4	1700	56J20-P6	138	N				56TB3-H22	138	N				2	1
AA451	4	600	56J20-P6	138	N				56J20-R6	138	N				1	1
AA452	4	600	56J20-R6	138	N				56J20-S6	138	N				2	1
AA453	4	1700	56J20-S6	138	N				56TB3-H22	138	N				2	2
AA454	4	1700	56J20-K1	138	N				56TB3-T20	138	N				2	2
AA455	4	1700	56J20-K1	138	N				56TB3-T21	138	N				3	3
AA456	4	1700	56J20-K2	138	N				56TB3-S21	138	N				3	2
AA457	4	1700	56J20-M6	138	N				56TB3-M20	138	N				2	3
AA458	4	600	56J20-G1	138	N				56J20-H1	138	N				1	1
AA459	4	600	56J20-H1	138	N				56J20-H2	138	N				2	1
AA460	4	2500	56J20-G1	138	N				56TB2-M 7	138	N				2	3
AA461	4	2500	56J20-H2	138	N				56TB2-M 1	138	N				2	3
AA462	4	1700	56J20-G4	138	N				56TB3-F22	138	N				2	2
AA463R	4	1700	56J20-D4	138	N				56TB3-S20	138	N				1	1
AA463W	4	1700	56J20-D5	138	N				56TB3-R19	138	N				1	1
AA464R	4	1700	56J20-A6	138	N				56TB3-L13	138	N				1	1
AA464W	4	1700	56J20-B6	138	N				56TB3-K13	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE-NONE | REV LTR A | SHEET 46 OF 62

MIL 2085 - 4-63 WIR

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA465R	4	1700	56J20-H3	138	N				56TB3-L14	138	N				1	1
AA465W	4	1700	56J20-G3	138	N				56TB3-K14	138	N				1	1
AA466	4	600	56TB3-H12	138	N				56TB3-R 3	138	N				1	1
AA467	5	2100		50		25	8			300		275	9			
AA467A	4	600	SHLD AA467	20	N				56E 46	20	N		8			
AA467L			56J21-126	10	N		6		56J15-M5	138	N				1	1
AA467R			56J21-125	10	N		6		56E 35	20	N				1	
AA468	5	2100		50		25	8			300		275	9			
AA468A	4	600	SHLD AA468	20	N				56E 46	20	N					
AA468L			56J21- 93	10	N		6		56J15-M6	138	N				1	1
AA468R			56J21- 92	10	N		6		56E 35	20	N				1	
AA469	5	2100		50		25	8			300		275	9			
AA469A	4	600	SHLD AA469	20	N				56E 46	20	N					
AA469L			56J21-195	10	N		6		56J15-L6	138	N				1	1
AA469R			56J21-194	10	N		6		56E 36	20	N				1	
AA470	5	2100		50		25	8			300		275	9			
AA470A	4	600	SHLD AA470	20	N				56E 46	20	N					
AA470L			56J21-161	10	N		6		56J15-K6	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE-NONE | REV LTR A | SHEET 47 OF 62

MIL 2085 - 4-63 WIR

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA431	4	600	56J20-R1	138	N				56J20-S1	138	N				1	1
AA432	4	1700	56J20-S1	138	N				56TB3-C21	138	N				2	1
AA433	4	1700	56J20-N2	138	N				56TB3-D20	138	N				2	1
AA434	4	600	56J20-N2	138	N				56J20-P2	138	N				1	1
~~AA435~~	~~4~~	~~600~~	~~56J20-P2~~	~~138~~	~~N~~				~~56J20-R2~~	~~138~~	~~N~~				~~2~~	~~2~~
AA436	4	600	56J20-R2	138	N				56J20-S2	138	N				1	1
AA437	4	1700	56J20-S2	138	N				56TB3-D21	138	N				2	1
AA438	4	600	56J20-L1	138	N				56J20-M1	138	N				2	1
AA439	4	600	56J20-L1	138	N				56J20-L2	138	N				1	1
AA440	4	600	56J20-L2	138	N				56J20-M2	138	N				2	1
AA441	4	1700	56J20-R3	138	N				56TB3-D22	138	N				2	1
AA442	4	600	56J20-R3	138	N				56J20-S3	138	N				1	1
AA443	4	1700	56J20-R4	138	N				56TB3-C22	138	N				2	1
AA444	4	600	56J20-R4	138	N				56J20-S4	138	N				1	1
AA445	4	1700	56J20-P3	138	N				56TB3-N22	138	N				2	1
AA446	4	1700	56J20-P5	138	N				56TB3-H21	138	N				2	1
AA447	4	600	56J20-P5	138	N				56J20-R5	138	N				1	1
AA448	4	600	56J20-R5	138	N				56J20-S5	138	N				2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE-NONE | REV LTR A | SHEET 45 OF 62

MIL 2085 - 4-63 WIR

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA470R			56J21-160	10	N		6		56E 36	20	N				1	
AA471	5	2100		50		25	8			300		275	9			
AA471A	4	600	SHLD AA471	20	N				56E 46	20	N					
AA471L			56J21- 95	10	N		6		56J15-K4	138	N				1	1
AA471R			56J21- 94	10	N		6		56E 37	20	N				1	
AA472	5	2100		50		25	8			300		275	9			
AA472A	4	600	SHLD AA472	20	N				56E 46	20	N					
AA472L			56J21-128	10	N		6		56J15-K5	138	N				1	1
AA472R			56J21-127	10	N		6		56E 37	20	N				1	
AA473	4	600	56J21- 23	10	N		6		56E 45	20	N		8		1	
AA474	4	600	56J21- 22	10	N		6		56E 47	20	N		8		1	
AA475	5	2100		50		25	8			250		225	9			
AA475A	4	600	SHLD AA475	20	N				56E 47	20	N					
AA475L			56J21- 24	10	N		6		56J15-B4	88	N				1	1
AA475R			56J21- 25	10	N		6		56E 38	20	N				1	
AA476	5	2100		50		25	8			250		225	9			
AA476A	4	600	SHLD AA476	20	N				56E 47	20	N					
AA476L			56J21- 27	10	N		6		56E 38	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE-NONE | REV LTR A | SHEET 48 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA100	4	1100	56J12-R4	138	N				56TB1-N 8	138	N				3	2
AA101	4	900	56J13-N5	138	N				56J14-H3	138	N				1	1
AA102	4	900	56J13-N6	138	N				56J14-K3	138	N				1	1
AA103	4	900	56J13-H6	138	N				56J14-G1	138	N				1	1
AA104	4	900	56J13-A6	138	N				56J14-A6	138	N				1	1
AA105R	4	900	56J13-L6	138	N				56J14-K1	138	N				1	1
AA105W	4	900	56J13-K6	138	N				56J14-H1	138	N				1	1
AA106	4	900	56J13-C6	138	N				56J14-H5	138	N				1	1
AA107	4	900	56J13-S6	138	N				56J14-S6	138	N				1	1
AA108	4	900	56J13-R6	138	N				56J14-R6	138	N				1	1
AA109R	4	900	56J13-R2	138	N				56J14-R1	138	N				1	1
AA109W	4	900	56J13-S2	138	N				56J14-S1	138	N				1	1
AA110R	4	900	56J13-R3	138	N				56J14-R5	138	N				2	1
AA110W	4	900	56J13-S3	138	N				56J14-S5	138	N				2	1
AA111R	4	900	56J13-R4	138	N				56J14-R4	138	N				1	1
AA111W	4	900	56J13-S4	138	N				56J14-S4	138	N				1	1
AA112R	4	900	56J13-R1	138	N				56J14-R2	138	N				1	1
AA112W	4	900	56J13-S1	138	N				56J14-S2	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR A SHEET 14 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA113	4	900	56J13-P6	138	N				56J14-P6	138	N				2	1
AA114	4	1100	56J13-D1	138	N				56J15-L4	138	N				1	1
AA115	4	1100	56J13-F1	138	N				56J15-M4	138	N				1	1
AA116	4	1100	56J13-D3	138	N				56J15-L3	138	N				1	1
AA117	4	1100	56J13-F3	138	N				56J15-M3	138	N				1	1
AA118R	4	1400	56J13-B1	138	N				56TB1-M 6	138	N				1	1
AA118W	4	1400	56J13-A1	138	N				56TB1-M 7	138	N				1	1
AA119	1	1400		300		275	10			300		275	7			
AA119B	4	600	56TB1-N 5	138	N				SHLD AA119	20	N				1	
AA119L			56J13-L1	138	N				56TB1-L 5	138	N				1	1
AA119R			56J13-H1	138	N				56TB1-M 5	138	N				1	1
AA119W			56J13-K1	138	N				56TB1-L 6	138	N				1	1
AA120	4	1400	56J13-D2	138	N				56TB1-L 2	138	N				2	1
AA121R	4	1400	56J13-B3	138	N				56TB1-N 2	138	N				1	1
AA121W	4	1400	56J13-A3	138	N				56TB1-M 3	138	N				1	1
AA122	1	1400		300		275	10			300		275	7			
AA122B	4	600	56TB1-N 4	138	N				SHLD AA122	20	N				2	
AA122L			56J13-N3	138	N				56TB1-M 4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR A SHEET 15 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA 86W	4	2700	56J12-D4	138	N				56J21- 60	10	N		6		1	1
AA 87	4	600	56J12-S1	138	N				56J12-S3	138	N				1	1
AA 88	4	600	56J12-S2	138	N				56J12-S4	138	N				1	1
AA 89	4	600	56J12-R2	138	N				56J12-R3	138	N				1	1
AA 90	4	600	56J12-R3	138	N				56J12-R4	138	N				2	1
AA 91	4	600	56J12-R4	138	N				56E 31	20	N				2	
AA 92	5	1800		300		275	9			300		275	8			
AA 92B	4		56E 27	20	N		7		SHLD AA 92	20	N					
AA 92L			56J12-P4	138	N				56J17-R3	138	N				2	1
AA 92R			56J12-P4	138	N				56J17-R3	138	N				3	3
AA 94R	4	1800	56J12-N6	138	N				56J17-N3	138	N				1	1
AA 94W	4	1800	56J12-P6	138	N				56J17-P3	138	N				1	1
AA 95R	4	900	56J12-L5	138	N				56J13-R3	138	N				1	1
AA 95W	4	900	56J12-M5	138	N				56J13-S3	138	N				1	1
AA 96	4	900	56J12-R5	138	N				56J13-R6	138	N				2	2
AA 97	4	1800	56J12-F3	138	N				56J17-M3	138	N				1	1
AA 98	4	1100	56J12-R5	138	N				56TB1-S 6	138	N				3	2
AA 99	4	1100	56J12-R2	138	N				56TB1-N 5	138	N				2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR A SHEET 13 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA122R			56J13-L3	138	N				56TB1-L 4	138	N				1	1
AA122W			56J13-M3	138	N				56TB1-L 3	138	N				1	1
AA123	4	1400	56J13-F2	138	N				56TB1-M 2	138	N				2	1
AA124	1	1400		300		275	10			300		275	7			
AA124B	4	600	56TB1-N 8	138	N				SHLD AA124	20	N				1	
AA124L			56J13-G6	138	N				56TB1-L 7	138	N				1	1
AA124R			56J13-D6	138	N				56TB1-M 8	138	N				1	1
AA124W			56J13-F6	138	N				56TB1-L 8	138	N				1	1
AA125	4	600	56J13-R6	138	N				56E 34	20	N				3	
AA126R	4	1600	56J14-A2	138	N				56TB1-T 4	138	N				1	1
AA126W	4	1600	56J14-A1	138	N				56TB1-T 5	138	N				1	1
AA127	1	1600		300		275	10			300		275	7			
AA127B	4	600	56TB1-S 4	138	N				SHLD AA127	20	N				1	
AA127L			56J14-P2	138	N				56TB1-U 3	138	N				1	1
AA127R			56J14-P1	138	N				56TB1-U 4	138	N				1	1
AA127W			56J14-P3	138	N				56TB1-T 3	138	N				1	1
AA128	4	1600	56J14-H6	138	N				56TB1-T 7	138	N				2	1
AA129R	4	2300	56J14-D1	138	N				56J21- 67	10	N		6		1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR A SHEET 16 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION SPEC. 1▷		CUT WIRE OR SHIELD				TERMINATION SPEC 1▷			
NUMBER	ITEM NO.	2▷	STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	2▷	ITEM NO.	NO.	STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	2▷	ITEM NO.	NO.	FR	TO
AA481B	4	600	56E 39	20	N				SHLD AA481	20	N					
AA481L			56J21-237	10	N		6		56J15-B5	88	N				1	1
AA481R			56J21-238	10	N		6		56E 39	20	N				1	
AA482	5	2100		50		25	9			250		225	8			
AA482B	4	600	56E 39	20	N				SHLD AA482	20	N					
AA482L			56J21-200	10	N		6		56E 39	20	N				1	
AA482R			56J21-199	10	N		6		56J15-C5	88	N				1	1
AA483	5	2100		50		25	9			250		225	8			
AA483B	4	600	56E 41	20	N				SHLD AA483	20	N					
AA483L			56J21-165	10	N		6		56J15-B7	88	N				1	1
AA483R			56J21-166	10	N		6		56E 41	20	N				1	
AA484	5	2100		50		25	9			250		225	8			
AA484B	4	600	56E 41	20	N				SHLD AA484	20	N					
AA484L			56J21- 98	10	N		6		56E 41	20	N				1	
AA484R			56J21- 97	10	N		6		56J15-C7	88	N				1	1
AA485	5	2100		50		25	9			250		225	8			
AA485B	4	600	56E 43	20	N				SHLD AA485	20	N					
AA485L			56J21- 64	10	N		6		56J15-B9	88	N				1	1

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR A SHEET 50 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION SPEC. 1▷		CUT WIRE OR SHIELD				TERMINATION SPEC 1▷			
NUMBER	ITEM NO.	2▷	STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	2▷	ITEM NO.	NO.	STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	2▷	ITEM NO.	NO.	FR	TO
AA485R			56J21- 65	10	N		6		56E 43	20	N				1	
AA486	5	2100		50		25	9			250		225	8			
AA486B	4	600	56E 43	20	N				SHLD AA486	20	N					
AA486L			56J21- 31	10	N		6		56E 43	20	N				1	
AA486R			56J21- 30	10	N		6		56J15-C9	88	N				1	1
AA487	5	2700		50		25	8			300		275	8			
AA487A	4	600	SHLD AA487	20	N				56E 57	20	N		8			
AA487B	4	600	56TB2-D3	1 38	N				SHLD AA487	20	N				3	
AA487L			56J21-121	10	N		6		56TB2-D 2	138	N				1	2
AA487R			56J21-122	10	N		6		56TB2-F 3	138	N				1	1
AA488	5	2100		50		25	8			250		225	9			
AA488A	4	600	SHLD AA488	20	N				56E 57	20	N					
AA488L			56J21-188	10	N		6		56J15-A3	88	N				1	1
AA488R			56J21-189	10	N		6		56E 59	20	N				1	
AA489	5	1900		50		25	8			250		225	9			
AA489A	4	600	SHLD AA489	20	N				56E 57	20	N					
AA489L			56J21-152	10	N		6		56J16-A7	88	N				1	1
AA489R			56J21-153	10	N		6		56E 60	20	N		7		1	
AA490	5	2700		50		25	9			300		275	8			

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR A SHEET 51 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION SPEC. 1▷		CUT WIRE OR SHIELD				TERMINATION SPEC 1▷			
NUMBER	ITEM NO.	2▷	STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	2▷	ITEM NO.	NO.	STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	2▷	ITEM NO.	NO.	FR	TO
AA476R			56J21- 26	10	N		6		56J15-C4	88	N				1	1
AA477	5	2100		50		25	8			250		225	9			
AA477A	4	600	SHLD AA477	20	N				56E 47	20	N					
AA477L			56J21-232	10	N		6		56J15-B6	88	N				1	1
AA477R			56J21-233	10	N		6		56E 40	20	N				1	
AA478	5	2100		50		25	8			250		225	9			
AA478A	4	600	SHLD AA478	20	N				56E 47	20	N					
AA478L			56J21-193	10	N		6		56E 40	20	N				1	
AA478R			56J21-192	10	N		6		56J15-C6	88	N				1	1
AA479	5	2100		50		25	8			250		225	9			
AA479A	4	600	SHLD AA479	20	N				56E 47	20	N					
AA479L			56J21- 56	10	N		6		56J15-B8	88	N				1	1
AA479R			56J21- 57	10	N		6		56E 42	20	N				1	
AA480	5	2100		50		25	8			250		225	9			
AA480A	4	600	SHLD AA480	20	N				56E 47	20	N					
AA480L			56J21- 59	10	N		6		56E 42	20	N				1	
AA480R			56J21- 58	10	N		6		56J15-C8	88	N				1	1
AA481	5	2100		50		25	9			250		225	8			

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR A SHEET 49 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION SPEC. 1▷		CUT WIRE OR SHIELD				TERMINATION SPEC 1▷			
NUMBER	ITEM NO.	2▷	STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	2▷	ITEM NO.	NO.	STRIP WIRE OR JACKET CIRCUIT POINT	2▷	TIN	2▷	ITEM NO.	NO.	FR	TO
AA490B	4	600	56E 29	20	N				SHLD AA490	20	N					
AA490L			56J21-169	10	N		6		56J12-G1	138	N				1	1
AA490R			56J21-170	10	N		6		56E 29	20	N				1	
AA491	5	2700		50		25	9			300		275	8			
AA491B	4	600	56E 29	20	N				SHLD AA491	20	N					
AA491L			56J21-137	10	N		6		56E 29	20	N				1	
AA491R			56J21-136	10	N		6		56J12-G2	138	N				1	1
AA492	5	1400		50		25	9			300		275	8			
AA492B	4	600	56E 52	20	N				SHLD AA492	20	N					
AA492L			56J21-163	10	N		6		56J18-K2	138	N				1	1
AA492R			56J21-164	10	N		6		56E 52	20	N				1	
AA493	5	1400		50		25	9			300		275	8			
AA493B	4	600	56E 52	20	N				SHLD AA493	20	N					
AA493L			56J21-131	10	N		6		56E 52	20	N				1	
AA493R			56J21-130	10	N		6		56J18-L2	138	N				1	1
AA494	5	1400		50		25	8			300		275	9			
AA494A	4	600	SHLD AA494	20	N				56E 45	20	N					
AA494L			56J21-156	10	N		6		56J18-L1	138	N				1	2

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE-NONE REV LTR A SHEET 52 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP	T I N	2	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP	T I N	2	TERMINATION ITEM NO.	SPEC	NO.	W-W FR	W-W TO
AA136L			56J14-M6	138	N					56TB1-U 8	138	N					1	1
AA136R			56J14-L6	138	N					56TB1-T 8	138	N					1	1
AA136W			56J14-N6	138	N					56TB1-U 7	138	N					1	1
AA137	4	600	56J14-R6	138	N					56E 33	20	N					3	
AA138	4	900	56J14-H3	138	N					56J15-L1	138	N					2	1
AA139	4	900	56J14-C5	138	N					56J15-N4	138	N					1	1
AA140	4	900	56J14-C6	138	N					56J15-P4	138	N					1	1
AA141	4	900	56J14-C3	138	N					56J15-N3	138	N					1	1
AA142	4	900	56J14-C4	138	N					56J15-P3	138	N					1	1
AA143	4	900	56J14-C1	138	N					56J15-N2	138	N					1	1
AA144	4	900	56J14-C2	138	N					56J15-P2	138	N					1	1
AA145	4	900	56J14-H4	138	N					56J15-M1	138	N					1	1
AA146	4	900	56J14-K3	138	N					56J15-N1	138	N					2	1
AA147	4	900	56J14-K4	138	N					56J15-P1	138	N					1	1
AA148	4	900	56J14-F6	138	N					56J15-L2	138	N					1	1
AA149	4	900	56J14-G6	138	N					56J15-M2	138	N					1	1
AA150R	4	900	56J14-R1	138	N					56J15-R5	138	N					2	2
AA150W	4	900	56J14-S1	138	N					56J15-S5	138	N					2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE - NONE | REV LTR A | SHEET 18 OF 62

MIL 2085 - 4-65 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP	T I N	2	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP	T I N	2	TERMINATION ITEM NO.	SPEC	NO.	W-W FR	W-W TO
AA151	4	900	56J14-H5	138	N					56J15-K3	138	N					2	2
AA152	4	900	56J14-S6	138	N					56J15-S2	138	N					2	1
AA153	4	900	56J14-R6	138	N					56J15-R2	138	N					2	1
AA154R	4	1400	56J14-R4	138	N					56J17-S5	138	N					2	1
AA154W	4	1400	56J14-S4	138	N					56J17-T5	138	N					2	1
AA155K	3	1800	56J15-B2	88	N					56TB1-B 7	138	N					1	1
AA155L	3	1800	56J15-B1	88	N					56TB1-C 7	138	N					1	1
AA155R	3	1800	56J15-A2	88	N					56TB1-B 8	138	N					1	1
AA155W	3	1800	56J15-A1	88	N					56TB1-C 8	138	N					1	1
AA156	4	1500	56J15-R1	138	N					56TB2-C 2	138	N					1	1
AA157R	4	2100	56J15-R2	138	N					56J21-101	10	N		6			2	1
AA157W	4	2100	56J15-P1	138	N					56J21-102	10	N		6			2	1
AA158	4	600	56J15-L5	138	N					56E 35	20	N		7			1	
AA159	4	600	56J15-L5	138	N					56E 36	20	N		7			2	
AA160	4	600	56J15-L5	138	N					56E 37	20	N		7			3	
AA161L	3	1500	56J15-D1	88	N					56TB2-C 5	138	N					1	1
AA161R	3	1500	56J15-C1	88	N					56TB2-A 5	138	N					1	1
AA161W	3	1500	56J15-C2	88	N					56TB2-B 5	138	N					1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE - NONE | REV LTR A | SHEET 19 OF 62

MIL 2085 - 4-65 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP	T I N	2	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP	T I N	2	TERMINATION ITEM NO.	SPEC	NO.	W-W FR	W-W TO
AA129W	4	2300	56E 33	20	N		8			56J21- 66	10	N		6				1
AA130R	4	2300	56E 33	20	N					56J21- 32	10	N		6				1
AA130W	4	2300	56J14-D2	138	N					56J21- 33	10	N		6			1	1
AA131R	4	2300	56J14-D3	138	N					56J21-240	10	N		6			1	1
AA131W	4	2300	56E 33	20	N					56J21-239	10	N		6				1
AA132R	4	2300	56J14-D4	138	N					56J21-202	10	N		6			1	1
AA132W	4	2300	56E 33	20	N					56J21-201	10	N		6				1
AA133	1	1600		300		275	10				300		275	7				
AA133B	4	600	56TB1-S 5	138	N					SHLD AA133	20	N					1	
AA133L			56J14-M2	138	N					56TB1-U 6	138	N					1	1
AA133R			56J14-M1	138	N					56TB1-T 6	138	N					1	1
AA133W			56J14-M3	138	N					56TB1-U 5	138	N					1	1
AA134R	4	2300	56E 33	20	N					56J21-167	10	N		6				1
AA134W	4	2300	56J14-D5	138	N					56J21-168	10	N		6			1	1
AA135R	4	2300	56J14-D6	138	N					56J21-135	10	N		6			1	1
AA135W	4	2300	56E 33	20	N					56J21-134	10	N		6				1
AA136	1	1600		300		275	10				300		275	7				
AA136B	4	600	56TB1-S 8	138	N					SHLD AA136	20	N					3	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE - NONE | REV LTR A | SHEET 17 OF 62

MIL 2085 - 4-65 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP	T I N	2	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	STRIP	T I N	2	TERMINATION ITEM NO.	SPEC	NO.	W-W FR	W-W TO
AA162L	3	1500	56J15-F2	88	N					56TB2-C 6	138	N					1	1
AA162R	3	1500	56J15-D2	88	N					56TB2-A 6	138	N					1	1
AA162W	3	1500	56J15-F1	88	N					56TB2-B 6	138	N					1	1
AA163L	3	1500	56J15-C3	88	N					56TB2-C 4	138	N					1	1
AA163R	3	1500	56J15-D3	88	N					56TB2-A 4	138	N					1	1
AA163W	3	1500	56J15-D4	88	N					56TB2-B 4	138	N					1	1
AA164	3	600	56J15-A5	88	N					56E 38	20	N		7			2	
AA165	3	600	56J15-A7	88	N					56E 40	20	N		7			3	
AA166	3	600	56J15-A9	88	N					56E 42	20	N		7			3	
AA167	3	600	56J15-A5	88	N					56E 39	20	N		8			3	
AA168	3	600	56J15-A7	88	N					56E 41	20	N		8			2	
AA169	3	600	56J15-A9	88	N					56E 43	20	N		8			2	
AA170	4	1500	56J15-H4	138	N					56TB2-C 1	138	N					2	1
AA171L	3	1500	56J15-F7	88	N					56TB2-C 8	138	N					1	1
AA171R	3	1500	56J15-D7	88	N					56TB2-B 8	138	N					1	1
AA171W	3	1500	56J15-D8	88	N					56TB2-A 8	138	N					1	1
AA172L	3	1500	56J15-D9	88	N					56TB2-C 7	138	N					1	1
AA172R	3	1500	56J15-F9	88	N					56TB2-B 7	138	N					1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE - NONE | REV LTR A | SHEET 20 OF 62

MIL 2085 - 4-65 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION SPEC. 1		CUT WIRE OR SHIELD				TERMINATION SPEC 1			
NUMBER	ITEM NO.	2	STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	ITEM NO.	NO.	STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	ITEM NO.	NO.	FR	TO
AA184	4	900	56J15-H4	138	N				56J16-L1	138	N				1	1
AA185R	4	900	56J15-P5	138	N				56J16-S3	138	N				1	1
AA185W	4	900	56J15-P6	138	N				56J16-S4	138	N				1	1
AA186	4	900	56J15-S6	138	N				56J16-S2	138	N				1	1
AA187	4	900	56J15-K3	138	N				56J16-N4	138	N				1	1
AA188R	4	1100	56J15-R5	138	N				56J17-L4	138	N				1	1
AA188W	4	1100	56J15-S5	138	N				56J17-L5	138	N				1	1
AA189	4	1600	56J16-S5	138	N				56J20-N5	138	N				1	1
AA190	4	1600	56J16-S6	138	N				56J20-N6	138	N				1	1
AA191R	4	1600	56J16-N5	138	N				56J20-L3	138	N				2	1
AA191W	4	1600	56J16-P5	138	N				56J20-K3	138	N				2	1
AA192R	4	1600	56J16-N6	138	N				56J20-M4	138	N				1	1
AA192W	4	1600	56J16-P6	138	N				56J20-L4	138	N				1	1
AA193	4	1600	56J16-S2	138	N				56J20-K2	138	N				2	2
AA194R	3	1700	56J16-D2	88	N				56TB2-G 3	138	N				1	1
AA194W	3	1700	56J16-D1	88	N				56TB2-H 3	138	N				1	1
AA195R	3	1700	56J16-D2	88	N				56TB2-G 2	138	N				2	3
AA195W	3	1700	56J16-C2	88	N				56TB2-H 2	138	N				1	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 22 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION SPEC. 1		CUT WIRE OR SHIELD				TERMINATION SPEC 1			
NUMBER	ITEM NO.	2	STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	ITEM NO.	NO.	STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	ITEM NO.	NO.	FR	TO
AA196R	3	1700	56J16-D2	88	N				56TB2-G 1	138	N				3	1
AA196W	3	1700	56J16-C1	88	N				56TB2-H 1	138	N				1	1
AA197	1	1700		250		225	7			300		275	10			
AA197A	4	600	SHLD AA197	20	N				56J16-B1	88	N					2
AA197L			56J16-B1	88	N				56TB2-T 7	138	N				3	1
AA197R			56J16-A1	88	N				56TB2-U 6	138	N				1	1
AA197W			56J16-A2	88	N				56TB2-T 6	138	N				1	1
AA198R	4	1700	56J16-P1	138	N				56TB2-L 6	138	N				1	1
AA198W	4	1700	56J16-R1	138	N				56TB2-L 5	138	N				1	1
AA199R	3	1700	56J16-D4	88	N				56TB2-G 6	138	N				1	1
AA199W	3	1700	56J16-D3	88	N				56TB2-H 6	138	N				1	1
AA200R	3	1700	56J16-D4	88	N				56TB2-G 7	138	N				2	3
AA200W	3	1700	56J16-C4	88	N				56TB2-H 7	138	N				1	2
AA201R	3	1700	56J16-D4	88	N				56TB2-G 8	138	N				3	1
AA201W	3	1700	56J16-C3	88	N				56TB2-H 8	138	N				1	1
AA202	1	1700		250		225	7			300		275	10			
AA202A	4	600	SHLD AA202	20	N				56J16-B3	88	N					2
AA202L			56J16-B3	88	N				56TB2-X 6	138	N				3	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 23 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION SPEC. 1		CUT WIRE OR SHIELD				TERMINATION SPEC 1			
NUMBER	ITEM NO.	2	STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	ITEM NO.	NO.	STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	ITEM NO.	NO.	FR	TO
AA172W	3	1500	56J15-F8	88	N				56TB2-A 7	138	N				1	1
AA173	4	1500	56J15-S1	138	N				56TB2-B 2	138	N				2	1
AA174	4	1500	56J15-S3	138	N				56TB2-B 1	138	N				1	1
AA175	4	2100	56J15-S3	138	N				56J22-227	10	N		6		2	1
AA176	2	1500		250		225	11			300		275	7			
AA176B	4	600	56TB2-D 3	138	N				SHLD AA176	20	N				1	
AA176L			56J15-B3	88	N				56TB2-D 2	138	N				1	1
AA176R			56E 59	20	N		7		56TB2-F 3	138	N					2
AA177	4	1500	56J15-R6	138	N				56TB2-D 1	138	N				1	1
AA178	4	1800	56J15-H5	138	N				56J20-H4	138	N				1	1
AA179	4	1800	56J15-S2	138	N				56J20-K1	138	N				2	1
AA180R	3	900	56J15-A4	88	N				56J16-B2	88	N				1	1
AA180W	3	900	56J15-A5	88	N				56J16-B1	88	N				1	1
AA181R	3	900	56J15-A6	88	N				56J16-B4	88	N				1	1
AA181W	3	900	56J15-A7	88	N				56J16-B3	88	N				1	1
AA182R	3	900	56J15-A8	88	N				56J16-B6	88	N				1	1
AA182W	3	900	56J15-A9	88	N				56J16-B5	88	N				1	1
AA183	4	900	56J15-S1	138	N				56J16-L2	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 21 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION SPEC. 1		CUT WIRE OR SHIELD				TERMINATION SPEC 1			
NUMBER	ITEM NO.	2	STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	ITEM NO.	NO.	STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	ITEM NO.	NO.	FR	TO
AA202R			56J16-A3	88	N				56TB2-W 5	138	N				1	1
AA202W			56J16-A4	88	N				56TB2-X 5	138	N				1	1
AA203R	4	1700	56J16-P3	138	N				56TB2-K 3	138	N				1	1
AA203W	4	1700	56J16-R3	138	N				56TB2-L 3	138	N				1	1
AA204L	3	1700	56J16-C9	88	N				56TB2-R 8	138	N				1	1
AA204R	3	1700	56J16-C8	88	N				56TB2-N 7	138	N				1	1
AA204W	3	1700	56J16-B8	88	N				56TB2-N 8	138	N				1	1
AA205L	3	1700	56J16-B9	88	N				56TB2-T 8	138	N				1	1
AA205R	3	1700	56J16-A9	88	N				56TB2-U 8	138	N				1	1
AA205W	3	1700	56J16-A8	88	N				56TB2-U 7	138	N				1	1
AA206R	3	1700	56J16-D6	88	N				56TB2-R 1	138	N				1	1
AA206W	3	1700	56J16-D5	88	N				56TB2-N 1	138	N				1	1
AA207R	3	1700	56J16-D6	88	N				56TB2-R 2	138	N				2	3
AA207W	3	1700	56J16-C6	88	N				56TB2-N 2	138	N				1	2
AA208R	3	1700	56J16-C5	88	N				56TB2-N 3	138	N				1	1
AA208W	3	1700	56J16-D6	88	N				56TB2-R 3	138	N				3	2
AA209L	3	1700	56J16-F8	88	N				56TB2-X 4	138	N				1	1
AA209R	3	1700	56J16-D7	88	N				56TB2-W 3	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR A
SHEET 24 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

NUMBER	ITEM NO.	LENGTH 2	FROM CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA499A	4	600	SHLD AA499	20	N				56E 45	20	N					
AA499L			56J21-190	10	N		6		56J18-K4	138	N				1	2
AA499R			56J21-191	10	N		6		56E 51	20	N				1	
AA500	5	1600		50		25	9			300		275	8			
AA500B	4	600	56E 27	20	N				SHLD AA500	20	N					
AA500L			56J21-104	10	N		6		56E 27	20	N				1	
AA500R			56J21-103	10	N		6		56J17-R3	138	N				1	2
AA501R	4	2500	56J21-133	10	N		6		56E 34	20	N				1	
AA501W	4	2500	56J21-132	10	N		6		56J13-N5	138	N				1	2
AA502R	4	2500	56J21-100	10	N		6		56E 34	20	N				1	
AA502W	4	2500	56J21- 99	10	N		6		56J13-N6	138	N				1	2
AA503	5	2900		50		25	9			300		275	8			
AA503B	4	600	56E 28	20	N				SHLD AA503	20	N					
AA503L			56J21-204	10	N		6		56E 28	20	N				1	
AA503R			56J21-203	10	N		6		56J11-L6	138	N				1	1
AA504	5	2900		50		25	9			300		275	8			
AA504B	4	600	56E 28	20	N				SHLD AA504	20	N					
AA504L			56J21-242	10	N		6		56E 28	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE-NONE | REV LTR ✓ A | SHEET 54 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

NUMBER	ITEM NO.	LENGTH 2	FROM CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA504R			56J21-241	10	N		6		56J11-M6	138	N				1	1
AA505	5	2700		50		25	9			300		275	8			
AA505B	4	600	56TB2-V 8	138	N				SHLD AA505	20	N				2	
AA505L			56J22-139	10	N		6		56TB2-U 8	138	N				1	2
AA505R			56J22-107	10	N		6		56TB2-U 7	138	N				1	2
AA506	5	2700		50		25	9			300		275	8			
AA506B	4	600	56TB2-M 8	138	N				SHLD AA506	20	N				2	
AA506L			56J22-141	10	N		6		56TB2-N 8	138	N				1	2
AA506R			56J22-142	10	N		6		56TB2-N 7	138	N				1	2
AA507	5	1700		50		25	9			300		275	8			
AA507B	4	600	56TB3-H12	138	N				SHLD AA507	20	N				3	
AA507L			56J22-144	10	N		6		56TB3-C13	138	N				1	1
AA507R			56J22-111	10	N		6		56TB3-C14	138	N				1	1
AA508	5	1700		50		25	9			300		275	8			
AA508B	4	600	56TB3-H14	138	N				SHLD AA508	20	N				2	
AA508L			56J22-113	10	N		6		56TB3-N20	138	N				1	2
AA508R			56J22-114	10	N		6		56TB3-N21	138	N				1	2
AA509	5	1700		50		25	9			300		275	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE-NONE | REV LTR ✓ A | SHEET 55 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

NUMBER	ITEM NO.	LENGTH 2	FROM CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA494R			56J21-157	10	N		6		56E 53	20	N				1	
AA495	5	1400		50		25	8			300		275	9			
AA495A	4	600	SHLD AA495	20	N				56E 45	20	N					
AA495L			56J21-123	10	N		6		56J18-K1	138	N				1	2
AA495R			56J21-124	10	N		6		56E 53	20	N				1	
AA496	5	1400		50		25	9			300		275	8			
AA496B	4	600	56E 50	20	N				SHLD AA496	20	N					
AA496L			56J21-235	10	N		6		56J18-K3	138	N				1	1
AA496R			56J21-236	10	N		6		56E 50	20	N				1	
AA497	5	1400		50		25	9			300		275	8			
AA497B	4	600	56E 50	20	N				SHLD AA497	20	N					
AA497L			56J21-198	10	N		6		56E 50	20	N				1	
AA497R			56J21-197	10	N		6		56J18-L3	138	N				1	1
AA498	5	1400		50		25	8			300		275	9			
AA498A			SHLD AA498	20	N				56E 45	20	N					
AA498L			56J21-230	10	N		6		56J18-L4	138	N				1	2
AA498R			56J21-231	10	N		6		56E 51	20	N				1	
AA499	5	1400		50		25	8			300		275	9			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

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SCALE-NONE | REV LTR ✓ A | SHEET 53 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

NUMBER	ITEM NO.	LENGTH 2	FROM CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA509B	4	600	56TB3-H13	138	N				SHLD AA509	20	N				3	
AA509L			56J22-116	10	N		6		56TB3-D13	138	N				1	1
AA509R			56J22-148	10	N		6		56TB3-D14	138	N				1	1
AA510	5	1700		50		25	9			300		275	8			
AA510B	4	600	56TB3-H14	138	N				SHLD AA510	20	N				3	
AA510L			56J22-150	10	N		6		56TB3-F13	138	N				1	1
AA510R			56J22-151	10	N		6		56TB3-F14	138	N				1	1
AA511	4	600	56TB1-S 2	138	N				56TB1-T 2	138	N				2	1
AA512	4	600	56TB1-R 2	138	N				56TB1-S 2	138	N				1	1
AA513	4	600	56TB3-H12	138	N				56TB3-H13	138	N				2	2
AA514	4	600	56TB3-B15	138	N				56TB3-C15	138	N				1	3
AA515	4	600	56TB3-M20	138	N				56TB3-C18	138	N				1	1
AA517R	4	1700	56TB3-B19	138	N				56J22-120	10	N		6		2	1
AA517W	4	1700	56TB3-B18	138	N				56J22-153	10	N		6		2	1
AA518	4	1700	56TB3-F 4	138	N				56J22-190	10	N		6		1	1
~~AA519~~	~~4~~	~~1700~~	~~56TB3-G21~~	~~138~~	~~N~~				~~56J21- 1~~	~~10~~	~~N~~		~~6~~		~~2~~	~~1~~
~~AA520~~	~~4~~	~~1700~~	~~56TB3-G20~~	~~138~~	~~N~~				~~56J21- 2~~	~~10~~	~~N~~		~~6~~		~~1~~	~~1~~
AA521	4	1700	56TB3-L19	138	N				56J21- 62	10	N		6		2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

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GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA220	4	1900	56J16-L1	138	N				56J22-228	10	N		6		2	1
AA221	4	1700	56J16-M1	138	N				56TB2-R 4	138	N				1	1
AA222K	4	1700	56J16-R4	138	N				56TB2-H 5	138	N				1	1
AA222L	4	1700	56J16-S3	138	N				56TB2-H 4	138	N				2	1
AA222R	4	1700	56J16-S4	138	N				56TB2-G 4	138	N				2	1
AA222W	4	1700	56J16-P4	138	N				56TB2-G 5	138	N				1	1
AA223	4	1700	56J16-P2	138	N				56TB2-K 4	138	N				1	2
AA224R	4	1700	56J16-N5	138	N				56TB2-L 1	138	N				3	2
AA224W	4	1700	56J16-P5	138	N				56TB2-K 1	138	N				3	2
AA225R	4	1700	56J16-N6	138	N				56TB2-T 2	138	N				2	2
AA225W	4	1700	56J16-P6	138	N				56TB2-U 3	138	N				2	1
AA226	5	1900		300		275	8			50		25	9			
AA226A			SHLD AA226	20	N				56E 30	20	N		7			
AA226L			56J16-L3	138	N				56J21- 35	10	N		6		1	1
AA226R			56J16-L4	138	N				56J21- 34	10	N		6		2	1
AA227	5	1900		300		275	8			50		25	9			
AA227A			SHLD AA227	20	N				56E 30	20	N					
AA227L			56J16-L3	138	N				56J21- 68	10	N		6		2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
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REV LTR ✓ A
SHEET 26 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA227R			56J16-M4	138	N				56J21- 69	10	N		6		2	1
AA228	4	1500	56J16-R5	138	N				56TB3-L20	138	N				1	2
AA229	4	1500	56J16-R6	138	N				56TB3-L20	138	N				1	3
AA230L	4	1700	56J16-G2	138	N				56TB2-W 7	138	N				1	1
AA230R	4	1700	56J16-H1	138	N				56TB2-X 7	138	N				1	1
AA230W	4	1700	56J16-G1	138	N				56TB2-W 6	138	N				1	1
AA231L	4	1700	56J16-G4	138	N				56TB2-U 4	138	N				1	1
AA231R	4	1700	56J16-H3	138	N				56TB2-T 5	138	N				1	1
AA231W	4	1700	56J16-G3	138	N				56TB2-U 5	138	N				1	1
AA232	1	1800		300		275	7			300		275	7			
AA232A	4	600	SHLD AA232	20	N				56E 30	20	N					
AA232B	4	600	56E 31	20	N				SHLD AA232	20	N					
AA232L			56J16-L4	138	N				56J12-D1	138	N				1	1
AA232R			56J16-M4	138	N				56J12-D2	138	N				1	1
AA232W			56J16-L3	138	N				56E 31	20	N				3	
AA233R	4	1100	56J16-N5	138	N				56J18-S6	138	N				1	1
AA233W	4	1100	56J16-P5	138	N				56J18-T6	138	N				1	1
AA234	4	900	56J16-N4	138	N				56J17-L6	138	N				2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
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REV LTR ✓ A
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MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA209W	3	1700	56J16-F7	88	N				56TB2-W 4	138	N				1	1
AA210	4	1700	56J16-S1	138	N				56TB2-N 5	138	N				1	1
AA211	4	1700	56J16-T1	138	N				56TB2-R 5	138	N				1	1
AA212	4	1700	56J16-T2	138	N				56TB2-K 8	138	N				1	1
AA213L	3	1700	56J16-F9	88	N				56TB2-X 2	138	N				1	1
AA213R	3	1700	56J16-D9	88	N				56TB2-W 2	138	N				1	1
AA213W	3	1700	56J16-D8	88	N				56TB2-X 3	138	N				1	1
AA214	1	1700		250		225	7			300		275	10			
AA214A	4	600	SHLD AA214	20	N				56J16-B5	88	N					2
AA214L			56J16-B5	88	N				56TB2-R 7	138	N				3	1
AA214R			56J16-A5	88	N				56TB2-N 6	138	N				1	1
AA214W			56J16-A6	88	N				56TB2-R 6	138	N				1	1
AA215R	4	1700	56J16-N2	138	N				56TB2-K 5	138	N				1	1
AA215W	4	1700	56J16-N1	138	N				56TB2-K 6	138	N				1	1
AA216	3	1700	56J16-F2	88	N				56TB2-W 1	138	N				1	1
AA217	3	1700	56J16-F4	88	N				56TB2-X 1	138	N				1	1
AA218	3	1700	56J16-F6	88	N				56TB2-S 1	138	N				1	1
AA219	3	1700	56J16-F5	88	N				56TB2-T 1	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR ✓ A
SHEET 25 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA235	4	1400	56J17-P6	138	N				56TB3-F 3	138	N				1	1
AA236	4	1400	56J17-T4	138	N				56J20-M1	138	N				1	2
AA237	4	1400	56J17-T3	138	N				56J20-M2	138	N				1	2
AA238	4	1400	56J17-T1	138	N				56J20-P3	138	N				2	1
AA239	4	1400	56J17-T2	138	N				56J20-P4	138	N				2	1
AA240	4	900	56J17-T6	138	N				56J18-S1	138	N				1	1
AA241	4	900	56J17-L6	138	N				56J18-R5	138	N				1	1
AA242L	4	900	56J17-K4	138	N				56J18-K1	138	N				1	1
AA242R	4	900	56J17-G4	138	N				56J18-L1	138	N				1	1
AA242W	4	600	56J17-H4	138	N				56E 53	20	N		7		1	
AA243L	4	900	56J17-K6	138	N				56J18-K4	138	N				1	1
AA243R	4	900	56J17-G6	138	N				56J18-L4	138	N				1	1
AA243W	4	600	56J17-H6	138	N				56E 51	20	N		7		1	
AA244	5	1600		250		225	9			50		25	8			
AA244B	4	600	56J22- 41	10	N		6		SHLD AA244	20	N				1	
AA244L			56J17-A4	88	N				56J22- 3	10	N		6		1	1
AA244R			56J17-B4	88	N				56J22- 4	10	N		6		1	1
AA245	5	1600		250		225	9			50		25	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
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SCALE-NONE
REV LTR ✓ A
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MIL 2085 - 4-63 WIR

INCHES
0 1 2
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GJG WIRE LIST AA + 1014608

CONDUCTOR INDIVIDUAL LENGTH NUMBER	ITEM NO.	2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA256	3	1400	56J17-D7	88	N				56TB3-M 4	138	N				1	1
AA257	3	1400	56J17-F7	88	N				56TB3-C 1	138	N				1	1
AA258K	4	1400	56J17-N6	138	N				56TB3-G 1	138	N				1	1
AA258L	4	1400	56J17-N5	138	N				56TB3-G 2	138	N				1	1
AA258R	4	1400	56J17-M6	138	N				56TB3-H 1	138	N				1	1
AA258W	4	1400	56J17-M5	138	N				56TB3-H 2	138	N				1	1
AA259	4	1400	56J17-H1	138	N				56TB3-K 2	138	N				1	1
AA260	4	1400	56J17-H2	138	N				56TB3-K 1	138	N				1	1
AA261	4	1400	56J17-G1	138	N				56TB3-K 5	138	N				1	1
AA262	4	1400	56J17-G2	138	N				56TB3-H 5	138	N				1	1
AA263	4	1400	56J17-L1	138	N				56TB3-L 5	138	N				1	1
AA264	4	1400	56J17-M1	138	N				56TB3-D 1	138	N				1	1
AA265	5	1400		300		275	9			300		275	8			
AA265B	4	600	56TB3-S 3	138	N				SHLD AA265	20	N				2	
AA265L			56J17-M4	138	N				56TB3-N 1	138	N				1	1
AA265R			56J17-N4	138	N				56TB3-N 2	138	N				1	1
AA266	3	1400	56J17-C5	88	N				56TB3-K 3	138	N				1	1
AA267	3	1400	56J17-B6	88	N				56TB3-L 4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SCALE-NONE | REV LTR A | SHEET 30 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR INDIVIDUAL LENGTH NUMBER	ITEM NO.	2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA268	3	1400	56J17-B5	88	N				56TB3-L 3	138	N				1	1
AA269	3	1400	56J17-D5	88	N				56TB3-M 1	138	N				1	1
AA270	5	1400		300		275	9			300		275	8			
AA270B	4	600	56TB3-N 3	138	N				SHLD AA270	20	N				1	
AA270L			56J17-N1	138	N				56TB3-N 4	138	N				1	1
AA270R			56J17-P1	138	N				56TB3-N 5	138	N				1	1
AA271	3	1400	56J17-F6	88	N				56TB3-C 4	138	N				1	1
AA272	3	1400	56J17-F5	88	N				56TB3-D 4	138	N				1	1
AA273	3	1400	56J17-F4	88	N				56TB3-C 5	138	N				1	1
AA274	3	1400	56J17-F3	88	N				56TB3-D 5	138	N				1	1
AA275	4	1400	56J17-P5	138	N				56TB3-D 3	138	N				1	1
AA276	3	1400	56J17-C6	88	N				56TB3-H 4	138	N				1	1
AA277	4	1400	56J17-M2	138	N				56TB3-G 5	138	N				1	1
AA278	4	1400	56J17-M3	138	N				56TB3-F 1	138	N				2	1
AA280	4	1400	56J17-R5	138	N				56TB3-M21	138	N				1	1
AA281L	3	1400	56J17-A8	88	N				56TB3-T 6	138	N				1	1
AA281R	3	1400	56J17-A7	88	N				56TB3-T 5	138	N				1	1
AA281W	3	1400	56J17-A6	88	N				56TB3-T 4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE-NONE | REV LTR A | SHEET 31 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR INDIVIDUAL LENGTH NUMBER	ITEM NO.	2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA245B	4	600	56J22- 5	10	N		6		SHLD AA245	20	N				1	
AA245L			56J17-C4	88	N				56J22- 6	10	N		6		1	1
AA245R			56J17-D4	88	N				56J22- 43	10	N		6		1	1
AA246	5	1600		225		250	9			50		25	8			
AA246B	4	600	56J22- 8	10	N		6		SHLD AA246	20	N				1	
AA246L			56J17-C3	88	N				56J22- 45	10	N		6		1	1
AA246R			56J17-D3	88	N				56J22- 46	10	N		6		1	1
AA247R	3	1400	56J17-D2	88	N				56TB3-R 4	138	N				1	1
AA247W	3	1400	56J17-D3	88	N				56TB3-R 5	138	N				2	1
AA248	4	1400	56J17-S2	138	N				56TB3-T 3	138	N				2	3
AA249	3	1400	56J17-F8	88	N				56TB3-L 2	138	N				1	1
AA250R	4	1400	56J17-P4	138	N				56TB3-C 2	138	N				1	1
AA250W	4	1400	56J17-R4	138	N				56TB3-D 2	138	N				1	1
AA251	3	1400	56J17-D8	88	N				56TB3-M 2	138	N				1	1
AA252	3	1400	56J17-B7	88	N				56TB3-H 3	138	N				1	1
AA253	3	1400	56J17-B8	88	N				56TB3-G 3	138	N				1	1
AA254	3	1400	56J17-C7	88	N				56TB3-G 4	138	N				1	1
AA255	3	1400	56J17-D6	88	N				56TB3-M 5	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE-NONE | REV LTR A | SHEET 29 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR INDIVIDUAL LENGTH NUMBER	ITEM NO.	2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA282	4	1400	56J17-R6	138	N				56TB3-L21	138	N				2	2
AA283	4	600	56J17-R6	138	N				56J17-S6	138	N				1	1
AA284L	3	1400	56J17-F9	88	N				56TB3-S 4	138	N				1	1
AA284R	3	1400	56J17-D9	88	N				56TB3-S 5	138	N				1	1
AA284W	3	1400	56J17-C9	88	N				56TB3-S 6	138	N				1	1
AA285	3	1400	56J17-A9	88	N				56TB3-M 3	138	N				1	1
AA286	3	1400	56J17-B9	88	N				56TB3-K 4	138	N				1	1
AA287	5	1600		250		225	9			50		25	8			
AA287B	4	600	56J22- 2	10	N		6		SHLD AA287	20	N				1	
AA287L			56J17-A3	88	N				56J22- 1	10	N		6		1	1
AA287R			56J17-B3	88	N				56J22- 39	10	N		6		1	1
AA288	5	1600		250		225	9			50		25	8			
AA288B	4	600	56J22- 11	10	N		6		SHLD AA288	20	N				1	
AA288L			56J17-D1	88	N				56J22- 48	10	N		6		1	1
AA288R			56J17-C1	88	N				56J22- 10	10	N		6		1	1
AA289R	3	1400	56J17-C2	88	N				56TB3-M 14	138	N				1	1
AA289W	3	1400	56J17-C1	88	N				56TB3-M 13	138	N				2	1
AA290	3	1400	56J17-C8	88	N				56TB3-L 1	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE-NONE | REV LTR A | SHEET 32 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷	FROM CIRCUIT POINT	2▷	TIN	STRIP WIRE OR JACKET 2▷	TERMINATION SPEC. 1▷ ITEM NO.	TO CIRCUIT POINT	2▷	TIN	STRIP WIRE OR JACKET 2▷	TERMINATION SPEC 1▷ ITEM NO.	W-W FR	W-W TO
AA540	4	600	56TB2-V 2	138	N			56TB2-V 3	138	N			1	1
AA541	4	600	56TB3-G 9	138	N			56TB3-H 9	138	N			1	1
AA542	4	600	56TB3-H 9	138	N			56TB3-K 9	138	N			2	2
AA543	4	600	56TB3-K 9	138	N			56TB3-L 9	138	N			1	1
AA544	4	600	56TB3-L 9	138	N			56TB3-M 9	138	N			2	2
AA545	4	600	56TB3-M 9	138	N			56TB3-N 9	138	N			1	1
AA546	4	600	56TB3-N 9	138	N			56TB3-R 9	138	N			2	2
AA547	4	600	56TB3-R 9	138	N			56TB3-S 9	138	N			1	1
AA548	4	600	56TB3-S 9	138	N			56TB3-T 9	138	N			2	2
AA549	4	600	56TB3-T 9	138	N			56TB3-T15	138	N			1	2
AA550	4	600	56TB3-G15	138	N			56TB3-H15	138	N			2	2
AA551	4	600	56TB3-H15	138	N			56TB3-K15	138	N			1	1
AA552	4	600	56TB3-K15	138	N			56TB3-L15	138	N			2	2
AA553	4	600	56TB3-R15	138	N			56TB3-S15	138	N			2	2
AA554	4	600	56TB3-H13	138	N			56TB3-H14	138	N			1	1
AA555	4	600	56TB2-K 4	138	N			56TB2-L 4	138	N			1	1
AA556	4	600	56TB2-L 2	138	N			56TB2-L 1	138	N			1	1
AA557	4	600	56TB2-K 2	138	N			56TB2-K 1	138	N			1	1

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE

REV LTR A

SHEET 58 OF 62

MIL 2085 - 4-63 WIR

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷	FROM CIRCUIT POINT	2▷	TIN	STRIP WIRE OR JACKET 2▷	TERMINATION SPEC. 1▷ ITEM NO.	TO CIRCUIT POINT	2▷	TIN	STRIP WIRE OR JACKET 2▷	TERMINATION SPEC 1▷ ITEM NO.	W-W FR	W-W TO
AA558	4	600	56TB3-M20	138	N			56TB3-C19	138	N			2	1
AA559	4	600	56TB3-T20	138	N			56TB3-T21	138	N			1	1
AA560	4	600	56TB3-S21	138	N			56TB3-T21	138	N			1	2
~~AA561~~	~~4~~	~~2400~~	~~56E 57~~	~~20~~	~~N~~			~~56TB2-D 3~~	~~138~~	~~N~~				~~3~~
AA562	4	600	56J21- 53	10	N		6	56E 57	20	N			1	
AA563	4	600	56TB3-L21	138	N			56TB3-D15	138	N			1	3
AA566	4	600	56TB3-K21	138	N			56TB3-C15	138	N			1	1
AA568	4	600	56E 45	20	N			56E 46	20	N				
AA569	2	1700	-	300		275	7		250		225	11		
AA569A	4	600	SHLD AA569	20	N			56TB2-D 3	138	N				2
AA569L			56TB2-D 2	138	N			56J16-B7	88	N			3	1
AA569R			56TB2-F 3	138	N			56E 60	20	N			3	
AA571	2	1900		300		275	7		250		225	11		
AA571A	4	600	SHLD AA571	20	N			56TB2-S 3	138	N				2
AA571L			56TB2-N 3	138	N			56J17-A2	88	N			2	1
AA571R			56TB2-R 3	138	N			56J17-B2	88	N			3	1
AA572	4	600	56TB1-D 7	138	N			56TB1-D 8	138	N			1	1
AA577	4	600	56TB2-D 7	138	N			56TB2-D 8	138	N			2	1

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE

REV LTR A

SHEET 59 OF 62

MIL 2085 - 4-63 WIR

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷	FROM CIRCUIT POINT	2▷	TIN	STRIP WIRE OR JACKET 2▷	TERMINATION SPEC. 1▷ ITEM NO.	TO CIRCUIT POINT	2▷	TIN	STRIP WIRE OR JACKET 2▷	TERMINATION SPEC 1▷ ITEM NO.	W-W FR	W-W TO
AA522	4	1700	56TB3-N19	138	N			56J21- 63	10	N		6	2	1
~~AA523~~	~~4~~	~~1700~~	~~56TB3-G21~~	~~138~~	~~N~~			~~56J21- 73~~	~~10~~	~~N~~		~~6~~	~~3~~	~~1~~
~~AA524~~	~~4~~	~~1700~~	~~56TB3-G20~~	~~138~~	~~N~~			~~56J21- 74~~	~~10~~	~~N~~		~~6~~	~~2~~	~~1~~
AA525	4	1700	56TB3-M19	138	N			56J21- 96	10	N		6	2	1
AA526	4	1700	56TB3-D19	138	N			56J21-129	10	N		6	2	1
~~AA527~~	~~4~~	~~1700~~	~~56TB3-G22~~	~~138~~	~~N~~			~~56J21-139~~	~~10~~	~~N~~		~~6~~	~~2~~	~~1~~
~~AA528~~	~~4~~	~~1700~~	~~56TB3-F20~~	~~138~~	~~N~~			~~56J21-140~~	~~10~~	~~N~~		~~6~~	~~1~~	~~1~~
AA529	4	1700	56TB3-F19	138	N			56J21-162	10	N		6	2	1
AA530	4	1700	56TB3-G19	138	N			56J21-196	10	N		6	2	1
~~AA531~~	~~4~~	~~1700~~	~~56TB3-G22~~	~~138~~	~~N~~			~~56J21-207~~	~~10~~	~~N~~		~~6~~	~~3~~	~~1~~
~~AA532~~	~~4~~	~~1700~~	~~56TB3-F20~~	~~138~~	~~N~~			~~56J21-208~~	~~10~~	~~N~~		~~6~~	~~2~~	~~1~~
AA533	4	600	56TB3-L15	138	N			56TB3-M15	138	N			1	1
AA534	4	600	56TB3-M15	138	N			56TB3-N15	138	N			2	2
AA535	4	600	56TB3-N15	138	N			56TB3-R15	138	N			1	1
AA536	4	600	56TB3-S15	138	N			56TB3-T15	138	N			1	1
~~AA537~~	~~4~~	~~600~~	~~56TB3-T15~~	~~138~~	~~N~~			~~56TB3-B15~~	~~138~~	~~N~~			~~2~~	~~3~~
AA538	4	600	56TB3-G 9	138	N			56TB3-B15	138	N			2	2
AA539	4	600	56TB2-M 8	138	N			56TB2-M 7	138	N			1	1

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE

REV LTR A

SHEET 57 OF 62

MIL 2085 - 4-63 WIR

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷	FROM CIRCUIT POINT	2▷	TIN	STRIP WIRE OR JACKET 2▷	TERMINATION SPEC. 1▷ ITEM NO.	TO CIRCUIT POINT	2▷	TIN	STRIP WIRE OR JACKET 2▷	TERMINATION SPEC 1▷ ITEM NO.	W-W FR	W-W TO
AA578	4	600	56TB2-S 2	138	N			56TB2-R 2	138	N			1	1
AA579	4	600	56TB2-F 7	138	N			56TB2-G 7	138	N			1	1
AA580	4	600	56TB2-F 2	138	N			56TB2-G 2	138	N			1	1
AA581	4	600	56TB2-M 1	138	N			56TB2-M 2	138	N			1	1
AA582	4	600	56TB2-M 2	138	N			56TB2-M 3	138	N			2	2
AA583	4	600	56TB2-M 3	138	N			56TB2-M 4	138	N			1	1
AA584	4	600	56TB2-M 4	138	N			56TB2-M 5	138	N			2	2
AA585	4	600	56TB2-M 5	138	N			56TB2-M 6	138	N			1	1
AA586	4	600	56TB2-M 6	138	N			56TB2-M 7	138	N			2	2
AA588	4	600	56TB1-N 4	138	N			56TB1-S 8	138	N			1	1
AA589	4	1000	56TB1-N 4	138	N			56TB2-M 5	138	N			3	3
AA590	4	1000	56TB1-D 7	138	N			56TB2-V 2	138	N			2	2
AA591	4	1000	56TB1-S 3	138	N			56TB2-M 4	138	N			2	3
AA592	4	2200	56TB2-M 6	138	N			56TB3-T 3	138	N			3	1
~~AA594~~	~~4~~	~~2200~~	~~56TB3-S 2~~	~~138~~	~~N~~			~~56TB2-V 3~~	~~138~~	~~N~~			~~2~~	~~3~~
AA596	4	600	56TB2-V 3	138	N			56TB2-V 4	138	N			2	2
AA597	4	600	56TB2-V 4	138	N			56TB2-V 5	138	N			1	1
AA598	4	600	56TB2-V 5	138	N			56TB2-V 6	138	N			2	2

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE

REV LTR A

SHEET 60 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

TDR # 07882

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014606-011	1014606-011	A	REVISED PER TDRR NO. 06261	14 FEB 64	WK.
		B	REVISED PER TDRR NO. 06724	10 MAR 64	WK.
		C	REVISED PER TDRR NO 06998	17 MAR 64	WK.

Ⓓ REPLACES REV. Ⓒ WITH CHANGE

	REV	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
	SHEET	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
REV STATUS	REV				B	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
OF SHEETS	SHEET				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN C. M. Kulp DATE 13 NOV 63
CHECKED C Wilson 22 NOV 63
APPROVAL D. Bayta 22 Nov 63
APPROVAL B Hensley 22 NOV 63 for Hensley & Doc.
NASA APPROVAL W. J. Rhine 12-3
MIT APPROVAL

CONTRACT NAS 9-497

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE LIST AA
AGE HARNESS & END CONNECTOR ASSY

CODE IDENT NO.
SIZE
1014608
REV C

SCALE —
SHEET 1 OF 62

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
50	A														
51	A														
52	A														
53	A														
54	A														
55	A														
56	A														
57	A														
58	A														
59	A														
60	A														
61	A														
62	A														

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION
A

NASA DRAWING NO.
1014608
SHEET 2 OF 62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

UARCO BUSINESS FORMS - WATSEKA, ILL.

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA288R			56J17-C1	88	N				56J22- 10	10	N		6		1	1
AA289R	3	1400	56J17-C2	88	N				56TB3-M14	138	N				1	1
AA289W	3	1400	56J17-C1	88	N				56TB3-M13	138	N				2	1
AA290	3	1400	56J17-C8	88	N				56TB3-L 1	138	N				1	1
AA291	4	600	56J17-S1	138	N				56J17-S2	138	N				1	1
AA292	4	1600	56J17-M3	138	N				56J22-206	10	N		6		3	1
AA293	4	1600	56J17-L3	138	N				56J22-243	10	N		6		1	1
AA294	4	600	56J17-T1	138	N				56J17-T2	138	N				1	1
AA295	4	1400	56J17-S3	138	N				56TB3-N 3	138	N				1	2
AA296	4	1400	56J17-S1	138	N				56TB3-S 3	138	N				2	3
AA297	4	1400	56J17-S4	138	N				56TB3-R 3	138	N				1	3
AA298	4	900	56J18-S1	138	N				56J19-T1	138	N				2	2
AA299R	3	900	56J18-F2	88	N				56J19-F4	88	N				1	1
AA299W	3	900	56J18-F1	88	N				56J19-D4	88	N				1	1
AA300R	3	900	56J18-C8	88	N				56J19-B2	88	N				1	1
AA300W	3	900	56J18-B8	88	N				56J19-C1	88	N				1	1
AA301R	3	900	56J18-D9	88	N				56J19-B3	88	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE		
99974	A	1014608	
SCALE - NONE	REV LTR	D	SHEET 34

MIL 2075 3-63 WIR-R01

05284

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA301W	3	900	56J18-C9	88	N				56J19-A4	88	N				1	1
AA302K	4	900	56J18-G5	138	N				56J19-H6	138	N				1	1
AA302L	4	900	56J18-H5	138	N				56J19-H5	138	N				1	1
AA302R	4	900	56J18-H6	138	N				56J19-G5	138	N				1	1
AA302W	4	900	56J18-G6	138	N				56J19-G6	138	N				1	1
AA303	4	900	56J18-P3	138	N				56J19-R4	138	N				2	2
AA304R	4	900	56J18-S6	138	N				56J19-N6	138	N				2	1
AA304W	4	900	56J18-T6	138	N				56J19-P6	138	N				2	1
AA305	4	900	56J18-S5	138	N				56J19-P5	138	N				2	2
AA306	4	900	56J18-R5	138	N				56J19-P3	138	N				2	2
AA307	5	1400		250		225	11			300		275	7			
AA307B	4	600	56TB3-R 9	138	N				SHLD AA307	20	N				3	
AA307L			56J18-C2	88	N				56TB3-T 8	138	N				1	1
AA307R			56J18-B2	88	N				56TB3-T 7	138	N				1	1
AA308	5	1400		250		225	11			300		275	7			
AA308B	4	600	56TB3-N 9	138	N				SHLD AA308	20	N				3	
AA308L			56J18-A1	88	N				56TB3-S 8	138	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE		
99974	A	1014608	
SCALE - NONE	REV LTR	D	SHEET 35

MIL 2075 3-63 WIR-R01

05285

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA281L	3	1400	56J17-A8	88	N				56TB3-T 6	138	N				1	1
AA281R	3	1400	56J17-A7	88	N				56TB3-T 5	138	N				1	1
AA281W	3	1400	56J17-A6	88	N				56TB3-T 4	138	N				1	1
AA282	4	1400	56J17-R6	138	N				56TB3-L21	138	N				2	2
AA283	4	600	56J17-R6	138	N				56J17-S6	138	N				1	1
AA284L	3	1400	56J17-F9	88	N				56TB3-S 4	138	N				1	1
AA284R	3	1400	56J17-D9	88	N				56TB3-S 5	138	N				1	1
AA284W	3	1400	56J17-C9	88	N				56TB3-S 6	138	N				1	1
AA285	3	1400	56J17-A9	88	N				56TB3-M 3	138	N				1	1
AA286	3	1400	56J17-B9	88	N				56TB3-K 4	138	N				1	1
AA287	5	1600		250		225	9			50		25	8			
AA287B	4	600	56J22- 2	10	N		6		SHLD AA287	20	N				1	
AA287L			56J17-A3	88	N				56J22- 1	10	N		6		1	1
AA287R			56J17-B3	88	N				56J22- 39	10	N		6		1	1
AA288	5	1600		250		225	9			50		25	8			
AA288B	4	600	56J22- 11	10	N		6		SHLD AA288	20	N				1	
AA288L			56J17-D1	88	N				56J22- 48	10	N		6		1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE		
99974	A	1014608	
SCALE - NONE	REV LTR	D	SHEET 33

MIL 2075 3-63 WIR-R01

05283

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA308R			56J18-B1	88	N				56TB3-S 7	138	N				1	1
AA309	5	1400		250		225	11			300		275	7			
AA309B	4	600	56TB3-T 9	138	N				SHLD AA309	20	N				3	
AA309L			56J18-A2	88	N				56TB3-T10	138	N				1	1
AA309R			56J18-A3	88	N				56TB3-T11	138	N				1	1
AA310	5	1400		250		225	11			300		275	7			
AA310B	4	600	56TB3-S 9	138	N				SHLD AA310	20	N				3	
AA310L			56J18-B3	88	N				56TB3-S10	138	N				1	1
AA310R			56J18-B4	88	N				56TB3-S11	138	N				1	1
AA311R	3	1400	56J18-D3	88	N				56TB3-R 7	138	N				1	1
AA311W	3	1400	56J18-D2	88	N				56TB3-R 8	138	N				1	1
AA312R	3	1400	56J18-C1	88	N				56TB3-R11	138	N				1	1
AA312W	3	1400	56J18-D1	88	N				56TB3-R10	138	N				1	1
AA313R	3	1400	56J18-A5	88	N				56TB3-N 7	138	N				1	1
AA313W	3	1400	56J18-A4	88	N				56TB3-N 8	138	N				1	1
AA314R	3	1400	56J18-C5	88	N				56TB3-N11	138	N				1	1
AA314W	3	1400	56J18-B5	88	N				56TB3-N10	138	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE		
99974	A	1014608	
SCALE - NONE	REV LTR	D	SHEET 36

MIL 2075 3-63 WIR-R01

05286

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

REVISIONS

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014606-011	1014606-011	D	REVISED & REDRAWN TDRR 06980		

REV	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
SHEET	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49

REV STATUS OF SHEETS	REV	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

ACSP PN
DRAWN DATE 2/17/64
CHECKED
APPROVAL 2/17/64
APPROVAL
NASA APPROVAL 7-7-64
MIT APPROVAL
CONTRACT

WIRE LIST AA
AGE HARNESS & END CONNECTOR ASSY

CODE IDENT NO. | SIZE | MA 63 1014608 | REV D
SCALE | SHEET 1 OF 66

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
50	D														
51	D														
52	D														
53	D														
54	D														
55	D														
56	D														
57	D														
58	D														
59	D														
60	D														
61	D														
62	D														
63	D														
64	D														
65	D														
66	D														

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION D

NASA DRAWING NO.
1014608
SHEET 2 OF 66

WIRE LIST AA

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014608- 1	WIRE PER 1010707-2 SOLID 30AWG (THREE COND. TWISTED AND SHIELDED) 13 FT. 3.0 IN. TOTAL LENGTH
	3	1	1014608- 3	WIRE PER 1010708-4 SOLID 30AWG (SINGLE COND.) 186 FT. 2.0 IN. TOTAL LENGTH
	4	1	1014608- 4	WIRE PER 1010708-5 SOLID 24AWG (SINGLE COND.) 605 FT. 0.6 IN. TOTAL LENGTH
	5	1	1014608- 5	WIRE PER 1010708-3 SOLID 24AWG (TWO COND. TWISTED AND SHIELDED) 103 FT. 9.0 IN. TOTAL LENGTH
11	6	144	1010738- 2	CONTACT, SOCKET
11	7	36	1010402- 1	SLEEVE, SOLDER
11	8	69	1010402- 2	SLEEVE, SOLDER
11	9	53	1010490-110	INSULATION-SLEEVING, ELEC.
11	10	9	1010490-112	INSULATION-SLEEVING, ELEC.
11	11	11	1010490-114	INSULATION-SLEEVING, ELEC.
	12	4	MS-25036-44	TERMINAL LUG

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608	
SCALE-NONE	REV LTR D		SHEET 3

MIL 2084 4-63

WIRE LIST AA

GENERAL NOTES

1 SEE CONDUCTOR CHART PENNANT NOTE 1

2 SEE CONDUCTOR CHART PENNANT NOTE 2

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

5 LENGTHS SPECIFIED ARE FOR CONDUCTORS BEFORE ATTACHING TO AN ACCESSORY.

6 CONDUCTORS WITH THE SAME NUMBER ARE TWISTED TOGETHER.

7 LENGTHS SPECIFIED FOR TWISTED CONDUCTORS ARE FOR AFTER TWISTING.

8 TWISTED CONDUCTORS ARE TO BE TWISTED WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED CONDUCTOR.

9 CONDUCTOR LENGTHS ARE FOR MANUFACTURING REF. ONLY.

10 NUMBERS IN WIRE-WRAP COLUMN INDICATE THE LEVEL OF TERMINATION.
CONDUCTORS LISTED AS ----
LEVEL 1 TO BE WIRE-WRAPPED AT BASE OF CONTACT
LEVEL 2 TO FOLLOW LEVEL 1
LEVEL 3 TO FOLLOW LEVEL 2

11 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608	
SCALE-NONE	REV LTR D		SHEET 4

MIL 2084 4-63

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	FROM TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	TO TERMINATION SPEC ITEM NO.	NO.	W-W FR	TO
AA 1	4	1600	56J11-S4	138	N			56J15-S6	138	N			3	2
AA 2	4	2800	56J11-S1	138	N			56J20-L1	138	N			2	3
AA 3	4	2800	56J11-S2	138	N			56J20-L2	138	N			2	3
AA 4	4	2800	56J11-S5	138	N			56J20-K2	138	N			2	1
AA 5R	4	900	56J11-N4	138	N			56J12-P3	138	N			1	1
AA 5W	4	900	56J11-N5	138	N			56J12-N3	138	N			1	1
AA 6	4	900	56J11-S4	138	N			56J12-S5	138	N			2	1
AA 7	4	900	56J11-L4	138	N			56J12-K3	138	N			1	1
AA 9R	4	900	56J11-L2	138	N			56J12-K2	138	N			1	1
AA 9W	4	900	56J11-L1	138	N			56J12-H2	138	N			1	1
AA 10K	4	900	56J11-B5	138	N			56J12-B2	138	N			1	1
AA 10L	4	900	56J11-A6	138	N			56J12-B1	138	N			1	1
AA 10R	4	900	56J11-A5	138	N			56J12-A2	138	N			1	1
AA 10W	4	900	56J11-B6	138	N			55J12-A1	138	N			1	1
AA 11R	3	2000	56J11-B3	138	N			56J17-B1	88	N			1	1
AA 11W	3	2000	56J11-C3	138	N			56J17-A1	88	N			1	1
AA 12L	4	2000	56J11-N2	138	N			56J17-R2	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 6

MIL 2075 3-63 WIR-R01

05256

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	FROM TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	TO TERMINATION SPEC ITEM NO.	NO.	W-W FR	TO
AA 12R	4	2000	56J11-N1	138	N			56J17-P2	138	N			1	1
AA 12W	4	2000	56J11-P1	138	N			56J17-N2	138	N			1	1
AA 13	4	2000	56J11-S3	138	N			56J17-R1	138	N			1	1
AA 14	4	1100	56J11-N6	138	N			56J13-P6	138	N			1	1
AA 15R	4	1700	56J11-B1	138	N			56TB2-G 2	138	N			1	2
AA 15W	4	1700	56J11-A1	138	N			56TB2-H 2	138	N			1	1
AA 16R	4	1400	56J11-C1	138	N			56TB1-C 5	138	N			1	1
AA 16W	4	1400	56J11-B1	138	N			56TB1-B 5	138	N			2	1
AA 17	4	600	56J11-R4	138	N			56J11-R5	138	N			2	2
AA 18	4	600	56J11-P4	138	N			56J11-R4	138	N			1	1
AA 19R	4	1700	56J11-B2	138	N			56TB2-G 7	138	N			1	2
AA 19W	4	1700	56J11-A2	138	N			56TB2-H 7	138	N			1	1
AA 20R	4	1400	56J11-C2	138	N			56TB1-A 5	138	N			1	1
AA 20W	4	1400	56J11-B2	138	N			56TB1-A 6	138	N			2	1
AA 21R	4	1700	56J11-B3	138	N			56TB2-R 2	138	N			2	2
AA 21W	4	1700	56J11-A3	138	N			56TB2-N 2	138	N			1	1
AA 22	4	600	56J11-P4	138	N			56J11-P5	138	N			2	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 7

MIL 2075 3-63 WIR-R01

05257

WIRE LIST AA

GENERAL NOTES

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
- A - FROM END SHIELD
- B - TO END SHIELD
- K - BLACK
- L - BLUE
- R - RED
- W - WHITE

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 5

MIL 2084 4-63

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	FROM TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	T I N	TO TERMINATION SPEC ITEM NO.	NO.	W-W FR	TO
AA 23K	4	1400	56J11-G1	138	N			56TB1-C 3	138	N			1	1
AA 23L	4	1400	56J11-H1	138	N			56TB1-B 4	138	N			1	1
AA 23R	4	1400	56J11-F1	138	N			56TB1-C 4	138	N			1	1
AA 23W	4	1400	56J11-G2	138	N			56TB1-B 3	138	N			2	1
AA 24	4	600	56J11-G2	138	N			56J11-P6	138	N			1	1
AA 25	4	600	56J11-S4	138	N			56J11-S5	138	N			1	1
AA 26	4	600	56J11-P6	138	N			56J11-R6	138	N			2	2
AA 27	4	1400	56J11-N6	138	N			56TB1-D 5	138	N			2	1
AA 28K	4	1400	56J11-L2	138	N			56TB1-C 2	138	N			2	2
AA 28L	4	1400	56J11-M2	138	N			56TB1-C 2	138	N			1	1
AA 28R	4	1400	56J11-M1	138	N			56TB1-D 2	138	N			1	1
AA 28W	4	1400	56J11-L1	138	N			56TB1-D 2	138	N			2	2
AA 29K	4	1400	56J11-B5	138	N			56TB1-B 7	138	N			2	2
AA 29L	4	1400	56J11-A6	138	N			56TB1-A 8	138	N			2	1
AA 29R	4	1400	56J11-A5	138	N			56TB1-A 7	138	N			2	1
AA 29W	4	1400	56J11-B6	138	N			56TB1-B 8	138	N			2	2
AA 30R	4	1400	56J11-D6	138	N			56TB1-D 3	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 8

MIL 2075 3-63 WIR-R01

05258

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR			FROM					TO						
INDIVIDUAL LENGTH NUMBER	ITEM NO.	2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 44	4	1700	56J11-R1	138	N			56TB2-M 2	138	N			2	3
AA 45	4	1700	56J11-R2	138	N			56TB2-M 3	138	N			2	3
AA 46	4	1400	56J11-P6	138	N			56TB1-S 3	138	N			3	3
AA 47	4	1100	56J12-B6	138	N			56J14-H6	138	N			1	1
AA 48R	4	1400	56J12-K2	138	N			56J15-R4	138	N			2	1
AA 48W	4	1400	56J12-H2	138	N			56J15-S4	138	N			2	1
AA 49R	4	1400	56J12-P3	138	N			56J15-P5	138	N			2	2
AA 49W	4	1400	56J12-N3	138	N			56J15-P6	138	N			2	2
AA 50R	4	1400	56J12-P5	138	N			56J15-N5	138	N			1	1
AA 50W	4	1400	56J12-N5	138	N			56J15-N6	138	N			2	1
AA 51	4	2600	56J12-S6	138	N			56J20-N5	138	N			1	2
AA 52R	4	2600	56J12-K4	138	N			56J20-G6	138	N			1	2
AA 52W	4	2600	56J12-H4	138	N			56J20-G5	138	N			2	2
AA 53	4	2600	56J12-G4	138	N			56J20-L6	138	N			1	1
AA 54	4	2600	56J12-S1	138	N			56J20-M1	138	N			2	3
AA 55	4	2600	56J12-S2	138	N			56J20-M2	138	N			2	3
AA 56	4	1600	56J12-H5	138	N			56J16-M2	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 10

MIL 2075 3-63 WIR-RO1

05260

WIRE LIST AA

CONDUCTOR			FROM					TO						
INDIVIDUAL LENGTH NUMBER	ITEM NO.	2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 57	4	1600	56J12-H6	138	N			56J16-M3	138	N			1	1
AA 58	4	1600	56J12-G6	138	N			56J16-N3	138	N			1	1
AA 59	4	1600	56J12-G5	138	N			56J16-R2	138	N			2	1
AA 60L	4	1100	56J12-P1	138	N			56TB1-H 3	138	N			2	1
AA 60R	4	1100	56J12-R1	138	N			56TB1-H 2	138	N			1	1
AA 60W	4	1100	56J12-P2	138	N			56TB1-G 2	138	N			1	1
AA 61	4	600	56J12-N1	138	N			56J12-P1	138	N			1	1
AA 62	4	600	56J12-H4	138	N			56J12-N2	138	N			1	1
AA 63R	4	1100	56J12-N6	138	N			56TB1-G 7	138	N			2	1
AA 63W	4	1100	56J12-P6	138	N			56TB1-H 7	138	N			2	1
AA 64R	4	1100	56J12-P5	138	N			56TB1-G 4	138	N			2	1
AA 64W	4	1100	56J12-N4	138	N			56TB1-H 4	138	N			2	1
AA 65	4	600	56J12-N4	138	N			56J12-N5	138	N			1	1
AA 66	4	2400	56J12-R6	138	N			56TB3-L20	138	N			1	1
AA 67	4	600	56J12-F1	138	N			56E 31	20	N	7		2	
AA 68	4	600	56J12-F1	138	N			56J12-F2	138	N			1	1
AA 69	4	600	56J12-F2	138	N			56E 29	20	N	8		2	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 11

MIL 2075 3-63 WIR-RO1

05261

WIRE LIST AA

CONDUCTOR			FROM					TO						
INDIVIDUAL LENGTH NUMBER	ITEM NO.	2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 30W	4	1400	56J11-D5	138	N			56TB1-D 4	138	N			1	1
AA 31	4	600	56J11-R5	138	N			56J11-R6	138	N			1	1
AA 32R	4	1400	56J11-F6	138	N			56TB1-A 4	138	N			1	1
AA 32W	4	1400	56J11-G6	138	N			56TB1-A 3	138	N			1	1
AA 33	4	600	56J11-R6	138	N			56J11-S6	138	N			3	1
AA 34R	4	1400	56J11-H6	138	N			56TB1-A 2	138	N			1	1
AA 34W	4	1400	56J11-H5	138	N			56TB1-B 2	138	N			1	1
AA 35	4	1400	56J11-L3	138	N			56TB1-D 6	138	N			1	1
AA 36	4	600	56J11-M5	138	N			56E 28	20	N	8		2	
AA 37	4	600	56J11-M5	138	N			56J11-P3	138	N			1	1
AA 38	4	600	56J11-P2	138	N			56J11-R3	138	N			1	1
AA 39	4	600	56J11-P3	138	N			56J11-R3	138	N			2	2
AA 40	4	600	56J11-S1	138	N			56J11-S2	138	N			1	1
AA 41	4	600	56J11-R1	138	N			56J11-R2	138	N			1	1
AA 42R	4	1400	56J11-G3	138	N			56TB1-B 6	138	N			1	1
AA 42W	4	1400	56J11-F3	138	N			56TB1-C 6	138	N			1	1
AA 43	4	1700	56J11-R3	138	N			56TB2-M 1	138	N			3	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 9

MIL 2075 3-63 WIR-RO1

05259

WIRE LIST AA

CONDUCTOR			FROM					TO						
INDIVIDUAL LENGTH NUMBER	ITEM NO.	2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 70	5	2800		300	275	8			50	25	9			
AA 70A	4	600	SHLD AA 70	20	N			56J12-H1	138	N				2
AA 70L			56J12-K1	138	N			56J21- 70	10	N	6		1	1
AA 70R			56J12-H1	138	N			56J21- 71	10	N	6		1	1
AA 71	4	600	56J12-G5	138	N			56J12-R5	138	N			1	1
AA 72	4	900	56J12-K3	138	N			56J13-C6	138	N			2	2
AA 73L	4	1100	56J12-K6	138	N			56J14-R2	138	N			1	2
AA 73R	4	1100	56J12-L6	138	N			56J14-S2	138	N			1	2
AA 73W	4	1100	56J12-M6	138	N			56J14-S3	138	N			1	1
AA 74	4	2700	56J12-G3	138	N			56J22-244	10	N	6		1	1
AA 75	4	900	56J12-A5	138	N			56J13-D2	138	N			1	1
AA 76	4	900	56J12-A6	138	N			56J13-F2	138	N			1	1
AA 77	4	600	56J12-B5	138	N			56E 34	20	N	7		1	
AA 78	4	1100	56J12-M3	138	N			56TB1-H 5	138	N			1	1
AA 79	4	1100	56J12-M4	138	N			56TB1-G 5	138	N			1	1
AA 80	4	1100	56J12-M1	138	N			56TB1-H 6	138	N			2	1
AA 81	4	2700	56J12-M1	138	N			56J21- 36	10	N	6		1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 12

MIL 2075 3-63 WIR-RO1

05262

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	ω-ω FR	TO
AA 98	4	1100	56J12-R5	138	N				56TB1-S 6	138	N				3	2
AA 99	4	1100	56J12-R2	138	N				56TB1-N 5	138	N				2	2
AA100	4	1100	56J12-R4	138	N				56TB1-N 8	138	N				3	2
AA101	4	900	56J13-N5	138	N				56J14-H3	138	N				1	1
AA102	4	900	56J13-N6	138	N				56J14-K3	138	N				1	1
AA103	4	900	56J13-H6	138	N				56J14-G1	138	N				1	1
AA104	4	900	56J13-A6	138	N				56J14-A6	138	N				1	1
AA105R	4	900	56J13-L6	138	N				56J14-K1	138	N				1	1
AA105W	4	900	56J13-K6	138	N				56J14-H1	138	N				1	1
AA106	4	900	56J13-C6	138	N				56J14-H5	138	N				1	1
AA107	4	900	56J13-S6	138	N				56J14-S6	138	N				1	1
AA108	4	900	56J13-R6	138	N				56J14-R6	138	N				1	1
AA109R	4	900	56J13-R2	138	N				56J14-R1	138	N				1	1
AA109W	4	900	56J13-S2	138	N				56J14-S1	138	N				1	1
AA110R	4	900	56J13-R3	138	N				56J14-R5	138	N				2	1
AA110W	4	900	56J13-S3	138	N				56J14-S5	138	N				2	1
AA111R	4	900	56J13-R4	138	N				56J14-R4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 14

MIL 2075 3-63 WIR-RO1

05264

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	ω-ω FR	TO
AA111W	4	900	56J13-S4	138	N				56J14-S4	138	N				1	1
AA112R	4	900	56J13-R1	138	N				56J14-R2	138	N				1	1
AA112W	4	900	56J13-S1	138	N				56J14-S2	138	N				1	1
AA113	4	900	56J13-P6	138	N				56J14-P6	138	N				2	1
AA114	4	1100	56J13-D1	138	N				56J15-L4	138	N				1	1
AA115	4	1100	56J13-F1	138	N				56J15-M4	138	N				1	1
AA116	4	1100	56J13-D3	138	N				56J15-L3	138	N				1	1
AA117	4	1100	56J13-F3	138	N				56J15-M3	138	N				1	1
AA118R	4	1400	56J13-B1	138	N				56TB1-M 6	138	N				1	1
AA118W	4	1400	56J13-A1	138	N				56TB1-M 7	138	N				1	1
AA119	1	1400		300		275	10			300		275	7			
AA119B	4	600	56TB1-N 5	138	N				SHLD AA119	20	N				1	
AA119L			56J13-L1	138	N				56TB1-L 5	138	N				1	1
AA119R			56J13-H1	138	N				56TB1-M 5	138	N				1	1
AA119W			56J13-K1	138	N				56TB1-L 6	138	N				1	1
AA120	4	1400	56J13-D2	138	N				56TB1-L 2	138	N				2	1
AA121R	4	1400	56J13-B3	138	N				56TB1-N 2	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 15

MIL 2075 3-63 WIR-RO1

05265

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	ω-ω FR	TO
AA 82	4	2400	56J12-L1	138	N				56TB3-M22	138	N				1	1
AA 83	4	1100	56J12-L2	138	N				56TB1-H 8	138	N				1	1
AA 87	4	600	56J12-S1	138	N				56J12-S3	138	N				1	1
AA 88	4	600	56J12-S2	138	N				56J12-S4	138	N				1	1
AA 89	4	600	56J12-R2	138	N				56J12-R3	138	N				1	1
AA 90	4	600	56J12-R3	138	N				56J12-R4	138	N				2	1
AA 91	4	600	56J12-R4	138	N				56E 31	20	N				2	
AA 92	5	1800		300		275	9			300		275	8			
AA 92B	4		56E 27	20	N		7		SHLD AA 92	20	N					
AA 92L			56J12-P4	138	N				56J17-R3	138	N				2	1
AA 92R			56J12-P4	138	N				56J17-R3	138	N				3	3
AA 94R	4	1800	56J12-N6	138	N				56J17-N3	138	N				1	1
AA 94W	4	1800	56J12-P6	138	N				56J17-P3	138	N				1	1
AA 95R	4	900	56J12-L5	138	N				56J13-R3	138	N				1	1
AA 95W	4	900	56J12-M5	138	N				56J13-S3	138	N				1	1
AA 96	4	900	56J12-R5	138	N				56J13-R6	138	N				2	2
AA 97	4	1800	56J12-F3	138	N				56J17-M3	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 13

MIL 2075 3-63 WIR-RO1

05263

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	ω-ω FR	TO
AA121W	4	1400	56J13-A3	138	N				56TB1-M 3	138	N				1	1
AA122	1	1400		300		275	10			300		275	7			
AA122B	4	600	56TB1-N 4	138	N				SHLD AA122	20	N				2	
AA122L			56J13-N3	138	N				56TB1-M 4	138	N				1	1
AA122R			56J13-L3	138	N				56TB1-L 4	138	N				1	1
AA122W			56J13-M3	138	N				56TB1-L 3	138	N				1	1
AA123	4	1400	56J13-F2	138	N				56TB1-M 2	138	N				2	1
AA124	1	1400		300		275	10			300		275	7			
AA124B	4	600	56TB1-N 8	138	N				SHLD AA124	20	N				1	
AA124L			56J13-G6	138	N				56TB1-L 7	138	N				1	1
AA124R			56J13-D6	138	N				56TB1-M 8	138	N				1	1
AA124W			56J13-F6	138	N				56TB1-L 8	138	N				1	1
AA125	4	600	56J13-R6	138	N				56E 34	20	N				3	
AA126R	4	1600	56J14-A2	138	N				56TB1-T 4	138	N				1	1
AA126W	4	1600	56J14-A1	138	N				56TB1-T 5	138	N				1	1
AA127	1	1600		300		275	10			300		275	7			
AA127B	4	600	56TB1-S 4	138	N				SHLD AA127	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 16

MIL 2075 3-63 WIR-RO1

05266

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA134R	4	2300	56E 33	20	N				56J21-167	10	N		6			1
AA134W	4	2300	56J14-D5	138	N				56J21-168	10	N		6		1	1
AA135R	4	2300	56J14-D6	138	N				56J21-135	10	N		6		1	1
AA135W	4	2300	56E 33	20	N				56J21-134	10	N		6			1
AA136	1	1600		300		275	10			300		275	7			
AA136B	4	600	56TB1-S 8	138	N				SHLD AA136	20	N				3	
AA136L			56J14-M6	138	N				56TB1-U 8	138	N				1	1
AA136R			56J14-L6	138	N				56TB1-T 8	138	N				1	1
AA136W			56J14-N6	138	N				56TB1-U 7	138	N				1	1
AA137	4	600	56J14-R6	138	N				56E 33	20	N				3	
AA138	4	900	56J14-H3	138	N				56J15-L1	138	N				2	1
AA139	4	900	56J14-C5	138	N				56J15-N4	138	N				1	1
AA140	4	900	56J14-C6	138	N				56J15-P4	138	N				1	1
AA141	4	900	56J14-C3	138	N				56J15-N3	138	N				1	1
AA142	4	900	56J14-C4	138	N				56J15-P3	138	N				1	1
AA143	4	900	56J14-C1	138	N				56J15-N2	138	N				1	1
AA144	4	900	56J14-C2	138	N				56J15-P2	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 18

MIL 2075 3-63 WIR-R01

05268

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA145	4	900	56J14-H4	138	N				56J15-M1	138	N				1	1
AA146	4	900	56J14-K3	138	N				56J15-N1	138	N				2	1
AA147	4	900	56J14-K4	138	N				56J15-P1	138	N				1	1
AA148	4	900	56J14-F6	138	N				56J15-L2	138	N				1	1
AA149	4	900	56J14-G6	138	N				56J15-M2	138	N				1	1
AA150R	4	900	56J14-R1	138	N				56J15-R5	138	N				2	2
AA150W	4	900	56J14-S1	138	N				56J15-S5	138	N				2	2
AA151	4	900	56J14-H5	138	N				56J15-K3	138	N				2	2
AA152	4	900	56J14-S6	138	N				56J15-S2	138	N				2	1
AA153	4	900	56J14-R6	138	N				56J15-R2	138	N				2	1
AA154R	4	1400	56J14-R4	138	N				56J17-S5	138	N				2	1
AA154W	4	1400	56J14-S4	138	N				56J17-T5	138	N				2	1
AA155K	3	1800	56J15-B2	88	N				56TB1-B 7	138	N				1	1
AA155L	3	1800	56J15-B1	88	N				56TB1-C 7	138	N				1	1
AA155R	3	1800	56J15-A2	88	N				56TB1-B 8	138	N				1	1
AA155W	3	1800	56J15-A1	88	N				56TB1-C 8	138	N				1	1
AA156	4	1500	56J15-R1	138	N				56TB2-C 2	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 19

MIL 2075 3-63 WIR-R01

05269

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA127L			56J14-P2	138	N				56TB1-U 3	138	N				1	1
AA127R			56J14-P1	138	N				56TB1-U 4	138	N				1	1
AA127W			56J14-P3	138	N				56TB1-T 3	138	N				1	1
AA128	4	1600	56J14-H6	138	N				56TB1-T 7	138	N				2	1
AA129R	4	2300	56J14-D1	138	N				56J21- 67	10	N		6		1	1
AA129W	4	2300	56E 33	20	N		8		56J21- 66	10	N		6			1
AA130R	4	2300	56E 33	20	N				56J21- 32	10	N		6			1
AA130W	4	2300	56J14-D2	138	N				56J21- 33	10	N		6		1	1
AA131R	4	2300	56J14-D3	138	N				56J21-240	10	N		6		1	1
AA131W	4	2300	56E 33	20	N				56J21-239	10	N		6			1
AA132R	4	2300	56J14-D4	138	N				56J21-202	10	N		6		1	1
AA132W	4	2300	56E 33	20	N				56J21-201	10	N		6			1
AA133	1	1600		300		275	10			300		275	7			
AA133B	4	600	56TB1-S 5	138	N				SHLD AA133	20	N				1	
AA133L			56J14-M2	138	N				56TB1-U 6	138	N				1	1
AA133R			56J14-M1	138	N				56TB1-T 6	138	N				1	1
AA133W			56J14-M3	138	N				56TB1-U 5	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 17

MIL 2075 3-63 WIR-R01

05267

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA157R	4	2100	56J15-R2	138	N				56J21-101	10	N		6		2	1
AA157W	4	2100	56J15-P1	138	N				56J21-102	10	N		6		2	1
AA158	4	600	56J15-L5	138	N				56E 35	20	N		7		1	
AA159	4	600	56J15-L5	138	N				56E 36	20	N		7		2	
AA160	4	600	56J15-L5	138	N				56E 37	20	N		7		3	
AA161L	3	1500	56J15-D1	88	N				56TB2-C 5	138	N				1	1
AA161R	3	1500	56J15-C1	88	N				56TB2-A 5	138	N				1	1
AA161W	3	1500	56J15-C2	88	N				56TB2-B 5	138	N				1	1
AA162L	3	1500	56J15-F2	88	N				56TB2-C 6	138	N				1	1
AA162R	3	1500	56J15-D2	88	N				56TB2-A 6	138	N				1	1
AA162W	3	1500	56J15-F1	88	N				56TB2-B 6	138	N				1	1
AA163L	3	1500	56J15-C3	88	N				56TB2-C 4	138	N				1	1
AA163R	3	1500	56J15-D3	88	N				56TB2-A 4	138	N				1	1
AA163W	3	1500	56J15-D4	88	N				56TB2-B 4	138	N				1	1
AA164	3	600	56J15-A5	88	N				56E 38	20	N		7		2	
AA165	3	600	56J15-A7	88	N				56E 40	20	N		7		3	
AA166	3	600	56J15-A9	88	N				56E 42	20	N		7		3	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 20

MIL 2075 3-63 WIR-R01

05270

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA177	4	1500	56J15-R6	138	N				56TB2-D 1	138	N				1	1
AA178	4	1800	56J15-H5	138	N				56J20-H4	138	N				1	1
AA179	4	1800	56J15-S2	138	N				56J20-K1	138	N				2	1
AA180R	3	900	56J15-A4	88	N				56J16-B2	88	N				1	1
AA180W	3	900	56J15-A5	88	N				56J16-B1	88	N				1	1
AA181R	3	900	56J15-A6	88	N				56J16-B4	88	N				1	1
AA181W	3	900	56J15-A7	88	N				56J16-B3	88	N				1	1
AA182R	3	900	56J15-A8	88	N				56J16-B6	88	N				1	1
AA182W	3	900	56J15-A9	88	N				56J16-B5	88	N				1	1
AA183	4	900	56J15-S1	138	N				56J16-L2	138	N				1	1
AA184	4	900	56J15-H4	138	N				56J16-L1	138	N				1	1
AA185R	4	900	56J15-P5	138	N				56J16-S3	138	N				1	1
AA185W	4	900	56J15-P6	138	N				56J16-S4	138	N				1	1
AA186	4	900	56J15-S6	138	N				56J16-S2	138	N				1	1
AA187	4	900	56J15-K3	138	N				56J16-N4	138	N				1	1
AA188R	4	1100	56J15-R5	138	N				56J17-L4	138	N				1	1
AA188W	4	1100	56J15-S5	138	N				56J17-L5	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 22

MIL 2075 3-63 WIR-RO1

05272

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA189	4	1600	56J16-S5	138	N				56J20-N5	138	N				1	1
AA190	4	1600	56J16-S6	138	N				56J20-N6	138	N				1	1
AA191R	4	1600	56J16-N5	138	N				56J20-L3	138	N				2	1
AA191W	4	1600	56J16-P5	138	N				56J20-K3	138	N				2	1
AA192R	4	1600	56J16-N6	138	N				56J20-M4	138	N				1	1
AA192W	4	1600	56J16-P6	138	N				56J20-L4	138	N				1	1
AA193	4	1600	56J16-S2	138	N				56J20-K2	138	N				2	2
AA194R	3	1700	56J16-D2	88	N				56TB2-G 3	138	N				1	1
AA194W	3	1700	56J16-D1	88	N				56TB2-H 3	138	N				1	1
AA195R	3	1700	56J16-D2	88	N				56TB2-G 2	138	N				2	3
AA195W	3	1700	56J16-C2	88	N				56TB2-H 2	138	N				1	2
AA196R	3	1700	56J16-D2	88	N				56TB2-G 1	138	N				3	1
AA196W	3	1700	56J16-C1	88	N				56TB2-H 1	138	N				1	1
AA197	1	1700		250		225	7			300		275	1			
AA197A	4	600	SHLD AA197	20	N				56J16-B1	88	N					2
AA197L			56J16-B1	88	N				56TB2-T 7	138	N				3	1
AA197R			56J16-A1	88	N				56TB2-U 6	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 23

MIL 2075 3-63 WIR-RO1

05273

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA167	3	600	56J15-A5	88	N				56E 39	20	N		8		3	
AA168	3	600	56J15-A7	88	N				56E 41	20	N		8		2	
AA169	3	600	56J15-A9	88	N				56E 43	20	N		8		2	
AA170	4	1500	56J15-H4	138	N				56TB2-C 1	138	N				2	1
AA171L	3	1500	56J15-F7	88	N				56TB2-C 8	138	N				1	1
AA171R	3	1500	56J15-D7	88	N				56TB2-B 8	138	N				1	1
AA171W	3	1500	56J15-D8	88	N				56TB2-A 8	138	N				1	1
AA172L	3	1500	56J15-D9	88	N				56TB2-C 7	138	N				1	1
AA172R	3	1500	56J15-F9	88	N				56TB2-B 7	138	N				1	1
AA172W	3	1500	56J15-F8	88	N				56TB2-A 7	138	N				1	1
AA173	4	1500	56J15-S1	138	N				56TB2-B 2	138	N				2	1
AA174	4	1500	56J15-S3	138	N				56TB2-B 1	138	N				1	1
AA175	4	2100	56J15-S3	138	N				56J22-227	10	N		6		2	1
AA176	5	1500		250		225	11			300		275	7			
AA176B	4	600	56TB2-D 3	138	N				SHLD AA176	20	N				1	
AA176L			56J15-B3	88	N				56TB2-D 2	138	N				1	1
AA176R			56E 59	20	N		7		56TB2-F 3	138	N					2

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 21

MIL 2075 3-63 WIR-RO1

05271

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA197W			56J16-A2	88	N				56TB2-T 6	138	N				1	1
AA198R	4	1700	56J16-P1	138	N				56TB2-L 6	138	N				1	1
AA198W	4	1700	56J16-R1	138	N				56TB2-L 5	138	N				1	1
AA199R	3	1700	56J16-D4	88	N				56TB2-G 6	138	N				1	1
AA199W	3	1700	56J16-D3	88	N				56TB2-H 6	138	N				1	1
AA200R	3	1700	56J16-D4	88	N				56TB2-G 7	138	N				2	3
AA200W	3	1700	56J16-C4	88	N				56TB2-H 7	138	N				1	2
AA201R	3	1700	56J16-D4	88	N				56TB2-G 8	138	N				3	1
AA201W	3	1700	56J16-C3	88	N				56TB2-H 8	138	N				1	1
AA202	1	1700		250		225	7			300		275	1			
AA202A	4	600	SHLD AA202	20	N				56J16-B3	88	N					2
AA202L			56J16-B3	88	N				56TB2-X 6	138	N				3	1
AA202R			56J16-A3	88	N				56TB2-W 5	138	N				1	1
AA202W			56J16-A4	88	N				56TB2-X 5	138	N				1	1
AA203R	4	1700	56J16-P3	138	N				56TB2-K 3	138	N				1	1
AA203W	4	1700	56J16-R3	138	N				56TB2-L 3	138	N				1	1
AA204L	3	1700	56J16-C9	88	N				56TB2-R 8	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 24

MIL 2075 3-63 WIR-RO1

05274

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA213L	3	1700	56J16-F9	88	N				56TB2-X 2	138	N				1	1
AA213R	3	1700	56J16-D9	88	N				56TB2-W 2	138	N				1	1
AA213W	3	1700	56J16-D8	88	N				56TB2-X 3	138	N				1	1
AA214	1	1700		250		225	7			300		275	1			
AA214A	4	600	SHLD AA214	20	N				56J16-B5	88	N					2
AA214L			56J16-B5	88	N				56TB2-R 7	138	N				3	1
AA214R			56J16-A5	88	N				56TB2-N 6	138	N				1	1
AA214W			56J16-A6	88	N				56TB2-R 6	138	N				1	1
AA215R	4	1700	56J16-N2	138	N				56TB2-K 5	138	N				1	1
AA215W	4	1700	56J16-N1	138	N				56TB2-K 6	138	N				1	1
AA216	3	1700	56J16-F2	88	N				56TB2-W 1	138	N				1	1
AA217	3	1700	56J16-F4	88	N				56TB2-X 1	138	N				1	1
AA218	3	1700	56J16-F6	88	N				56TB2-S 1	138	N				1	1
AA219	3	1700	56J16-F5	88	N				56TB2-T 1	138	N				1	1
AA220	4	1900	56J16-L1	138	N				56J22-228	10	N		6		2	1
AA221	4	1700	56J16-M1	138	N				56TB2-R 4	138	N				1	1
AA222K	4	1700	56J16-R4	138	N				56TB2-H 5	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 26

MIL 2075 3-63 WIR-R01

05276

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA222L	4	1700	56J16-S3	138	N				56TB2-H 4	138	N				2	1
AA222R	4	1700	56J16-S4	138	N				56TB2-G 4	138	N				2	1
AA222W	4	1700	56J16-P4	138	N				56TB2-G 5	138	N				1	1
AA223	4	1700	56J16-P2	138	N				56TB2-K 4	138	N				1	2
AA224R	4	1700	56J16-N5	138	N				56TB2-L 1	138	N				3	2
AA224W	4	1700	56J16-P5	138	N				56TB2-K 1	138	N				3	2
AA225R	4	1700	56J16-N6	138	N				56TB2-T 2	138	N				2	2
AA225W	4	1700	56J16-P6	138	N				56TB2-U 3	138	N				2	1
AA226	5	1900		300		275	8			50		25	9			
AA226A			SHLD AA226	20	N				56E 30	20	N		7			
AA226L			56J16-L3	138	N				56J21- 35	10	N		6		1	1
AA226R			56J16-L4	138	N				56J21- 34	10	N		6		2	1
AA227	5	1900		300		275	8			50		25	9			
AA227A			SHLD AA227	20	N				56E 30	20	N					
AA227L			56J16-L3	138	N				56J21- 69	10	N		6		2	1
AA227R			56J16-M4	138	N				56J21- 68	10	N		6		2	1
AA228	4	1500	56J16-R5	138	N				56TB3-L20	138	N				1	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 27

MIL 2075 3-63 WIR-R01

05277

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA204R	3	1700	56J16-C8	88	N				56TB2-N 7	138	N				1	1
AA204W	3	1700	56J16-B8	88	N				56TB2-N 8	138	N				1	1
AA205L	3	1700	56J16-B9	88	N				56TB2-T 8	138	N				1	1
AA205R	3	1700	56J16-A9	88	N				56TB2-U 8	138	N				1	1
AA205W	3	1700	56J16-A8	88	N				56TB2-U 7	138	N				1	1
AA206R	3	1700	56J16-D6	88	N				56TB2-R 1	138	N				1	1
AA206W	3	1700	56J16-D5	88	N				56TB2-N 1	138	N				1	1
AA207R	3	1700	56J16-D6	88	N				56TB2-R 2	138	N				2	3
AA207W	3	1700	56J16-C6	88	N				56TB2-N 2	138	N				1	2
AA208R	3	1700	56J16-C5	88	N				56TB2-N 3	138	N				1	1
AA208W	3	1700	56J16-D6	88	N				56TB2-R 3	138	N				3	2
AA209L	3	1700	56J16-F8	88	N				56TB2-X 4	138	N				1	1
AA209R	3	1700	56J16-D7	88	N				56TB2-W 3	138	N				1	1
AA209W	3	1700	56J16-F7	88	N				56TB2-W 4	138	N				1	1
AA210	4	1700	56J16-S1	138	N				56TB2-N 5	138	N				1	1
AA211	4	1700	56J16-T1	138	N				56TB2-R 5	138	N				1	1
AA212	4	1700	56J16-T2	138	N				56TB2-K 8	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 25

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA229	4	1500	56J16-R6	138	N				56TB3-L20	138	N				1	3
AA230L	4	1700	56J16-G2	138	N				56TB2-W 7	138	N				1	1
AA230R	4	1700	56J16-H1	138	N				56TB2-X 7	138	N				1	1
AA230W	4	1700	56J16-G1	138	N				56TB2-W 6	138	N				1	1
AA231L	4	1700	56J16-G4	138	N				56TB2-U 4	138	N				1	1
AA231R	4	1700	56J16-H3	138	N				56TB2-T 5	138	N				1	1
AA231W	4	1700	56J16-G3	138	N				56TB2-U 5	138	N				1	1
AA232	1	1800		300		275	7			300		275	7			
AA232A	4	600	SHLD AA232	20	N				56E 30	20	N					
AA232B	4	600	56E 31	20	N				SHLD AA232	20	N					
AA232L			56J16-L4	138	N				56J12-D1	138	N				1	1
AA232R			56J16-M4	138	N				56J12-D2	138	N				1	1
AA232W			56J16-L3	138	N				56E 31	20	N				3	
AA233R	4	1100	56J16-N5	138	N				56J18-S6	138	N				1	1
AA233W	4	1100	56J16-P5	138	N				56J18-T6	138	N				1	1
AA234	4	900	56J16-N4	138	N				56J17-L6	138	N				2	2
AA235	4	1400	56J17-P6	138	N				56TB3-F 3	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 28

MIL 2075 3-63 WIR-R01

05278

INCHES

0 1 2

PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA245B	4	600	56J22- 5	10	N		6		SHLD AA245	20	N				1	
AA245L			56J17-C4	88	N				56J22- 6	10	N		6		1	1
AA245R			56J17-D4	88	N				56J22- 43	10	N		6		1	1
AA246	5	1600		225		250	9			50		25	8			
AA246B	4	600	56J22- 8	10	N		6		SHLD AA246	20	N				1	
AA246L			56J17-C3	88	N				56J22- 45	10	N		6		1	1
AA246R			56J17-D3	88	N				56J22- 46	10	N		6		1	1
AA247R	3	1400	56J17-D2	88	N				56TB3-R 4	138	N				1	1
AA247W	3	1400	56J17-D3	88	N				56TB3-R 5	138	N				2	1
AA248	4	1400	56J17-S2	138	N				56TB3-T 3	138	N				2	3
AA249	3	1400	56J17-F8	88	N				56TB3-L 2	138	N				1	1
AA250R	4	1400	56J17-P4	138	N				56TB3-C 2	138	N				1	1
AA250W	4	1400	56J17-R4	138	N				56TB3-D 2	138	N				1	1
AA251	3	1400	56J17-D8	88	N				56TB3-M 2	138	N				1	1
AA252	3	1400	56J17-B7	88	N				56TB3-H 3	138	N				1	1
AA253	3	1400	56J17-B8	88	N				56TB3-G 3	138	N				1	1
AA254	3	1400	56J17-C7	88	N				56TB3-G 4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 30

MIL 2075 3-63 WIR-RO1

05280

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA255	3	1400	56J17-D6	88	N				56TB3-M 5	138	N				1	1
AA256	3	1400	56J17-D7	88	N				56TB3-M 4	138	N				1	1
AA257	3	1400	56J17-F7	88	N				56TB3-C 1	138	N				1	1
AA258K	4	1400	56J17-N6	138	N				56TB3-G 1	138	N				1	1
AA258L	4	1400	56J17-N5	138	N				56TB3-G 2	138	N				1	1
AA258R	4	1400	56J17-M6	138	N				56TB3-H 1	138	N				1	1
AA258W	4	1400	56J17-M5	138	N				56TB3-H 2	138	N				1	1
AA259	4	1400	56J17-H1	138	N				56TB3-K 2	138	N				1	1
AA260	4	1400	56J17-H2	138	N				56TB3-K 1	138	N				1	1
AA261	4	1400	56J17-G1	138	N				56TB3-K 5	138	N				1	1
AA262	4	1400	56J17-G2	138	N				56TB3-H 5	138	N				1	1
AA263	4	1400	56J17-L1	138	N				56TB3-L 5	138	N				1	1
AA264	4	1400	56J17-M1	138	N				56TB3-D 1	138	N				1	1
AA265	5	1400		300		275	9			300		275	8			
AA265B	4	600	56TB3-S 3	138	N				SHLD AA265	20	N				2	
AA265L			56J17-M4	138	N				56TB3-N 1	138	N				1	1
AA265R			56J17-N4	138	N				56TB3-N 2	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 31

MIL 2075 3-63 WIR-RO1

05281

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA236	4	1400	56J17-T4	138	N				56J20-M1	138	N				1	2
AA237	4	1400	56J17-T3	138	N				56J20-M2	138	N				1	2
AA238	4	1400	56J17-T1	138	N				56J20-P3	138	N				2	1
AA239	4	1400	56J17-T2	138	N				56J20-P4	138	N				2	1
AA240	4	900	56J17-T6	138	N				56J18-S1	138	N				1	1
AA241	4	900	56J17-L6	138	N				56J18-R5	138	N				1	1
AA242L	4	900	56J17-K4	138	N				56J18-K1	138	N				1	1
AA242R	4	900	56J17-G4	138	N				56J18-L1	138	N				1	1
AA242W	4	600	56J17-H4	138	N				56E 53	20	N		7		1	
AA243L	4	900	56J17-K6	138	N				56J18-K4	138	N				1	1
AA243R	4	900	56J17-G6	138	N				56J18-L4	138	N				1	1
AA243W	4	600	56J17-H6	138	N				56E 51	20	N		7		1	
AA244	5	1600		250		225	9			50		25	8			
AA244B	4	600	56J22- 41	10	N		6		SHLD AA244	20	N				1	
AA244L			56J17-A4	88	N				56J22- 3	10	N		6		1	1
AA244R			56J17-B4	88	N				56J22- 4	10	N		6		1	1
AA245	5	1600		250		225	9			50		25	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 29

MIL 2075 3-63 WIR-RO1

05279

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA266	3	1400	56J17-C5	88	N				56TB3-K 3	138	N				1	1
AA267	3	1400	56J17-B6	88	N				56TB3-L 4	138	N				1	1
AA268	3	1400	56J17-B5	88	N				56TB3-L 3	138	N				1	1
AA269	3	1400	56J17-D5	88	N				56TB3-M 1	138	N				1	1
AA270	5	1400		300		275	9			300		275	8			
AA270B	4	600	56TB3-N 3	138	N				SHLD AA270	20	N				1	
AA270L			56J17-N1	138	N				56TB3-N 4	138	N				1	1
AA270R			56J17-P1	138	N				56TB3-N 5	138	N				1	1
AA271	3	1400	56J17-F6	88	N				56TB3-C 4	138	N				1	1
AA272	3	1400	56J17-F5	88	N				56TB3-D 4	138	N				1	1
AA273	3	1400	56J17-F4	88	N				56TB3-C 5	138	N				1	1
AA274	3	1400	56J17-F3	88	N				56TB3-D 5	138	N				1	1
AA275	4	1400	56J17-P5	138	N				56TB3-D 3	138	N				1	1
AA276	3	1400	56J17-C6	88	N				56TB3-H 4	138	N				1	1
AA277	4	1400	56J17-M2	138	N				56TB3-G 5	138	N				1	1
AA278	4	1400	56J17-M3	138	N				56TB3-F 1	138	N				2	1
AA280	4	1400	56J17-R5	138	N				56TB3-M21	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 32

MIL 2075 3-63 WIR-RO1

05282

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE	T/N	STRIP JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE	T/N	STRIP JACKET	TERMINATION SPEC ITEM NO.	NO.	ω-ω FR	ω-ω TO
AA324	4	600	56J18-T3	138	N				56J18-T4	138	N				1	1
AA325	4	1400	56J18-S3	138	N				56TB3-K20	138	N				2	1
AA326L	3	1400	56J18-F9	88	N				56TB3-M11	138	N				1	1
AA326R	3	1400	56J18-F8	88	N				56TB3-M12	138	N				1	1
AA326W	3	1400	56J18-D8	88	N				56TB3-M10	138	N				1	1
AA327	4	1400	56J18-T3	138	N				56TB3-K20	138	N				2	2
AA328L	4	1400	56J18-L6	138	N				56TB3-R12	138	N				1	1
AA328R	4	1400	56J18-L5	138	N				56TB3-S12	138	N				1	1
AA328W	4	1400	56J18-K6	138	N				56TB3-T12	138	N				1	1
AA329	5	1500		250		225	11			300		275	7			
AA329B	4	600	56TB3-H 9	138	N				SHLD AA329	20	N				3	
AA329L			56J19-C2	88	N				56TB3-H 8	138	N				1	1
AA329R			56J19-B2	88	N				56TB3-H 7	138	N				2	1
AA330R	3	1400	56J18-F2	88	N				56TB3-F10	138	N				2	1
AA330W	3	1400	56J18-F1	88	N				56TB3-G10	138	N				2	1
AA331	5	1500		250		225	11			300		275	7			
AA331B	4	600	56TB3-K 9	138	N				SHLD AA331	20	N				3	

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 38

MIL 2075 3-63 WIR-R01

05288

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE	T/N	STRIP JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE	T/N	STRIP JACKET	TERMINATION SPEC ITEM NO.	NO.	ω-ω FR	ω-ω TO
AA331L			56J19-B4	88	N				56TB3-H10	138	N				1	1
AA331R			56J19-B3	88	N				56TB3-H11	138	N				2	1
AA332R	4	1400	56J18-H1	138	N				56TB3-K11	138	N				1	1
AA332W	4	1400	56J18-G1	138	N				56TB3-K10	138	N				1	1
AA333	4	1400	56J18-R3	138	N				56TB3-K20	138	N				1	3
AA334R	3	1400	56J18-D6	88	N				56TB3-G13	138	N				1	1
AA334W	3	1400	56J18-C6	88	N				56TB3-G14	138	N				1	1
AA335R	3	1400	56J18-D7	88	N				56TB3-G12	138	N				1	1
AA335W	3	1400	56J18-C7	88	N				56TB3-G11	138	N				1	1
AA336R	3	1400	56J18-F7	88	N				56TB3-F12	138	N				1	1
AA336W	3	1400	56J18-F6	88	N				56TB3-F11	138	N				1	1
AA337	4	1400	56J18-R4	138	N				56TB3-B11	138	N				2	1
AA338R	3	1400	56J18-D4	88	N				56TB3-K 7	138	N				1	1
AA338W	3	1400	56J18-D5	88	N				56TB3-K 8	138	N				1	1
AA339	4	600	56J18-S5	138	N				56J18-T5	138	N				1	1
AA340R	4	1400	56J18-N1	138	N				56TB3-D 7	138	N				1	1
AA340W	4	1400	56J18-M1	138	N				56TB3-C 7	138	N				3	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 39

MIL 2075 3-63 WIR-R01

05289

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE	T/N	STRIP JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE	T/N	STRIP JACKET	TERMINATION SPEC ITEM NO.	NO.	ω-ω FR	ω-ω TO
AA315	5	1400		250		225	11			300		275	7			
AA315B	4	600	56TB3-M 9	138	N				SHLD AA315	20	N				3	
AA315L			56J18-A9	88	N				56TB3-M 8	138	N				1	1
AA315R			56J18-B9	88	N				56TB3-M 7	138	N				1	1
AA316	5	1400		250		225	11			300		275	7			
AA316B	4	600	56TB3-L 9	138	N				SHLD AA316	20	N				3	
AA316L			56J18-A8	88	N				56TB3-L 7	138	N				1	1
AA316R			56J18-A7	88	N				56TB3-L 8	138	N				1	1
AA317R	3	1400	56J18-B6	88	N				56TB3-L11	138	N				1	1
AA317W	3	1400	56J18-A6	88	N				56TB3-L10	138	N				1	1
AA318R	3	1400	56J18-F4	88	N				56TB3-K12	138	N				1	1
AA318W	3	1400	56J18-F3	88	N				56TB3-L12	138	N				1	1
AA319	4	1400	56J18-P1	138	N				56TB3-D12	138	N				1	1
AA320	4	1400	56J18-R1	138	N				56TB3-C12	138	N				1	1
AA321	4	1400	56J18-R2	138	N				56TB3-C11	138	N				1	1
AA322	4	1400	56J18-P2	138	N				56TB3-D11	138	N				1	1
AA323	4	600	56J18-S3	138	N				56J18-S4	138	N				1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 37

MIL 2075 3-63 WIR-R01

05287

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE	T/N	STRIP JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE	T/N	STRIP JACKET	TERMINATION SPEC ITEM NO.	NO.	ω-ω FR	ω-ω TO
AA341R	4	1400	56J18-N3	138	N				56TB3-D 8	138	N				1	1
AA341W	4	1400	56J18-M3	138	N				56TB3-C 8	138	N				3	1
AA342R	4	1400	56J18-N4	138	N				56TB3-B 7	138	N				1	1
AA342W	4	1400	56J18-M4	138	N				56TB3-B 8	138	N				3	1
AA343R	4	1400	56J18-N6	138	N				56TB3-D 9	138	N				1	1
AA343W	4	1400	56J18-M6	138	N				56TB3-D10	138	N				2	1
AA344R	4	1400	56J18-H3	138	N				56TB3-F 7	138	N				1	1
AA344W	4	1400	56J18-G3	138	N				56TB3-G 7	138	N				1	1
AA345R	4	1400	56J18-H2	138	N				56TB3-F 8	138	N				1	1
AA345W	4	1400	56J18-G2	138	N				56TB3-G 8	138	N				1	1
AA346	4	600	56J18-H2	138	N				56E 52	20	N		8		2	
AA347	4	600	56J18-H2	138	N				56E 53	20	N				3	
AA348	4	600	56J18-H3	138	N				56E 50	20	N		8		2	
AA349	4	600	56J18-H3	138	N				56E 51	20	N				3	
AA350	4	600	56J18-M1	138	N				56J18-P3	138	N				2	1
AA351	4	600	56J18-M1	138	N				56J18-M2	138	N				1	1
AA352	4	600	56J18-M2	138	N				56J18-M3	138	N				2	2

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 40

MIL 2075 3-63 WIR-R01

05290

INCHES 0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA366	4	600	56J19-S5	138	N			56J19-S6	138	N			1	1
AA367	4	1500	56J19-T6	138	N			56TB3-L22	138	N			2	2
AA368	4	600	56J19-T5	138	N			56J19-T6	138	N			1	1
AA369	4	1500	56J19-S5	138	N			56TB3-K22	138	N			2	2
AA370R	3	1500	56J19-B1	88	N			56TB3-T17	138	N			1	1
AA370W	3	1500	56J19-A1	88	N			56TB3-T16	138	N			1	1
AA371R	3	1500	56J19-A2	88	N			56TB3-S16	138	N			1	1
AA371W	3	1500	56J19-A3	88	N			56TB3-S17	138	N			1	1
AA372R	3	1500	56J19-A8	88	N			56TB3-R16	138	N			1	1
AA372W	3	1500	56J19-A9	88	N			56TB3-R17	138	N			1	1
AA373R	3	1500	56J19-C9	88	N			56TB3-N17	138	N			1	1
AA373W	3	1500	56J19-B9	88	N			56TB3-N16	138	N			1	1
AA374R	3	1500	56J19-D2	88	N			56TB3-M17	138	N			1	1
AA374W	3	1500	56J19-D1	88	N			56TB3-M16	138	N			1	1
AA375R	3	1500	56J19-B5	88	N			56TB3-H17	138	N			1	1
AA375W	3	1500	56J19-A5	88	N			56TB3-H16	138	N			1	1
AA376	3	1500	56J19-C5	88	N			56TB3-S18	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 42

MIL 2075 3-63 WIR-RO1

05292

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA377R	3	1500	56J19-B8	88	N			56TB3-K17	138	N			1	1
AA377W	3	1500	56J19-B7	88	N			56TB3-K16	138	N			1	1
AA378	3	1500	56J19-A7	88	N			56TB3-R18	138	N			1	1
AA379R	3	1500	56J19-C8	88	N			56TB3-L16	138	N			1	1
AA379W	3	1500	56J19-D8	88	N			56TB3-L17	138	N			1	1
AA380	3	1500	56J19-C7	88	N			56TB3-T18	138	N			1	1
AA381R	3	1500	56J19-F6	88	N			56TB3-G16	138	N			1	1
AA381W	3	1500	56J19-F5	88	N			56TB3-F16	138	N			1	1
AA382R	4	1500	56J19-G1	138	N			56TB3-T13	138	N			1	1
AA382W	4	1500	56J19-H1	138	N			56TB3-T14	138	N			1	1
AA383R	4	1500	56J19-G2	138	N			56TB3-S14	138	N			1	1
AA383W	4	1500	56J19-G3	138	N			56TB3-S13	138	N			1	1
AA384	3	1500	56J19-C3	88	N			56TB3-N18	138	N			1	1
AA385	3	1500	56J19-C4	88	N			56TB3-M18	138	N			1	1
AA386R	3	1500	56J19-F8	88	N			56TB3-R14	138	N			1	1
AA386W	3	1500	56J19-F9	88	N			56TB3-R13	138	N			1	1
AA387	4	1500	56J19-M6	138	N			56TB3-G18	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 43

MIL 2075 3-63 WIR-RO1

05293

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA353	4	600	56J18-M3	138	N			56J18-M4	138	N			1	1
AA354	4	600	56J18-M4	138	N			56J18-M5	138	N			2	2
AA355	4	600	56J18-M5	138	N			56J18-M6	138	N			1	1
AA356	4	900	56J19-P3	138	N			56J20-G4	138	N			1	1
AA357	4	900	56J19-T1	138	N			56J20-M6	138	N			1	1
AA358R	4	1500	56J19-S2	138	N			56TB3-D17	138	N			1	1
AA358W	4	1500	56J19-S3	138	N			56TB3-D16	138	N			1	1
AA359R	4	1500	56J19-P1	138	N			56TB3-D18	138	N			1	1
AA359W	4	1500	56J19-R1	138	N			56TB3-F18	138	N			1	1
AA360R	4	1500	56J19-T2	138	N			56TB3-C17	138	N			1	1
AA360W	4	1500	56J19-T3	138	N			56TB3-C16	138	N			1	1
AA361R	4	1500	56J19-P2	138	N			56TB3-G17	138	N			1	1
AA361W	4	1500	56J19-R2	138	N			56TB3-F17	138	N			1	1
AA362	4	600	56J19-R5	138	N			56J19-S4	138	N			1	1
AA363	4	600	56J19-R6	138	N			56J19-T4	138	N			1	1
AA364	4	1500	56J19-S4	138	N			56TB3-K22	138	N			2	1
AA365	4	1500	56J19-T4	138	N			56TB3-L22	138	N			2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 41

MIL 2075 3-63 WIR-RO1

05291

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA388	4	1500	56J19-M5	138	N			56TB3-K18	138	N			1	1
AA389	4	1500	56J19-N5	138	N			56TB3-L18	138	N			1	1
AA390	4	1500	56J19-R4	138	N			56TB3-K21	138	N			3	2
AA391R	4	1500	56J19-L1	138	N			56TB3-C 9	138	N			1	1
AA391W	4	1500	56J19-K1	138	N			56TB3-C10	138	N			3	1
AA392R	4	1500	56J19-L3	138	N			56TB3-B 9	138	N			1	1
AA392W	4	1500	56J19-K3	138	N			56TB3-B10	138	N			3	1
AA393	4	1500	56J19-P5	138	N			56TB3-K21	138	N			3	3
AA394	4	600	56J19-P4	138	N			56J19-P5	138	N			1	1
AA396R	3	1500	56J19-D6	88	N			56TB3-N13	138	N			1	1
AA396W	3	1500	56J19-D5	88	N			56TB3-N14	138	N			1	1
AA397	4	600	56J19-K1	138	N			56J19-R4	138	N			2	1
AA398	4	600	56J19-K1	138	N			56J19-K2	138	N			1	1
AA399	4	600	56J19-K2	138	N			56J19-K3	138	N			2	2
AA400	4	600	56J19-K3	138	N			56J19-K4	138	N			1	1
AA401	4	600	56J19-K4	138	N			56J19-K5	138	N			2	2
AA402	4	600	56J19-K5	138	N			56J19-K6	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 44

MIL 2075 3-63 WIR-RO1

05294

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA417	4	1700	56J20-A2	138	N			56TB3-F19	138	N			1	1
AA418	4	1700	56J20-B1	138	N			56TB3-D19	138	N			1	1
AA419R	4	1700	56J20-B3	138	N			56TB3-N21	138	N			1	1
AA419W	4	1700	56J20-A3	138	N			56TB3-N20	138	N			1	1
AA420	4	1700	56J20-K5	138	N			56TB3-G21	138	N			1	1
AA421	4	1700	56J20-K6	138	N			56TB3-G22	138	N			1	1
AA422	4	1700	56J20-H4	138	N			56TB3-R20	138	N			2	1
AA423	4	1000	56J20-H4	138	N			56J21-234	10	N	6		3	1
AA424	4	1700	56J20-K4	138	N			56TB3-N19	138	N			1	1
AA425	4	1700	56J20-C6	138	N			56TB3-L19	138	N			1	1
AA426	4	1700	56J20-D6	138	N			56TB3-M19	138	N			1	1
AA427R	4	1700	56J20-B5	138	N			56TB3-T19	138	N			1	1
AA427W	4	1700	56J20-C5	138	N			56TB3-S19	138	N			1	1
AA428	4	1700	56J20-N1	138	N			56TB3-C20	138	N			2	1
AA429	4	600	56J20-N1	138	N			56J20-P1	138	N			1	1
AA431	4	600	56J20-R1	138	N			56J20-S1	138	N			1	1
AA432	4	1700	56J20-S1	138	N			56TB3-C21	138	N			2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 46

MIL 2075 3-63 WIR-RO1

05296

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA433	4	1700	56J20-N2	138	N			56TB3-D20	138	N			2	1
AA434	4	600	56J20-N2	138	N			56J20-P2	138	N			1	1
AA436	4	600	56J20-R2	138	N			56J20-S2	138	N			1	1
AA437	4	1700	56J20-S2	138	N			56TB3-D21	138	N			2	1
AA438	4	600	56J20-L1	138	N			56J20-M1	138	N			2	1
AA439	4	600	56J20-L1	138	N			56J20-L2	138	N			1	1
AA440	4	600	56J20-L2	138	N			56J20-M2	138	N			2	1
AA441	4	1700	56J20-R3	138	N			56TB3-D22	138	N			2	1
AA442	4	600	56J20-R3	138	N			56J20-S3	138	N			1	1
AA443	4	1700	56J20-R4	138	N			56TB3-C22	138	N			2	1
AA444	4	600	56J20-R4	138	N			56J20-S4	138	N			1	1
AA445	4	1700	56J20-P3	138	N			56TB3-N22	138	N			2	1
AA446	4	1700	56J20-P5	138	N			56TB3-H21	138	N			2	1
AA447	4	600	56J20-P5	138	N			56J20-R5	138	N			1	1
AA448	4	600	56J20-R5	138	N			56J20-S5	138	N			2	1
AA449	4	1700	56J20-S5	138	N			56TB3-H21	138	N			2	2
AA450	4	1700	56J20-P6	138	N			56TB3-H22	138	N			2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 47

MIL 2075 3-63 WIR-RO1

05297

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA403	4	1000	56J20-L5	138	N			56J21- 37	10	N	6		1	1
AA404	4	1700	56J20-L5	138	N			56TB3-M22	138	N			2	2
AA405	4	1700	56J20-M5	138	N			56TB3-M21	138	N			1	2
AA406	4	1700	56J20-N6	138	N			56TB3-H20	138	N			2	1
AA407	4	1700	56J20-N4	138	N			56TB3-L21	138	N			1	3
AA408	4	1700	56J20-N3	138	N			56TB3-K22	138	N			1	3
AA409R	4	2500	56J20-F6	138	N			56TB2-H 4	138	N			1	2
AA409W	4	2500	56J20-F5	138	N			56TB2-G 4	138	N			1	2
AA410R	4	1700	56J20-F6	138	N			56TB3-B19	138	N			2	1
AA410W	4	1700	56J20-F5	138	N			56TB3-B18	138	N			2	1
AA411	4	600	56J20-G5	138	N			56J20-H5	138	N			1	1
AA412R	4	1700	56J20-H6	138	N			56TB3-C 3	138	N			2	1
AA412W	4	1700	56J20-H5	138	N			56TB3-D 2	138	N			2	2
AA413	4	600	56J20-G6	138	N			56J20-H6	138	N			1	1
AA414	4	1700	56J20-A4	138	N			56TB3-K19	138	N			1	1
AA415	4	1700	56J20-B4	138	N			56TB3-H19	138	N			1	1
AA416	4	1700	56J20-A1	138	N			56TB3-G19	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 45

MIL 2075 3-63 WIR-RO1

05295

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	T I N	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA451	4	600	56J20-P6	138	N			56J20-R6	138	N			1	1
AA452	4	600	56J20-R6	138	N			56J20-S6	138	N			2	1
AA453	4	1700	56J20-S6	138	N			56TB3-H22	138	N			2	2
AA454	4	1700	56J20-K1	138	N			56TB3-T20	138	N			2	2
AA455	4	1700	56J20-K1	138	N			56TB3-T21	138	N			3	3
AA456	4	1700	56J20-K2	138	N			56TB3-S21	138	N			3	2
AA457	4	1700	56J20-M6	138	N			56TB3-M20	138	N			2	3
AA458	4	600	56J20-G1	138	N			56J20-H1	138	N			1	1
AA459	4	600	56J20-H1	138	N			56J20-H2	138	N			2	1
AA460	4	2500	56J20-G1	138	N			56TB2-M 7	138	N			2	3
AA461	4	2500	56J20-H2	138	N			56TB2-M 1	138	N			2	3
AA462	4	1700	56J20-G4	138	N			56TB3-F22	138	N			2	2
AA463R	4	1700	56J20-D4	138	N			56TB3-S20	138	N			1	1
AA463W	4	1700	56J20-D5	138	N			56TB3-R19	138	N			1	1
AA464R	4	1700	56J20-A6	138	N			56TB3-L13	138	N			1	1
AA464W	4	1700	56J20-B6	138	N			56TB3-K13	138	N			1	1
AA465R	4	1700	56J20-H3	138	N			56TB3-L14	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 48

MIL 2075 3-63 WIR-RO1

05298

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	FR	TO
AA470R			56J21-160	10	N		6	56E 36	20	N			1	
AA471	5	2100		50		25	8		300		275	9		
AA471A	4	600	SHLD AA471	20	N			56E 46	20	N				
AA471L			56J21- 95	10	N		6	56J15-K4	138	N			1	1
AA471R			56J21- 94	10	N		6	56E 37	20	N			1	
AA472	5	2100		50		25	8		300		275	9		
AA472A	4	600	SHLD AA472	20	N			56E 46	20	N				
AA472L			56J21-128	10	N		6	56J15-K5	138	N			1	1
AA472R			56J21-127	10	N		6	56E 37	20	N			1	
AA473	4	600	56J21- 23	10	N		6	56E 45	20	N		8	1	
AA474	4	600	56E 70	20	N		8	56E 47	20	N		8	1	
AA475	5	2100		50		25	8		250		225	9		
AA475A	4	600	SHLD AA475	20	N			56E 47	20	N				
AA475L			56J21- 24	10	N		6	56J15-B4	88	N			1	1
AA475R			56J21- 25	10	N		6	56E 38	20	N			1	
AA476	5	2100		50		25	8		250		225	9		
AA476A	4	600	SHLD AA476	20	N			56E 47	20	N				

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 50

MIL 2075 3-63 WIR-RO1

05300

WIRE LIST AA

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	FR	TO
AA476L			56J21- 27	10	N		6	56E 38	20	N			1	
AA476R			56J21- 26	10	N		6	56J15-C4	88	N			1	1
AA477	5	2100		50		25	8		250		225	9		
AA477A	4	600	SHLD AA477	20	N			56E 47	20	N				
AA477L			56J21-232	10	N		6	56J15-B6	88	N			1	1
AA477R			56J21-233	10	N		6	56E 40	20	N			1	
AA478	5	2100		50		25	8		250		225	9		
AA478A	4	600	SHLD AA478	20	N			56E 47	20	N				
AA478L			56J21-193	10	N		6	56E 40	20	N			1	
AA478R			56J21-192	10	N		6	56J15-C6	88	N			1	1
AA479	5	2100		50		25	8		250		225	9		
AA479A	4	600	SHLD AA479	20	N			56E 47	20	N				
AA479L			56J21- 56	10	N		6	56J15-B8	88	N			1	1
AA479R			56J21- 57	10	N		6	56E 42	20	N			1	
AA480	5	2100		50		25	8		250		225	9		
AA480A	4	600	SHLD AA480	20	N			56E 47	20	N				
AA480L			56J21- 59	10	N		6	56E 42	20	N			1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 51

MIL 2075 3-63 WIR-RO1

05301

WIRE LIST AA

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	FR	TO
AA465W	4	1700	56J20-G3	138	N			56TB3-K14	138	N			1	1
AA466	4	600	56TB3-H12	138	N			56TB3-R 3	138	N			1	1
AA467	5	2100		50		25	8		300		275	9		
AA467A	4	600	SHLD AA467	20	N			56E 46	20	N		8		
AA467L			56J21-126	10	N		6	56J15-M5	138	N			1	1
AA467R			56J21-125	10	N		6	56E 35	20	N			1	
AA468	5	2100		50		25	8		300		275	9		
AA468A	4	600	SHLD AA468	20	N			56E 46	20	N				
AA468L			56J21- 93	10	N		6	56J15-M6	138	N			1	1
AA468R			56J21- 92	10	N		6	56E 35	20	N			1	
AA469	5	2100		50		25	8		300		275	9		
AA469A	4	600	SHLD AA469	20	N			56E 46	20	N				
AA469L			56J21-195	10	N		6	56J15-L6	138	N			1	1
AA469R			56J21-194	10	N		6	56E 36	20	N			1	
AA470	5	2100		50		25	8		300		275	9		
AA470A	4	600	SHLD AA470	20	N			56E 46	20	N				
AA470L			56J21-161	10	N		6	56J15-K6	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 49

MIL 2075 3-63 WIR-RO1

05299

WIRE LIST AA

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	FR	TO
AA480R			56J21- 58	10	N		6	56J15-C8	88	N			1	1
AA481	5	2100		50		25	9		250		225	8		
AA481B	4	600	56E 39	20	N			SHLD AA481	20	N				
AA481L			56J21-237	10	N		6	56J15-B5	88	N			1	1
AA481R			56J21-238	10	N		6	56E 39	20	N			1	
AA482	5	2100		50		25	9		250		225	8		
AA482B	4	600	56E 39	20	N			SHLD AA482	20	N				
AA482L			56J21-200	10	N		6	56E 39	20	N			1	
AA482R			56J21-199	10	N		6	56J15-C5	88	N			1	1
AA483	5	2100		50		25	9		250		225	8		
AA483B	4	600	56E 41	20	N			SHLD AA483	20	N				
AA483L			56J21-165	10	N		6	56J15-B7	88	N			1	1
AA483R			56J21-166	10	N		6	56E 41	20	N			1	
AA484	5	2100		50		25	9		250		225	8		
AA484B	4	600	56E 41	20	N			SHLD AA484	20	N				
AA484L			56J21- 98	10	N		6	56E 41	20	N			1	
AA484R			56J21- 97	10	N		6	56J15-C7	88	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 52

MIL 2075 3-63 WIR-RO1

05302

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA489	5	1900		50		25	8			250		225	9			
AA489A	4	600	SHLD AA489	20	N				56E 57	20	N					
AA489L			56J21-152	10	N		6		56J16-A7	88	N				1	1
AA489R			56J21-153	10	N		6		56E 60	20	N		7		1	
AA490	5	2700		50		25	9			300		275	8			
AA490B	4	600	56E 29	20	N				SHLD AA490	20	N					
AA490L			56J21-169	10	N		6		56J12-G1	138	N				1	1
AA490R			56J21-170	10	N		6		56E 29	20	N				1	
AA491	5	2700		50		25	9			300		275	8			
AA491B	4	600	56E 29	20	N				SHLD AA491	20	N					
AA491L			56J21-137	10	N		6		56E 29	20	N				1	
AA491R			56J21-136	10	N		6		56J12-G2	138	N				1	1
AA492	5	1400		50		25	9			300		275	8			
AA492B	4	600	56E 71	20	N				SHLD AA492	20	N					
AA492L			56J21-163	10	N		6		56J18-K2	138	N				1	1
AA492R			56J21-164	10	N		6		56E 52	20	N				1	
AA493	5	1400		50		25	9			300		275	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 54

MIL 2075 3-63 WIR-RO1

05304

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA493B	4	600	56E 71	20	N				SHLD AA493	20	N					
AA493L			56J21-131	10	N		6		56E 52	20	N				1	
AA493R			56J21-130	10	N		6		56J18-L2	138	N				1	1
AA494	5	1400		50		25	8			300		275	9			
AA494A	4	600	SHLD AA494	20	N				56E 45	20	N					
AA494L			56J21-156	10	N		6		56J18-L1	138	N				1	2
AA494R			56J21-157	10	N		6		56E 53	20	N				1	
AA495	5	1400		50		25	8			300		275	9			
AA495A	4	600	SHLD AA495	20	N				56E 45	20	N					
AA495L			56J21-123	10	N		6		56J18-K1	138	N				1	2
AA495R			56J21-124	10	N		6		56E 53	20	N				1	
AA496	5	1400		50		25	9			300		275	8			
AA496B	4	600	56E 71	20	N				SHLD AA496	20	N					
AA496L			56J21-235	10	N		6		56J18-K3	138	N				1	1
AA496R			56J21-236	10	N		6		56E 50	20	N				1	
AA497	5	1400		50		25	9			300		275	8			
AA497B	4	600	56E 71	20	N		8		SHLD AA497	20	N					

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 55

MIL 2075 3-63 WIR-RO1

05305

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA485	5	2100		50		25	9			250		225	8			
AA485B	4	600	56E 43	20	N				SHLD AA485	20	N					
AA485L			56J21- 64	10	N		6		56J15-B9	88	N				1	1
AA485R			56J21- 65	10	N		6		56E 43	20	N				1	
AA486	5	2100		50		25	9			250		225	8			
AA486B	4	600	56E 43	20	N				SHLD AA486	20	N					
AA486L			56J21- 31	10	N		6		56E 43	20	N				1	
AA486R			56J21- 30	10	N		6		56J15-C9	88	N				1	1
AA487	5	2700		50		25	8			300		275	8			
AA487A	4	600	SHLD AA487	20	N				56E 57	20	N		8			
AA487B	4	600	56TB2-D 3	138	N				SHLD AA487	20	N				3	
AA487L			56J21-121	10	N		6		56TB2-D 2	138	N				1	2
AA487R			56J21-122	10	N		6		56TB2-F 3	138	N				1	1
AA488	5	2100		50		25	8			250		225	9			
AA488A	4	600	SHLD AA488	20	N				56E 57	20	N					
AA488L			56J21-188	10	N		6		56J15-A3	88	N				1	1
AA488R			56J21-189	10	N		6		56E 59	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 53

MIL 2075 3-63 WIR-RO1

05303

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA497L			56J21-198	10	N		6		56E 50	20	N				1	
AA497R			56J21-197	10	N		6		56J18-L3	138	N				1	1
AA498	5	1400		50		25	8			300		275	9			
AA498A			SHLD AA498	20	N				56E 45	20	N					
AA498L			56J21-230	10	N		6		56J18-L4	138	N				1	2
AA498R			56J21-231	10	N		6		56E 51	20	N				1	
AA499	5	1400		50		25	8			300		275	9			
AA499A	4	600	SHLD AA499	20	N				56E 45	20	N					
AA499L			56J21-190	10	N		6		56J18-K4	138	N				1	2
AA499R			56J21-191	10	N		6		56E 51	20	N				1	
AA500	5	1600		50		25	9			300		275	8			
AA500B	4	600	56E 27	20	N				SHLD AA500	20	N					
AA500L			56J21-104	10	N		6		56E 27	20	N				1	
AA500R			56J21-103	10	N		6		56J17-R3	138	N				1	2
AA501R	4	2500	56J21-133	10	N		6		56E 34	20	N				1	
AA501W	4	2500	56J21-132	10	N		6		56J13-N5	138	N				1	2
AA502R	4	2500	56J21-100	10	N		6		56E 34	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 56

MIL 2075 3-63 WIR-RO1

05306

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD	FROM TIN	FROM STRIP WIRE OR JACKET	FROM TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD	TO TIN	TO STRIP WIRE OR JACKET	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA507	5	1700		50		25	9		300		275	8		
AA507B	4	600	56TB3-H12	138	N			SHLD AA507	20	N			3	
AA507L			56J22-144	10	N		6	56TB3-C13	138	N			1	1
AA507R			56J22-111	10	N		6	56TB3-C14	138	N			1	1
AA508	5	1700		50		25	9		300		275	8		
AA508B	4	600	56TB3-H14	138	N			SHLD AA508	20	N			2	
AA508L			56J22-113	10	N		6	56TB3-N20	138	N			1	2
AA508R			56J22-114	10	N		6	56TB3-N21	138	N			1	2
AA509	5	1700		50		25	9		300		275	8		
AA509B	4	600	56TB3-H13	138	N			SHLD AA509	20	N			3	
AA509L			56J22-116	10	N		6	56TB3-D13	138	N			1	1
AA509R			56J22-148	10	N		6	56TB3-D14	138	N			1	1
AA510	5	1700		50		25	9		300		275	8		
AA510B	4	600	56TB3-H14	138	N			SHLD AA510	20	N			3	
AA510L			56J22-150	10	N		6	56TB3-F13	138	N			1	1
AA510R			56J22-151	10	N		6	56TB3-F14	138	N			1	1
AA511	4	600	56TB1-S 2	138	N			56TB1-T 2	138	N			2	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT. NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 58

MIL 2075 3-63 WIR-RO1

05308

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD	FROM TIN	FROM STRIP WIRE OR JACKET	FROM TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD	TO TIN	TO STRIP WIRE OR JACKET	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA512	4	600	56TB1-R 2	138	N			56TB1-S 2	138	N			1	1
AA513	4	600	56TB3-H12	138	N			56TB3-H13	138	N			2	2
AA514	4	600	56TB3-B15	138	N			56TB3-C15	138	N			1	3
AA515	4	600	56TB3-M20	138	N			56TB3-C18	138	N			1	1
AA517R	4	1700	56TB3-B19	138	N			56J22-120	10	N		6	2	1
AA517W	4	1700	56TB3-B18	138	N			56J22-153	10	N		6	2	1
AA518	4	1700	56TB3-F 4	138	N			56J22-190	10	N		6	1	1
AA521	4	1700	56TB3-L19	138	N			56J21- 62	10	N		6	2	1
AA522	4	1700	56TB3-N19	138	N			56J21- 63	10	N		6	2	1
AA525	4	1700	56TB3-M19	138	N			56J21- 96	10	N		6	2	1
AA526	4	1700	56TB3-D19	138	N			56J21-129	10	N		6	2	1
AA529	4	1700	56TB3-F19	138	N			56J21-162	10	N		6	2	1
AA530	4	1700	56TB3-G19	138	N			56J21-196	10	N		6	2	1
AA533	4	600	56TB3-L15	138	N			56TB3-M15	138	N			1	1
AA534	4	600	56TB3-M15	138	N			56TB3-N15	138	N			2	2
AA535	4	600	56TB3-N15	138	N			56TB3-R15	138	N			1	1
AA536	4	600	56TB3-S15	138	N			56TB3-T15	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 59

MIL 2075 3-63 WIR-RO1

05309

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD	FROM TIN	FROM STRIP WIRE OR JACKET	FROM TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD	TO TIN	TO STRIP WIRE OR JACKET	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA502W	4	2500	56J21- 99	10	N		6	56J13-N6	138	N			1	2
AA503	5	2900		50		25	9		300		275	8		
AA503B	4	600	56E 28	20	N			SHLD AA503	20	N				
AA503L			56J21-204	10	N		6	56E 28	20	N			1	
AA503R			56J21-203	10	N		6	56J11-L6	138	N			1	1
AA504	5	2900		50		25	9		300		275	8		
AA504B	4	600	56E 28	20	N			SHLD AA504	20	N				
AA504L			56J21-242	10	N		6	56E 28	20	N			1	
AA504R			56J21-241	10	N		6	56J11-M6	138	N			1	1
AA505	5	2700		50		25	9		300		275	8		
AA505B	4	600	56TB2-V 8	138	N			SHLD AA505	20	N			2	
AA505L			56J22-139	10	N		6	56TB2-U 8	138	N			1	2
AA505R			56J22-107	10	N		6	56TB2-U 7	138	N			1	2
AA506	5	2700		50		25	9		300		275	8		
AA506B	4	600	56TB2-M 8	138	N			SHLD AA506	20	N			2	
AA506L			56J22-141	10	N		6	56TB2-N 8	138	N			1	2
AA506R			56J22-142	10	N		6	56TB2-N 7	138	N			1	2

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 57

MIL 2075 3-63 WIR-RO1

05307

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD	FROM TIN	FROM STRIP WIRE OR JACKET	FROM TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD	TO TIN	TO STRIP WIRE OR JACKET	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA538	4	600	56TB3-G 9	138	N			56TB3-B15	138	N			2	2
AA539	4	600	56TB2-M 8	138	N			56TB2-M 7	138	N			1	1
AA540	4	600	56TB2-V 2	138	N			56TB2-V 3	138	N			1	1
AA541	4	600	56TB3-G 9	138	N			56TB3-H 9	138	N			1	1
AA542	4	600	56TB3-H 9	138	N			56TB3-K 9	138	N			2	2
AA543	4	600	56TB3-K 9	138	N			56TB3-L 9	138	N			1	1
AA544	4	600	56TB3-L 9	138	N			56TB3-M 9	138	N			2	2
AA545	4	600	56TB3-M 9	138	N			56TB3-N 9	138	N			1	1
AA546	4	600	56TB3-N 9	138	N			56TB3-R 9	138	N			2	2
AA547	4	600	56TB3-R 9	138	N			56TB3-S 9	138	N			1	1
AA548	4	600	56TB3-S 9	138	N			56TB3-T 9	138	N			2	2
AA549	4	600	56TB3-T 9	138	N			56TB3-T15	138	N			1	2
AA550	4	600	56TB3-G15	138	N			56TB3-H15	138	N			2	2
AA551	4	600	56TB3-H15	138	N			56TB3-K15	138	N			1	1
AA552	4	600	56TB3-K15	138	N			56TB3-L15	138	N			2	2
AA553	4	600	56TB3-R15	138	N			56TB3-S15	138	N			2	2
AA554	4	600	56TB3-H13	138	N			56TB3-H14	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 60

MIL 2075 3-63 WIR-RO1

05310

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA571R			56TB2-R 3	138	N				56J17-B2	88	N				3	1
AA572	4	600	56TB1-D 7	138	N				56TB1-D 8	138	N				1	1
AA577	4	600	56TB2-D 7	138	N				56TB2-D 8	138	N				2	1
AA578	4	600	56TB2-S 2	138	N				56TB2-R 2	138	N				1	1
AA579	4	600	56TB2-F 7	138	N				56TB2-G 7	138	N				1	1
AA580	4	600	56TB2-F 2	138	N				56TB2-G 2	138	N				1	1
AA581	4	600	56TB2-M 1	138	N				56TB2-M 2	138	N				1	1
AA582	4	600	56TB2-M 2	138	N				56TB2-M 3	138	N				2	2
AA583	4	600	56TB2-M 3	138	N				56TB2-M 4	138	N				1	1
AA584	4	600	56TB2-M 4	138	N				56TB2-M 5	138	N				2	2
AA585	4	600	56TB2-M 5	138	N				56TB2-M 6	138	N				1	1
AA586	4	600	56TB2-M 6	138	N				56TB2-M 7	138	N				2	2
AA587	4	600	56TB1-D 8	138	N				56TB1-N 8	138	N					
AA588	4	600	56TB1-N 4	138	N				56TB1-S 8	138	N				1	1
AA589	4	1000	56TB1-N 4	138	N				56TB2-M 5	138	N				3	3
AA590	4	1000	56TB1-D 7	138	N				56TB2-V 2	138	N				2	2
AA591	4	1000	56TB1-S 3	138	N				56TB2-M 4	138	N				2	3

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 62

MIL 2075 3-63 WIR-RO1

UARCO BUSINESS FORMS - WATSEKA, ILL.

05312

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA592	4	2200	56TB2-M 6	138	N				56TB3-T 3	138	N				3	1
AA596	4	600	56TB2-V 3	138	N				56TB2-V 4	138	N				2	2
AA597	4	600	56TB2-V 4	138	N				56TB2-V 5	138	N				1	1
AA598	4	600	56TB2-V 5	138	N				56TB2-V 6	138	N				2	2
AA599	4	600	56TB2-V 6	138	N				56TB2-V 8	138	N				1	1
AA600	4	600	56TB1-S 8	138	N				56TB1-S 7	138	N				2	2
AA601	4	600	56TB1-S 7	138	N				56TB1-S 6	138	N				1	1
AA602	4	1000	56TB1-S 7	138	N				56TB2-D 8	138	N				3	2
AA603	4	600	56TB2-D 7	138	N				56TB2-D 6	138	N				1	1
AA604	4	600	56TB2-D 6	138	N				56TB2-D 5	138	N				2	2
AA605	4	600	56TB2-D 5	138	N				56TB2-D 4	138	N				1	1
AA607	4	600	56TB3-F22	138	N				56TB3-F21	138	N				1	1
AA608	4	1800	56TB2-D 4	138	N				56E 27	20	N				3	
AA609	4	600	56TB3-C15	138	N				56TB3-D15	138	N				2	2
AA610	4	900	56J11-N3	138	N				56J12-P4	138	N				1	1
AA611	4	600	56TB1-R 1	138	N				56TB1-S 1	138	N				1	1
AA612	4	600	56TB1-S 1	138	N				56TB1-T 1	138	N				2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 63

MIL 2075 3-63 WIR-RO1

UARCO BUSINESS FORMS - WATSEKA, ILL.

05313

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA555	4	600	56TB2-K 4	138	N				56TB2-L 4	138	N				1	1
AA556	4	600	56TB2-L 2	138	N				56TB2-L 1	138	N				1	1
AA557	4	600	56TB2-K 2	138	N				56TB2-K 1	138	N				1	1
AA558	4	600	56TB3-M20	138	N				56TB3-C19	138	N				2	1
AA559	4	600	56TB3-T20	138	N				56TB3-T21	138	N				1	1
AA560	4	600	56TB3-S21	138	N				56TB3-T21	138	N				1	2
AA562	4	600	56J21- 53	10	N		6		56E 57	20	N				1	
AA563	4	600	56TB3-L21	138	N				56TB3-D15	138	N				1	3
AA566	4	600	56TB3-K21	138	N				56TB3-C15	138	N				1	1
AA568	4	600	56E 45	20	N				56E 46	20	N					
AA569	5	1700		300		275	7			250		225	11			
AA569A	4	600	SHLD AA569	20	N				56TB2-D 3	138	N					2
AA569L			56TB2-D 2	138	N				56J16-B7	88	N				3	1
AA569R			56TB2-F 3	138	N				56E 60	20	N				3	
AA571	5	1900		300		275	7			250		225	11			
AA571A	4	600	SHLD AA571	20	N				56TB2-S 3	138	N					2
AA571L			56TB2-N 3	138	N				56J17-A2	88	N				2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 61

MIL 2075 3-63 WIR-RO1

UARCO BUSINESS FORMS - WATSEKA, ILL.

05311

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA613	4	600	56TB3-B20	138	N				56TB3-B21	138	N				1	1
AA614	4	600	56TB3-B21	138	N				56TB3-F21	138	N				2	2
AA615	4	600	56TB2-R 3	138	N				56TB2-S 3	138	N				1	1
AA616	4	900	56J18-R4	138	N				56J19-M4	138	N				1	1
AA617	4	900	56J11-L4	138	N				56E 66	20	N		12		2	
AA618	4	900	56J11-L4	138	N				56E 67	20	N		12		3	
AA619	4	400	56TB3-B20	138	N				56E 68	20	N		12		2	
AA620	4	600	56TB3-B20	138	N				56E 69	20	N		12		3	
AA621	4	600	56TB2-T 2	138	N				56TB2-T 3	138	N				1	1
AA622	4	1700	56J20-R1	138	N				56TB3-C20	138	N				2	2
AA623	4	1700	56J20-P1	138	N				56TB3-C21	138	N				2	2
AA624	4	1700	56J20-R2	138	N				56TB3-D20	138	N				2	2
AA625	4	1700	56J20-P2	138	N				56TB3-D21	138	N				2	2
AA626	4	1700	56J20-S3	138	N				56TB3-D22	138	N				2	2
AA627	4	1700	56J20-S4	138	N				56TB3-C22	138	N				2	2
AA628	4	1700	56J20-R5	138	N				56TB3-H21	138	N				3	3
AA629	4	1700	56J20-R6	138	N				56TB3-H22	138	N				3	3

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 64

MIL 2075 3-63 WIR-RO1

UARCO BUSINESS FORMS - WATSEKA, ILL.

05314

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA630	4	600	56TB3-D15	138	N				56TB3-G15	138	N				1	1
AA631	4	600	56TB3-R 3	138	N				56TB3-S 3	138	N				2	1
AA632	4	600	56TB1-S 3	138	N				56TB1-S 4	138	N				1	2
AA633	4	600	56TB1-S 4	138	N				56TB1-S 5	138	N				3	2
AA634	4	600	56TB1-S 5	138	N				56TB1-S 6	138	N				3	3
AA635	4	600	56TB3-T 3	138	N				56TB2-V 8	138	N				2	3
AA636	4	1200	56J17-F2	138	N				56TB3-D 6	138	N					
AA637	4	1200	56J15-R2	138	N				56TB2-F 4	138	N					
AA638	4	600	56J18-T5	138	N				56E 71	20	N					
AA639	5	2700		300		275	9			300		275	8			
AA639B	4	600	56E 70	20	N				SHLD AA639	20	N					
AA639L			56J12-D6	138	N				56J21- 28	10	N		6			
AA639R			56J12-F6	138	N				56J21- 29	10	N		6			
AA640	5	2700		300		275	9			300		275	8			
AA640B	4	600	56E 70	20	N				SHLD AA640	20	N					
AA640L			56J12-D5	138	N				56J21-158	10	N		6			
AA640R			56J12-F5	138	N				56J21-159	10	N		6			

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 65

MIL 2075 3-63 WIR-RO1

05315

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

WIRE LIST AA

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA641	5	2700		300		275	9			300		275	8			
AA641B	4	600	56E 70	20	N				SHLD AA641	20	N					
AA641L			56J12-D4	138	N				56J21- 60	10	N		6			
AA641R			56J12-F4	138	N				56J21- 61	10	N		6			
AA642	4	600	56J21- 22	10	N		6		56E70	20	N					
AA643	4	400	56J12-N6	138	N				56J12-R6	138	N					
AA644	4	400	56J12-P5	138	N				56J12-R3	138	N					

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 66

MIL 2075 3-63 WIR-RO1

05316

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014606-011	1014606-011	D	REVISED & REDRAWN TDRR 06998		
		E	REVISED PER TDRR NO.10943	29 JUL 64	J J J PBR

REV	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
SHEET	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49

REV STATUS OF SHEETS	REV	E	E	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN DATE 4/17/64
CHECKED
APPROVAL 4/17/64
APPROVAL

NASA APPROVAL 7-27-64
MIT APPROVAL 4/17/64

CONTRACT

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE LIST AA
AGE HARNESS & END CONNECTOR ASSY

CODE IDENT NO. | SIZE | 1014608 | REV E

SCALE | SHEET 1 OF 66

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
50	D														
51	D														
52	D														
53	D														
54	D														
55	D														
56	D														
57	D														
58	D														
59	D														
60	D														
61	D														
62	D														
63	D														
64	D														
65	D														
66	E														

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION E

NASA DRAWING NO.
1014608
SHEET 2 OF 66

WIRE LIST AA

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014608- 1	WIRE PER 1010707-2 SOLID 30AWG (THREE COND. TWISTED AND SHIELDED) 13 FT. 3.0 IN. TOTAL LENGTH
	3	1	1014608- 3	WIRE PER 1010708-4 SOLID 30AWG (SINGLE COND.) 186 FT. 2.0 IN. TOTAL LENGTH
	4	1	1014608- 4	WIRE PER 1010708-5 SOLID 24AWG (SINGLE COND.) 605 FT. 0.6 IN. TOTAL LENGTH
	5	1	1014608- 5	WIRE PER 1010708-3 SOLID 24AWG (TWO COND. TWISTED AND SHIELDED) 103 FT. 9.0 IN. TOTAL LENGTH
11	6	144	1010738- 2	CONTACT, SOCKET
11	7	36	1010402- 1	SLEEVE, SOLDER
11	8	69	1010402- 2	SLEEVE, SOLDER
11	9	53	1010490-110	INSULATION-SLEEVING, ELEC.
11	10	9	1010490-112	INSULATION-SLEEVING, ELEC.
11	11	11	1010490-114	INSULATION-SLEEVING, ELEC.
	12	4	MS-25036-44	TERMINAL LUG

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 3

WIRE LIST AA

GENERAL NOTES

1 SEE CONDUCTOR CHART PENNANT NOTE 1

2 SEE CONDUCTOR CHART PENNANT NOTE 2

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

5 LENGTHS SPECIFIED ARE FOR CONDUCTORS BEFORE ATTACHING TO AN ACCESSORY.

6 CONDUCTORS WITH THE SAME NUMBER ARE TWISTED TOGETHER.

7 LENGTHS SPECIFIED FOR TWISTED CONDUCTORS ARE FOR AFTER TWISTING.

8 TWISTED CONDUCTORS ARE TO BE TWISTED WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED CONDUCTOR.

9 CONDUCTOR LENGTHS ARE FOR MANUFACTURING REF. ONLY.

10 NUMBERS IN WIRE-WRAP COLUMN INDICATE THE LEVEL OF TERMINATION. CONDUCTORS LISTED AS ----
LEVEL 1 TO BE WIRE-WRAPPED AT BASE OF CONTACT
LEVEL 2 TO FOLLOW LEVEL 1
LEVEL 3 TO FOLLOW LEVEL 2

11 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 4

WIRE LIST AA

GENERAL NOTES

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
B - TO END SHIELD
K - BLACK
L - BLUE
R - RED
W - WHITE

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 5

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 1	4	1600	56J11-S4	138	N			56J15-S6	138	N			3	2
AA 2	4	2800	56J11-S1	138	N			56J20-L1	138	N			2	3
AA 3	4	2800	56J11-S2	138	N			56J20-L2	138	N			2	3
AA 4	4	2800	56J11-S5	138	N			56J20-K2	138	N			2	1
AA 5R	4	900	56J11-N4	138	N			56J12-P3	138	N			1	1
AA 5W	4	900	56J11-N5	138	N			56J12-N3	138	N			1	1
AA 6	4	900	56J11-S4	138	N			56J12-S5	138	N			2	1
AA 7	4	900	56J11-L4	138	N			56J12-K3	138	N			1	1
AA 9R	4	900	56J11-L2	138	N			56J12-K2	138	N			1	1
AA 9W	4	900	56J11-L1	138	N			56J12-H2	138	N			1	1
AA 10K	4	900	56J11-B5	138	N			56J12-B2	138	N			1	1
AA 10L	4	900	56J11-A6	138	N			56J12-B1	138	N			1	1
AA 10R	4	900	56J11-A5	138	N			56J12-A2	138	N			1	1
AA 10W	4	900	56J11-B6	138	N			56J12-A1	138	N			1	1
AA 11R	3	2000	56J11-B3	138	N			56J17-B1	88	N			1	1
AA 11W	3	2000	56J11-C3	138	N			56J17-A1	88	N			1	1
AA 12L	4	2000	56J11-N2	138	N			56J17-R2	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 6

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA 12R	4	2000	56J11-N1	138	N			56J17-P2	138	N			1	1
AA 12W	4	2000	56J11-P1	138	N			56J17-N2	138	N			1	1
AA 13	4	2000	56J11-S3	138	N			56J17-R1	138	N			1	1
AA 14	4	1100	56J11-N6	138	N			56J13-P6	138	N			1	1
AA 15R	4	1700	56J11-B1	138	N			56TB2-G 2	138	N			1	2
AA 15W	4	1700	56J11-A1	138	N			56TB2-H 2	138	N			1	1
AA 16R	4	1400	56J11-C1	138	N			56TB1-C 5	138	N			1	1
AA 16W	4	1400	56J11-B1	138	N			56TB1-B 5	138	N			2	1
AA 17	4	600	56J11-R4	138	N			56J11-R5	138	N			2	2
AA 18	4	600	56J11-P4	138	N			56J11-R4	138	N			1	1
AA 19R	4	1700	56J11-B2	138	N			56TB2-G 7	138	N			1	2
AA 19W	4	1700	56J11-A2	138	N			56TB2-H 7	138	N			1	1
AA 20R	4	1400	56J11-C2	138	N			56TB1-A 5	138	N			1	1
AA 20W	4	1400	56J11-B2	138	N			56TB1-A 6	138	N			2	1
AA 21R	4	1700	56J11-B3	138	N			56TB2-R 2	138	N			2	2
AA 21W	4	1700	56J11-A3	138	N			56TB2-N 2	138	N			1	1
AA 22	4	600	56J11-P4	138	N			56J11-P5	138	N			2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 7

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA 23K	4	1400	56J11-G1	138	N			56TB1-C 3	138	N			1	1
AA 23L	4	1400	56J11-H1	138	N			56TB1-B 4	138	N			1	1
AA 23R	4	1400	56J11-F1	138	N			56TB1-C 4	138	N			1	1
AA 23W	4	1400	56J11-G2	138	N			56TB1-B 3	138	N			2	1
AA 24	4	600	56J11-G2	138	N			56J11-P6	138	N			1	1
AA 25	4	600	56J11-S4	138	N			56J11-S5	138	N			1	1
AA 26	4	600	56J11-P6	138	N			56J11-R6	138	N			2	2
AA 27	4	1400	56J11-N6	138	N			56TB1-D 5	138	N			2	1
AA 28K	4	1400	56J11-L2	138	N			56TB1-C 2	138	N			2	2
AA 28L	4	1400	56J11-M2	138	N			56TB1-C 2	138	N			1	1
AA 28R	4	1400	56J11-M1	138	N			56TB1-D 2	138	N			1	1
AA 28W	4	1400	56J11-L1	138	N			56TB1-D 2	138	N			2	2
AA 29K	4	1400	56J11-B5	138	N			56TB1-B 7	138	N			2	2
AA 29L	4	1400	56J11-A6	138	N			56TB1-A 8	138	N			2	1
AA 29R	4	1400	56J11-A5	138	N			56TB1-A 7	138	N			2	1
AA 29W	4	1400	56J11-B6	138	N			56TB1-B 8	138	N			2	2
AA 30R	4	1400	56J11-D6	138	N			56TB1-D 3	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 8

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA 30W	4	1400	56J11-D5	138	N			56TB1-D 4	138	N			1	1
AA 31	4	600	56J11-R5	138	N			56J11-R6	138	N			1	1
AA 32R	4	1400	56J11-F6	138	N			56TB1-A 4	138	N			1	1
AA 32W	4	1400	56J11-G6	138	N			56TB1-A 3	138	N			1	1
AA 33	4	600	56J11-R6	138	N			56J11-S6	138	N			3	1
AA 34R	4	1400	56J11-H6	138	N			56TB1-A 2	138	N			1	1
AA 34W	4	1400	56J11-H5	138	N			56TB1-B 2	138	N			1	1
AA 35	4	1400	56J11-L3	138	N			56TB1-D 6	138	N			1	1
AA 36	4	600	56J11-M5	138	N			56E 28	20	N	8		2	
AA 37	4	600	56J11-M5	138	N			56J11-P3	138	N			1	1
AA 38	4	600	56J11-P2	138	N			56J11-R3	138	N			1	1
AA 39	4	600	56J11-P3	138	N			56J11-R3	138	N			2	2
AA 40	4	600	56J11-S1	138	N			56J11-S2	138	N			1	1
AA 41	4	600	56J11-R1	138	N			56J11-R2	138	N			1	1
AA 42R	4	1400	56J11-G3	138	N			56TB1-B 6	138	N			1	1
AA 42W	4	1400	56J11-F3	138	N			56TB1-C 6	138	N			1	1
AA 43	4	1700	56J11-R3	138	N			56TB2-M 1	138	N			3	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 9

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA 44	4	1700	56J11-R1	138	N			56TB2-M 2	138	N			2	3
AA 45	4	1700	56J11-R2	138	N			56TB2-M 3	138	N			2	3
AA 46	4	1400	56J11-P6	138	N			56TB1-S 3	138	N			3	3
AA 47	4	1100	56J12-B6	138	N			56J14-H6	138	N			1	1
AA 48R	4	1400	56J12-K2	138	N			56J15-R4	138	N			2	1
AA 48W	4	1400	56J12-H2	138	N			56J15-S4	138	N			2	1
AA 49R	4	1400	56J12-P3	138	N			56J15-P5	138	N			2	2
AA 49W	4	1400	56J12-N3	138	N			56J15-P6	138	N			2	2
AA 50R	4	1400	56J12-P5	138	N			56J15-N5	138	N			1	1
AA 50W	4	1400	56J12-N5	138	N			56J15-N6	138	N			2	1
AA 51	4	2600	56J12-S6	138	N			56J20-N5	138	N			1	2
AA 52R	4	2600	56J12-K4	138	N			56J20-G6	138	N			1	2
AA 52W	4	2600	56J12-H4	138	N			56J20-G5	138	N			2	2
AA 53	4	2600	56J12-G4	138	N			56J20-L6	138	N			1	1
AA 54	4	2600	56J12-S1	138	N			56J20-M1	138	N			2	3
AA 55	4	2600	56J12-S2	138	N			56J20-M2	138	N			2	3
AA 56	4	1600	56J12-H5	138	N			56J16-M2	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 10

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA 57	4	1600	56J12-H6	138	N				56J16-M3	138	N				1	1
AA 58	4	1600	56J12-G6	138	N				56J16-N3	138	N				1	1
AA 59	4	1600	56J12-G5	138	N				56J16-R2	138	N				2	1
AA 60L	4	1100	56J12-P1	138	N				56TB1-H 3	138	N				2	1
AA 60R	4	1100	56J12-R1	138	N				56TB1-H 2	138	N				1	1
AA 60W	4	1100	56J12-P2	138	N				56TB1-G 2	138	N				1	1
AA 61	4	600	56J12-N1	138	N				56J12-P1	138	N				1	1
AA 62	4	600	56J12-H4	138	N				56J12-N2	138	N				1	1
AA 63R	4	1100	56J12-N6	138	N				56TB1-G 7	138	N				2	1
AA 63W	4	1100	56J12-P6	138	N				56TB1-H 7	138	N				2	1
AA 64R	4	1100	56J12-P5	138	N				56TB1-G 4	138	N				2	1
AA 64W	4	1100	56J12-N4	138	N				56TB1-H 4	138	N				2	1
AA 65	4	600	56J12-N4	138	N				56J12-N5	138	N				1	1
AA 66	4	2400	56J12-R6	138	N				56TB3-L20	138	N				1	1
AA 67	4	600	56J12-F1	138	N				56E 31	20	N		7		2	
AA 68	4	600	56J12-F1	138	N				56J12-F2	138	N				1	1
AA 69	4	600	56J12-F2	138	N				56E 29	20	N		8		2	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 11

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA 70	5	2800		300		275	8			50		25	9			
AA 70A	4	600	SHLD AA 70	20	N				56J12-H1	138	N					2
AA 70L			56J12-K1	138	N				56J21- 70	10	N		6		1	1
AA 70R			56J12-H1	138	N				56J21- 71	10	N		6		1	1
AA 71	4	600	56J12-G5	138	N				56J12-R5	138	N				1	1
AA 72	4	900	56J12-K3	138	N				56J13-C6	138	N				2	2
AA 73L	4	1100	56J12-K6	138	N				56J14-R2	138	N				1	2
AA 73R	4	1100	56J12-L6	138	N				56J14-S2	138	N				1	2
AA 73W	4	1100	56J12-M6	138	N				56J14-S3	138	N				1	1
AA 74	4	2700	56J12-G3	138	N				56J22-244	10	N		6		1	1
AA 75	4	900	56J12-A5	138	N				56J13-D2	138	N				1	1
AA 76	4	900	56J12-A6	138	N				56J13-F2	138	N				1	1
AA 77	4	600	56J12-B5	138	N				56E 34	20	N		7		1	
AA 78	4	1100	56J12-M3	138	N				56TB1-H 5	138	N				1	1
AA 79	4	1100	56J12-M4	138	N				56TB1-G 5	138	N				1	1
AA 80	4	1100	56J12-M1	138	N				56TB1-H 6	138	N				2	1
AA 81	4	2700	56J12-M1	138	N				56J21- 36	10	N		6		1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 12

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA 82	4	2400	56J12-L1	138	N				56TB3-M22	138	N				1	1
AA 83	4	1100	56J12-L2	138	N				56TB1-H 8	138	N				1	1
AA 87	4	600	56J12-S1	138	N				56J12-S3	138	N				1	1
AA 88	4	600	56J12-S2	138	N				56J12-S4	138	N				1	1
AA 89	4	600	56J12-R2	138	N				56J12-R3	138	N				1	1
AA 90	4	600	56J12-R3	138	N				56J12-R4	138	N				2	1
AA 91	4	600	56J12-R4	138	N				56E 31	20	N				2	
AA 92	5	1800		300		275	9			300		275	8			
AA 92B	4		56E 27	20	N		7		SHLD AA 92	20	N					
AA 92L			56J12-P4	138	N				56J17-R3	138	N				2	1
AA 92R			56J12-P4	138	N				56J17-R3	138	N				3	3
AA 94R	4	1800	56J12-N6	138	N				56J17-N3	138	N				1	1
AA 94W	4	1800	56J12-P6	138	N				56J17-P3	138	N				1	1
AA 95R	4	900	56J12-L5	138	N				56J13-R3	138	N				1	1
AA 95W	4	900	56J12-M5	138	N				56J13-S3	138	N				1	1
AA 96	4	900	56J12-R5	138	N				56J13-R6	138	N				2	2
AA 97	4	1800	56J12-F3	138	N				56J17-M3	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 13

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA 98	4	1100	56J12-R5	138	N				56TB1-S 6	138	N				3	2
AA 99	4	1100	56J12-R2	138	N				56TB1-N 5	138	N				2	2
AA100	4	1100	56J12-R4	138	N				56TB1-N 8	138	N				3	2
AA101	4	900	56J13-N5	138	N				56J14-H3	138	N				1	1
AA102	4	900	56J13-N6	138	N				56J14-K3	138	N				1	1
AA103	4	900	56J13-H6	138	N				56J14-G1	138	N				1	1
AA104	4	900	56J13-A6	138	N				56J14-A6	138	N				1	1
AA105R	4	900	56J13-L6	138	N				56J14-K1	138	N				1	1
AA105W	4	900	56J13-K6	138	N				56J14-H1	138	N				1	1
AA106	4	900	56J13-C6	138	N				56J14-H5	138	N				1	1
AA107	4	900	56J13-S6	138	N				56J14-S6	138	N				1	1
AA108	4	900	56J13-R6	138	N				56J14-R6	138	N				1	1
AA109R	4	900	56J13-R2	138	N				56J14-R1	138	N				1	1
AA109W	4	900	56J13-S2	138	N				56J14-S1	138	N				1	1
AA110R	4	900	56J13-R3	138	N				56J14-R5	138	N				2	1
AA110W	4	900	56J13-S3	138	N				56J14-S5	138	N				2	1
AA111R	4	900	56J13-R4	138	N				56J14-R4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 14

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA111W	4	900	56J13-S4	138	N				56J14-S4	138	N				1	1
AA112R	4	900	56J13-R1	138	N				56J14-R2	138	N				1	1
AA112W	4	900	56J13-S1	138	N				56J14-S2	138	N				1	1
AA113	4	900	56J13-P6	138	N				56J14-P6	138	N				2	1
AA114	4	1100	56J13-D1	138	N				56J15-L4	138	N				1	1
AA115	4	1100	56J13-F1	138	N				56J15-M4	138	N				1	1
AA116	4	1100	56J13-D3	138	N				56J15-L3	138	N				1	1
AA117	4	1100	56J13-F3	138	N				56J15-M3	138	N				1	1
AA118R	4	1400	56J13-B1	138	N				56TB1-M 6	138	N				1	1
AA118W	4	1400	56J13-A1	138	N				56TB1-M 7	138	N				1	1
AA119	1	1400		300		275	10			300		275	7			
AA119B	4	600	56TB1-N 5	138	N				SHLD AA119	20	N				1	
AA119L			56J13-L1	138	N				56TB1-L 5	138	N				1	1
AA119R			56J13-H1	138	N				56TB1-M 5	138	N				1	1
AA119W			56J13-K1	138	N				56TB1-L 6	138	N				1	1
AA120	4	1400	56J13-D2	138	N				56TB1-L 2	138	N				2	1
AA121R	4	1400	56J13-B3	138	N				56TB1-N 2	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 15

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA121W	4	1400	56J13-A3	138	N				56TB1-M 3	138	N				1	1
AA122	1	1400		300		275	10			300		275	7			
AA122B	4	600	56TB1-N 4	138	N				SHLD AA122	20	N				2	
AA122L			56J13-N3	138	N				56TB1-M 4	138	N				1	1
AA122R			56J13-L3	138	N				56TB1-L 4	138	N				1	1
AA122W			56J13-M3	138	N				56TB1-L 3	138	N				1	1
AA123	4	1400	56J13-F2	138	N				56TB1-M 2	138	N				2	1
AA124	1	1400		300		275	10			300		275	7			
AA124B	4	600	56TB1-N 8	138	N				SHLD AA124	20	N				1	
AA124L			56J13-G6	138	N				56TB1-L 7	138	N				1	1
AA124R			56J13-D6	138	N				56TB1-M 8	138	N				1	1
AA124W			56J13-F6	138	N				56TB1-L 8	138	N				1	1
AA125	4	600	56J13-R6	138	N				56E 34	20	N				3	
AA126R	4	1600	56J14-A2	138	N				56TB1-T 4	138	N				1	1
AA126W	4	1600	56J14-A1	138	N				56TB1-T 5	138	N				1	1
AA127	1	1600		300		275	10			300		275	7			
AA127B	4	600	56TB1-S 4	138	N				SHLD AA127	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 16

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA127L			56J14-P2	138	N				56TB1-U 3	138	N				1	1
AA127R			56J14-P1	138	N				56TB1-U 4	138	N				1	1
AA127W			56J14-P3	138	N				56TB1-T 3	138	N				1	1
AA128	4	1600	56J14-H6	138	N				56TB1-T 7	138	N				2	1
AA129R	4	2300	56J14-D1	138	N				56J21- 67	10	N		6		1	1
AA129W	4	2300	56E 33	20	N		8		56J21- 66	10	N		6			1
AA130R	4	2300	56E 33	20	N				56J21- 32	10	N		6			1
AA130W	4	2300	56J14-D2	138	N				56J21- 33	10	N		6		1	1
AA131R	4	2300	56J14-D3	138	N				56J21-240	10	N		6		1	1
AA131W	4	2300	56E 33	20	N				56J21-239	10	N		6			1
AA132R	4	2300	56J14-D4	138	N				56J21-202	10	N		6		1	1
AA132W	4	2300	56E 33	20	N				56J21-201	10	N		6			1
AA133	1	1600		300		275	10			300		275	7			
AA133B	4	600	56TB1-S 5	138	N				SHLD AA133	20	N				1	
AA133L			56J14-M2	138	N				56TB1-U 6	138	N				1	1
AA133R			56J14-M1	138	N				56TB1-T 6	138	N				1	1
AA133W			56J14-M3	138	N				56TB1-U 5	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 17

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA134R	4	2300	56E 33	20	N				56J21-167	10	N		6			1
AA134W	4	2300	56J14-D5	138	N				56J21-168	10	N		6		1	1
AA135R	4	2300	56J14-D6	138	N				56J21-135	10	N		6		1	1
AA135W	4	2300	56E 33	20	N				56J21-134	10	N		6			1
AA136	1	1600		300		275	10			300		275	7			
AA136B	4	600	56TB1-S 8	138	N				SHLD AA136	20	N				3	
AA136L			56J14-M6	138	N				56TB1-U 8	138	N				1	1
AA136R			56J14-L6	138	N				56TB1-T 8	138	N				1	1
AA136W			56J14-N6	138	N				56TB1-U 7	138	N				1	1
AA137	4	600	56J14-R6	138	N				56E 33	20	N				3	
AA138	4	900	56J14-H3	138	N				56J15-L1	138	N				2	1
AA139	4	900	56J14-C5	138	N				56J15-N4	138	N				1	1
AA140	4	900	56J14-C6	138	N				56J15-P4	138	N				1	1
AA141	4	900	56J14-C3	138	N				56J15-N3	138	N				1	1
AA142	4	900	56J14-C4	138	N				56J15-P3	138	N				1	1
AA143	4	900	56J14-C1	138	N				56J15-N2	138	N				1	1
AA144	4	900	56J14-C2	138	N				56J15-P2	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 18

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA145	4	900	56J14-H4	138	N			56J15-M1	138	N			1	1
AA146	4	900	56J14-K3	138	N			56J15-N1	138	N			2	1
AA147	4	900	56J14-K4	138	N			56J15-P1	138	N			1	1
AA148	4	900	56J14-F6	138	N			56J15-L2	138	N			1	1
AA149	4	900	56J14-G6	138	N			56J15-M2	138	N			1	1
AA150R	4	900	56J14-R1	138	N			56J15-R5	138	N			2	2
AA150W	4	900	56J14-S1	138	N			56J15-S5	138	N			2	2
AA151	4	900	56J14-H5	138	N			56J15-K3	138	N			2	2
AA152	4	900	56J14-S6	138	N			56J15-S2	138	N			2	1
AA153	4	900	56J14-R6	138	N			56J15-R2	138	N			2	1
AA154R	4	1400	56J14-R4	138	N			56J17-S5	138	N			2	1
AA154W	4	1400	56J14-S4	138	N			56J17-T5	138	N			2	1
AA155K	3	1800	56J15-B2	88	N			56TB1-B 7	138	N			1	1
AA155L	3	1800	56J15-B1	88	N			56TB1-C 7	138	N			1	1
AA155R	3	1800	56J15-A2	88	N			56TB1-B 8	138	N			1	1
AA155W	3	1800	56J15-A1	88	N			56TB1-C 8	138	N			1	1
AA156	4	1500	56J15-R1	138	N			56TB2-C 2	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 19

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA157R	4	2100	56J15-R2	138	N			56J21-101	10	N	6		2	1
AA157W	4	2100	56J15-P1	138	N			56J21-102	10	N	6		2	1
AA158	4	600	56J15-L5	138	N			56E 35	20	N	7		1	
AA159	4	600	56J15-L5	138	N			56E 36	20	N	7		2	
AA160	4	600	56J15-L5	138	N			56E 37	20	N	7		3	
AA161L	3	1500	56J15-D1	88	N			56TB2-C 5	138	N			1	1
AA161R	3	1500	56J15-C1	88	N			56TB2-A 5	138	N			1	1
AA161W	3	1500	56J15-C2	88	N			56TB2-B 5	138	N			1	1
AA162L	3	1500	56J15-F2	88	N			56TB2-C 6	138	N			1	1
AA162R	3	1500	56J15-D2	88	N			56TB2-A 6	138	N			1	1
AA162W	3	1500	56J15-F1	88	N			56TB2-B 6	138	N			1	1
AA163L	3	1500	56J15-C3	88	N			56TB2-C 4	138	N			1	1
AA163R	3	1500	56J15-D3	88	N			56TB2-A 4	138	N			1	1
AA163W	3	1500	56J15-D4	88	N			56TB2-B 4	138	N			1	1
AA164	3	600	56J15-A5	88	N			56E 38	20	N	7		2	
AA165	3	600	56J15-A7	88	N			56E 40	20	N	7		3	
AA166	3	600	56J15-A9	88	N			56E 42	20	N	7		3	

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 20

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA167	3	600	56J15-A5	88	N			56E 39	20	N	8		3	
AA168	3	600	56J15-A7	88	N			56E 41	20	N	8		2	
AA169	3	600	56J15-A9	88	N			56E 43	20	N	8		2	
AA170	4	1500	56J15-H4	138	N			56TB2-C 1	138	N			2	1
AA171L	3	1500	56J15-F7	88	N			56TB2-C 8	138	N			1	1
AA171R	3	1500	56J15-D7	88	N			56TB2-B 8	138	N			1	1
AA171W	3	1500	56J15-D8	88	N			56TB2-A 8	138	N			1	1
AA172L	3	1500	56J15-D9	88	N			56TB2-C 7	138	N			1	1
AA172R	3	1500	56J15-F9	88	N			56TB2-B 7	138	N			1	1
AA172W	3	1500	56J15-F8	88	N			56TB2-A 7	138	N			1	1
AA173	4	1500	56J15-S1	138	N			56TB2-B 2	138	N			2	1
AA174	4	1500	56J15-S3	138	N			56TB2-B 1	138	N			1	1
AA175	4	2100	56J15-S3	138	N			56J22-227	10	N	6		2	1
AA176	5	1500		250 225		11			300 275		7			
AA176B	4	600	56TB2-D 3	138	N			SHLD AA176	20	N			1	
AA176L			56J15-B3	88	N			56TB2-D 2	138	N			1	1
AA176R			56E 59	20	N	7		56TB2-F 3	138	N				2

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 21

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA177	4	1500	56J15-R6	138	N			56TB2-D 1	138	N			1	1
AA178	4	1800	56J15-H5	138	N			56J20-H4	138	N			1	1
AA179	4	1800	56J15-S2	138	N			56J20-K1	138	N			2	1
AA180R	3	900	56J15-A4	88	N			56J16-B2	88	N			1	1
AA180W	3	900	56J15-A5	88	N			56J16-B1	88	N			1	1
AA181R	3	900	56J15-A6	88	N			56J16-B4	88	N			1	1
AA181W	3	900	56J15-A7	88	N			56J16-B3	88	N			1	1
AA182R	3	900	56J15-A8	88	N			56J16-B6	88	N			1	1
AA182W	3	900	56J15-A9	88	N			56J16-B5	88	N			1	1
AA183	4	900	56J15-S1	138	N			56J16-L2	138	N			1	1
AA184	4	900	56J15-H4	138	N			56J16-L1	138	N			1	1
AA185R	4	900	56J15-P5	138	N			56J16-S3	138	N			1	1
AA185W	4	900	56J15-P6	138	N			56J16-S4	138	N			1	1
AA186	4	900	56J15-S6	138	N			56J16-S2	138	N			1	1
AA187	4	900	56J15-K3	138	N			56J16-N4	138	N			1	1
AA188R	4	1100	56J15-R5	138	N			56J17-L4	138	N			1	1
AA188W	4	1100	56J15-S5	138	N			56J17-L5	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 22

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N	2	TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N	2	TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA189	4	1600	56J16-S5	138	N			56J20-N5	138	N			1	1
AA190	4	1600	56J16-S6	138	N			56J20-N6	138	N			1	1
AA191R	4	1600	56J16-N5	138	N			56J20-L3	138	N			2	1
AA191W	4	1600	56J16-P5	138	N			56J20-K3	138	N			2	1
AA192R	4	1600	56J16-N6	138	N			56J20-M4	138	N			1	1
AA192W	4	1600	56J16-P6	138	N			56J20-L4	138	N			1	1
AA193	4	1600	56J16-S2	138	N			56J20-K2	138	N			2	2
AA194R	3	1700	56J16-D2	88	N			56TB2-G 3	138	N			1	1
AA194W	3	1700	56J16-D1	88	N			56TB2-H 3	138	N			1	1
AA195R	3	1700	56J16-D2	88	N			56TB2-G 2	138	N			2	3
AA195W	3	1700	56J16-C2	88	N			56TB2-H 2	138	N			1	2
AA196R	3	1700	56J16-D2	88	N			56TB2-G 1	138	N			3	1
AA196W	3	1700	56J16-C1	88	N			56TB2-H 1	138	N			1	1
AA197	1	1700		250		225	7		300		275	1		
AA197A	4	600	SHLD AA197	20	N			56J16-B1	88	N				2
AA197L			56J16-B1	88	N			56TB2-T 7	138	N			3	1
AA197R			56J16-A1	88	N			56TB2-U 6	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 23

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N	2	TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N	2	TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA197W			56J16-A2	88	N			56TB2-T 6	138	N			1	1
AA198R	4	1700	56J16-P1	138	N			56TB2-L 6	138	N			1	1
AA198W	4	1700	56J16-R1	138	N			56TB2-L 5	138	N			1	1
AA199R	3	1700	56J16-D4	88	N			56TB2-G 6	138	N			1	1
AA199W	3	1700	56J16-D3	88	N			56TB2-H 6	138	N			1	1
AA200R	3	1700	56J16-D4	88	N			56TB2-G 7	138	N			2	3
AA200W	3	1700	56J16-C4	88	N			56TB2-H 7	138	N			1	2
AA201R	3	1700	56J16-D4	88	N			56TB2-G 8	138	N			3	1
AA201W	3	1700	56J16-C3	88	N			56TB2-H 8	138	N			1	1
AA202	1	1700		250		225	7		300		275	1		
AA202A	4	600	SHLD AA202	20	N			56J16-B3	88	N				2
AA202L			56J16-B3	88	N			56TB2-X 6	138	N			3	1
AA202R			56J16-A3	88	N			56TB2-W 5	138	N			1	1
AA202W			56J16-A4	88	N			56TB2-X 5	138	N			1	1
AA203R	4	1700	56J16-P3	138	N			56TB2-K 3	138	N			1	1
AA203W	4	1700	56J16-R3	138	N			56TB2-L 3	138	N			1	1
AA204L	3	1700	56J16-C9	88	N			56TB2-R 8	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 24

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N	2	TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N	2	TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA204R	3	1700	56J16-C8	88	N			56TB2-N 7	138	N			1	1
AA204W	3	1700	56J16-B8	88	N			56TB2-N 8	138	N			1	1
AA205L	3	1700	56J16-B9	88	N			56TB2-T 8	138	N			1	1
AA205R	3	1700	56J16-A9	88	N			56TB2-U 8	138	N			1	1
AA205W	3	1700	56J16-A8	88	N			56TB2-U 7	138	N			1	1
AA206R	3	1700	56J16-D6	88	N			56TB2-R 1	138	N			1	1
AA206W	3	1700	56J16-D5	88	N			56TB2-N 1	138	N			1	1
AA207R	3	1700	56J16-D6	88	N			56TB2-R 2	138	N			2	3
AA207W	3	1700	56J16-C6	88	N			56TB2-N 2	138	N			1	2
AA208R	3	1700	56J16-C5	88	N			56TB2-N 3	138	N			1	1
AA208W	3	1700	56J16-D6	88	N			56TB2-R 3	138	N			3	2
AA209L	3	1700	56J16-F8	88	N			56TB2-X 4	138	N			1	1
AA209R	3	1700	56J16-D7	88	N			56TB2-W 3	138	N			1	1
AA209W	3	1700	56J16-F7	88	N			56TB2-W 4	138	N			1	1
AA210	4	1700	56J16-S1	138	N			56TB2-N 5	138	N			1	1
AA211	4	1700	56J16-T1	138	N			56TB2-R 5	138	N			1	1
AA212	4	1700	56J16-T2	138	N			56TB2-K 8	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 25

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N	2	TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	T I N	2	TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA213L	3	1700	56J16-F9	88	N			56TB2-X 2	138	N			1	1
AA213R	3	1700	56J16-D9	88	N			56TB2-W 2	138	N			1	1
AA213W	3	1700	56J16-D8	88	N			56TB2-X 3	138	N			1	1
AA214	1	1700		250		225	7		300		275	1		
AA214A	4	600	SHLD AA214	20	N			56J16-B5	88	N				2
AA214L			56J16-B5	88	N			56TB2-R 7	138	N			3	1
AA214R			56J16-A5	88	N			56TB2-N 6	138	N			1	1
AA214W			56J16-A6	88	N			56TB2-R 6	138	N			1	1
AA215R	4	1700	56J16-N2	138	N			56TB2-K 5	138	N			1	1
AA215W	4	1700	56J16-N1	138	N			56TB2-K 6	138	N			1	1
AA216	3	1700	56J16-F2	88	N			56TB2-W 1	138	N			1	1
AA217	3	1700	56J16-F4	88	N			56TB2-X 1	138	N			1	1
AA218	3	1700	56J16-F6	88	N			56TB2-S 1	138	N			1	1
AA219	3	1700	56J16-F5	88	N			56TB2-T 1	138	N			1	1
AA220	4	1900	56J16-L1	138	N			56J22-228	10	N		6	2	1
AA221	4	1700	56J16-M1	138	N			56TB2-R 4	138	N			1	1
AA222K	4	1700	56J16-R4	138	N			56TB2-H 5	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 26

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA222L	4	1700	56J16-S3	138	N				56TB2-H 4	138	N				2	1
AA222R	4	1700	56J16-S4	138	N				56TB2-G 4	138	N				2	1
AA222W	4	1700	56J16-P4	138	N				56TB2-G 5	138	N				1	1
AA223	4	1700	56J16-P2	138	N				56TB2-K 4	138	N				1	2
AA224R	4	1700	56J16-N5	138	N				56TB2-L 1	138	N				3	2
AA224W	4	1700	56J16-P5	138	N				56TB2-K 1	138	N				3	2
AA225R	4	1700	56J16-N6	138	N				56TB2-T 2	138	N				2	2
AA225W	4	1700	56J16-P6	138	N				56TB2-U 3	138	N				2	1
AA226	5	1900		300		275	8			50		25	9			
AA226A			SHLD AA226	20	N				56E 30	20	N		7			
AA226L			56J16-L3	138	N				56J21- 35	10	N		6		1	1
AA226R			56J16-L4	138	N				56J21- 34	10	N		6		2	1
AA227	5	1900		300		275	8			50		25	9			
AA227A			SHLD AA227	20	N				56E 30	20	N					
AA227L			56J16-L3	138	N				56J21- 69	10	N		6		2	1
AA227R			56J16-M4	138	N				56J21- 68	10	N		6		2	1
AA228	4	1500	56J16-R5	138	N				56TB3-L20	138	N				1	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 27

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA229	4	1500	56J16-R6	138	N				56TB3-L20	138	N				1	3
AA230L	4	1700	56J16-G2	138	N				56TB2-W 7	138	N				1	1
AA230R	4	1700	56J16-H1	138	N				56TB2-X 7	138	N				1	1
AA230W	4	1700	56J16-G1	138	N				56TB2-W 6	138	N				1	1
AA231L	4	1700	56J16-G4	138	N				56TB2-U 4	138	N				1	1
AA231R	4	1700	56J16-H3	138	N				56TB2-T 5	138	N				1	1
AA231W	4	1700	56J16-G3	138	N				56TB2-U 5	138	N				1	1
AA232	1	1800		300		275	7			300		275	7			
AA232A	4	600	SHLD AA232	20	N				56E 30	20	N					
AA232B	4	600	56E 31	20	N				SHLD AA232	20	N					
AA232L			56J16-L4	138	N				56J12-D1	138	N				1	1
AA232R			56J16-M4	138	N				56J12-D2	138	N				1	1
AA232W			56J16-L3	138	N				56E 31	20	N				3	
AA233R	4	1100	56J16-N5	138	N				56J18-S6	138	N				1	1
AA233W	4	1100	56J16-P5	138	N				56J18-T6	138	N				1	1
AA234	4	900	56J16-N4	138	N				56J17-L6	138	N				2	2
AA235	4	1400	56J17-P6	138	N				56TB3-F 3	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 28

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA236	4	1400	56J17-T4	138	N				56J20-M1	138	N				1	2
AA237	4	1400	56J17-T3	138	N				56J20-M2	138	N				1	2
AA238	4	1400	56J17-T1	138	N				56J20-P3	138	N				2	1
AA239	4	1400	56J17-T2	138	N				56J20-P4	138	N				2	1
AA240	4	900	56J17-T6	138	N				56J18-S1	138	N				1	1
AA241	4	900	56J17-L6	138	N				56J18-R5	138	N				1	1
AA242L	4	900	56J17-K4	138	N				56J18-K1	138	N				1	1
AA242R	4	900	56J17-G4	138	N				56J18-L1	138	N				1	1
AA242W	4	600	56J17-H4	138	N				56E 53	20	N		7		1	
AA243L	4	900	56J17-K6	138	N				56J18-K4	138	N				1	1
AA243R	4	900	56J17-G6	138	N				56J18-L4	138	N				1	1
AA243W	4	600	56J17-H6	138	N				56E 51	20	N		7		1	
AA244	5	1600		250		225	9			50		25	8			
AA244B	4	600	56J22- 41	10	N		6		SHLD AA244	20	N				1	
AA244L			56J17-A4	88	N				56J22- 3	10	N		6		1	1
AA244R			56J17-B4	88	N				56J22- 4	10	N		6		1	1
AA245	5	1600		250		225	9			50		25	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 29

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA245B	4	600	56J22- 5	10	N		6		SHLD AA245	20	N				1	
AA245L			56J17-C4	88	N				56J22- 6	10	N		6		1	1
AA245R			56J17-D4	88	N				56J22- 43	10	N		6		1	1
AA246	5	1600		225		250	9			50		25	8			
AA246B	4	600	56J22- 8	10	N		6		SHLD AA246	20	N				1	
AA246L			56J17-C3	88	N				56J22- 45	10	N		6		1	1
AA246R			56J17-D3	88	N				56J22- 46	10	N		6		1	1
AA247R	3	1400	56J17-D2	88	N				56TB3-R 4	138	N				1	1
AA247W	3	1400	56J17-D3	88	N				56TB3-R 5	138	N				2	1
AA248	4	1400	56J17-S2	138	N				56TB3-T 3	138	N				2	3
AA249	3	1400	56J17-F8	88	N				56TB3-L 2	138	N				1	1
AA250R	4	1400	56J17-P4	138	N				56TB3-C 2	138	N				1	1
AA250W	4	1400	56J17-R4	138	N				56TB3-D 2	138	N				1	1
AA251	3	1400	56J17-D8	88	N				56TB3-M 2	138	N				1	1
AA252	3	1400	56J17-B7	88	N				56TB3-H 3	138	N				1	1
AA253	3	1400	56J17-B8	88	N				56TB3-G 3	138	N				1	1
AA254	3	1400	56J17-C7	88	N				56TB3-G 4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 30

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA255	3	1400	56J17-D6	88	N				56TB3-M 5	138	N				1	1
AA256	3	1400	56J17-D7	88	N				56TB3-M 4	138	N				1	1
AA257	3	1400	56J17-F7	88	N				56TB3-C 1	138	N				1	1
AA258K	4	1400	56J17-N6	138	N				56TB3-G 1	138	N				1	1
AA258L	4	1400	56J17-N5	138	N				56TB3-G 2	138	N				1	1
AA258R	4	1400	56J17-M6	138	N				56TB3-H 1	138	N				1	1
AA258W	4	1400	56J17-M5	138	N				56TB3-H 2	138	N				1	1
AA259	4	1400	56J17-H1	138	N				56TB3-K 2	138	N				1	1
AA260	4	1400	56J17-H2	138	N				56TB3-K 1	138	N				1	1
AA261	4	1400	56J17-G1	138	N				56TB3-K 5	138	N				1	1
AA262	4	1400	56J17-G2	138	N				56TB3-H 5	138	N				1	1
AA263	4	1400	56J17-L1	138	N				56TB3-L 5	138	N				1	1
AA264	4	1400	56J17-M1	138	N				56TB3-D 1	138	N				1	1
AA265	5	1400		300		275	9			300		275	8			
AA265B	4	600	56TB3-S 3	138	N				SHLD AA265	20	N				2	
AA265L			56J17-M4	138	N				56TB3-N 1	138	N				1	1
AA265R			56J17-N4	138	N				56TB3-N 2	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608

SCALE - NONE | REV LTR D | SHEET 31

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA266	3	1400	56J17-C5	88	N				56TB3-K 3	138	N				1	1
AA267	3	1400	56J17-B6	88	N				56TB3-L 4	138	N				1	1
AA268	3	1400	56J17-B5	88	N				56TB3-L 3	138	N				1	1
AA269	3	1400	56J17-D5	88	N				56TB3-M 1	138	N				1	1
AA270	5	1400		300		275	9			300		275	8			
AA270B	4	600	56TB3-N 3	138	N				SHLD AA270	20	N				1	
AA270L			56J17-N1	138	N				56TB3-N 4	138	N				1	1
AA270R			56J17-P1	138	N				56TB3-N 5	138	N				1	1
AA271	3	1400	56J17-F6	88	N				56TB3-C 4	138	N				1	1
AA272	3	1400	56J17-F5	88	N				56TB3-D 4	138	N				1	1
AA273	3	1400	56J17-F4	88	N				56TB3-C 5	138	N				1	1
AA274	3	1400	56J17-F3	88	N				56TB3-D 5	138	N				1	1
AA275	4	1400	56J17-P5	138	N				56TB3-D 3	138	N				1	1
AA276	3	1400	56J17-C6	88	N				56TB3-H 4	138	N				1	1
AA277	4	1400	56J17-M2	138	N				56TB3-G 5	138	N				1	1
AA278	4	1400	56J17-M3	138	N				56TB3-F 1	138	N				2	1
AA280	4	1400	56J17-R5	138	N				56TB3-M21	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608

SCALE · NONE | REV LTR D | SHEET 32

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA281L	3	1400	56J17-A8	88	N				56TB3-T 6	138	N				1	1
AA281R	3	1400	56J17-A7	88	N				56TB3-T 5	138	N				1	1
AA281W	3	1400	56J17-A6	88	N				56TB3-T 4	138	N				1	1
AA282	4	1400	56J17-R6	138	N				56TB3-L21	138	N				2	2
AA283	4	600	56J17-R6	138	N				56J17-S6	138	N				1	1
AA284L	3	1400	56J17-F9	88	N				56TB3-S 4	138	N				1	1
AA284R	3	1400	56J17-D9	88	N				56TB3-S 5	138	N				1	1
AA284W	3	1400	56J17-C9	88	N				56TB3-S 6	138	N				1	1
AA285	3	1400	56J17-A9	88	N				56TB3-M 3	138	N				1	1
AA286	3	1400	56J17-B9	88	N				56TB3-K 4	138	N				1	1
AA287	5	1600		250		225	9			50		25	8			
AA287B	4	600	56J22- 2	10	N		6		SHLD AA287	20	N				1	
AA287L			56J17-A3	88	N				56J22- 1	10	N		6		1	1
AA287R			56J17-B3	88	N				56J22- 39	10	N		6		1	1
AA288	5	1600		250		225	9			50		25	8			
AA288B	4	600	56J22- 11	10	N		6		SHLD AA288	20	N				1	
AA288L			56J17-D1	88	N				56J22- 48	10	N		6		1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608

SCALE - NONE | REV LTR D | SHEET 33

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA288R			56J17-C1	88	N				56J22- 10	10	N		6		1	1
AA289R	3	1400	56J17-C2	88	N				56TB3-M14	138	N				1	1
AA289W	3	1400	56J17-C1	88	N				56TB3-M13	138	N				2	1
AA290	3	1400	56J17-C8	88	N				56TB3-L 1	138	N				1	1
AA291	4	600	56J17-S1	138	N				56J17-S2	138	N				1	1
AA292	4	1600	56J17-M3	138	N				56J22-206	10	N		6		3	1
AA293	4	1600	56J17-L3	138	N				56J22-243	10	N		6		1	1
AA294	4	600	56J17-T1	138	N				56J17-T2	138	N				1	1
AA295	4	1400	56J17-S3	138	N				56TB3-N 3	138	N				1	2
AA296	4	1400	56J17-S1	138	N				56TB3-S 3	138	N				2	3
AA297	4	1400	56J17-S4	138	N				56TB3-R 3	138	N				1	3
AA298	4	900	56J18-S1	138	N				56J19-T1	138	N				2	2
AA299R	3	900	56J18-F2	88	N				56J19-F4	88	N				1	1
AA299W	3	900	56J18-F1	88	N				56J19-D4	88	N				1	1
AA300R	3	900	56J18-C8	88	N				56J19-B2	88	N				1	1
AA300W	3	900	56J18-B8	88	N				56J19-C1	88	N				1	1
AA301R	3	900	56J18-D9	88	N				56J19-B3	88	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608

SCALE - NONE | REV LTR D | SHEET 34

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR		INDIVIDUAL LENGTH	FROM						TO							
NUMBER	ITEM NO.	2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA301W	3	900	56J18-C9	88	N				56J19-A4	88	N				1	1
AA302K	4	900	56J18-G5	138	N				56J19-H6	138	N				1	1
AA302L	4	900	56J18-H5	138	N				56J19-H5	138	N				1	1
AA302R	4	900	56J18-H6	138	N				56J19-G5	138	N				1	1
AA302W	4	900	56J18-G6	138	N				56J19-G6	138	N				1	1
AA303	4	900	56J18-P3	138	N				56J19-R4	138	N				2	2
AA304R	4	900	56J18-S6	138	N				56J19-N6	138	N				2	1
AA304W	4	900	56J18-T6	138	N				56J19-P6	138	N				2	1
AA305	4	900	56J18-S5	138	N				56J19-P5	138	N				2	2
AA306	4	900	56J18-R5	138	N				56J19-P3	138	N				2	2
AA307	5	1400		250		225	11			300		275	7			
AA307B	4	600	56TB3-R 9	138	N				SHLD AA307	20	N				3	
AA307L			56J18-C2	88	N				56TB3-T 8	138	N				1	1
AA307R			56J18-B2	88	N				56TB3-T 7	138	N				1	1
AA308	5	1400		250		225	11			300		275	7			
AA308B	4	600	56TB3-N 9	138	N				SHLD AA308	20	N				3	
AA308L			56J18-A1	88	N				56TB3-S 8	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 35

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR		INDIVIDUAL LENGTH	FROM						TO							
NUMBER	ITEM NO.	2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA308R			56J18-B1	88	N				56TB3-S 7	138	N				1	1
AA309	5	1400		250		225	11			300		275	7			
AA309B	4	600	56TB3-T 9	138	N				SHLD AA309	20	N				3	
AA309L			56J18-A2	88	N				56TB3-T10	138	N				1	1
AA309R			56J18-A3	88	N				56TB3-T11	138	N				1	1
AA310	5	1400		250		225	11			300		275	7			
AA310B	4	600	56TB3-S 9	138	N				SHLD AA310	20	N				3	
AA310L			56J18-B3	88	N				56TB3-S10	138	N				1	1
AA310R			56J18-B4	88	N				56TB3-S11	138	N				1	1
AA311R	3	1400	56J18-D3	88	N				56TB3-R 7	138	N				1	1
AA311W	3	1400	56J18-D2	88	N				56TB3-R 8	138	N				1	1
AA312R	3	1400	56J18-C1	88	N				56TB3-R11	138	N				1	1
AA312W	3	1400	56J18-D1	88	N				56TB3-R10	138	N				1	1
AA313R	3	1400	56J18-A5	88	N				56TB3-N 7	138	N				1	1
AA313W	3	1400	56J18-A4	88	N				56TB3-N 8	138	N				1	1
AA314R	3	1400	56J18-C5	88	N				56TB3-N11	138	N				1	1
AA314W	3	1400	56J18-B5	88	N				56TB3-N10	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 36

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR		INDIVIDUAL LENGTH	FROM						TO							
NUMBER	ITEM NO.	2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA315	5	1400		250		225	11			300		275	7			
AA315B	4	600	56TB3-M 9	138	N				SHLD AA315	20	N				3	
AA315L			56J18-A9	88	N				56TB3-M 8	138	N				1	1
AA315R			56J18-B9	88	N				56TB3-M 7	138	N				1	1
AA316	5	1400		250		225	11			300		275	7			
AA316B	4	600	56TB3-L 9	138	N				SHLD AA316	20	N				3	
AA316L			56J18-A8	88	N				56TB3-L 7	138	N				1	1
AA316R			56J18-A7	88	N				56TB3-L 8	138	N				1	1
AA317R	3	1400	56J18-B6	88	N				56TB3-L11	138	N				1	1
AA317W	3	1400	56J18-A6	88	N				56TB3-L10	138	N				1	1
AA318R	3	1400	56J18-F4	88	N				56TB3-K12	138	N				1	1
AA318W	3	1400	56J18-F3	88	N				56TB3-L12	138	N				1	1
AA319	4	1400	56J18-P1	138	N				56TB3-D12	138	N				1	1
AA320	4	1400	56J18-R1	138	N				56TB3-C12	138	N				1	1
AA321	4	1400	56J18-R2	138	N				56TB3-C11	138	N				1	1
AA322	4	1400	56J18-P2	138	N				56TB3-D11	138	N				1	1
AA323	4	600	56J18-S3	138	N				56J18-S4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 37

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR		INDIVIDUAL LENGTH	FROM						TO							
NUMBER	ITEM NO.	2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA324	4	600	56J18-T3	138	N				56J18-T4	138	N				1	1
AA325	4	1400	56J18-S3	138	N				56TB3-K20	138	N				2	1
AA326L	3	1400	56J18-F9	88	N				56TB3-M11	138	N				1	1
AA326R	3	1400	56J18-F8	88	N				56TB3-M12	138	N				1	1
AA326W	3	1400	56J18-D8	88	N				56TB3-M10	138	N				1	1
AA327	4	1400	56J18-T3	138	N				56TB3-K20	138	N				2	2
AA328L	4	1400	56J18-L6	138	N				56TB3-R12	138	N				1	1
AA328R	4	1400	56J18-L5	138	N				56TB3-S12	138	N				1	1
AA328W	4	1400	56J18-K6	138	N				56TB3-T12	138	N				1	1
AA329	5	1500		250		225	11			300		275	7			
AA329B	4	600	56TB3-H 9	138	N				SHLD AA329	20	N				3	
AA329L			56J19-C2	88	N				56TB3-H 8	138	N				1	1
AA329R			56J19-B2	88	N				56TB3-H 7	138	N				2	1
AA330R	3	1400	56J18-F2	88	N				56TB3-F10	138	N				2	1
AA330W	3	1400	56J18-F1	88	N				56TB3-G10	138	N				2	1
AA331	5	1500		250		225	11			300		275	7			
AA331B	4	600	56TB3-K 9	138	N				SHLD AA331	20	N				3	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 38

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA331L			56J19-B4	88	N			56TB3-H10	138	N			1	1
AA331R			56J19-B3	88	N			56TB3-H11	138	N			2	1
AA332R	4	1400	56J18-H1	138	N			56TB3-K11	138	N			1	1
AA332W	4	1400	56J18-G1	138	N			56TB3-K10	138	N			1	1
AA333	4	1400	56J18-R3	138	N			56TB3-K20	138	N			1	3
AA334R	3	1400	56J18-D6	88	N			56TB3-G13	138	N			1	1
AA334W	3	1400	56J18-C6	88	N			56TB3-G14	138	N			1	1
AA335R	3	1400	56J18-D7	88	N			56TB3-G12	138	N			1	1
AA335W	3	1400	56J18-C7	88	N			56TB3-G11	138	N			1	1
AA336R	3	1400	56J18-F7	88	N			56TB3-F12	138	N			1	1
AA336W	3	1400	56J18-F6	88	N			56TB3-F11	138	N			1	1
AA337	4	1400	56J18-R4	138	N			56TB3-B11	138	N			2	1
AA338R	3	1400	56J18-D4	88	N			56TB3-K 7	138	N			1	1
AA338W	3	1400	56J18-D5	88	N			56TB3-K 8	138	N			1	1
AA339	4	600	56J18-S5	138	N			56J18-T5	138	N			1	1
AA340R	4	1400	56J18-N1	138	N			56TB3-D 7	138	N			1	1
AA340W	4	1400	56J18-M1	138	N			56TB3-C 7	138	N			3	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 39

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA341R	4	1400	56J18-N3	138	N			56TB3-D 8	138	N			1	1
AA341W	4	1400	56J18-M3	138	N			56TB3-C 8	138	N			3	1
AA342R	4	1400	56J18-N4	138	N			56TB3-B 7	138	N			1	1
AA342W	4	1400	56J18-M4	138	N			56TB3-B 8	138	N			3	1
AA343R	4	1400	56J18-N6	138	N			56TB3-D 9	138	N			1	1
AA343W	4	1400	56J18-M6	138	N			56TB3-D10	138	N			2	1
AA344R	4	1400	56J18-H3	138	N			56TB3-F 7	138	N			1	1
AA344W	4	1400	56J18-G3	138	N			56TB3-G 7	138	N			1	1
AA345R	4	1400	56J18-H2	138	N			56TB3-F 8	138	N			1	1
AA345W	4	1400	56J18-G2	138	N			56TB3-G 8	138	N			1	1
AA346	4	600	56J18-H2	138	N			56E 52	20	N	8		2	
AA347	4	600	56J18-H2	138	N			56E 53	20	N			3	
AA348	4	600	56J18-H3	138	N			56E 50	20	N	8		2	
AA349	4	600	56J18-H3	138	N			56E 51	20	N			3	
AA350	4	600	56J18-M1	138	N			56J18-P3	138	N			2	1
AA351	4	600	56J18-M1	138	N			56J18-M2	138	N			1	1
AA352	4	600	56J18-M2	138	N			56J18-M3	138	N			2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 40

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA353	4	600	56J18-M3	138	N			56J18-M4	138	N			1	1
AA354	4	600	56J18-M4	138	N			56J18-M5	138	N			2	2
AA355	4	600	56J18-M5	138	N			56J18-M6	138	N			1	1
AA356	4	900	56J19-P3	138	N			56J20-G4	138	N			1	1
AA357	4	900	56J19-T1	138	N			56J20-M6	138	N			1	1
AA358R	4	1500	56J19-S2	138	N			56TB3-D17	138	N			1	1
AA358W	4	1500	56J19-S3	138	N			56TB3-D16	138	N			1	1
AA359R	4	1500	56J19-P1	138	N			56TB3-D18	138	N			1	1
AA359W	4	1500	56J19-R1	138	N			56TB3-F18	138	N			1	1
AA360R	4	1500	56J19-T2	138	N			56TB3-C17	138	N			1	1
AA360W	4	1500	56J19-T3	138	N			56TB3-C16	138	N			1	1
AA361R	4	1500	56J19-P2	138	N			56TB3-G17	138	N			1	1
AA361W	4	1500	56J19-R2	138	N			56TB3-F17	138	N			1	1
AA362	4	600	56J19-R5	138	N			56J19-S4	138	N			1	1
AA363	4	600	56J19-R6	138	N			56J19-T4	138	N			1	1
AA364	4	1500	56J19-S4	138	N			56TB3-K22	138	N			2	1
AA365	4	1500	56J19-T4	138	N			56TB3-L22	138	N			2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 41

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA366	4	600	56J19-S5	138	N			56J19-S6	138	N			1	1
AA367	4	1500	56J19-T6	138	N			56TB3-L22	138	N			2	2
AA368	4	600	56J19-T5	138	N			56J19-T6	138	N			1	1
AA369	4	1500	56J19-S5	138	N			56TB3-K22	138	N			2	2
AA370R	3	1500	56J19-B1	88	N			56TB3-T17	138	N			1	1
AA370W	3	1500	56J19-A1	88	N			56TB3-T16	138	N			1	1
AA371R	3	1500	56J19-A2	88	N			56TB3-S16	138	N			1	1
AA371W	3	1500	56J19-A3	88	N			56TB3-S17	138	N			1	1
AA372R	3	1500	56J19-A8	88	N			56TB3-R16	138	N			1	1
AA372W	3	1500	56J19-A9	88	N			56TB3-R17	138	N			1	1
AA373R	3	1500	56J19-C9	88	N			56TB3-N17	138	N			1	1
AA373W	3	1500	56J19-B9	88	N			56TB3-N16	138	N			1	1
AA374R	3	1500	56J19-D2	88	N			56TB3-M17	138	N			1	1
AA374W	3	1500	56J19-D1	88	N			56TB3-M16	138	N			1	1
AA375R	3	1500	56J19-B5	88	N			56TB3-H17	138	N			1	1
AA375W	3	1500	56J19-A5	88	N			56TB3-H16	138	N			1	1
AA376	3	1500	56J19-C5	88	N			56TB3-S18	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 42

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH (2)	FROM: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	(2)	TIN	FROM: TERMINATION SPEC. (1) ITEM NO.	NO.	TO: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	(2)	TIN	TO: TERMINATION SPEC (1) ITEM NO.	NO.	W-W FR	TO
AA377R	3	1500	56J19-B8	88	N			56TB3-K17	138	N			1	1
AA377W	3	1500	56J19-B7	88	N			56TB3-K16	138	N			1	1
AA378	3	1500	56J19-A7	88	N			56TB3-R18	138	N			1	1
AA379R	3	1500	56J19-C8	88	N			56TB3-L16	138	N			1	1
AA379W	3	1500	56J19-D8	88	N			56TB3-L17	138	N			1	1
AA380	3	1500	56J19-C7	88	N			56TB3-T18	138	N			1	1
AA381R	3	1500	56J19-F6	88	N			56TB3-G16	138	N			1	1
AA381W	3	1500	56J19-F5	88	N			56TB3-F16	138	N			1	1
AA382R	4	1500	56J19-G1	138	N			56TB3-T13	138	N			1	1
AA382W	4	1500	56J19-H1	138	N			56TB3-T14	138	N			1	1
AA383R	4	1500	56J19-G2	138	N			56TB3-S14	138	N			1	1
AA383W	4	1500	56J19-G3	138	N			56TB3-S13	138	N			1	1
AA384	3	1500	56J19-C3	88	N			56TB3-N18	138	N			1	1
AA385	3	1500	56J19-C4	88	N			56TB3-M18	138	N			1	1
AA386R	3	1500	56J19-F8	88	N			56TB3-R14	138	N			1	1
AA386W	3	1500	56J19-F9	88	N			56TB3-R13	138	N			1	1
AA387	4	1500	56J19-M6	138	N			56TB3-G18	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 43

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH (2)	FROM: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	(2)	TIN	FROM: TERMINATION SPEC. (1) ITEM NO.	NO.	TO: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	(2)	TIN	TO: TERMINATION SPEC (1) ITEM NO.	NO.	W-W FR	TO
AA388	4	1500	56J19-M5	138	N			56TB3-K18	138	N			1	1
AA389	4	1500	56J19-N5	138	N			56TB3-L18	138	N			1	1
AA390	4	1500	56J19-R4	138	N			56TB3-K21	138	N			3	2
AA391R	4	1500	56J19-L1	138	N			56TB3-C 9	138	N			1	1
AA391W	4	1500	56J19-K1	138	N			56TB3-C10	138	N			3	1
AA392R	4	1500	56J19-L3	138	N			56TB3-B 9	138	N			1	1
AA392W	4	1500	56J19-K3	138	N			56TB3-B10	138	N			3	1
AA393	4	1500	56J19-P5	138	N			56TB3-K21	138	N			3	3
AA394	4	600	56J19-P4	138	N			56J19-P5	138	N			1	1
AA396R	3	1500	56J19-D6	88	N			56TB3-N13	138	N			1	1
AA396W	3	1500	56J19-D5	88	N			56TB3-N14	138	N			1	1
AA397	4	600	56J19-K1	138	N			56J19-R4	138	N			2	1
AA398	4	600	56J19-K1	138	N			56J19-K2	138	N			1	1
AA399	4	600	56J19-K2	138	N			56J19-K3	138	N			2	2
AA400	4	600	56J19-K3	138	N			56J19-K4	138	N			1	1
AA401	4	600	56J19-K4	138	N			56J19-K5	138	N			2	2
AA402	4	600	56J19-K5	138	N			56J19-K6	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 44

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH (2)	FROM: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	(2)	TIN	FROM: TERMINATION SPEC. (1) ITEM NO.	NO.	TO: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	(2)	TIN	TO: TERMINATION SPEC (1) ITEM NO.	NO.	W-W FR	TO
AA403	4	1000	56J20-L5	138	N			56J21- 37	10	N	6		1	1
AA404	4	1700	56J20-L5	138	N			56TB3-M22	138	N			2	2
AA405	4	1700	56J20-M5	138	N			56TB3-M21	138	N			1	2
AA406	4	1700	56J20-N6	138	N			56TB3-H20	138	N			2	1
AA407	4	1700	56J20-N4	138	N			56TB3-L21	138	N			1	3
AA408	4	1700	56J20-N3	138	N			56TB3-K22	138	N			1	3
AA409R	4	2500	56J20-F6	138	N			56TB2-H 4	138	N			1	2
AA409W	4	2500	56J20-F5	138	N			56TB2-G 4	138	N			1	2
AA410R	4	1700	56J20-F6	138	N			56TB3-B19	138	N			2	1
AA410W	4	1700	56J20-F5	138	N			56TB3-B18	138	N			2	1
AA411	4	600	56J20-G5	138	N			56J20-H5	138	N			1	1
AA412R	4	1700	56J20-H6	138	N			56TB3-C 3	138	N			2	1
AA412W	4	1700	56J20-H5	138	N			56TB3-D 2	138	N			2	2
AA413	4	600	56J20-G6	138	N			56J20-H6	138	N			1	1
AA414	4	1700	56J20-A4	138	N			56TB3-K19	138	N			1	1
AA415	4	1700	56J20-B4	138	N			56TB3-H19	138	N			1	1
AA416	4	1700	56J20-A1	138	N			56TB3-G19	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 45

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH (2)	FROM: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	(2)	TIN	FROM: TERMINATION SPEC. (1) ITEM NO.	NO.	TO: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	(2)	TIN	TO: TERMINATION SPEC (1) ITEM NO.	NO.	W-W FR	TO
AA417	4	1700	56J20-A2	138	N			56TB3-F19	138	N			1	1
AA418	4	1700	56J20-B1	138	N			56TB3-D19	138	N			1	1
AA419R	4	1700	56J20-B3	138	N			56TB3-N21	138	N			1	1
AA419W	4	1700	56J20-A3	138	N			56TB3-N20	138	N			1	1
AA420	4	1700	56J20-K5	138	N			56TB3-G21	138	N			1	1
AA421	4	1700	56J20-K6	138	N			56TB3-G22	138	N			1	1
AA422	4	1700	56J20-H4	138	N			56TB3-R20	138	N			2	1
AA423	4	1000	56J20-H4	138	N			56J21-234	10	N	6		3	1
AA424	4	1700	56J20-K4	138	N			56TB3-N19	138	N			1	1
AA425	4	1700	56J20-C6	138	N			56TB3-L19	138	N			1	1
AA426	4	1700	56J20-D6	138	N			56TB3-M19	138	N			1	1
AA427R	4	1700	56J20-B5	138	N			56TB3-T19	138	N			1	1
AA427W	4	1700	56J20-C5	138	N			56TB3-S19	138	N			1	1
AA428	4	1700	56J20-N1	138	N			56TB3-C20	138	N			2	1
AA429	4	600	56J20-N1	138	N			56J20-P1	138	N			1	1
AA431	4	600	56J20-R1	138	N			56J20-S1	138	N			1	1
AA432	4	1700	56J20-S1	138	N			56TB3-C21	138	N			2	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 46

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	FROM TIN	FROM STRIP JACKET	FROM TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TO TIN	TO STRIP JACKET	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA433	4	1700	56J20-N2	138	N			56TB3-D20	138	N			2	1
AA434	4	600	56J20-N2	138	N			56J20-P2	138	N			1	1
AA436	4	600	56J20-R2	138	N			56J20-S2	138	N			1	1
AA437	4	1700	56J20-S2	138	N			56TB3-D21	138	N			2	1
AA438	4	600	56J20-L1	138	N			56J20-M1	138	N			2	1
AA439	4	600	56J20-L1	138	N			56J20-L2	138	N			1	1
AA440	4	600	56J20-L2	138	N			56J20-M2	138	N			2	1
AA441	4	1700	56J20-R3	138	N			56TB3-D22	138	N			2	1
AA442	4	600	56J20-R3	138	N			56J20-S3	138	N			1	1
AA443	4	1700	56J20-R4	138	N			56TB3-C22	138	N			2	1
AA444	4	600	56J20-R4	138	N			56J20-S4	138	N			1	1
AA445	4	1700	56J20-P3	138	N			56TB3-N22	138	N			2	1
AA446	4	1700	56J20-P5	138	N			56TB3-H21	138	N			2	1
AA447	4	600	56J20-P5	138	N			56J20-R5	138	N			1	1
AA448	4	600	56J20-R5	138	N			56J20-S5	138	N			2	1
AA449	4	1700	56J20-S5	138	N			56TB3-H21	138	N			2	2
AA450	4	1700	56J20-P6	138	N			56TB3-H22	138	N			2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 47

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	FROM TIN	FROM STRIP JACKET	FROM TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TO TIN	TO STRIP JACKET	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA451	4	600	56J20-P6	138	N			56J20-R6	138	N			1	1
AA452	4	600	56J20-R6	138	N			56J20-S6	138	N			2	1
AA453	4	1700	56J20-S6	138	N			56TB3-H22	138	N			2	2
AA454	4	1700	56J20-K1	138	N			56TB3-T20	138	N			2	2
AA455	4	1700	56J20-K1	138	N			56TB3-T21	138	N			3	3
AA456	4	1700	56J20-K2	138	N			56TB3-S21	138	N			3	2
AA457	4	1700	56J20-M6	138	N			56TB3-M20	138	N			2	3
AA458	4	600	56J20-G1	138	N			56J20-H1	138	N			1	1
AA459	4	600	56J20-H1	138	N			56J20-H2	138	N			2	1
AA460	4	2500	56J20-G1	138	N			56TB2-M 7	138	N			2	3
AA461	4	2500	56J20-H2	138	N			56TB2-M 1	138	N			2	3
AA462	4	1700	56J20-G4	138	N			56TB3-F22	138	N			2	2
AA463R	4	1700	56J20-D4	138	N			56TB3-S20	138	N			1	1
AA463W	4	1700	56J20-D5	138	N			56TB3-R19	138	N			1	1
AA464R	4	1700	56J20-A6	138	N			56TB3-L13	138	N			1	1
AA464W	4	1700	56J20-B6	138	N			56TB3-K13	138	N			1	1
AA465R	4	1700	56J20-H3	138	N			56TB3-L14	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 48

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	FROM TIN	FROM STRIP JACKET	FROM TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TO TIN	TO STRIP JACKET	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA465W	4	1700	56J20-G3	138	N			56TB3-K14	138	N			1	1
AA466	4	600	56TB3-H12	138	N			56TB3-R 3	138	N			1	1
AA467	5	2100		50		25	8		300		275	9		
AA467A	4	600	SHLD AA467	20	N			56E 46	20	N		8		
AA467L			56J21-126	10	N		6	56J15-M5	138	N			1	1
AA467R			56J21-125	10	N		6	56E 35	20	N			1	
AA468	5	2100		50		25	8		300		275	9		
AA468A	4	600	SHLD AA468	20	N			56E 46	20	N				
AA468L			56J21- 93	10	N		6	56J15-M6	138	N			1	1
AA468R			56J21- 92	10	N		6	56E 35	20	N			1	
AA469	5	2100		50		25	8		300		275	9		
AA469A	4	600	SHLD AA469	20	N			56E 46	20	N				
AA469L			56J21-195	10	N		6	56J15-L6	138	N			1	1
AA469R			56J21-194	10	N		6	56E 36	20	N			1	
AA470	5	2100		50		25	8		300		275	9		
AA470A	4	600	SHLD AA470	20	N			56E 46	20	N				
AA470L			56J21-161	10	N		6	56J15-K6	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 49

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	FROM TIN	FROM STRIP JACKET	FROM TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TO TIN	TO STRIP JACKET	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA470R			56J21-160	10	N		6	56E 36	20	N			1	
AA471	5	2100		50		25	8		300		275	9		
AA471A	4	600	SHLD AA471	20	N			56E 46	20	N				
AA471L			56J21- 95	10	N		6	56J15-K4	138	N			1	1
AA471R			56J21- 94	10	N		6	56E 37	20	N			1	
AA472	5	2100		50		25	8		300		275	9		
AA472A	4	600	SHLD AA472	20	N			56E 46	20	N				
AA472L			56J21-128	10	N		6	56J15-K5	138	N			1	1
AA472R			56J21-127	10	N		6	56E 37	20	N			1	
AA473	4	600	56J21- 23	10	N		6	56E 45	20	N		8	1	
AA474	4	600	56E 70	20	N		8	56E 47	20	N		8	1	
AA475	5	2100		50		25	8		250		225	9		
AA475A	4	600	SHLD AA475	20	N			56E 47	20	N				
AA475L			56J21- 24	10	N		6	56J15-B4	88	N			1	1
AA475R			56J21- 25	10	N		6	56E 38	20	N			1	
AA476	5	2100		50		25	8		250		225	9		
AA476A	4	600	SHLD AA476	20	N			56E 47	20	N				

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 50

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	FROM CUT WIRE OR SHIELD 2	FROM T I N	FROM STRIP WIRE OR JACKET 2	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT 2	TO CUT WIRE OR SHIELD 2	TO T I N	TO STRIP WIRE OR JACKET 2	TO TERMINATION SPEC 1 ITEM NO.	TO NO.	ω-ω FR	ω-ω TO
AA476L			56J21- 27	10	N		6		56E 38	20	N				1	
AA476R			56J21- 26	10	N		6		56J15-C4	88	N				1	1
AA477	5	2100		50		25	8			250		225	9			
AA477A	4	600	SHLD AA477	20	N				56E 47	20	N					
AA477L			56J21-232	10	N		6		56J15-B6	88	N				1	1
AA477R			56J21-233	10	N		6		56E 40	20	N				1	
AA478	5	2100		50		25	8			250		225	9			
AA478A	4	600	SHLD AA478	20	N				56E 47	20	N					
AA478L			56J21-193	10	N		6		56E 40	20	N				1	
AA478R			56J21-192	10	N		6		56J15-C6	88	N				1	1
AA479	5	2100		50		25	8			250		225	9			
AA479A	4	600	SHLD AA479	20	N				56E 47	20	N					
AA479L			56J21- 56	10	N		6		56J15-B8	88	N				1	1
AA479R			56J21- 57	10	N		6		56E 42	20	N				1	
AA480	5	2100		50		25	8			250		225	9			
AA480A	4	600	SHLD AA480	20	N				56E 47	20	N					
AA480L			56J21- 59	10	N		6		56E 42	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 51

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	FROM CUT WIRE OR SHIELD 2	FROM T I N	FROM STRIP WIRE OR JACKET 2	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT 2	TO CUT WIRE OR SHIELD 2	TO T I N	TO STRIP WIRE OR JACKET 2	TO TERMINATION SPEC 1 ITEM NO.	TO NO.	ω-ω FR	ω-ω TO
AA480R			56J21- 58	10	N		6		56J15-C8	88	N				1	1
AA481	5	2100		50		25	9			250		225	8			
AA481B	4	600	56E 39	20	N				SHLD AA481	20	N					
AA481L			56J21-237	10	N		6		56J15-B5	88	N				1	1
AA481R			56J21-238	10	N		6		56E 39	20	N				1	
AA482	5	2100		50		25	9			250		225	8			
AA482B	4	600	56E 39	20	N				SHLD AA482	20	N					
AA482L			56J21-200	10	N		6		56E 39	20	N				1	
AA482R			56J21-199	10	N		6		56J15-C5	88	N				1	1
AA483	5	2100		50		25	9			250		225	8			
AA483B	4	600	56E 41	20	N				SHLD AA483	20	N					
AA483L			56J21-165	10	N		6		56J15-B7	88	N				1	1
AA483R			56J21-166	10	N		6		56E 41	20	N				1	
AA484	5	2100		50		25	9			250		225	8			
AA484B	4	600	56E 41	20	N				SHLD AA484	20	N					
AA484L			56J21- 98	10	N		6		56E 41	20	N				1	
AA484R			56J21- 97	10	N		6		56J15-C7	88	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 52

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	FROM CUT WIRE OR SHIELD 2	FROM T I N	FROM STRIP WIRE OR JACKET 2	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT 2	TO CUT WIRE OR SHIELD 2	TO T I N	TO STRIP WIRE OR JACKET 2	TO TERMINATION SPEC 1 ITEM NO.	TO NO.	ω-ω FR	ω-ω TO
AA485	5	2100		50		25	9			250		225	8			
AA485B	4	600	56E 43	20	N				SHLD AA485	20	N					
AA485L			56J21- 64	10	N		6		56J15-B9	88	N				1	1
AA485R			56J21- 65	10	N		6		56E 43	20	N				1	
AA486	5	2100		50		25	9			250		225	8			
AA486B	4	600	56E 43	20	N				SHLD AA486	20	N					
AA486L			56J21- 31	10	N		6		56E 43	20	N				1	
AA486R			56J21- 30	10	N		6		56J15-C9	88	N				1	1
AA487	5	2700		50		25	8			300		275	8			
AA487A	4	600	SHLD AA487	20	N				56E 57	20	N		8			
AA487B	4	600	56TB2-D 3	138	N				SHLD AA487	20	N				3	
AA487L			56J21-121	10	N		6		56TB2-D 2	138	N				1	2
AA487R			56J21-122	10	N		6		56TB2-F 3	138	N				1	1
AA488	5	2100		50		25	8			250		225	9			
AA488A	4	600	SHLD AA488	20	N				56E 57	20	N					
AA488L			56J21-188	10	N		6		56J15-A3	88	N				1	1
AA488R			56J21-189	10	N		6		56E 59	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 53

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT 2	FROM CUT WIRE OR SHIELD 2	FROM T I N	FROM STRIP WIRE OR JACKET 2	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT 2	TO CUT WIRE OR SHIELD 2	TO T I N	TO STRIP WIRE OR JACKET 2	TO TERMINATION SPEC 1 ITEM NO.	TO NO.	ω-ω FR	ω-ω TO
AA489	5	1900		50		25	8			250		225	9			
AA489A	4	600	SHLD AA489	20	N				56E 57	20	N					
AA489L			56J21-152	10	N		6		56J16-A7	88	N				1	1
AA489R			56J21-153	10	N		6		56E 60	20	N		7		1	
AA490	5	2700		50		25	9			300		275	8			
AA490B	4	600	56E 29	20	N				SHLD AA490	20	N					
AA490L			56J2[illegible]9	10	N		6		56J12-G1	138	N				1	1
AA490R			56J21-170	10	N		6		56E 29	20	N				1	
AA491	5	2700		50		25	9			300		275	8			
AA491B	4	600	56E 29	20	N				SHLD AA491	20	N					
AA491L			56J21-137	10	N		6		56E 29	20	N				1	
AA491R			56J21-136	10	N		6		56J12-G2	138	N				1	1
AA492	5	1400		50		25	9			300		275	8			
AA492B	4	600	56E 71	20	N				SHLD AA492	20	N					
AA492L			56J21-163	10	N		6		56J18-K2	138	N				1	1
AA492R			56J21-164	10	N		6		56E 52	20	N				1	
AA493	5	1400		50		25	9			300		275	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 54

MIL 2075 3-63 WIR-R01

WIRE LIST AA

NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC. NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC NO.	W-W FR	W-W TO
AA493B	4	600	56E 71	20	N				SHLD AA493	20	N					
AA493L			56J21-131	10	N		6		56E 52	20	N				1	
AA493R			56J21-130	10	N		6		56J18-L2	138	N				1	1
AA494	5	1400		50		25	8			300		275	9			
AA494A	4	600	SHLD AA494	20	N				56E 45	20	N					
AA494L			56J21-156	10	N		6		56J18-L1	138	N				1	2
AA494R			56J21-157	10	N		6		56E 53	20	N				1	
AA495	5	1400		50		25	8			300		275	9			
AA495A	4	600	SHLD AA495	20	N				56E 45	20	N					
AA495L			56J21-123	10	N		6		56J18-K1	138	N				1	2
AA495R			56J21-124	10	N		6		56E 53	20	N				1	
AA496	5	1400		50		25	9			300		275	8			
AA496B	4	600	56E 71	20	N				SHLD AA496	20	N					
AA496L			56J21-235	10	N		6		56J18-K3	138	N				1	1
AA496R			56J21-236	10	N		6		56E 50	20	N				1	
AA497	5	1400		50		25	9			300		275	8			
AA497B	4	600	56E 71	20	N		8		SHLD AA497	20	N					

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 55

MIL 2075 3-63 WIR-R01

WIRE LIST AA

NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC. NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC NO.	W-W FR	W-W TO
AA497L			56J21-198	10	N		6		56E 50	20	N				1	
AA497R			56J21-197	10	N		6		56J18-L3	138	N				1	1
AA498	5	1400		50		25	8			300		275	9			
AA498A			SHLD AA498	20	N				56E 45	20	N					
AA498L			56J21-230	10	N		6		56J18-L4	138	N				1	2
AA498R			56J21-231	10	N		6		56E 51	20	N				1	
AA499	5	1400		50		25	8			300		275	9			
AA499A	4	600	SHLD AA499	20	N				56E 45	20	N					
AA499L			56J21-190	10	N		6		56J18-K4	138	N				1	2
AA499R			56J21-191	10	N		6		56E 51	20	N				1	
AA500	5	1600		50		25	9			300		275	8			
AA500B	4	600	56E 27	20	N				SHLD AA500	20	N					
AA500L			56J21-104	10	N		6		56E 27	20	N				1	
AA500R			56J21-103	10	N		6		56J17-R3	138	N				1	2
AA501R	4	2500	56J21-133	10	N		6		56E 34	20	N				1	
AA501W	4	2500	56J21-132	10	N		6		56J13-N5	138	N				1	2
AA502R	4	2500	56J21-100	10	N		6		56E 34	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 56

MIL 2075 3-63 WIR-R01

WIRE LIST AA

NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC. NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC NO.	W-W FR	W-W TO
AA502W	4	2500	56J21- 99	10	N		6		56J13-N6	138	N				1	2
AA503	5	2900		50		25	9			300		275	8			
AA503B	4	600	56E 28	20	N				SHLD AA503	20	N					
AA503L			56J21-204	10	N		6		56E 28	20	N				1	
AA503R			56J21-203	10	N		6		56J11-L6	138	N				1	1
AA504	5	2900		50		25	9			300		275	8			
AA504B	4	600	56E 28	20	N				SHLD AA504	20	N					
AA504L			56J21-242	10	N		6		56E 28	20	N				1	
AA504R			56J21-241	10	N		6		56J11-M6	138	N				1	1
AA505	5	2700		50		25	9			300		275	8			
AA505B	4	600	56TB2-V 8	138	N				SHLD AA505	20	N				2	
AA505L			56J22-139	10	N		6		56TB2-U 8	138	N				1	2
AA505R			56J22-107	10	N		6		56TB2-U 7	138	N				1	2
AA506	5	2700		50		25	9			300		275	8			
AA506B	4	600	56TB2-M 8	138	N				SHLD AA506	20	N				2	
AA506L			56J22-141	10	N		6		56TB2-N 8	138	N				1	2
AA506R			56J22-142	10	N		6		56TB2-N 7	138	N				1	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 57

MIL 2075 3-63 WIR-R01

WIRE LIST AA

NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC. NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION ITEM NO.	TERMINATION SPEC NO.	W-W FR	W-W TO
AA507	5	1700		50		25	9			300		275	8			
AA507B	4	600	56TB3-H12	138	N				SHLD AA507	20	N				3	
AA507L			56J22-144	10	N		6		56TB3-C13	138	N				1	1
AA507R			56J22-111	10	N		6		56TB3-C14	138	N				1	1
AA508	5	1700		50		25	9			300		275	8			
AA508B	4	600	56TB3-H14	138	N				SHLD AA508	20	N				2	
AA508L			56J22-113	10	N		6		56TB3-N20	138	N				1	2
AA508R			56J22-114	10	N		6		56TB3-N21	138	N				1	2
AA509	5	1700		50		25	9			300		275	8			
AA509B	4	600	56TB3-H13	138	N				SHLD AA509	20	N				3	
AA509L			56J22-116	10	N		6		56TB3-D13	138	N				1	1
AA509R			56J22-148	10	N		6		56TB3-D14	138	N				1	1
AA510	5	1700		50		25	9			300		275	8			
AA510B	4	600	56TB3-H14	138	N				SHLD AA510	20	N				3	
AA510L			56J22-150	10	N		6		56TB3-F13	138	N				1	1
AA510R			56J22-151	10	N		6		56TB3-F14	138	N				1	1
AA511	4	600	56TB1-S 2	138	N				56TB1-T 2	138	N				2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT. NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 58

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA512	4	600	56TB1-R 2	138	N				56TB1-S 2	138	N				1	1
AA513	4	600	56TB3-H12	138	N				56TB3-H13	138	N				2	2
AA514	4	600	56TB3-B15	138	N				56TB3-C15	138	N				1	3
AA515	4	600	56TB3-M20	138	N				56TB3-C18	138	N				1	1
AA517R	4	1700	56TB3-B19	138	N				56J22-120	10	N		6		2	1
AA517W	4	1700	56TB3-B18	138	N				56J22-153	10	N		6		2	1
AA518	4	1700	56TB3-F 4	138	N				56J22-190	10	N		6		1	1
AA521	4	1700	56TB3-L19	138	N				56J21- 62	10	N		6		2	1
AA522	4	1700	56TB3-N19	138	N				56J21- 63	10	N		6		2	1
AA525	4	1700	56TB3-M19	138	N				56J21- 96	10	N		6		2	1
AA526	4	1700	56TB3-D19	138	N				56J21-129	10	N		6		2	1
AA529	4	1700	56TB3-F19	138	N				56J21-162	10	N		6		2	1
AA530	4	1700	56TB3-G19	138	N				56J21-196	10	N		6		2	1
AA533	4	600	56TB3-L15	138	N				56TB3-M15	138	N				1	1
AA534	4	600	56TB3-M15	138	N				56TB3-N15	138	N				2	2
AA535	4	600	56TB3-N15	138	N				56TB3-R15	138	N				1	1
AA536	4	600	56TB3-S15	138	N				56TB3-T15	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 59

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA538	4	600	56TB3-G 9	138	N				56TB3-B15	138	N				2	2
AA539	4	600	56TB2-M 8	138	N				56TB2-M 7	138	N				1	1
AA540	4	600	56TB2-V 2	138	N				56TB2-V 3	138	N				1	1
AA541	4	600	56TB3-G 9	138	N				56TB3-H 9	138	N				1	1
AA542	4	600	56TB3-H 9	138	N				56TB3-K 9	138	N				2	2
AA543	4	600	56TB3-K 9	138	N				56TB3-L 9	138	N				1	1
AA544	4	600	56TB3-L 9	138	N				56TB3-M 9	138	N				2	2
AA545	4	600	56TB3-M 9	138	N				56TB3-N 9	138	N				1	1
AA546	4	600	56TB3-N 9	138	N				56TB3-R 9	138	N				2	2
AA547	4	600	56TB3-R 9	138	N				56TB3-S 9	138	N				1	1
AA548	4	600	56TB3-S 9	138	N				56TB3-T 9	138	N				2	2
AA549	4	600	56TB3-T 9	138	N				56TB3-T15	138	N				1	2
AA550	4	600	56TB3-G15	138	N				56TB3-H15	138	N				2	2
AA551	4	600	56TB3-H15	138	N				56TB3-K15	138	N				1	1
AA552	4	600	56TB3-K15	138	N				56TB3-L15	138	N				2	2
AA553	4	600	56TB3-R15	138	N				56TB3-S15	138	N				2	2
AA554	4	600	56TB3-H13	138	N				56TB3-H14	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 60

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA555	4	600	56TB2-K 4	138	N				56TB2-L 4	138	N				1	1
AA556	4	600	56TB2-L 2	138	N				56TB2-L 1	138	N				1	1
AA557	4	600	56TB2-K 2	138	N				56TB2-K 1	138	N				1	1
AA558	4	600	56TB3-M20	138	N				56TB3-C19	138	N				2	1
AA559	4	600	56TB3-T20	138	N				56TB3-T21	138	N				1	1
AA560	4	600	56TB3-S21	138	N				56TB3-T21	138	N				1	2
AA562	4	600	56J21- 53	10	N		6		56E 57	20	N				1	
AA563	4	600	56TB3-L21	138	N				56TB3-D15	138	N				1	3
AA566	4	600	56TB3-K21	138	N				56TB3-C15	138	N				1	1
AA568	4	600	56E 45	20	N				56E 46	20	N					
AA569	5	1700		300		275	7			250		225	11			
AA569A	4	600	SHLD AA569	20	N				56TB2-D 3	138	N					2
AA569L			56TB2-D 2	138	N				56J16-B7	88	N				3	1
AA569R			56TB2-F 3	138	N				56E 60	20	N				3	
AA571	5	1900		300		275	7			250		225	11			
AA571A	4	600	SHLD AA571	20	N				56TB2-S 3	138	N					2
AA571L			56TB2-N 3	138	N				56J17-A2	88	N				2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 61

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	T I N	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA571R			56TB2-R 3	138	N				56J17-B2	88	N				3	1
AA572	4	600	56TB1-D 7	138	N				56TB1-D 8	138	N				1	1
AA577	4	600	56TB2-D 7	138	N				56TB2-D 8	138	N				2	1
AA578	4	600	56TB2-S 2	138	N				56TB2-R 2	138	N				1	1
AA579	4	600	56TB2-F 7	138	N				56TB2-G 7	138	N				1	1
AA580	4	600	56TB2-F 2	138	N				56TB2-G 2	138	N				1	1
AA581	4	600	56TB2-M 1	138	N				56TB2-M 2	138	N				1	1
AA582	4	600	56TB2-M 2	138	N				56TB2-M 3	138	N				2	2
AA583	4	600	56TB2-M 3	138	N				56TB2-M 4	138	N				1	1
AA584	4	600	56TB2-M 4	138	N				56TB2-M 5	138	N				2	2
AA585	4	600	56TB2-M 5	138	N				56TB2-M 6	138	N				1	1
AA586	4	600	56TB2-M 6	138	N				56TB2-M 7	138	N				2	2
AA587	4	600	56TB1-D 8	138	N				56TB1-N 8	138	N					
AA588	4	600	56TB1-N 4	138	N				56TB1-S 8	138	N				1	1
AA589	4	1000	56TB1-N 4	138	N				56TB2-M 5	138	N				3	3
AA590	4	1000	56TB1-D 7	138	N				56TB2-V 2	138	N				2	2
AA591	4	1000	56TB1-S 3	138	N				56TB2-M 4	138	N				2	3

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 62

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET 2	FROM TIN	FROM CUT WIRE OR SHIELD 2	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET 2	TO TIN	TO CUT WIRE OR SHIELD 2	TO TERMINATION SPEC 1 ITEM NO.	TO NO.	W-W FR	W-W TO
AA592	4	2200	56TB2-M 6	138	N				56TB3-T 3	138	N				3	1
AA596	4	600	56TB2-V 3	138	N				56TB2-V 4	138	N				2	2
AA597	4	600	56TB2-V 4	138	N				56TB2-V 5	138	N				1	1
AA598	4	600	56TB2-V 5	138	N				56TB2-V 6	138	N				2	2
AA599	4	600	56TB2-V 6	138	N				56TB2-V 8	138	N				1	1
AA600	4	600	56TB1-S 8	138	N				56TB1-S 7	138	N				2	2
AA601	4	600	56TB1-S 7	138	N				56TB1-S 6	138	N				1	1
AA602	4	1000	56TB1-S 7	138	N				56TB2-D 8	138	N				3	2
AA603	4	600	56TB2-D 7	138	N				56TB2-D 6	138	N				1	1
AA604	4	600	56TB2-D 6	138	N				56TB2-D 5	138	N				2	2
AA605	4	600	56TB2-D 5	138	N				56TB2-D 4	138	N				1	1
AA607	4	600	56TB3-F22	138	N				56TB3-F21	138	N				1	1
AA608	4	1800	56TB2-D 4	138	N				56E 27	20	N				3	
AA609	4	600	56TB3-C15	138	N				56TB3-D15	138	N				2	2
AA610	4	900	56J11-N3	138	N				56J12-P4	138	N				1	1
AA611	4	600	56TB1-R 1	138	N				56TB1-S 1	138	N				1	1
AA612	4	600	56TB1-S 1	138	N				56TB1-T 1	138	N				2	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 63

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET 2	FROM TIN	FROM CUT WIRE OR SHIELD 2	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET 2	TO TIN	TO CUT WIRE OR SHIELD 2	TO TERMINATION SPEC 1 ITEM NO.	TO NO.	W-W FR	W-W TO
AA613	4	600	56TB3-B20	138	N				56TB3-B21	138	N				1	1
AA614	4	600	56TB3-B21	138	N				56TB3-F21	138	N				2	2
AA615	4	600	56TB2-R 3	138	N				56TB2-S 3	138	N				1	1
AA616	4	900	56J18-R4	138	N				56J19-M4	138	N				1	1
AA617	4	900	56J11-L4	138	N				56E 66	20	N		12		2	
AA618	4	900	56J11-L4	138	N				56E 67	20	N		12		3	
AA619	4	400	56TB3-B20	138	N				56E 68	20	N		12		2	
AA620	4	600	56TB3-B20	138	N				56E 69	20	N		12		3	
AA621	4	600	56TB2-T 2	138	N				56TB2-T 3	138	N				1	1
AA622	4	1700	56J20-R1	138	N				56TB3-C20	138	N				2	2
AA623	4	1700	56J20-P1	138	N				56TB3-C21	138	N				2	2
AA624	4	1700	56J20-R2	138	N				56TB3-D20	138	N				2	2
AA625	4	1700	56J20-P2	138	N				56TB3-D21	138	N				2	2
AA626	4	1700	56J20-S3	138	N				56TB3-D22	138	N				2	2
AA627	4	1700	56J20-S4	138	N				56TB3-C22	138	N				2	2
AA628	4	1700	56J20-R5	138	N				56TB3-H21	138	N				3	3
AA629	4	1700	56J20-R6	138	N				56TB3-H22	138	N				3	3

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 64

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET 2	FROM TIN	FROM CUT WIRE OR SHIELD 2	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET 2	TO TIN	TO CUT WIRE OR SHIELD 2	TO TERMINATION SPEC 1 ITEM NO.	TO NO.	W-W FR	W-W TO
AA630	4	600	56TB3-D15	138	N				56TB3-G15	138	N				1	1
AA631	4	600	56TB3-R 3	138	N				56TB3-S 3	138	N				2	1
AA632	4	600	56TB1-S 3	138	N				56TB1-S 4	138	N				1	2
AA633	4	600	56TB1-S 4	138	N				56TB1-S 5	138	N				3	2
AA634	4	600	56TB1-S 5	138	N				56TB1-S 6	138	N				3	3
AA635	4	600	56TB3-T 3	138	N				56TB2-V 8	138	N				2	3
AA636	4	1200	56J17-F2	138	N				56TB3-D 6	138	N					
AA637	4	1200	56J15-R2	138	N				56TB2-F 4	138	N					
AA638	4	600	56J18-T5	138	N				56E 71	20	N					
AA639	5	2700		300		275	9			300		275	8			
AA639B	4	600	56E 70	20	N				SHLD AA639	20	N					
AA639L			56J12-D6	138	N				56J21- 28	10	N		6			
AA639R			56J12-F6	138	N				56J21- 29	10	N		6			
AA640	5	2700		300		275	9			300		275	8			
AA640B	4	600	56E 70	20	N				SHLD AA640	20	N					
AA640L			56J12-D5	138	N				56J21-158	10	N		6			
AA640R			56J12-F5	138	N				56J21-159	10	N		6			

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 65

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET 2	FROM TIN	FROM CUT WIRE OR SHIELD 2	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET 2	TO TIN	TO CUT WIRE OR SHIELD 2	TO TERMINATION SPEC 1 ITEM NO.	TO NO.	W-W FR	W-W TO
AA641	5	2700		300		275	9			300		275	8			
AA641B	4	600	56E 70	20	N				SHLD AA641	20	N					
AA641L			56J12-D4	138	N				56J21- 60	10	N		6			
AA641R			56J12-F4	138	N				56J21- 61	10	N		6			
AA642	4	600	56J21- 22	10	N		6		56E70	20	N					
AA643	4	400	56J12-N6	138	N				56J12-R6	138	N					
AA644	4	400	56J12-P5	138	N				56J12-R3	138	N					
AA645	4	600	56TB2-U1	138	N				56TB2-U3	138	N					
AA646	4	1700	56J18-T1	138	N				56TB3-A10	138	N					
AA647	4	1700	56J22-172	10	N		6		56TB3-F2	138	N					

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR E	SHEET 66

MIL 2075 3-63 WIR-RO1

APPLICATION	
NEXT ASSY	USED ON
1014606-011	1014606-011

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
D	REVISED & REDRAWN TDRR 06998		
Ⓜ E	REVISED PER TDRR NO. 10943	29 JUL 64	J J J PBR
F	REVISED PER TDRR NO. 11352	12 AUG 64	JWP

REV	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
SHEET	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49

REV STATUS OF SHEETS																								
	REV	F	E	F	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN DATE 2/17/64

CHECKED E. T. 150.

APPROVAL R. R. 2/17/64

APPROVAL

NASA APPROVAL 7-17-64

MIT APPROVAL 4/17/64

CONTRACT

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE LIST AA
AGE HARNESS & END CONNECTOR ASSY

CODE IDENT NO.	SIZE		REV
	A	1014608	F

SCALE

SHEET 1 OF 66

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
50	D														
51	D														
52	D														
53	D														
54	D														
55	D														
56	D														
57	D														
58	D														
59	D														
60	D														
61	D														
62	D														
63	D														
64	D														
65	D														
66	E														

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

REVISION	NASA DRAWING NO.
E	1014608

SHEET 2 OF 66

WIRE LIST AA

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014608- 1	WIRE PER 1010707-2 SOLID 30AWG (THREE COND. TWISTED AND SHIELDED) 13 FT. 3.0 IN. TOTAL LENGTH
	3	1	1014608- 3	WIRE PER 1010708-4 SOLID 30AWG (SINGLE COND.) 186 FT. 2.0 IN. TOTAL LENGTH
	4	1	1014608- 4	WIRE PER 1010708-5 SOLID 24AWG (SINGLE COND.) 605 FT. 0.6 IN. TOTAL LENGTH
	5	1	1014608- 5	WIRE PER 1010708-3 SOLID 24AWG (TWO COND. TWISTED AND SHIELDED) 103 FT. 9.0 IN. TOTAL LENGTH
11	6	144	1010738- 2	CONTACT, SOCKET
11	7	36	1010763-1 ~~1010402-~~	SLEEVE, SOLDER, LOW TEMPERATURE
11	8	69	1010763-2 ~~1010402-~~	SLEEVE, SOLDER, LOW TEMPERATURE
11	9	53	1010490-110	INSULATION-SLEEVING, ELEC.
11	10	9	1010490-112	INSULATION-SLEEVING, ELEC.
11	11	11	1010490-114	INSULATION-SLEEVING, ELEC.
	12	4	MS-25036-44	TERMINAL LUG

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR F
SHEET 3

WIRE LIST AA

GENERAL NOTES

1 SEE CONDUCTOR CHART PENNANT NOTE 1

2 SEE CONDUCTOR CHART PENNANT NOTE 2

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

5 LENGTHS SPECIFIED ARE FOR CONDUCTORS BEFORE ATTACHING TO AN ACCESSORY.

6 CONDUCTORS WITH THE SAME NUMBER ARE TWISTED TOGETHER.

7 LENGTHS SPECIFIED FOR TWISTED CONDUCTORS ARE FOR AFTER TWISTING.

8 TWISTED CONDUCTORS ARE TO BE TWISTED WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED CONDUCTOR.

9 CONDUCTOR LENGTHS ARE FOR MANUFACTURING REF. ONLY.

10 NUMBERS IN WIRE-WRAP COLUMN INDICATE THE LEVEL OF TERMINATION.
CONDUCTORS LISTED AS ----
LEVEL 1 TO BE WIRE-WRAPPED AT BASE OF CONTACT
LEVEL 2 TO FOLLOW LEVEL 1
LEVEL 3 TO FOLLOW LEVEL 2

11 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 4

WIRE LIST AA

GENERAL NOTES

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
B - TO END SHIELD
K - BLACK
L - BLUE
R - RED
W - WHITE

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 5

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT 2	STRIP 2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT 2	STRIP 2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 1	4	1600	56J11-S4	138	N			56J15-S6	138	N			3	2
AA 2	4	2800	56J11-S1	138	N			56J20-L1	138	N			2	3
AA 3	4	2800	56J11-S2	138	N			56J20-L2	138	N			2	3
AA 4	4	2800	56J11-S5	138	N			56J20-K2	138	N			2	1
AA 5R	4	900	56J11-N4	138	N			56J12-P3	138	N			1	1
AA 5W	4	900	56J11-N5	138	N			56J12-N3	138	N			1	1
AA 6	4	900	56J11-S4	138	N			56J12-S5	138	N			2	1
AA 7	4	900	56J11-L4	138	N			56J12-K3	138	N			1	1
AA 9R	4	900	56J11-L2	138	N			56J12-K2	138	N			1	1
AA 9W	4	900	56J11-L1	138	N			56J12-H2	138	N			1	1
AA 10K	4	900	56J11-B5	138	N			56J12-B2	138	N			1	1
AA 10L	4	900	56J11-A6	138	N			56J12-B1	138	N			1	1
AA 10R	4	900	56J11-A5	138	N			56J12-A2	138	N			1	1
AA 10W	4	900	56J11-B6	138	N			56J12-A1	138	N			1	1
AA 11R	3	2000	56J11-B3	138	N			56J17-B1	88	N			1	1
AA 11W	3	2000	56J11-C3	138	N			56J17-A1	88	N			1	1
AA 12L	4	2000	56J11-N2	138	N			56J17-R2	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 6

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 12R	4	2000	56J11-N1	138	N			56J17-P2	138	N			1	1
AA 12W	4	2000	56J11-P1	138	N			56J17-N2	138	N			1	1
AA 13	4	2000	56J11-S3	138	N			56J17-R1	138	N			1	1
AA 14	4	1100	56J11-N6	138	N			56J13-P6	138	N			1	1
AA 15R	4	1700	56J11-B1	138	N			56TB2-G 2	138	N			1	2
AA 15W	4	1700	56J11-A1	138	N			56TB2-H 2	138	N			1	1
AA 16R	4	1400	56J11-C1	138	N			56TB1-C 5	138	N			1	1
AA 16W	4	1400	56J11-B1	138	N			56TB1-B 5	138	N			2	1
AA 17	4	600	56J11-R4	138	N			56J11-R5	138	N			2	2
AA 18	4	600	56J11-P4	138	N			56J11-R4	138	N			1	1
AA 19R	4	1700	56J11-B2	138	N			56TB2-G 7	138	N			1	2
AA 19W	4	1700	56J11-A2	138	N			56TB2-H 7	138	N			1	1
AA 20R	4	1400	56J11-C2	138	N			56TB1-A 5	138	N			1	1
AA 20W	4	1400	56J11-B2	138	N			56TB1-A 6	138	N			2	1
AA 21R	4	1700	56J11-B3	138	N			56TB2-R 2	138	N			2	2
AA 21W	4	1700	56J11-A3	138	N			56TB2-N 2	138	N			1	1
AA 22	4	600	56J11-P4	138	N			56J11-P5	138	N			2	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 7

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 23K	4	1400	56J11-G1	138	N			56TB1-C 3	138	N			1	1
AA 23L	4	1400	56J11-H1	138	N			56TB1-B 4	138	N			1	1
AA 23R	4	1400	56J11-F1	138	N			56TB1-C 4	138	N			1	1
AA 23W	4	1400	56J11-G2	138	N			56TB1-B 3	138	N			2	1
AA 24	4	600	56J11-G2	138	N			56J11-P6	138	N			1	1
AA 25	4	600	56J11-S4	138	N			56J11-S5	138	N			1	1
AA 26	4	600	56J11-P6	138	N			56J11-R6	138	N			2	2
AA 27	4	1400	56J11-N6	138	N			56TB1-D 5	138	N			2	1
AA 28K	4	1400	56J11-L2	138	N			56TB1-C 2	138	N			2	2
AA 28L	4	1400	56J11-M2	138	N			56TB1-C 2	138	N			1	1
AA 28R	4	1400	56J11-M1	138	N			56TB1-D 2	138	N			1	1
AA 28W	4	1400	56J11-L1	138	N			56TB1-D 2	138	N			2	2
AA 29K	4	1400	56J11-B5	138	N			56TB1-B 7	138	N			2	2
AA 29L	4	1400	56J11-A6	138	N			56TB1-A 8	138	N			2	1
AA 29R	4	1400	56J11-A5	138	N			56TB1-A 7	138	N			2	1
AA 29W	4	1400	56J11-B6	138	N			56TB1-B 8	138	N			2	2
AA 30R	4	1400	56J11-D6	138	N			56TB1-D 3	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 8

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 30W	4	1400	56J11-D5	138	N			56TB1-D 4	138	N			1	1
AA 31	4	600	56J11-R5	138	N			56J11-R6	138	N			1	1
AA 32R	4	1400	56J11-F6	138	N			56TB1-A 4	138	N			1	1
AA 32W	4	1400	56J11-G6	138	N			56TB1-A 3	138	N			1	1
AA 33	4	600	56J11-R6	138	N			56J11-S6	138	N			3	1
AA 34R	4	1400	56J11-H6	138	N			56TB1-A 2	138	N			1	1
AA 34W	4	1400	56J11-H5	138	N			56TB1-B 2	138	N			1	1
AA 35	4	1400	56J11-L3	138	N			56TB1-D 6	138	N			1	1
AA 36	4	600	56J11-M5	138	N			56E 28	20	N	8		2	
AA 37	4	600	56J11-M5	138	N			56J11-P3	138	N			1	1
AA 38	4	600	56J11-P2	138	N			56J11-R3	138	N			1	1
AA 39	4	600	56J11-P3	138	N			56J11-R3	138	N			2	2
AA 40	4	600	56J11-S1	138	N			56J11-S2	138	N			1	1
AA 41	4	600	56J11-R1	138	N			56J11-R2	138	N			1	1
AA 42R	4	1400	56J11-G3	138	N			56TB1-B 6	138	N			1	1
AA 42W	4	1400	56J11-F3	138	N			56TB1-C 6	138	N			1	1
AA 43	4	1700	56J11-R3	138	N			56TB2-M 1	138	N			3	2

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 9

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	TERMINATION SPEC. 1 ITEM NO.	NO.	TO: CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 44	4	1700	56J11-R1	138	N			56TB2-M 2	138	N			2	3
AA 45	4	1700	56J11-R2	138	N			56TB2-M 3	138	N			2	3
AA 46	4	1400	56J11-P6	138	N			56TB1-S 3	138	N			3	3
AA 47	4	1100	56J12-B6	138	N			56J14-H6	138	N			1	1
AA 48R	4	1400	56J12-K2	138	N			56J15-R4	138	N			2	1
AA 48W	4	1400	56J12-H2	138	N			56J15-S4	138	N			2	1
AA 49R	4	1400	56J12-P3	138	N			56J15-P5	138	N			2	2
AA 49W	4	1400	56J12-N3	138	N			56J15-P6	138	N			2	2
AA 50R	4	1400	56J12-P5	138	N			56J15-N5	138	N			1	1
AA 50W	4	1400	56J12-N5	138	N			56J15-N6	138	N			2	1
AA 51	4	2600	56J12-S6	138	N			56J20-N5	138	N			1	2
AA 52R	4	2600	56J12-K4	138	N			56J20-G6	138	N			1	2
AA 52W	4	2600	56J12-H4	138	N			56J20-G5	138	N			2	2
AA 53	4	2600	56J12-G4	138	N			56J20-L6	138	N			1	1
AA 54	4	2600	56J12-S1	138	N			56J20-M1	138	N			2	3
AA 55	4	2600	56J12-S2	138	N			56J20-M2	138	N			2	3
AA 56	4	1600	56J12-H5	138	N			56J16-M2	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 10

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	ω-ω FR	TO
AA 57	4	1600	56J12-H6	138	N				56J16-M3	138	N				1	1
AA 58	4	1600	56J12-G6	138	N				56J16-N3	138	N				1	1
AA 59	4	1600	56J12-G5	138	N				56J16-R2	138	N				2	1
AA 60L	4	1100	56J12-P1	138	N				56TB1-H 3	138	N				2	1
AA 60R	4	1100	56J12-R1	138	N				56TB1-H 2	138	N				1	1
AA 60W	4	1100	56J12-P2	138	N				56TB1-G 2	138	N				1	1
AA 61	4	600	56J12-N1	138	N				56J12-P1	138	N				1	1
AA 62	4	600	56J12-H4	138	N				56J12-N2	138	N				1	1
AA 63R	4	1100	56J12-N6	138	N				56TB1-G 7	138	N				2	1
AA 63W	4	1100	56J12-P6	138	N				56TB1-H 7	138	N				2	1
AA 64R	4	1100	56J12-P5	138	N				56TB1-G 4	138	N				2	1
AA 64W	4	1100	56J12-N4	138	N				56TB1-H 4	138	N				2	1
AA 65	4	600	56J12-N4	138	N				56J12-N5	138	N				1	1
AA 66	4	2400	56J12-R6	138	N				56TB3-L20	138	N				1	1
AA 67	4	600	56J12-F1	138	N				56E 31	20	N		7		2	
AA 68	4	600	56J12-F1	138	N				56J12-F2	138	N				1	1
AA 69	4	600	56J12-F2	138	N				56E 29	20	N		8		2	

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 11

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	ω-ω FR	TO
AA 70	5	2800		300		275	8			50		25	9			
AA 70A	4	600	SHLD AA 70	20	N				56J12-H1	138	N					2
AA 70L			56J12-K1	138	N				56J21- 70	10	N		6		1	1
AA 70R			56J12-H1	138	N				56J21- 71	10	N		6		1	1
AA 71	4	600	56J12-G5	138	N				56J12-R5	138	N				1	1
AA 72	4	900	56J12-K3	138	N				56J13-C6	138	N				2	2
AA 73L	4	1100	56J12-K6	138	N				56J14-R2	138	N				1	2
AA 73R	4	1100	56J12-L6	138	N				56J14-S2	138	N				1	2
AA 73W	4	1100	56J12-M6	138	N				56J14-S3	138	N				1	1
AA 74	4	2700	56J12-G3	138	N				56J22-244	10	N		6		1	1
AA 75	4	900	56J12-A5	138	N				56J13-D2	138	N				1	1
AA 76	4	900	56J12-A6	138	N				56J13-F2	138	N				1	1
AA 77	4	600	56J12-B5	138	N				56E 34	20	N		7		1	
AA 78	4	1100	56J12-M3	138	N				56TB1-H 5	138	N				1	1
AA 79	4	1100	56J12-M4	138	N				56TB1-G 5	138	N				1	1
AA 80	4	1100	56J12-M1	138	N				56TB1-H 6	138	N				2	1
AA 81	4	2700	56J12-M1	138	N				56J21- 36	10	N		6		1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 12

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	ω-ω FR	TO
AA 82	4	2400	56J12-L1	138	N				56TB3-M22	138	N				1	1
AA 83	4	1100	56J12-L2	138	N				56TB1-H 8	138	N				1	1
AA 87	4	600	56J12-S1	138	N				56J12-S3	138	N				1	1
AA 88	4	600	56J12-S2	138	N				56J12-S4	138	N				1	1
AA 89	4	600	56J12-R2	138	N				56J12-R3	138	N				1	1
AA 90	4	600	56J12-R3	138	N				56J12-R4	138	N				2	1
AA 91	4	600	56J12-R4	138	N				56E 31	20	N				2	
AA 92	5	1800		300		275	9			300		275	8			
AA 92B	4		56E 27	20	N		7		SHLD AA 92	20	N					
AA 92L			56J12-P4	138	N				56J17-R3	138	N				2	1
AA 92R			56J12-P4	138	N				56J17-R3	138	N				3	3
AA 94R	4	1800	56J12-N6	138	N				56J17-N3	138	N				1	1
AA 94W	4	1800	56J12-P6	138	N				56J17-P3	138	N				1	1
AA 95R	4	900	56J12-L5	138	N				56J13-R3	138	N				1	1
AA 95W	4	900	56J12-M5	138	N				56J13-S3	138	N				1	1
AA 96	4	900	56J12-R5	138	N				56J13-R6	138	N				2	2
AA 97	4	1800	56J12-F3	138	N				56J17-M3	138	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 13

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	NO.	ω-ω FR	TO
AA 98	4	1100	56J12-R5	138	N				56TB1-S 6	138	N				3	2
AA 99	4	1100	56J12-R2	138	N				56TB1-N 5	138	N				2	2
AA100	4	1100	56J12-R4	138	N				56TB1-N 8	138	N				3	2
AA101	4	900	56J13-N5	138	N				56J14-H3	138	N				1	1
AA102	4	900	56J13-N6	138	N				56J14-K3	138	N				1	1
AA103	4	900	56J13-H6	138	N				56J14-G1	138	N				1	1
AA104	4	900	56J13-A6	138	N				56J14-A6	138	N				1	1
AA105R	4	900	56J13-L6	138	N				56J14-K1	138	N				1	1
AA105W	4	900	56J13-K6	138	N				56J14-H1	138	N				1	1
AA106	4	900	56J13-C6	138	N				56J14-H5	138	N				1	1
AA107	4	900	56J13-S6	138	N				56J14-S6	138	N				1	1
AA108	4	900	56J13-R6	138	N				56J14-R6	138	N				1	1
AA109R	4	900	56J13-R2	138	N				56J14-R1	138	N				1	1
AA109W	4	900	56J13-S2	138	N				56J14-S1	138	N				1	1
AA110R	4	900	56J13-R3	138	N				56J14-R5	138	N				2	1
AA110W	4	900	56J13-S3	138	N				56J14-S5	138	N				2	1
AA111R	4	900	56J13-R4	138	N				56J14-R4	138	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 14

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM					TO					ω-ω	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA111W	4	900	56J13-S4	138	N			56J14-S4	138	N			1	1
AA112R	4	900	56J13-R1	138	N			56J14-R2	138	N			1	1
AA112W	4	900	56J13-S1	138	N			56J14-S2	138	N			1	1
AA113	4	900	56J13-P6	138	N			56J14-P6	138	N			2	1
AA114	4	1100	56J13-D1	138	N			56J15-L4	138	N			1	1
AA115	4	1100	56J13-F1	138	N			56J15-M4	138	N			1	1
AA116	4	1100	56J13-D3	138	N			56J15-L3	138	N			1	1
AA117	4	1100	56J13-F3	138	N			56J15-M3	138	N			1	1
AA118R	4	1400	56J13-B1	138	N			56TB1-M 6	138	N			1	1
AA118W	4	1400	56J13-A1	138	N			56TB1-M 7	138	N			1	1
AA119	1	1400		300		275	10		300		275	7		
AA119B	4	600	56TB1-N 5	138	N			SHLD AA119	20	N			1	
AA119L			56J13-L1	138	N			56TB1-L 5	138	N			1	1
AA119R			56J13-H1	138	N			56TB1-M 5	138	N			1	1
AA119W			56J13-K1	138	N			56TB1-L 6	138	N			1	1
AA120	4	1400	56J13-D2	138	N			56TB1-L 2	138	N			2	1
AA121R	4	1400	56J13-B3	138	N			56TB1-N 2	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 15

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM					TO					ω-ω	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA121W	4	1400	56J13-A3	138	N			56TB1-M 3	138	N			1	1
AA122	1	1400		300		275	10		300		275	7		
AA122B	4	600	56TB1-N 4	138	N			SHLD AA122	20	N			2	
AA122L			56J13-N3	138	N			56TB1-M 4	138	N			1	1
AA122R			56J13-L3	138	N			56TB1-L 4	138	N			1	1
AA122W			56J13-M3	138	N			56TB1-L 3	138	N			1	1
AA123	4	1400	56J13-F2	138	N			56TB1-M 2	138	N			2	1
AA124	1	1400		300		275	10		300		275	7		
AA124B	4	600	56TB1-N 8	138	N			SHLD AA124	20	N			1	
AA124L			56J13-G6	138	N			56TB1-L 7	138	N			1	1
AA124R			56J13-D6	138	N			56TB1-M 8	138	N			1	1
AA124W			56J13-F6	138	N			56TB1-L 8	138	N			1	1
AA125	4	600	56J13-R6	138	N			56E 34	20	N			3	
AA126R	4	1600	56J14-A2	138	N			56TB1-T 4	138	N			1	1
AA126W	4	1600	56J14-A1	138	N			56TB1-T 5	138	N			1	1
AA127	1	1600		300		275	10		300		275	7		
AA127B	4	600	56TB1-S 4	138	N			SHLD AA127	20	N			1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 16

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM					TO					ω-ω	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA127L			56J14-P2	138	N			56TB1-U 3	138	N			1	1
AA127R			56J14-P1	138	N			56TB1-U 4	138	N			1	1
AA127W			56J14-P3	138	N			56TB1-T 3	138	N			1	1
AA128	4	1600	56J14-H6	138	N			56TB1-T 7	138	N			2	1
AA129R	4	2300	56J14-D1	138	N			56J21- 67	10	N	6		1	1
AA129W	4	2300	56E 33	20	N	8		56J21- 66	10	N	6			1
AA130R	4	2300	56E 33	20	N			56J21- 32	10	N	6			1
AA130W	4	2300	56J14-D2	138	N			56J21- 33	10	N	6		1	1
AA131R	4	2300	56J14-D3	138	N			56J21-240	10	N	6		1	1
AA131W	4	2300	56E 33	20	N			56J21-239	10	N	6			1
AA132R	4	2300	56J14-D4	138	N			56J21-202	10	N	6		1	1
AA132W	4	2300	56E 33	20	N			56J21-201	10	N	6			1
AA133	1	1600		300		275	10		300		275	7		
AA133B	4	600	56TB1-S 5	138	N			SHLD AA133	20	N			1	
AA133L			56J14-M2	138	N			56TB1-U 6	138	N			1	1
AA133R			56J14-M1	138	N			56TB1-T 6	138	N			1	1
AA133W			56J14-M3	138	N			56TB1-U 5	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 17

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM					TO					ω-ω	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC. ITEM NO.	NO.	CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET	TIN	TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA134R	4	2300	56E 33	20	N			56J21-167	10	N	6			1
AA134W	4	2300	56J14-D5	138	N			56J21-168	10	N	6		1	1
AA135R	4	2300	56J14-D6	138	N			56J21-135	10	N	6		1	1
AA135W	4	2300	56E 33	20	N			56J21-134	10	N	6			1
AA136	1	1600		300		275	10		300		275	7		
AA136B	4	600	56TB1-S 8	138	N			SHLD AA136	20	N			3	
AA136L			56J14-M6	138	N			56TB1-U 8	138	N			1	1
AA136R			56J14-L6	138	N			56TB1-T 8	138	N			1	1
AA136W			56J14-N6	138	N			56TB1-U 7	138	N			1	1
AA137	4	600	56J14-R6	138	N			56E 33	20	N			3	
AA138	4	900	56J14-H3	138	N			56J15-L1	138	N			2	1
AA139	4	900	56J14-C5	138	N			56J15-N4	138	N			1	1
AA140	4	900	56J14-C6	138	N			56J15-P4	138	N			1	1
AA141	4	900	56J14-C3	138	N			56J15-N3	138	N			1	1
AA142	4	900	56J14-C4	138	N			56J15-P3	138	N			1	1
AA143	4	900	56J14-C1	138	N			56J15-N2	138	N			1	1
AA144	4	900	56J14-C2	138	N			56J15-P2	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 18

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA189	4	1600	56J16-S5	138	N				56J20-N5	138	N				1	1
AA190	4	1600	56J16-S6	138	N				56J20-N6	138	N				1	1
AA191R	4	1600	56J16-N5	138	N				56J20-L3	138	N				2	1
AA191W	4	1600	56J16-P5	138	N				56J20-K3	138	N				2	1
AA192R	4	1600	56J16-N6	138	N				56J20-M4	138	N				1	1
AA192W	4	1600	56J16-P6	138	N				56J20-L4	138	N				1	1
AA193	4	1600	56J16-S2	138	N				56J20-K2	138	N				2	2
AA194R	3	1700	56J16-D2	88	N				56TB2-G 3	138	N				1	1
AA194W	3	1700	56J16-D1	88	N				56TB2-H 3	138	N				1	1
AA195R	3	1700	56J16-D2	88	N				56TB2-G 2	138	N				2	3
AA195W	3	1700	56J16-C2	88	N				56TB2-H 2	138	N				1	2
AA196R	3	1700	56J16-D2	88	N				56TB2-G 1	138	N				3	1
AA196W	3	1700	56J16-C1	88	N				56TB2-H 1	138	N				1	1
AA197	1	1700		250		225	7			300		275	1			
AA197A	4	600	SHLD AA197	20	N				56J16-B1	88	N					2
AA197L			56J16-B1	88	N				56TB2-T 7	138	N				3	1
AA197R			56J16-A1	88	N				56TB2-U 6	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 23

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA197W			56J16-A2	88	N				56TB2-T 6	138	N				1	1
AA198R	4	1700	56J16-P1	138	N				56TB2-L 6	138	N				1	1
AA198W	4	1700	56J16-R1	138	N				56TB2-L 5	138	N				1	1
AA199R	3	1700	56J16-D4	88	N				56TB2-G 6	138	N				1	1
AA199W	3	1700	56J16-D3	88	N				56TB2-H 6	138	N				1	1
AA200R	3	1700	56J16-D4	88	N				56TB2-G 7	138	N				2	3
AA200W	3	1700	56J16-C4	88	N				56TB2-H 7	138	N				1	2
AA201R	3	1700	56J16-D4	88	N				56TB2-G 8	138	N				3	1
AA201W	3	1700	56J16-C3	88	N				56TB2-H 8	138	N				1	1
AA202	1	1700		250		225	7			300		275	1			
AA202A	4	600	SHLD AA202	20	N				56J16-B3	88	N					2
AA202L			56J16-B3	88	N				56TB2-X 6	138	N				3	1
AA202R			56J16-A3	88	N				56TB2-W 5	138	N				1	1
AA202W			56J16-A4	88	N				56TB2-X 5	138	N				1	1
AA203R	4	1700	56J16-P3	138	N				56TB2-K 3	138	N				1	1
AA203W	4	1700	56J16-R3	138	N				56TB2-L 3	138	N				1	1
AA204L	3	1700	56J16-C9	88	N				56TB2-R 8	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 24

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA204R	3	1700	56J16-C8	88	N				56TB2-N 7	138	N				1	1
AA204W	3	1700	56J16-B8	88	N				56TB2-N 8	138	N				1	1
AA205L	3	1700	56J16-B9	88	N				56TB2-T 8	138	N				1	1
AA205R	3	1700	56J16-A9	88	N				56TB2-U 8	138	N				1	1
AA205W	3	1700	56J16-A8	88	N				56TB2-U 7	138	N				1	1
AA206R	3	1700	56J16-D6	88	N				56TB2-R 1	138	N				1	1
AA206W	3	1700	56J16-D5	88	N				56TB2-N 1	138	N				1	1
AA207R	3	1700	56J16-D6	88	N				56TB2-R 2	138	N				2	3
AA207W	3	1700	56J16-C6	88	N				56TB2-N 2	138	N				1	2
AA208R	3	1700	56J16-C5	88	N				56TB2-N 3	138	N				1	1
AA208W	3	1700	56J16-D6	88	N				56TB2-R 3	138	N				3	2
AA209L	3	1700	56J16-F8	88	N				56TB2-X 4	138	N				1	1
AA209R	3	1700	56J16-D7	88	N				56TB2-W 3	138	N				1	1
AA209W	3	1700	56J16-F7	88	N				56TB2-W 4	138	N				1	1
AA210	4	1700	56J16-S1	138	N				56TB2-N 5	138	N				1	1
AA211	4	1700	56J16-T1	138	N				56TB2-R 5	138	N				1	1
AA212	4	1700	56J16-T2	138	N				56TB2-K 8	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 25

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	2	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA213L	3	1700	56J16-F9	88	N				56TB2-X 2	138	N				1	1
AA213R	3	1700	56J16-D9	88	N				56TB2-W 2	138	N				1	1
AA213W	3	1700	56J16-D8	88	N				56TB2-X 3	138	N				1	1
AA214	1	1700		250		225	7			300		275	1			
AA214A	4	600	SHLD AA214	20	N				56J16-B5	88	N					2
AA214L			56J16-B5	88	N				56TB2-R 7	138	N				3	1
AA214R			56J16-A5	88	N				56TB2-N 6	138	N				1	1
AA214W			56J16-A6	88	N				56TB2-R 6	138	N				1	1
AA215R	4	1700	56J16-N2	138	N				56TB2-K 5	138	N				1	1
AA215W	4	1700	56J16-N1	138	N				56TB2-K 6	138	N				1	1
AA216	3	1700	56J16-F2	88	N				56TB2-W 1	138	N				1	1
AA217	3	1700	56J16-F4	88	N				56TB2-X 1	138	N				1	1
AA218	3	1700	56J16-F6	88	N				56TB2-S 1	138	N				1	1
AA219	3	1700	56J16-F5	88	N				56TB2-T 1	138	N				1	1
AA220	4	1900	56J16-L1	138	N				56J22-228	10	N		6		2	1
AA221	4	1700	56J16-M1	138	N				56TB2-R 4	138	N				1	1
AA222K	4	1700	56J16-R4	138	N				56TB2-H 5	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 26

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA222L	4	1700	56J16-S3	138	N				56TB2-H 4	138	N				2	1
AA222R	4	1700	56J16-S4	138	N				56TB2-G 4	138	N				2	1
AA222W	4	1700	56J16-P4	138	N				56TB2-G 5	138	N				1	1
AA223	4	1700	56J16-P2	138	N				56TB2-K 4	138	N				1	2
AA224R	4	1700	56J16-N5	138	N				56TB2-L 1	138	N				3	2
AA224W	4	1700	56J16-P5	138	N				56TB2-K 1	138	N				3	2
AA225R	4	1700	56J16-N6	138	N				56TB2-T 2	138	N				2	2
AA225W	4	1700	56J16-P6	138	N				56TB2-U 3	138	N				2	1
AA226	5	1900		300		275	8			50		25	9			
AA226A			SHLD AA226	20	N				56E 30	20	N		7			
AA226L			56J16-L3	138	N				56J21- 35	10	N		6		1	1
AA226R			56J16-L4	138	N				56J21- 34	10	N		6		2	1
AA227	5	1900		300		275	8			50		25	9			
AA227A			SHLD AA227	20	N				56E 30	20	N					
AA227L			56J16-L3	138	N				56J21- 69	10	N		6		2	1
AA227R			56J16-M4	138	N				56J21- 68	10	N		6		2	1
AA228	4	1500	56J16-R5	138	N				56TB3-L20	138	N				1	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 27

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA229	4	1500	56J16-R6	138	N				56TB3-L20	138	N				1	3
AA230L	4	1700	56J16-G2	138	N				56TB2-W 7	138	N				1	1
AA230R	4	1700	56J16-H1	138	N				56TB2-X 7	138	N				1	1
AA230W	4	1700	56J16-G1	138	N				56TB2-W 6	138	N				1	1
AA231L	4	1700	56J16-G4	138	N				56TB2-U 4	138	N				1	1
AA231R	4	1700	56J16-H3	138	N				56TB2-T 5	138	N				1	1
AA231W	4	1700	56J16-G3	138	N				56TB2-U 5	138	N				1	1
AA232	1	1800		300		275	7			300		275	7			
AA232A	4	600	SHLD AA232	20	N				56E 30	20	N					
AA232B	4	600	56E 31	20	N				SHLD AA232	20	N					
AA232L			56J16-L4	138	N				56J12-D1	138	N				1	1
AA232R			56J16-M4	138	N				56J12-D2	138	N				1	1
AA232W			56J16-L3	138	N				56E 31	20	N				3	
AA233R	4	1100	56J16-N5	138	N				56J18-S6	138	N				1	1
AA233W	4	1100	56J16-P5	138	N				56J18-T6	138	N				1	1
AA234	4	900	56J16-N4	138	N				56J17-L6	138	N				2	2
AA235	4	1400	56J17-P6	138	N				56TB3-F 3	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 28

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA236	4	1400	56J17-T4	138	N				56J20-M1	138	N				1	2
AA237	4	1400	56J17-T3	138	N				56J20-M2	138	N				1	2
AA238	4	1400	56J17-T1	138	N				56J20-P3	138	N				2	1
AA239	4	1400	56J17-T2	138	N				56J20-P4	138	N				2	1
AA240	4	900	56J17-T6	138	N				56J18-S1	138	N				1	1
AA241	4	900	56J17-L6	138	N				56J18-R5	138	N				1	1
AA242L	4	900	56J17-K4	138	N				56J18-K1	138	N				1	1
AA242R	4	900	56J17-G4	138	N				56J18-L1	138	N				1	1
AA242W	4	600	56J17-H4	138	N				56E 53	20	N		7		1	
AA243L	4	900	56J17-K6	138	N				56J18-K4	138	N				1	1
AA243R	4	900	56J17-G6	138	N				56J18-L4	138	N				1	1
AA243W	4	600	56J17-H6	138	N				56E 51	20	N		7		1	
AA244	5	1600		250		225	9			50		25	8			
AA244B	4	600	56J22- 41	10	N		6		SHLD AA244	20	N				1	
AA244L			56J17-A4	88	N				56J22- 3	10	N		6		1	1
AA244R			56J17-B4	88	N				56J22- 4	10	N		6		1	1
AA245	5	1600		250		225	9			50		25	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 29

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA245B	4	600	56J22- 5	10	N		6		SHLD AA245	20	N				1	
AA245L			56J17-C4	88	N				56J22- 6	10	N		6		1	1
AA245R			56J17-D4	88	N				56J22- 43	10	N		6		1	1
AA246	5	1600		225		250	9			50		25	8			
AA246B	4	600	56J22- 8	10	N		6		SHLD AA246	20	N				1	
AA246L			56J17-C3	88	N				56J22- 45	10	N		6		1	1
AA246R			56J17-D3	88	N				56J22- 46	10	N		6		1	1
AA247R	3	1400	56J17-D2	88	N				56TB3-R 4	138	N				1	1
AA247W	3	1400	56J17-D3	88	N				56TB3-R 5	138	N				2	1
AA248	4	1400	56J17-S2	138	N				56TB3-T 3	138	N				2	3
AA249	3	1400	56J17-F8	88	N				56TB3-L 2	138	N				1	1
AA250R	4	1400	56J17-P4	138	N				56TB3-C 2	138	N				1	1
AA250W	4	1400	56J17-R4	138	N				56TB3-D 2	138	N				1	1
AA251	3	1400	56J17-D8	88	N				56TB3-M 2	138	N				1	1
AA252	3	1400	56J17-B7	88	N				56TB3-H 3	138	N				1	1
AA253	3	1400	56J17-B8	88	N				56TB3-G 3	138	N				1	1
AA254	3	1400	56J17-C7	88	N				56TB3-G 4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 30

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA255	3	1400	56J17-D6	88	N			56TB3-M 5	138	N			1	1
AA256	3	1400	56J17-D7	88	N			56TB3-M 4	138	N			1	1
AA257	3	1400	56J17-F7	88	N			56TB3-C 1	138	N			1	1
AA258K	4	1400	56J17-N6	138	N			56TB3-G 1	138	N			1	1
AA258L	4	1400	56J17-N5	138	N			56TB3-G 2	138	N			1	1
AA258R	4	1400	56J17-M6	138	N			56TB3-H 1	138	N			1	1
AA258W	4	1400	56J17-M5	138	N			56TB3-H 2	138	N			1	1
AA259	4	1400	56J17-H1	138	N			56TB3-K 2	138	N			1	1
AA260	4	1400	56J17-H2	138	N			56TB3-K 1	138	N			1	1
AA261	4	1400	56J17-G1	138	N			56TB3-K 5	138	N			1	1
AA262	4	1400	56J17-G2	138	N			56TB3-H 5	138	N			1	1
AA263	4	1400	56J17-L1	138	N			56TB3-L 5	138	N			1	1
AA264	4	1400	56J17-M1	138	N			56TB3-D 1	138	N			1	1
AA265	5	1400		300		275	9		300		275	8		
AA265B	4	600	56TB3-S 3	138	N			SHLD AA265	20	N			2	
AA265L			56J17-M4	138	N			56TB3-N 1	138	N			1	1
AA265R			56J17-N4	138	N			56TB3-N 2	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 31

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA266	3	1400	56J17-C5	88	N			56TB3-K 3	138	N			1	1
AA267	3	1400	56J17-B6	88	N			56TB3-L 4	138	N			1	1
AA268	3	1400	56J17-B5	88	N			56TB3-L 3	138	N			1	1
AA269	3	1400	56J17-D5	88	N			56TB3-M 1	138	N			1	1
AA270	5	1400		300		275	9		300		275	8		
AA270B	4	600	56TB3-N 3	138	N			SHLD AA270	20	N			1	
AA270L			56J17-N1	138	N			56TB3-N 4	138	N			1	1
AA270R			56J17-P1	138	N			56TB3-N 5	138	N			1	1
AA271	3	1400	56J17-F6	88	N			56TB3-C 4	138	N			1	1
AA272	3	1400	56J17-F5	88	N			56TB3-D 4	138	N			1	1
AA273	3	1400	56J17-F4	88	N			56TB3-C 5	138	N			1	1
AA274	3	1400	56J17-F3	88	N			56TB3-D 5	138	N			1	1
AA275	4	1400	56J17-P5	138	N			56TB3-D 3	138	N			1	1
AA276	3	1400	56J17-C6	88	N			56TB3-H 4	138	N			1	1
AA277	4	1400	56J17-M2	138	N			56TB3-G 5	138	N			1	1
AA278	4	1400	56J17-M3	138	N			56TB3-F 1	138	N			2	1
AA280	4	1400	56J17-R5	138	N			56TB3-M21	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 32

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA281L	3	1400	56J17-A8	88	N			56TB3-T 6	138	N			1	1
AA281R	3	1400	56J17-A7	88	N			56TB3-T 5	138	N			1	1
AA281W	3	1400	56J17-A6	88	N			56TB3-T 4	138	N			1	1
AA282	4	1400	56J17-R6	138	N			56TB3-L21	138	N			2	2
AA283	4	600	56J17-R6	138	N			56J17-S6	138	N			1	1
AA284L	3	1400	56J17-F9	88	N			56TB3-S 4	138	N			1	1
AA284R	3	1400	56J17-D9	88	N			56TB3-S 5	138	N			1	1
AA284W	3	1400	56J17-C9	88	N			56TB3-S 6	138	N			1	1
AA285	3	1400	56J17-A9	88	N			56TB3-M 3	138	N			1	1
AA286	3	1400	56J17-B9	88	N			56TB3-K 4	138	N			1	1
AA287	5	1600		250		225	9		50		25	8		
AA287B	4	600	56J22- 2	10	N		6	SHLD AA287	20	N			1	
AA287L			56J17-A3	88	N			56J22- 1	10	N		6	1	1
AA287R			56J17-B3	88	N			56J22- 39	10	N		6	1	1
AA288	5	1600		250		225	9		50		25	8		
AA288B	4	600	56J22- 11	10	N		6	SHLD AA288	20	N			1	
AA288L			56J17-D1	88	N			56J22- 48	10	N		6	1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 33

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM					TO					W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA288R			56J17-C1	88	N			56J22- 10	10	N		6	1	1
AA289R	3	1400	56J17-C2	88	N			56TB3-M14	138	N			1	1
AA289W	3	1400	56J17-C1	88	N			56TB3-M13	138	N			2	1
AA290	3	1400	56J17-C8	88	N			56TB3-L 1	138	N			1	1
AA291	4	600	56J17-S1	138	N			56J17-S2	138	N			1	1
AA292	4	1600	56J17-M3	138	N			56J22-206	10	N		6	3	1
AA293	4	1600	56J17-L3	138	N			56J22-243	10	N		6	1	1
AA294	4	600	56J17-T1	138	N			56J17-T2	138	N			1	1
AA295	4	1400	56J17-S3	138	N			56TB3-N 3	138	N			1	2
AA296	4	1400	56J17-S1	138	N			56TB3-S 3	138	N			2	3
AA297	4	1400	56J17-S4	138	N			56TB3-R 3	138	N			1	3
AA298	4	900	56J18-S1	138	N			56J19-T1	138	N			2	2
AA299R	3	900	56J18-F2	88	N			56J19-F4	88	N			1	1
AA299W	3	900	56J18-F1	88	N			56J19-D4	88	N			1	1
AA300R	3	900	56J18-C8	88	N			56J19-B2	88	N			1	1
AA300W	3	900	56J18-B8	88	N			56J19-C1	88	N			1	1
AA301R	3	900	56J18-D9	88	N			56J19-B3	88	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 34

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA301W	3	900	56J18-C9	88	N				56J19-A4	88	N				1	1
AA302K	4	900	56J18-G5	138	N				56J19-H6	138	N				1	1
AA302L	4	900	56J18-H5	138	N				56J19-H5	138	N				1	1
AA302R	4	900	56J18-H6	138	N				56J19-G5	138	N				1	1
AA302W	4	900	56J18-G6	138	N				56J19-G6	138	N				1	1
AA303	4	900	56J18-P3	138	N				56J19-R4	138	N				2	2
AA304R	4	900	56J18-S6	138	N				56J19-N6	138	N				2	1
AA304W	4	900	56J18-T6	138	N				56J19-P6	138	N				2	1
AA305	4	900	56J18-S5	138	N				56J19-P5	138	N				2	2
AA306	4	900	56J18-R5	138	N				56J19-P3	138	N				2	2
AA307	5	1400		250		225	11			300		275	7			
AA307B	4	600	56TB3-R 9	138	N				SHLD AA307	20	N				3	
AA307L			56J18-C2	88	N				56TB3-T 8	138	N				1	1
AA307R			56J18-B2	88	N				56TB3-T 7	138	N				1	1
AA308	5	1400		250		225	11			300		275	7			
AA308B	4	600	56TB3-N 9	138	N				SHLD AA308	20	N				3	
AA308L			56J18-A1	88	N				56TB3-S 8	138	N				1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 35

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA308R			56J18-B1	88	N				56TB3-S 7	138	N				1	1
AA309	5	1400		250		225	11			300		275	7			
AA309B	4	600	56TB3-T 9	138	N				SHLD AA309	20	N				3	
AA309L			56J18-A2	88	N				56TB3-T10	138	N				1	1
AA309R			56J18-A3	88	N				56TB3-T11	138	N				1	1
AA310	5	1400		250		225	11			300		275	7			
AA310B	4	600	56TB3-S 9	138	N				SHLD AA310	20	N				3	
AA310L			56J18-B3	88	N				56TB3-S10	138	N				1	1
AA310R			56J18-B4	88	N				56TB3-S11	138	N				1	1
AA311R	3	1400	56J18-D3	88	N				56TB3-R 7	138	N				1	1
AA311W	3	1400	56J18-D2	88	N				56TB3-R 8	138	N				1	1
AA312R	3	1400	56J18-C1	88	N				56TB3-R11	138	N				1	1
AA312W	3	1400	56J18-D1	88	N				56TB3-R10	138	N				1	1
AA313R	3	1400	56J18-A5	88	N				56TB3-N 7	138	N				1	1
AA313W	3	1400	56J18-A4	88	N				56TB3-N 8	138	N				1	1
AA314R	3	1400	56J18-C5	88	N				56TB3-N11	138	N				1	1
AA314W	3	1400	56J18-B5	88	N				56TB3-N10	138	N				1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 36

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA315	5	1400		250		225	11			300		275	7			
AA315B	4	600	56TB3-M 9	138	N				SHLD AA315	20	N				3	
AA315L			56J18-A9	88	N				56TB3-M 8	138	N				1	1
AA315R			56J18-B9	88	N				56TB3-M 7	138	N				1	1
AA316	5	1400		250		225	11			300		275	7			
AA316B	4	600	56TB3-L 9	138	N				SHLD AA316	20	N				3	
AA316L			56J18-A8	88	N				56TB3-L 7	138	N				1	1
AA316R			56J18-A7	88	N				56TB3-L 8	138	N				1	1
AA317R	3	1400	56J18-B6	88	N				56TB3-L11	138	N				1	1
AA317W	3	1400	56J18-A6	88	N				56TB3-L10	138	N				1	1
AA318R	3	1400	56J18-F4	88	N				56TB3-K12	138	N				1	1
AA318W	3	1400	56J18-F3	88	N				56TB3-L12	138	N				1	1
AA319	4	1400	56J18-P1	138	N				56TB3-D12	138	N				1	1
AA320	4	1400	56J18-R1	138	N				56TB3-C12	138	N				1	1
AA321	4	1400	56J18-R2	138	N				56TB3-C11	138	N				1	1
AA322	4	1400	56J18-P2	138	N				56TB3-D11	138	N				1	1
AA323	4	600	56J18-S3	138	N				56J18-S4	138	N				1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 37

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET	FROM TIN	FROM CUT WIRE OR SHIELD	FROM TERMINATION SPEC. ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET	TO TIN	TO CUT WIRE OR SHIELD	TO TERMINATION SPEC ITEM NO.	TO NO.	W-W FR	W-W TO
AA324	4	600	56J18-T3	138	N				56J18-T4	138	N				1	1
AA325	4	1400	56J18-S3	138	N				56TB3-K20	138	N				2	1
AA326L	3	1400	56J18-F9	88	N				56TB3-M11	138	N				1	1
AA326R	3	1400	56J18-F8	88	N				56TB3-M12	138	N				1	1
AA326W	3	1400	56J18-D8	88	N				56TB3-M10	138	N				1	1
AA327	4	1400	56J18-T3	138	N				56TB3-K20	138	N				2	2
AA328L	4	1400	56J18-L6	138	N				56TB3-R12	138	N				1	1
AA328R	4	1400	56J18-L5	138	N				56TB3-S12	138	N				1	1
AA328W	4	1400	56J18-K6	138	N				56TB3-T12	138	N				1	1
AA329	5	1500		250		225	11			300		275	7			
AA329B	4	600	56TB3-H 9	138	N				SHLD AA329	20	N				3	
AA329L			56J19-C2	88	N				56TB3-H 8	138	N				1	1
AA329R			56J19-B2	88	N				56TB3-H 7	138	N				2	1
AA330R	3	1400	56J18-F2	88	N				56TB3-F10	138	N				2	1
AA330W	3	1400	56J18-F1	88	N				56TB3-G10	138	N				2	1
AA331	5	1500		250		225	11			300		275	7			
AA331B	4	600	56TB3-K 9	138	N				SHLD AA331	20	N				3	

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 38

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	ω-ω FR	TO
AA331L			56J19-B4	88	N			56TB3-H10	138	N			1	1
AA331R			56J19-B3	88	N			56TB3-H11	138	N			2	1
AA332R	4	1400	56J18-H1	138	N			56TB3-K11	138	N			1	1
AA332W	4	1400	56J18-G1	138	N			56TB3-K10	138	N			1	1
AA333	4	1400	56J18-R3	138	N			56TB3-K20	138	N			1	3
AA334R	3	1400	56J18-D6	88	N			56TB3-G13	138	N			1	1
AA334W	3	1400	56J18-C6	88	N			56TB3-G14	138	N			1	1
AA335R	3	1400	56J18-D7	88	N			56TB3-G12	138	N			1	1
AA335W	3	1400	56J18-C7	88	N			56TB3-G11	138	N			1	1
AA336R	3	1400	56J18-F7	88	N			56TB3-F12	138	N			1	1
AA336W	3	1400	56J18-F6	88	N			56TB3-F11	138	N			1	1
AA337	4	1400	56J18-R4	138	N			56TB3-B11	138	N			2	1
AA338R	3	1400	56J18-D4	88	N			56TB3-K 7	138	N			1	1
AA338W	3	1400	56J18-D5	88	N			56TB3-K 8	138	N			1	1
AA339	4	600	56J18-S5	138	N			56J18-T5	138	N			1	1
AA340R	4	1400	56J18-N1	138	N			56TB3-D 7	138	N			1	1
AA340W	4	1400	56J18-M1	138	N			56TB3-C 7	138	N			3	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 39

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	ω-ω FR	TO
AA341R	4	1400	56J18-N3	138	N			56TB3-D 8	138	N			1	1
AA341W	4	1400	56J18-M3	138	N			56TB3-C 8	138	N			3	1
AA342R	4	1400	56J18-N4	138	N			56TB3-B 7	138	N			1	1
AA342W	4	1400	56J18-M4	138	N			56TB3-B 8	138	N			3	1
AA343R	4	1400	56J18-N6	138	N			56TB3-D 9	138	N			1	1
AA343W	4	1400	56J18-M6	138	N			56TB3-D10	138	N			2	1
AA344R	4	1400	56J18-H3	138	N			56TB3-F 7	138	N			1	1
AA344W	4	1400	56J18-G3	138	N			56TB3-G 7	138	N			1	1
AA345R	4	1400	56J18-H2	138	N			56TB3-F 8	138	N			1	1
AA345W	4	1400	56J18-G2	138	N			56TB3-G 8	138	N			1	1
AA346	4	600	56J18-H2	138	N			56E 52	20	N	8		2	
AA347	4	600	56J18-H2	138	N			56E 53	20	N			3	
AA348	4	600	56J18-H3	138	N			56E 50	20	N	8		2	
AA349	4	600	56J18-H3	138	N			56E 51	20	N			3	
AA350	4	600	56J18-M1	138	N			56J18-P3	138	N			2	1
AA351	4	600	56J18-M1	138	N			56J18-M2	138	N			1	1
AA352	4	600	56J18-M2	138	N			56J18-M3	138	N			2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 40

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	ω-ω FR	TO
AA353	4	600	56J18-M3	138	N			56J18-M4	138	N			1	1
AA354	4	600	56J18-M4	138	N			56J18-M5	138	N			2	2
AA355	4	600	56J18-M5	138	N			56J18-M6	138	N			1	1
AA356	4	900	56J19-P3	138	N			56J20-G4	138	N			1	1
AA357	4	900	56J19-T1	138	N			56J20-M6	138	N			1	1
AA358R	4	1500	56J19-S2	138	N			56TB3-D17	138	N			1	1
AA358W	4	1500	56J19-S3	138	N			56TB3-D16	138	N			1	1
AA359R	4	1500	56J19-P1	138	N			56TB3-D18	138	N			1	1
AA359W	4	1500	56J19-R1	138	N			56TB3-F18	138	N			1	1
AA360R	4	1500	56J19-T2	138	N			56TB3-C17	138	N			1	1
AA360W	4	1500	56J19-T3	138	N			56TB3-C16	138	N			1	1
AA361R	4	1500	56J19-P2	138	N			56TB3-G17	138	N			1	1
AA361W	4	1500	56J19-R2	138	N			56TB3-F17	138	N			1	1
AA362	4	600	56J19-R5	138	N			56J19-S4	138	N			1	1
AA363	4	600	56J19-R6	138	N			56J19-T4	138	N			1	1
AA364	4	1500	56J19-S4	138	N			56TB3-K22	138	N			2	1
AA365	4	1500	56J19-T4	138	N			56TB3-L22	138	N			2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 41

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	ω-ω FR	TO
AA366	4	600	56J19-S5	138	N			56J19-S6	138	N			1	1
AA367	4	1500	56J19-T6	138	N			56TB3-L22	138	N			2	2
AA368	4	600	56J19-T5	138	N			56J19-T6	138	N			1	1
AA369	4	1500	56J19-S5	138	N			56TB3-K22	138	N			2	2
AA370R	3	1500	56J19-B1	88	N			56TB3-T17	138	N			1	1
AA370W	3	1500	56J19-A1	88	N			56TB3-T16	138	N			1	1
AA371R	3	1500	56J19-A2	88	N			56TB3-S16	138	N			1	1
AA371W	3	1500	56J19-A3	88	N			56TB3-S17	138	N			1	1
AA372R	3	1500	56J19-A8	88	N			56TB3-R16	138	N			1	1
AA372W	3	1500	56J19-A9	88	N			56TB3-R17	138	N			1	1
AA373R	3	1500	56J19-C9	88	N			56TB3-N17	138	N			1	1
AA373W	3	1500	56J19-B9	88	N			56TB3-N16	138	N			1	1
AA374R	3	1500	56J19-D2	88	N			56TB3-M17	138	N			1	1
AA374W	3	1500	56J19-D1	88	N			56TB3-M16	138	N			1	1
AA375R	3	1500	56J19-B5	88	N			56TB3-H17	138	N			1	1
AA375W	3	1500	56J19-A5	88	N			56TB3-H16	138	N			1	1
AA376	3	1500	56J19-C5	88	N			56TB3-S18	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR D | SHEET 42

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION ITEM NO.	SPEC. 1 NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION ITEM NO.	SPEC 1 NO.	W-W FR	W-W TO
AA377R	3	1500	56J19-B8	88	N			56TB3-K17	138	N			1	1
AA377W	3	1500	56J19-B7	88	N			56TB3-K16	138	N			1	1
AA378	3	1500	56J19-A7	88	N			56TB3-R18	138	N			1	1
AA379R	3	1500	56J19-C8	88	N			56TB3-L16	138	N			1	1
AA379W	3	1500	56J19-D8	88	N			56TB3-L17	138	N			1	1
AA380	3	1500	56J19-C7	88	N			56TB3-T18	138	N			1	1
AA381R	3	1500	56J19-F6	88	N			56TB3-G16	138	N			1	1
AA381W	3	1500	56J19-F5	88	N			56TB3-F16	138	N			1	1
AA382R	4	1500	56J19-G1	138	N			56TB3-T13	138	N			1	1
AA382W	4	1500	56J19-H1	138	N			56TB3-T14	138	N			1	1
AA383R	4	1500	56J19-G2	138	N			56TB3-S14	138	N			1	1
AA383W	4	1500	56J19-G3	138	N			56TB3-S13	138	N			1	1
AA384	3	1500	56J19-C3	88	N			56TB3-N18	138	N			1	1
AA385	3	1500	56J19-C4	88	N			56TB3-M18	138	N			1	1
AA386R	3	1500	56J19-F8	88	N			56TB3-R14	138	N			1	1
AA386W	3	1500	56J19-F9	88	N			56TB3-R13	138	N			1	1
AA387	4	1500	56J19-M6	138	N			56TB3-G18	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 43

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION ITEM NO.	SPEC. 1 NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION ITEM NO.	SPEC 1 NO.	W-W FR	W-W TO
AA388	4	1500	56J19-M5	138	N			56TB3-K18	138	N			1	1
AA389	4	1500	56J19-N5	138	N			56TB3-L18	138	N			1	1
AA390	4	1500	56J19-R4	138	N			56TB3-K21	138	N			3	2
AA391R	4	1500	56J19-L1	138	N			56TB3-C 9	138	N			1	1
AA391W	4	1500	56J19-K1	138	N			56TB3-C10	138	N			3	1
AA392R	4	1500	56J19-L3	138	N			56TB3-B 9	138	N			1	1
AA392W	4	1500	56J19-K3	138	N			56TB3-B10	138	N			3	1
AA393	4	1500	56J19-P5	138	N			56TB3-K21	138	N			3	3
AA394	4	600	56J19-P4	138	N			56J19-P5	138	N			1	1
AA396R	3	1500	56J19-D6	88	N			56TB3-N13	138	N			1	1
AA396W	3	1500	56J19-D5	88	N			56TB3-N14	138	N			1	1
AA397	4	600	56J19-K1	138	N			56J19-R4	138	N			2	1
AA398	4	600	56J19-K1	138	N			56J19-K2	138	N			1	1
AA399	4	600	56J19-K2	138	N			56J19-K3	138	N			2	2
AA400	4	600	56J19-K3	138	N			56J19-K4	138	N			1	1
AA401	4	600	56J19-K4	138	N			56J19-K5	138	N			2	2
AA402	4	600	56J19-K5	138	N			56J19-K6	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 44

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION ITEM NO.	SPEC. 1 NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION ITEM NO.	SPEC 1 NO.	W-W FR	W-W TO
AA403	4	1000	56J20-L5	138	N			56J21- 37	10	N	6		1	1
AA404	4	1700	56J20-L5	138	N			56TB3-M22	138	N			2	2
AA405	4	1700	56J20-M5	138	N			56TB3-M21	138	N			1	2
AA406	4	1700	56J20-N6	138	N			56TB3-H20	138	N			2	1
AA407	4	1700	56J20-N4	138	N			56TB3-L21	138	N			1	3
AA408	4	1700	56J20-N3	138	N			56TB3-K22	138	N			1	3
AA409R	4	2500	56J20-F6	138	N			56TB2-H 4	138	N			1	2
AA409W	4	2500	56J20-F5	138	N			56TB2-G 4	138	N			1	2
AA410R	4	1700	56J20-F6	138	N			56TB3-B19	138	N			2	1
AA410W	4	1700	56J20-F5	138	N			56TB3-B18	138	N			2	1
AA411	4	600	56J20-G5	138	N			56J20-H5	138	N			1	1
AA412R	4	1700	56J20-H6	138	N			56TB3-C 3	138	N			2	1
AA412W	4	1700	56J20-H5	138	N			56TB3-D 2	138	N			2	2
AA413	4	600	56J20-G6	138	N			56J20-H6	138	N			1	1
AA414	4	1700	56J20-A4	138	N			56TB3-K19	138	N			1	1
AA415	4	1700	56J20-B4	138	N			56TB3-H19	138	N			1	1
AA416	4	1700	56J20-A1	138	N			56TB3-G19	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 45

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION ITEM NO.	SPEC. 1 NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	TERMINATION ITEM NO.	SPEC 1 NO.	W-W FR	W-W TO
AA417	4	1700	56J20-A2	138	N			56TB3-F19	138	N			1	1
AA418	4	1700	56J20-B1	138	N			56TB3-D19	138	N			1	1
AA419R	4	1700	56J20-B3	138	N			56TB3-N21	138	N			1	1
AA419W	4	1700	56J20-A3	138	N			56TB3-N20	138	N			1	1
AA420	4	1700	56J20-K5	138	N			56TB3-G21	138	N			1	1
AA421	4	1700	56J20-K6	138	N			56TB3-G22	138	N			1	1
AA422	4	1700	56J20-H4	138	N			56TB3-R20	138	N			2	1
AA423	4	1000	56J20-H4	138	N			56J21-234	10	N	6		3	1
AA424	4	1700	56J20-K4	138	N			56TB3-N19	138	N			1	1
AA425	4	1700	56J20-C6	138	N			56TB3-L19	138	N			1	1
AA426	4	1700	56J20-D6	138	N			56TB3-M19	138	N			1	1
AA427R	4	1700	56J20-B5	138	N			56TB3-T19	138	N			1	1
AA427W	4	1700	56J20-C5	138	N			56TB3-S19	138	N			1	1
AA428	4	1700	56J20-N1	138	N			56TB3-C20	138	N			2	1
AA429	4	600	56J20-N1	138	N			56J20-P1	138	N			1	1
AA431	4	600	56J20-R1	138	N			56J20-S1	138	N			1	1
AA432	4	1700	56J20-S1	138	N			56TB3-C21	138	N			2	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 46

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM				TO				W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT		TERMINATION SPEC. ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT		TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA433	4	1700	56J20-N2	138N			56TB3-D20	138N			2	1
AA434	4	600	56J20-N2	138N			56J20-P2	138N			1	1
AA436	4	600	56J20-R2	138N			56J20-S2	138N			1	1
AA437	4	1700	56J20-S2	138N			56TB3-D21	138N			2	1
AA438	4	600	56J20-L1	138N			56J20-M1	138N			2	1
AA439	4	600	56J20-L1	138N			56J20-L2	138N			1	1
AA440	4	600	56J20-L2	138N			56J20-M2	138N			2	1
AA441	4	1700	56J20-R3	138N			56TB3-D22	138N			2	1
AA442	4	600	56J20-R3	138N			56J20-S3	138N			1	1
AA443	4	1700	56J20-R4	138N			56TB3-C22	138N			2	1
AA444	4	600	56J20-R4	138N			56J20-S4	138N			1	1
AA445	4	1700	56J20-P3	138N			56TB3-N22	138N			2	1
AA446	4	1700	56J20-P5	138N			56TB3-H21	138N			2	1
AA447	4	600	56J20-P5	138N			56J20-R5	138N			1	1
AA448	4	600	56J20-R5	138N			56J20-S5	138N			2	1
AA449	4	1700	56J20-S5	138N			56TB3-H21	138N			2	2
AA450	4	1700	56J20-P6	138N			56TB3-H22	138N			2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 47

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM				TO				W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT		TERMINATION SPEC. ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT		TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA451	4	600	56J20-P6	138N			56J20-R6	138N			1	1
AA452	4	600	56J20-R6	138N			56J20-S6	138N			2	1
AA453	4	1700	56J20-S6	138N			56TB3-H22	138N			2	2
AA454	4	1700	56J20-K1	138N			56TB3-T20	138N			2	2
AA455	4	1700	56J20-K1	138N			56TB3-T21	138N			3	3
AA456	4	1700	56J20-K2	138N			56TB3-S21	138N			3	2
AA457	4	1700	56J20-M6	138N			56TB3-M20	138N			2	3
AA458	4	600	56J20-G1	138N			56J20-H1	138N			1	1
AA459	4	600	56J20-H1	138N			56J20-H2	138N			2	1
AA460	4	2500	56J20-G1	138N			56TB2-M 7	138N			2	3
AA461	4	2500	56J20-H2	138N			56TB2-M 1	138N			2	3
AA462	4	1700	56J20-G4	138N			56TB3-F22	138N			2	2
AA463R	4	1700	56J20-D4	138N			56TB3-S20	138N			1	1
AA463W	4	1700	56J20-D5	138N			56TB3-R19	138N			1	1
AA464R	4	1700	56J20-A6	138N			56TB3-L13	138N			1	1
AA464W	4	1700	56J20-B6	138N			56TB3-K13	138N			1	1
AA465R	4	1700	56J20-H3	138N			56TB3-L14	138N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 48

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM				TO				W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT		TERMINATION SPEC. ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT		TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA465W	4	1700	56J20-G3	138N			56TB3-K14	138N			1	1
AA466	4	600	56TB3-H12	138N			56TB3-R 3	138N			1	1
AA467	5	2100		50 25	8			300 275	9			
AA467A	4	600	SHLD AA467	20N			56E 46	20N	8			
AA467L			56J21-126	10N	6		56J15-M5	138N			1	1
AA467R			56J21-125	10N	6		56E 35	20N			1	
AA468	5	2100		50 25	8			300 275	9			
AA468A	4	600	SHLD AA468	20N			56E 46	20N				
AA468L			56J21- 93	10N	6		56J15-M6	138N			1	1
AA468R			56J21- 92	10N	6		56E 35	20N			1	
AA469	5	2100		50 25	8			300 275	9			
AA469A	4	600	SHLD AA469	20N			56E 46	20N				
AA469L			56J21-195	10N	6		56J15-L6	138N			1	1
AA469R			56J21-194	10N	6		56E 36	20N			1	
AA470	5	2100		50 25	8			300 275	9			
AA470A	4	600	SHLD AA470	20N			56E 46	20N				
AA470L			56J21-161	10N	6		56J15-K6	138N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 49

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM				TO				W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT		TERMINATION SPEC. ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT		TERMINATION SPEC ITEM NO.	NO.	FR	TO
AA470R			56J21-160	10N	6		56E 36	20N			1	
AA471	5	2100		50 25	8			300 275	9			
AA471A	4	600	SHLD AA471	20N			56E 46	20N				
AA471L			56J21- 95	10N	6		56J15-K4	138N			1	1
AA471R			56J21- 94	10N	6		56E 37	20N			1	
AA472	5	2100		50 25	8			300 275	9			
AA472A	4	600	SHLD AA472	20N			56E 46	20N				
AA472L			56J21-128	10N	6		56J15-K5	138N			1	1
AA472R			56J21-127	10N	6		56E 37	20N			1	
AA473	4	600	56J21- 23	10N	6		56E 45	20N	8		1	
AA474	4	600	56E 70	20N	8		56E 47	20N	8		1	
AA475	5	2100		50 25	8			250 225	9			
AA475A	4	600	SHLD AA475	20N			56E 47	20N				
AA475L			56J21- 24	10N	6		56J15-B4	88N			1	1
AA475R			56J21- 25	10N	6		56E 38	20N			1	
AA476	5	2100		50 25	8			250 225	9			
AA476A	4	600	SHLD AA476	20N			56E 47	20N				

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR D
SHEET 50

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA476L			56J21- 27	10	N		6		56E 38	20	N				1	
AA476R			56J21- 26	10	N		6		56J15-C4	88	N				1	1
AA477	5	2100		50		25	8			250		225	9			
AA477A	4	600	SHLD AA477	20	N				56E 47	20	N					
AA477L			56J21-232	10	N		6		56J15-B6	88	N				1	1
AA477R			56J21-233	10	N		6		56E 40	20	N				1	
AA478	5	2100		50		25	8			250		225	9			
AA478A	4	600	SHLD AA478	20	N				56E 47	20	N					
AA478L			56J21-193	10	N		6		56E 40	20	N				1	
AA478R			56J21-192	10	N		6		56J15-C6	88	N				1	1
AA479	5	2100		50		25	8			250		225	9			
AA479A	4	600	SHLD AA479	20	N				56E 47	20	N					
AA479L			56J21- 56	10	N		6		56J15-B8	88	N				1	1
AA479R			56J21- 57	10	N		6		56E 42	20	N				1	
AA480	5	2100		50		25	8			250		225	9			
AA480A	4	600	SHLD AA480	20	N				56E 47	20	N					
AA480L			56J21- 59	10	N		6		56E 42	20	N				1	

1 > THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 51

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA480R			56J21- 58	10	N		6		56J15-C8	88	N				1	1
AA481	5	2100		50		25	9			250		225	8			
AA481B	4	600	56E 39	20	N				SHLD AA481	20	N					
AA481L			56J21-237	10	N		6		56J15-B5	88	N				1	1
AA481R			56J21-238	10	N		6		56E 39	20	N				1	
AA482	5	2100		50		25	9			250		225	8			
AA482B	4	600	56E 39	20	N				SHLD AA482	20	N					
AA482L			56J21-200	10	N		6		56E 39	20	N				1	
AA482R			56J21-199	10	N		6		56J15-C5	88	N				1	1
AA483	5	2100		50		25	9			250		225	8			
AA483B	4	600	56E 41	20	N				SHLD AA483	20	N					
AA483L			56J21-165	10	N		6		56J15-B7	88	N				1	1
AA483R			56J21-166	10	N		6		56E 41	20	N				1	
AA484	5	2100		50		25	9			250		225	8			
AA484B	4	600	56E 41	20	N				SHLD AA484	20	N					
AA484L			56J21- 98	10	N		6		56E 41	20	N				1	
AA484R			56J21- 97	10	N		6		56J15-C7	88	N				1	1

1 > THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 52

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA485	5	2100		50		25	9			250		225	8			
AA485B	4	600	56E 43	20	N				SHLD AA485	20	N					
AA485L			56J21- 64	10	N		6		56J15-B9	88	N				1	1
AA485R			56J21- 65	10	N		6		56E 43	20	N				1	
AA486	5	2100		50		25	9			250		225	8			
AA486B	4	600	56E 43	20	N				SHLD AA486	20	N					
AA486L			56J21- 31	10	N		6		56E 43	20	N				1	
AA486R			56J21- 30	10	N		6		56J15-C9	88	N				1	1
AA487	5	2700		50		25	8			300		275	8			
AA487A	4	600	SHLD AA487	20	N				56E 57	20	N		8			
AA487B	4	600	56TB2-D 3	138	N				SHLD AA487	20	N				3	
AA487L			56J21-121	10	N		6		56TB2-D 2	138	N				1	2
AA487R			56J21-122	10	N		6		56TB2-F 3	138	N				1	1
AA488	5	2100		50		25	8			250		225	9			
AA488A	4	600	SHLD AA488	20	N				56E 57	20	N					
AA488L			56J21-188	10	N		6		56J15-A3	88	N				1	1
AA488R			56J21-189	10	N		6		56E 59	20	N				1	

1 > THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 53

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA489	5	1900		50		25	8			250		225	9			
AA489A	4	600	SHLD AA489	20	N				56E 57	20	N					
AA489L			56J21-152	10	N		6		56J16-A7	88	N				1	1
AA489R			56J21-153	10	N		6		56E 60	20	N		7		1	
AA490	5	2700		50		25	9			300		275	8			
AA490B	4	600	56E 29	20	N				SHLD AA490	20	N					
AA490L			56J21-169	10	N		6		56J12-G1	138	N				1	1
AA490R			56J21-170	10	N		6		56E 29	20	N				1	
AA491	5	2700		50		25	9			300		275	8			
AA491B	4	600	56E 29	20	N				SHLD AA491	20	N					
AA491L			56J21-137	10	N		6		56E 29	20	N				1	
AA491R			56J21-136	10	N		6		56J12-G2	138	N				1	1
AA492	5	1400		50		25	9			300		275	8			
AA492B	4	600	56E 71	20	N				SHLD AA492	20	N					
AA492L			56J21-163	10	N		6		56J18-K2	138	N				1	1
AA492R			56J21-164	10	N		6		56E 52	20	N				1	
AA493	5	1400		50		25	9			300		275	8			

1 > THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 > DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR D	SHEET 54

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD	TIN	STRIP WIRE OR JACKET	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD	TIN	STRIP WIRE OR JACKET	TERMINATION ITEM NO.	SPEC	NO.	W-W FR	W-W TO
AA493B	4	600	56E 71	20	N					SHLD AA493	20	N						
AA493L			56J21-131	10	N		6			56E 52	20	N					1	
AA493R			56J21-130	10	N		6			56J18-L2	138	N					1	1
AA494	5	1400		50		25	8				300		275	9				
AA494A	4	600	SHLD AA494	20	N					56E 45	20	N						
AA494L			56J21-156	10	N		6			56J18-L1	138	N					1	2
AA494R			56J21-157	10	N		6			56E 53	20	N					1	
AA495	5	1400		50		25	8				300		275	9				
AA495A	4	600	SHLD AA495	20	N					56E 45	20	N						
AA495L			56J21-123	10	N		6			56J18-K1	138	N					1	2
AA495R			56J21-124	10	N		6			56E 53	20	N					1	
AA496	5	1400		50		25	9				300		275	8				
AA496B	4	600	56E 71	20	N					SHLD AA496	20	N						
AA496L			56J21-235	10	N		6			56J18-K3	138	N					1	1
AA496R			56J21-236	10	N		6			56E 50	20	N					1	
AA497	5	1400		50		25	9				300		275	8				
AA497B	4	600	56E 71	20	N		8			SHLD AA497	20	N						

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 55

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD	TIN	STRIP WIRE OR JACKET	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD	TIN	STRIP WIRE OR JACKET	TERMINATION ITEM NO.	SPEC	NO.	W-W FR	W-W TO
AA497L			56J21-198	10	N		6			56E 50	20	N					1	
AA497R			56J21-197	10	N		6			56J18-L3	138	N					1	1
AA498	5	1400		50		25	8				300		275	9				
AA498A			SHLD AA498	20	N					56E 45	20	N						
AA498L			56J21-230	10	N		6			56J18-L4	138	N					1	2
AA498R			56J21-231	10	N		6			56E 51	20	N					1	
AA499	5	1400		50		25	8				300		275	9				
AA499A	4	600	SHLD AA499	20	N					56E 45	20	N						
AA499L			56J21-190	10	N		6			56J18-K4	138	N					1	2
AA499R			56J21-191	10	N		6			56E 51	20	N					1	
AA500	5	1600		50		25	9				300		275	8				
AA500B	4	600	56E 27	20	N					SHLD AA500	20	N						
AA500L			56J21-104	10	N		6			56E 27	20	N					1	
AA500R			56J21-103	10	N		6			56J17-R3	138	N					1	2
AA501R	4	2500	56J21-133	10	N		6			56E 34	20	N					1	
AA501W	4	2500	56J21-132	10	N		6			56J13-N5	138	N					1	2
AA502R	4	2500	56J21-100	10	N		6			56E 34	20	N					1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 56

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD	TIN	STRIP WIRE OR JACKET	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD	TIN	STRIP WIRE OR JACKET	TERMINATION ITEM NO.	SPEC	NO.	W-W FR	W-W TO
AA502W	4	2500	56J21- 99	10	N		6			56J13-N6	138	N					1	2
AA503	5	2900		50		25	9				300		275	8				
AA503B	4	600	56E 28	20	N					SHLD AA503	20	N						
AA503L			56J21-204	10	N		6			56E 28	20	N					1	
AA503R			56J21-203	10	N		6			56J11-L6	138	N					1	1
AA504	5	2900		50		25	9				300		275	8				
AA504B	4	600	56E 28	20	N					SHLD AA504	20	N						
AA504L			56J21-242	10	N		6			56E 28	20	N					1	
AA504R			56J21-241	10	N		6			56J11-M6	138	N					1	1
AA505	5	2700		50		25	9				300		275	8				
AA505B	4	600	56TB2-V 8	138	N					SHLD AA505	20	N					2	
AA505L			56J22-139	10	N		6			56TB2-U 8	138	N					1	2
AA505R			56J22-107	10	N		6			56TB2-U 7	138	N					1	2
AA506	5	2700		50		25	9				300		275	8				
AA506B	4	600	56TB2-M 8	138	N					SHLD AA506	20	N					2	
AA506L			56J22-141	10	N		6			56TB2-N 8	138	N					1	2
AA506R			56J22-142	10	N		6			56TB2-N 7	138	N					1	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 57

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD	TIN	STRIP WIRE OR JACKET	TERMINATION ITEM NO.	SPEC.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD	TIN	STRIP WIRE OR JACKET	TERMINATION ITEM NO.	SPEC	NO.	W-W FR	W-W TO
AA507	5	1700		50		25	9				300		275	8				
AA507B	4	600	56TB3-H12	138	N					SHLD AA507	20	N					3	
AA507L			56J22-144	10	N		6			56TB3-C13	138	N					1	1
AA507R			56J22-111	10	N		6			56TB3-C14	138	N					1	1
AA508	5	1700		50		25	9				300		275	8				
AA508B	4	600	56TB3-H14	138	N					SHLD AA508	20	N					2	
AA508L			56J22-113	10	N		6			56TB3-N20	138	N					1	2
AA508R			56J22-114	10	N		6			56TB3-N21	138	N					1	2
AA509	5	1700		50		25	9				300		275	8				
AA509B	4	600	56TB3-H13	138	N					SHLD AA509	20	N					3	
AA509L			56J22-116	10	N		6			56TB3-D13	138	N					1	1
AA509R			56J22-148	10	N		6			56TB3-D14	138	N					1	1
AA510	5	1700		50		25	9				300		275	8				
AA510B	4	600	56TB3-H14	138	N					SHLD AA510	20	N					3	
AA510L			56J22-150	10	N		6			56TB3-F13	138	N					1	1
AA510R			56J22-151	10	N		6			56TB3-F14	138	N					1	1
AA511	4	600	56TB1-S 2	138	N					56TB1-T 2	138	N					2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT. NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 58

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA512	4	600	56TB1-R 2	138	N				56TB1-S 2	138	N				1	1
AA513	4	600	56TB3-H12	138	N				56TB3-H13	138	N				2	2
AA514	4	600	56TB3-B15	138	N				56TB3-C15	138	N				1	3
AA515	4	600	56TB3-M20	138	N				56TB3-C18	138	N				1	1
AA517R	4	1700	56TB3-B19	138	N				56J22-120	10	N		6		2	1
AA517W	4	1700	56TB3-B18	138	N				56J22-153	10	N		6		2	1
AA518	4	1700	56TB3-F 4	138	N				56J22-190	10	N		6		1	1
AA521	4	1700	56TB3-L19	138	N				56J21- 62	10	N		6		2	1
AA522	4	1700	56TB3-N19	138	N				56J21- 63	10	N		6		2	1
AA525	4	1700	56TB3-M19	138	N				56J21- 96	10	N		6		2	1
AA526	4	1700	56TB3-D19	138	N				56J21-129	10	N		6		2	1
AA529	4	1700	56TB3-F19	138	N				56J21-162	10	N		6		2	1
AA530	4	1700	56TB3-G19	138	N				56J21-196	10	N		6		2	1
AA533	4	600	56TB3-L15	138	N				56TB3-M15	138	N				1	1
AA534	4	600	56TB3-M15	138	N				56TB3-N15	138	N				2	2
AA535	4	600	56TB3-N15	138	N				56TB3-R15	138	N				1	1
AA536	4	600	56TB3-S15	138	N				56TB3-T15	138	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 59

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA538	4	600	56TB3-G 9	138	N				56TB3-B15	138	N				2	2
AA539	4	600	56TB2-M 8	138	N				56TB2-M 7	138	N				1	1
AA540	4	600	56TB2-V 2	138	N				56TB2-V 3	138	N				1	1
AA541	4	600	56TB3-G 9	138	N				56TB3-H 9	138	N				1	1
AA542	4	600	56TB3-H 9	138	N				56TB3-K 9	138	N				2	2
AA543	4	600	56TB3-K 9	138	N				56TB3-L 9	138	N				1	1
AA544	4	600	56TB3-L 9	138	N				56TB3-M 9	138	N				2	2
AA545	4	600	56TB3-M 9	138	N				56TB3-N 9	138	N				1	1
AA546	4	600	56TB3-N 9	138	N				56TB3-R 9	138	N				2	2
AA547	4	600	56TB3-R 9	138	N				56TB3-S 9	138	N				1	1
AA548	4	600	56TB3-S 9	138	N				56TB3-T 9	138	N				2	2
AA549	4	600	56TB3-T 9	138	N				56TB3-T15	138	N				1	2
AA550	4	600	56TB3-G15	138	N				56TB3-H15	138	N				2	2
AA551	4	600	56TB3-H15	138	N				56TB3-K15	138	N				1	1
AA552	4	600	56TB3-K15	138	N				56TB3-L15	138	N				2	2
AA553	4	600	56TB3-R15	138	N				56TB3-S15	138	N				2	2
AA554	4	600	56TB3-H13	138	N				56TB3-H14	138	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 60

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA555	4	600	56TB2-K 4	138	N				56TB2-L 4	138	N				1	1
AA556	4	600	56TB2-L 2	138	N				56TB2-L 1	138	N				1	1
AA557	4	600	56TB2-K 2	138	N				56TB2-K 1	138	N				1	1
AA558	4	600	56TB3-M20	138	N				56TB3-C19	138	N				2	1
AA559	4	600	56TB3-T20	138	N				56TB3-T21	138	N				1	1
AA560	4	600	56TB3-S21	138	N				56TB3-T21	138	N				1	2
AA562	4	600	56J21- 53	10	N		6		56E 57	20	N				1	
AA563	4	600	56TB3-L21	138	N				56TB3-D15	138	N				1	3
AA566	4	600	56TB3-K21	138	N				56TB3-C15	138	N				1	1
AA568	4	600	56E 45	20	N				56E 46	20	N					
AA569	5	1700		300		275	7			250		225	11			
AA569A	4	600	SHLD AA569	20	N				56TB2-D 3	138	N					2
AA569L			56TB2-D 2	138	N				56J16-B7	88	N				3	1
AA569R			56TB2-F 3	138	N				56E 60	20	N				3	
AA571	5	1900		300		275	7			250		225	11			
AA571A	4	600	SHLD AA571	20	N				56TB2-S 3	138	N					2
AA571L			56TB2-N 3	138	N				56J17-A2	88	N				2	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 61

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA571R			56TB2-R 3	138	N				56J17-B2	88	N				3	1
AA572	4	600	56TB1-D 7	136	N				56TB1-D 8	138	N				1	1
AA577	4	600	56TB2-D 7	138	N				56TB2-D 8	138	N				2	1
AA578	4	600	56TB2-S 2	138	N				56TB2-R 2	138	N				1	1
AA579	4	600	56TB2-F 7	138	N				56TB2-G 7	138	N				1	1
AA580	4	600	56TB2-F 2	138	N				56TB2-G 2	138	N				1	1
AA581	4	600	56TB2-M 1	138	N				56TB2-M 2	138	N				1	1
AA582	4	600	56TB2-M 2	138	N				56TB2-M 3	138	N				2	2
AA583	4	600	56TB2-M 3	138	N				56TB2-M 4	138	N				1	1
AA584	4	600	56TB2-M 4	138	N				56TB2-M 5	138	N				2	2
AA585	4	600	56TB2-M 5	138	N				56TB2-M 6	138	N				1	1
AA586	4	600	56TB2-M 6	138	N				56TB2-M 7	138	N				2	2
AA587	4	600	56TB1-D 8	138	N				56TB1-N 8	138	N					
AA588	4	600	56TB1-N 4	138	N				56TB1-S 8	138	N				1	1
AA589	4	1000	56TB1-N 4	138	N				56TB2-M 5	138	N				3	3
AA590	4	1000	56TB1-D 7	138	N				56TB2-V 2	138	N				2	2
AA591	4	1000	56TB1-S 3	138	N				56TB2-M 4	138	N				2	3

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 62

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA592	4	2200	56TB2-M 6	138	N				56TB3-T 3	138	N				3	1
AA596	4	600	56TB2-V 3	138	N				56TB2-V 4	138	N				2	2
AA597	4	600	56TB2-V 4	138	N				56TB2-V 5	138	N				1	1
AA598	4	600	56TB2-V 5	138	N				56TB2-V 6	138	N				2	2
AA599	4	600	56TB2-V 6	138	N				56TB2-V 8	138	N				1	1
AA600	4	600	56TB1-S 8	138	N				56TB1-S 7	138	N				2	2
AA601	4	600	56TB1-S 7	138	N				56TB1-S 6	138	N				1	1
AA602	4	1000	56TB1-S 7	138	N				56TB2-D 8	138	N				3	2
AA603	4	600	56TB2-D 7	138	N				56TB2-D 6	138	N				1	1
AA604	4	600	56TB2-D 6	138	N				56TB2-D 5	138	N				2	2
AA605	4	600	56TB2-D 5	138	N				56TB2-D 4	138	N				1	1
AA607	4	600	56TB3-F22	138	N				56TB3-F21	138	N				1	1
AA608	4	1800	56TB2-D 4	138	N				56E 27	20	N				3	
AA609	4	600	56TB3-C15	138	N				56TB3-D15	138	N				2	2
AA610	4	900	56J11-N3	138	N				56J12-P4	138	N				1	1
AA611	4	600	56TB1-R 1	138	N				56TB1-S 1	138	N				1	1
AA612	4	600	56TB1-S 1	138	N				56TB1-T 1	138	N				2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 63

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA613	4	600	56TB3-B20	138	N				56TB3-B21	138	N				1	1
AA614	4	600	56TB3-B21	138	N				56TB3-F21	138	N				2	2
AA615	4	600	56TB2-R 3	138	N				56TB2-S 3	138	N				1	1
AA616	4	900	56J18-R4	138	N				56J19-M4	138	N				1	1
AA617	4	900	56J11-L4	138	N				56E 66	20	N		12		2	
AA618	4	900	56J11-L4	138	N				56E 67	20	N		12		3	
AA619	4	400	56TB3-B20	138	N				56E 68	20	N		12		2	
AA620	4	600	56TB3-B20	138	N				56E 69	20	N		12		3	
AA621	4	600	56TB2-T 2	138	N				56TB2-T 3	138	N				1	1
AA622	4	1700	56J20-R1	138	N				56TB3-C20	138	N				2	2
AA623	4	1700	56J20-P1	138	N				56TB3-C21	138	N				2	2
AA624	4	1700	56J20-R2	138	N				56TB3-D20	138	N				2	2
AA625	4	1700	56J20-P2	138	N				56TB3-D21	138	N				2	2
AA626	4	1700	56J20-S3	138	N				56TB3-D22	138	N				2	2
AA627	4	1700	56J20-S4	138	N				56TB3-C22	138	N				2	2
AA628	4	1700	56J20-R5	138	N				56TB3-H21	138	N				3	3
AA629	4	1700	56J20-R6	138	N				56TB3-H22	138	N				3	3

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 64

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA630	4	600	56TB3-D15	138	N				56TB3-G15	138	N				1	1
AA631	4	600	56TB3-R 3	138	N				56TB3-S 3	138	N				2	1
AA632	4	600	56TB1-S 3	138	N				56TB1-S 4	138	N				1	2
AA633	4	600	56TB1-S 4	138	N				56TB1-S 5	138	N				3	2
AA634	4	600	56TB1-S 5	138	N				56TB1-S 6	138	N				3	3
AA635	4	600	56TB3-T 3	138	N				56TB2-V 8	138	N				2	3
AA636	4	1200	56J17-F2	138	N				56TB3-D 6	138	N					
AA637	4	1200	56J15-R2	138	N				56TB2-F 4	138	N					
AA638	4	600	56J18-T5	138	N				56E 71	20	N					
AA639	5	2700		300		275	9			300		275	8			
AA639B	4	600	56E 70	20	N				SHLD AA639	20	N					
AA639L			56J12-D6	138	N				56J21- 28	10	N		6			
AA639R			56J12-F6	138	N				56J21- 29	10	N		6			
AA640	5	2700		300		275	9			300		275	8			
AA640B	4	600	56E 70	20	N				SHLD AA640	20	N					
AA640L			56J12-D5	138	N				56J21-158	10	N		6			
AA640R			56J12-F5	138	N				56J21-159	10	N		6			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR D	SHEET 65

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA641	5	2700		300		275	9			300		275	8			
AA641B	4	600	56E 70	20	N				SHLD AA641	20	N					
AA641L			56J12-D4	138	N				56J21- 60	10	N		6			
AA641R			56J12-F4	138	N				56J21- 61	10	N		6			
AA642	4	600	56J21- 22	10	N		6		56E70	20	N					
AA643	4	400	56J12-N6	138	N				56J12-R6	138	N					
AA644	4	400	56J12-P5	138	N				56J12-R3	138	N					
AA645	4	600	56TB2-U1	138	N				56TB2-U3	138	N					
AA646	4	1700	56J18-T1	138	N				56TB3-A10	138	N					
AA647	4	1700	56J22-172	10	N		6		56TB3-F2	138	N					

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR E	SHEET 66

MIL 2075 3-63 WIR-RO1

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014606-011	1014606-011	D	REVISED & REDRAWN TDRR 06998		
	Ⓜ	E	REVISED PER TDRR NO.10943	29 JUL 64	JJJ PBR
	Ⓜ	F	REVISED PER TDRR NO. 11352	12 AUG 64	JWP
		G	REPLACED WITH CHANGE BY REV.H REVISED PER TDRR 12528	7 OCT 64	JJJ

Ⓖ REPLACED WITH CHANGE BY REV H

	REV	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
	SHEET	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
REV STATUS	REV	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G		
OF SHEETS	SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		

AC SPARK PLUG DIVISION , GMC MILWAUKEE, WISCONSIN	MANNED SPACECRAFT CENTER HOUSTON, TEXAS			
ACSP PN				
DRAWN DATE 4/17/64 CHECKED APPROVAL D. R. 4/17/64 APPROVAL	WIRE LIST AA AGE HARNESS & END CONNECTOR ASSY			
NASA APPROVAL W J 7-7-64 MIT APPROVAL 4/17/64	CODE IDENT NO.	SIZE A	1014608	REV G
CONTRACT	SCALE		SHEET 1 OF 66	

REVISION STATUS OF SHEETS

SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV	SH	REV
50	G														
51	G														
52	G														
53	G														
54	G														
55	G														
56	G														
57	G														
58	G														
59	G														
60	G														
61	G														
62	G														
63	G														
64	G														
65	G														
66	G														

	MANNED SPACECRAFT CENTER HOUSTON, TEXAS	REVISION G	NASA DRAWING NO. 1014608 SHEET 2 OF 66

WIRE LIST AA

LIST OF MATERIALS

NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014608- 1	WIRE PER 1010707-2 SOLID 30AWG (THREE COND. TWISTED AND SHIELDED) 13 FT. 3.0 IN. TOTAL LENGTH
	3	1	1014608- 3	WIRE PER 1010708-4 SOLID 30AWG (SINGLE COND.) 186 FT. 2.0 IN. TOTAL LENGTH
	4	1	1014608- 4	WIRE PER 1010708-5 SOLID 24AWG (SINGLE COND.) 605 FT. 0.6 IN. TOTAL LENGTH
	5	1	1014608- 5	WIRE PER 1010708-3 SOLID 24AWG (TWO COND. TWISTED AND SHIELDED) 103 FT. 9.0 IN. TOTAL LENGTH
11	6	144	1010738- 2	CONTACT, SOCKET
11	7	36	1010763-1 ~~1010402-~~ 8	SLEEVE, SOLDER, LOW TEMPERATURE
11	8	69	1010763-2 ~~1010402-~~ 8	SLEEVE, SOLDER, LOW TEMPERATURE
11	9	53	1010490-110	INSULATION-SLEEVING, ELEC.
11	10	9	1010490-112	INSULATION-SLEEVING, ELEC.
11	11	11	1010490-114	INSULATION-SLEEVING, ELEC.
	12	4	MS-25036-44	TERMINAL LUG

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR G
SHEET 3

WIRE LIST AA

GENERAL NOTES

1 SEE CONDUCTOR CHART PENNANT NOTE 1

2 SEE CONDUCTOR CHART PENNANT NOTE 2

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

5 LENGTHS SPECIFIED ARE FOR CONDUCTORS BEFORE ATTACHING TO AN ACCESSORY.

6 CONDUCTORS WITH THE SAME NUMBER ARE TWISTED TOGETHER.

7 LENGTHS SPECIFIED FOR TWISTED CONDUCTORS ARE FOR AFTER TWISTING.

8 TWISTED CONDUCTORS ARE TO BE TWISTED WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED CONDUCTOR.

9 CONDUCTOR LENGTHS ARE FOR MANUFACTURING REF. ONLY.

10 NUMBERS IN WIRE-WRAP COLUMN INDICATE THE LEVEL OF TERMINATION.
CONDUCTORS LISTED AS ----
LEVEL 1 TO BE WIRE-WRAPPED AT BASE OF CONTACT
LEVEL 2 TO FOLLOW LEVEL 1
LEVEL 3 TO FOLLOW LEVEL 2

11 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR G
SHEET 4

WIRE LIST AA

GENERAL NOTES

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
B - TO END SHIELD
K - BLACK
L - BLUE
R - RED
W - WHITE

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+ .06-.00	+.03-.00	.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+ .50-.00	+.06-.00	.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE - NONE
REV LTR G
SHEET 5

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET 2	FROM TIN	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET 2	TO TIN	TO TERMINATION SPEC 1 ITEM NO.	TO NO.	W-W FR	W-W TO
AA 1	4	1600	56J11-S4	138	N			56J15-S6	138	N			3	2
AA 2	4	2800	56J11-S1	138	N			56J20-L1	138	N			2	3
AA 3	4	2800	56J11-S2	138	N			56J20-L2	138	N			2	3
AA 4	4	2800	56J11-S5	138	N			56J20-K2	138	N			2	1
AA 5R	4	900	56J11-N4	138	N			56J12-P3	138	N			1	1
AA 5W	4	900	56J11-N5	138	N			56J12-N3	138	N			1	1
AA 6	4	900	56J11-S4	138	N			56J12-S5	138	N			2	1
AA 7	4	900	56J11-L4	138	N			56J12-K3	138	N			1	1
AA 9R	4	900	56J11-L2	138	N			56J12-K2	138	N			1	1
AA 9W	4	900	56J11-L1	138	N			56J12-H2	138	N			1	1
AA 10K	4	900	56J11-B5	138	N			56J12-B2	138	N			1	1
AA 10L	4	900	56J11-A6	138	N			56J12-B1	138	N			1	1
AA 10R	4	900	56J11-A5	138	N			56J12-A2	138	N			1	1
AA 10W	4	900	56J11-B6	138	N			56J12-A1	138	N			1	1
AA 11R	3	2000	56J11-B3	138	N			56J17-B1	88	N			1	1
AA 11W	3	2000	56J11-C3	138	N			56J17-A1	88	N			1	1
AA 12L	4	2000	56J11-N2	138	N			56J17-R2	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR G
SHEET 6

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 12R	4	2000	56J11-N1	138	N			56J17-P2	138	N			1	1
AA 12W	4	2000	56J11-P1	138	N			56J17-N2	138	N			1	1
AA 13	4	2000	56J11-S3	138	N			56J17-R1	138	N			1	1
AA 14	4	1100	56J11-N6	138	N			56J13-P6	138	N			1	1
AA 15R	4	1700	56J11-B1	138	N			56TB2-G 2	138	N			1	2
AA 15W	4	1700	56J11-A1	138	N			56TB2-H 2	138	N			1	1
AA 16R	4	1400	56J11-C1	138	N			56TB1-C 5	138	N			1	1
AA 16W	4	1400	56J11-B1	138	N			56TB1-B 5	138	N			2	1
AA 17	4	600	56J11-R4	138	N			56J11-R5	138	N			2	2
AA 18	4	600	56J11-P4	138	N			56J11-R4	138	N			1	1
AA 19R	4	1700	56J11-B2	138	N			56TB2-G 7	138	N			1	2
AA 19W	4	1700	56J11-A2	138	N			56TB2-H 7	138	N			1	1
AA 20R	4	1400	56J11-C2	138	N			56TB1-A 5	138	N			1	1
AA 20W	4	1400	56J11-B2	138	N			56TB1-A 6	138	N			2	1
AA 21R	4	1700	56J11-B3	138	N			56TB2-R 2	138	N			2	2
AA 21W	4	1700	56J11-A3	138	N			56TB2-N 2	138	N			1	1
AA 22	4	600	56J11-P4	138	N			56J11-P5	138	N			2	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~B~~ G	SHEET 7

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 23K	4	1400	56J11-G1	138	N			56TB1-C 3	138	N			1	1
AA 23L	4	1400	56J11-H1	138	N			56TB1-B 4	138	N			1	1
AA 23R	4	1400	56J11-F1	138	N			56TB1-C 4	138	N			1	1
AA 23W	4	1400	56J11-G2	138	N			56TB1-B 3	138	N			2	1
AA 24	4	600	56J11-G2	138	N			56J11-P6	138	N			1	1
AA 25	4	600	56J11-S4	138	N			56J11-S5	138	N			1	1
AA 26	4	600	56J11-P6	138	N			56J11-R6	138	N			2	2
AA 27	4	1400	56J11-N6	138	N			56TB1-D 5	138	N			2	1
AA 28K	4	1400	56J11-L2	138	N			56TB1-C 2	138	N			2	2
AA 28L	4	1400	56J11-M2	138	N			56TB1-C 2	138	N			1	1
AA 28R	4	1400	56J11-M1	138	N			56TB1-D 2	138	N			1	1
AA 28W	4	1400	56J11-L1	138	N			56TB1-D 2	138	N			2	2
AA 29K	4	1400	56J11-B5	138	N			56TB1-B 7	138	N			2	2
AA 29L	4	1400	56J11-A6	138	N			56TB1-A 8	138	N			2	1
AA 29R	4	1400	56J11-A5	138	N			56TB1-A 7	138	N			2	1
AA 29W	4	1400	56J11-B6	138	N			56TB1-B 8	138	N			2	2
AA 30R	4	1400	56J11-D6	138	N			56TB1-D 3	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~B~~ G	SHEET 8

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 30W	4	1400	56J11-D5	138	N			56TB1-D 4	138	N			1	1
AA 31	4	600	56J11-R5	138	N			56J11-R6	138	N			1	1
AA 32R	4	1400	56J11-F6	138	N			56TB1-A 4	138	N			1	1
AA 32W	4	1400	56J11-G6	138	N			56TB1-A 3	138	N			1	1
AA 33	4	600	56J11-R6	138	N			56J11-S6	138	N			3	1
AA 34R	4	1400	56J11-H6	138	N			56TB1-A 2	138	N			1	1
AA 34W	4	1400	56J11-H5	138	N			56TB1-B 2	138	N			1	1
AA 35	4	1400	56J11-L3	138	N			56TB1-D 6	138	N			1	1
AA 36	4	600	56J11-M5	138	N			56E 28	20	N	8		2	
AA 37	4	600	56J11-M5	138	N			56J11-P3	138	N			1	1
AA 38	4	600	56J11-P2	138	N			56J11-R3	138	N			1	1
AA 39	4	600	56J11-P3	138	N			56J11-R3	138	N			2	2
AA 40	4	600	56J11-S1	138	N			56J11-S2	138	N			1	1
AA 41	4	600	56J11-R1	138	N			56J11-R2	138	N			1	1
AA 42R	4	1400	56J11-G3	138	N			56TB1-B 6	138	N			1	1
AA 42W	4	1400	56J11-F3	138	N			56TB1-C 6	138	N			1	1
AA 43	4	1700	56J11-R3	138	N			56TB2-M 1	138	N			3	2

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~B~~ G	SHEET 9

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT 2	STRIP WIRE OR JACKET 2	TIN	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA 44	4	1700	56J11-R1	138	N			56TB2-M 2	138	N			2	3
AA 45	4	1700	56J11-R2	138	N			56TB2-M 3	138	N			2	3
AA 46	4	1400	56J11-P6	138	N			56TB1-S 3	138	N			3	3
AA 47	4	1100	56J12-B6	138	N			56J14-H6	138	N			1	1
AA 48R	4	1400	56J12-K2	138	N			56J15-R4	138	N			2	1
AA 48W	4	1400	56J12-H2	138	N			56J15-S4	138	N			2	1
AA 49R	4	1400	56J12-P3	138	N			56J15-P5	138	N			2	2
AA 49W	4	1400	56J12-N3	138	N			56J15-P6	138	N			2	2
AA 50R	4	1400	56J12-P5	138	N			56J15-N5	138	N			1	1
AA 50W	4	1400	56J12-N5	138	N			56J15-N6	138	N			2	1
AA 51	4	2600	56J12-S6	138	N			56J20-N5	138	N			1	2
AA 52R	4	2600	56J12-K4	138	N			56J20-G6	138	N			1	2
AA 52W	4	2600	56J12-H4	138	N			56J20-G5	138	N			2	2
AA 53	4	2600	56J12-G4	138	N			56J20-L6	138	N			1	1
AA 54	4	2600	56J12-S1	138	N			56J20-M1	138	N			2	3
AA 55	4	2600	56J12-S2	138	N			56J20-M2	138	N			2	3
AA 56	4	1600	56J12-H5	138	N			56J16-M2	138	N			1	1

1. THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2. DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~B~~ G	SHEET 10

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	ω-ω FR	ω-ω TO
AA 57	4	1600	56J12-H6	138	N				56J16-M3	138	N				1	1
AA 58	4	1600	56J12-G6	138	N				56J16-N3	138	N				1	1
AA 59	4	1600	56J12-G5	138	N				56J16-R2	138	N				2	1
AA 60L	4	1100	56J12-P1	138	N				56TB1-H 3	138	N				2	1
AA 60R	4	1100	56J12-R1	138	N				56TB1-H 2	138	N				1	1
AA 60W	4	1100	56J12-P2	138	N				56TB1-G 2	138	N				1	1
AA 61	4	600	56J12-N1	138	N				56J12-P1	138	N				1	1
AA 62	4	600	56J12-H4	138	N				56J12-N2	138	N				1	1
AA 63R	4	1100	56J12-N6	138	N				56TB1-G 7	138	N				2	1
AA 63W	4	1100	56J12-P6	138	N				56TB1-H 7	138	N				2	1
AA 64R	4	1100	56J12-P5	138	N				56TB1-G 4	138	N				2	1
AA 64W	4	1100	56J12-N4	138	N				56TB1-H 4	138	N				2	1
AA 65	4	600	56J12-N4	138	N				56J12-N5	138	N				1	1
AA 66	4	2400	56J12-R6	138	N				56TB3-L20	138	N				1	1
AA 67	4	600	56J12-F1	138	N				56E 31	20	N		7		2	
AA 68	4	600	56J12-F1	138	N				56J12-F2	138	N				1	1
AA 69	4	600	56J12-F2	138	N				56E 29	20	N		8		2	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608	
SCALE - NONE	REV LTR ~~B~~ G		SHEET 11

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	ω-ω FR	ω-ω TO
AA 70	5	2800		300		275	8			50		25	9			
AA 70A	4	600	SHLD AA 70	20	N				56J12-H1	138	N					2
AA 70L			56J12-K1	138	N				56J21- 70	10	N		6		1	1
AA 70R			56J12-H1	138	N				56J21- 71	10	N		6		1	1
AA 71	4	600	56J12-G5	138	N				56J12-R5	138	N				1	1
AA 72	4	900	56J12-K3	138	N				56J13-C6	138	N				2	2
AA 73L	4	1100	56J12-K6	138	N				56J14-R2	138	N				1	2
AA 73R	4	1100	56J12-L6	138	N				56J14-S2	138	N				1	2
AA 73W	4	1100	56J12-M6	138	N				56J14-S3	138	N				1	1
AA 74	4	2700	56J12-G3	138	N				56J22-244	10	N		6		1	1
AA 75	4	900	56J12-A5	138	N				56J13-D2	138	N				1	1
AA 76	4	900	56J12-A6	138	N				56J13-F2	138	N				1	1
AA 77	4	600	56J12-B5	138	N				56E 34	20	N		7		1	
AA 78	4	1100	56J12-M3	138	N				56TB1-H 5	138	N				1	1
AA 79	4	1100	56J12-M4	138	N				56TB1-G 5	138	N				1	1
AA 80	4	1100	56J12-M1	138	N				56TB1-H 6	138	N				2	1
AA 81	4	2700	56J12-M1	138	N				56J21- 36	10	N		6		1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608	
SCALE - NONE	REV LTR ~~B~~ G		SHEET 12

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	ω-ω FR	ω-ω TO
AA 82	4	2400	56J12-L1	138	N				56TB3-M22	138	N				1	1
AA 83	4	1100	56J12-L2	138	N				56TB1-H 8	138	N				1	1
AA 87	4	600	56J12-S1	138	N				56J12-S3	138	N				1	1
AA 88	4	600	56J12-S2	138	N				56J12-S4	138	N				1	1
AA 89	4	600	56J12-R2	138	N				56J12-R3	138	N				1	1
AA 90	4	600	56J12-R3	138	N				56J12-R4	138	N				2	1
AA 91	4	600	56J12-R4	138	N				56E 31	20	N				2	
AA 92	5	1800		300		275	9			300		275	8			
AA 92B	4		56E 27	20	N		7		SHLD AA 92	20	N					
AA 92L			56J12-P4	138	N				56J17-R3	138	N				2	1
AA 92R			56J12-P4	138	N				56J17-R3	138	N				3	3
AA 94R	4	1800	56J12-N6	138	N				56J17-N3	138	N				1	1
AA 94W	4	1800	56J12-P6	138	N				56J17-P3	138	N				1	1
AA 95R	4	900	56J12-L5	138	N				56J13-R3	138	N				1	1
AA 95W	4	900	56J12-M5	138	N				56J13-S3	138	N				1	1
AA 96	4	900	56J12-R5	138	N				56J13-R6	138	N				2	2
AA 97	4	1800	56J12-F3	138	N				56J17-M3	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608	
SCALE - NONE	REV LTR ~~B~~ G		SHEET 13

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	ω-ω FR	ω-ω TO
AA 98	4	1100	56J12-R5	138	N				56TB1-S 6	138	N				3	2
AA 99	4	1100	56J12-R2	138	N				56TB1-N 5	138	N				2	2
AA100	4	1100	56J12-R4	138	N				56TB1-N 8	138	N				3	2
AA101	4	900	56J13-N5	138	N				56J14-H3	138	N				1	1
AA102	4	900	56J13-N6	138	N				56J14-K3	138	N				1	1
AA103	4	900	56J13-H6	138	N				56J14-G1	138	N				1	1
AA104	4	900	56J13-A6	138	N				56J14-A6	138	N				1	1
AA105R	4	900	56J13-L6	138	N				56J14-K1	138	N				1	1
AA105W	4	900	56J13-K6	138	N				56J14-H1	138	N				1	1
AA106	4	900	56J13-C6	138	N				56J14-H5	138	N				1	1
AA107	4	900	56J13-S6	138	N				56J14-S6	138	N				1	1
AA108	4	900	56J13-R6	138	N				56J14-R6	138	N				1	1
AA109R	4	900	56J13-R2	138	N				56J14-R1	138	N				1	1
AA109W	4	900	56J13-S2	138	N				56J14-S1	138	N				1	1
AA110R	4	900	56J13-R3	138	N				56J14-R5	138	N				2	1
AA110W	4	900	56J13-S3	138	N				56J14-S5	138	N				2	1
AA111R	4	900	56J13-R4	138	N				56J14-R4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608	
SCALE - NONE	REV LTR ~~B~~ G		SHEET 14

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET ▷2	T I N	▷2	FROM TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET ▷2	T I N	▷2	TO TERMINATION SPEC ▷1 ITEM NO.	NO.	ω-ω FR	ω-ω TO
AA111W	4	900	56J13-S4	138	N				56J14-S4	138	N				1	1
AA112R	4	900	56J13-R1	138	N				56J14-R2	138	N				1	1
AA112W	4	900	56J13-S1	138	N				56J14-S2	138	N				1	1
AA113	4	900	56J13-P6	138	N				56J14-P6	138	N				2	1
AA114	4	1100	56J13-D1	138	N				56J15-L4	138	N				1	1
AA115	4	1100	56J13-F1	138	N				56J15-M4	138	N				1	1
AA116	4	1100	56J13-D3	138	N				56J15-L3	138	N				1	1
AA117	4	1100	56J13-F3	138	N				56J15-M3	138	N				1	1
AA118R	4	1400	56J13-B1	138	N				56TB1-M 6	138	N				1	1
AA118W	4	1400	56J13-A1	138	N				56TB1-M 7	138	N				1	1
AA119	1	1400		300		275	10			300		275	7			
AA119B	4	600	56TB1-N 5	138	N				SHLD AA119	20	N				1	
AA119L			56J13-L1	138	N				56TB1-L 5	138	N				1	1
AA119R			56J13-H1	138	N				56TB1-M 5	138	N				1	1
AA119W			56J13-K1	138	N				56TB1-L 6	138	N				1	1
AA120	4	1400	56J13-D2	138	N				56TB1-L 2	138	N				2	1
AA121R	4	1400	56J13-B3	138	N				56TB1-N 2	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR G	SHEET 15

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET ▷2	T I N	▷2	FROM TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET ▷2	T I N	▷2	TO TERMINATION SPEC ▷1 ITEM NO.	NO.	ω-ω FR	ω-ω TO
AA121W	4	1400	56J13-A3	138	N				56TB1-M 3	138	N				1	1
AA122	1	1400		300		275	10			300		275	7			
AA122B	4	600	56TB1-N 4	138	N				SHLD AA122	20	N				2	
AA122L			56J13-N3	138	N				56TB1-M 4	138	N				1	1
AA122R			56J13-L3	138	N				56TB1-L 4	138	N				1	1
AA122W			56J13-M3	138	N				56TB1-L 3	138	N				1	1
AA123	4	1400	56J13-F2	138	N				56TB1-M 2	138	N				2	1
AA124	1	1400		300		275	10			300		275	7			
AA124B	4	600	56TB1-N 8	138	N				SHLD AA124	20	N				1	
AA124L			56J13-G6	138	N				56TB1-L 7	138	N				1	1
AA124R			56J13-D6	138	N				56TB1-M 8	138	N				1	1
AA124W			56J13-F6	138	N				56TB1-L 8	138	N				1	1
AA125	4	600	56J13-R6	138	N				56E 34	20	N				3	
AA126R	4	1600	56J14-A2	138	N				56TB1-T 4	138	N				1	1
AA126W	4	1600	56J14-A1	138	N				56TB1-T 5	138	N				1	1
AA127	1	1600		300		275	10			300		275	7			
AA127B	4	600	56TB1-S 4	138	N				SHLD AA127	20	N				1	

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR G	SHEET 16

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET ▷2	T I N	▷2	FROM TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET ▷2	T I N	▷2	TO TERMINATION SPEC ▷1 ITEM NO.	NO.	ω-ω FR	ω-ω TO
AA127L			56J14-P2	138	N				56TB1-U 3	138	N				1	1
AA127R			56J14-P1	138	N				56TB1-U 4	138	N				1	1
AA127W			56J14-P3	138	N				56TB1-T 3	138	N				1	1
AA128	4	1600	56J14-H6	138	N				56TB1-T 7	138	N				2	1
AA129R	4	2300	56J14-D1	138	N				56J21- 67	10	N		6		1	1
AA129W	4	2300	56E 33	20	N		8		56J21- 66	10	N		6			1
AA130R	4	2300	56E 33	20	N				56J21- 32	10	N		6			1
AA130W	4	2300	56J14-D2	138	N				56J21- 33	10	N		6		1	1
AA131R	4	2300	56J14-D3	138	N				56J21-240	10	N		6		1	1
AA131W	4	2300	56E 33	20	N				56J21-239	10	N		6			1
AA132R	4	2300	56J14-D4	138	N				56J21-202	10	N		6		1	1
AA132W	4	2300	56E 33	20	N				56J21-201	10	N		6			1
AA133	1	1600		300		275	10			300		275	7			
AA133B	4	600	56TB1-S 5	138	N				SHLD AA133	20	N				1	
AA133L			56J14-M2	138	N				56TB1-U 6	138	N				1	1
AA133R			56J14-M1	138	N				56TB1-T 6	138	N				1	1
AA133W			56J14-M3	138	N				56TB1-U 5	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR G	SHEET 17

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET ▷2	T I N	▷2	FROM TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET ▷2	T I N	▷2	TO TERMINATION SPEC ▷1 ITEM NO.	NO.	ω-ω FR	ω-ω TO
AA134R	4	2300	56E 33	20	N				56J21-167	10	N		6			1
AA134W	4	2300	56J14-D5	138	N				56J21-168	10	N		6		1	1
AA135R	4	2300	56J14-D6	138	N				56J21-135	10	N		6		1	1
AA135W	4	2300	56E 33	20	N				56J21-134	10	N		6			1
AA136	1	1600		300		275	10			300		275	7			
AA136B	4	600	56TB1-S 8	138	N				SHLD AA136	20	N				3	
AA136L			56J14-M6	138	N				56TB1-U 8	138	N				1	1
AA136R			56J14-L6	138	N				56TB1-T 8	138	N				1	1
AA136W			56J14-N6	138	N				56TB1-U 7	138	N				1	1
AA137	4	600	56J14-R6	138	N				56E 33	20	N				3	
AA138	4	900	56J14-H3	138	N				56J15-L1	138	N				2	1
AA139	4	900	56J14-C5	138	N				56J15-N4	138	N				1	1
AA140	4	900	56J14-C6	138	N				56J15-P4	138	N				1	1
AA141	4	900	56J14-C3	138	N				56J15-N3	138	N				1	1
AA142	4	900	56J14-C4	138	N				56J15-P3	138	N				1	1
AA143	4	900	56J14-C1	138	N				56J15-N2	138	N				1	1
AA144	4	900	56J14-C2	138	N				56J15-P2	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR G	SHEET 18

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA145	4	900	56J14-H4	138	N				56J15-M1	138	N				1	1
AA146	4	900	56J14-K3	138	N				56J15-N1	138	N				2	1
AA147	4	900	56J14-K4	138	N				56J15-P1	138	N				1	1
AA148	4	900	56J14-F6	138	N				56J15-L2	138	N				1	1
AA149	4	900	56J14-G6	138	N				56J15-M2	138	N				1	1
AA150R	4	900	56J14-R1	138	N				56J15-R5	138	N				2	2
AA150W	4	900	56J14-S1	138	N				56J15-S5	138	N				2	2
AA151	4	900	56J14-H5	138	N				56J15-K3	138	N				2	2
AA152	4	900	56J14-S6	138	N				56J15-S2	138	N				2	1
AA153	4	900	56J14-R6	138	N				56J15-R2	138	N				2	1
AA154R	4	1400	56J14-R4	138	N				56J17-S5	138	N				2	1
AA154W	4	1400	56J14-S4	138	N				56J17-T5	138	N				2	1
AA155K	3	1800	56J15-B2	88	N				56TB1-B 7	138	N				1	1
AA155L	3	1800	56J15-B1	88	N				56TB1-C 7	138	N				1	1
AA155R	3	1800	56J15-A2	88	N				56TB1-B 8	138	N				1	1
AA155W	3	1800	56J15-A1	88	N				56TB1-C 8	138	N				1	1
AA156	4	1500	56J15-R1	138	N				56TB2-C 2	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE		
99974	A	1014608	
SCALE - NONE	REV LTR	X G	SHEET 19

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA157R	4	2100	56J15-R2	138	N				56J21-101	10	N		6		2	1
AA157W	4	2100	56J15-P1	138	N				56J21-102	10	N		6		2	1
AA158	4	600	56J15-L5	138	N				56E 35	20	N		7		1	
AA159	4	600	56J15-L5	138	N				56E 36	20	N		7		2	
AA160	4	600	56J15-L5	138	N				56E 37	20	N		7		3	
AA161L	3	1500	56J15-D1	88	N				56TB2-C 5	138	N				1	1
AA161R	3	1500	56J15-C1	88	N				56TB2-A 5	138	N				1	1
AA161W	3	1500	56J15-C2	88	N				56TB2-B 5	138	N				1	1
AA162L	3	1500	56J15-F2	88	N				56TB2-C 6	138	N				1	1
AA162R	3	1500	56J15-D2	88	N				56TB2-A 6	138	N				1	1
AA162W	3	1500	56J15-F1	88	N				56TB2-B 6	138	N				1	1
AA163L	3	1500	56J15-C3	88	N				56TB2-C 4	138	N				1	1
AA163R	3	1500	56J15-D3	88	N				56TB2-A 4	138	N				1	1
AA163W	3	1500	56J15-D4	88	N				56TB2-B 4	138	N				1	1
AA164	3	600	56J15-A5	88	N				56E 38	20	N		7		2	
AA165	3	600	56J15-A7	88	N				56E 40	20	N		7		3	
AA166	3	600	56J15-A9	88	N				56E 42	20	N		7		3	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE		
99974	A	1014608	
SCALE - NONE	REV LTR	X G	SHEET 20

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA167	3	600	56J15-A5	88	N				56E 39	20	N		8		3	
AA168	3	600	56J15-A7	88	N				56E 41	20	N		8		2	
AA169	3	600	56J15-A9	88	N				56E 43	20	N		8		2	
AA170	4	1500	56J15-H4	138	N				56TB2-C 1	138	N				2	1
AA171L	3	1500	56J15-F7	88	N				56TB2-C 8	138	N				1	1
AA171R	3	1500	56J15-D7	88	N				56TB2-B 8	138	N				1	1
AA171W	3	1500	56J15-D8	88	N				56TB2-A 8	138	N				1	1
AA172L	3	1500	56J15-D9	88	N				56TB2-C 7	138	N				1	1
AA172R	3	1500	56J15-F9	88	N				56TB2-B 7	138	N				1	1
AA172W	3	1500	56J15-F8	88	N				56TB2-A 7	138	N				1	1
AA173	4	1500	56J15-S1	138	N				56TB2-B 2	138	N				2	1
AA174	4	1500	56J15-S3	138	N				56TB2-B 1	138	N				1	1
AA175	4	2100	56J15-S3	138	N				56J22-227	10	N		6		2	1
AA176	5	1500		250		225	11			300		275	7			
AA176B	4	600	56TB2-D 3	138	N				SHLD AA176	20	N				1	
AA176L			56J15-B3	88	N				56TB2-D 2	138	N				1	1
AA176R			56E 59	20	N		7		56TB2-F 3	138	N					2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE		
99974	A	1014608	
SCALE - NONE	REV LTR	X G	SHEET 21

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA177	4	1500	56J15-R6	138	N				56TB2-D 1	138	N				1	1
AA178	4	1800	56J15-H5	138	N				56J20-H4	138	N				1	1
AA179	4	1800	56J15-S2	138	N				56J20-K1	138	N				2	1
AA180R	3	900	56J15-A4	88	N				56J16-B2	88	N				1	1
AA180W	3	900	56J15-A5	88	N				56J16-B1	88	N				1	1
AA181R	3	900	56J15-A6	88	N				56J16-B4	88	N				1	1
AA181W	3	900	56J15-A7	88	N				56J16-B3	88	N				1	1
AA182R	3	900	56J15-A8	88	N				56J16-B6	88	N				1	1
AA182W	3	900	56J15-A9	88	N				56J16-B5	88	N				1	1
AA183	4	900	56J15-S1	138	N				56J16-L2	138	N				1	1
AA184	4	900	56J15-H4	138	N				56J16-L1	138	N				1	1
AA185R	4	900	56J15-P5	138	N				56J16-S3	138	N				1	1
AA185W	4	900	56J15-P6	138	N				56J16-S4	138	N				1	1
AA186	4	900	56J15-S6	138	N				56J16-S2	138	N				1	1
AA187	4	900	56J15-K3	138	N				56J16-N4	138	N				1	1
AA188R	4	1100	56J15-R5	138	N				56J17-L4	138	N				1	1
AA188W	4	1100	56J15-S5	138	N				56J17-L5	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE		
99974	A	1014608	
SCALE - NONE	REV LTR	X G	SHEET 22

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR		INDIVIDUAL LENGTH	FROM							TO							W-W	
NUMBER	ITEM NO.	2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	FR	TO
AA189	4	1600	56J16-S5	138	N					56J20-N5	138	N					1	1
AA190	4	1600	56J16-S6	138	N					56J20-N6	138	N					1	1
AA191R	4	1600	56J16-N5	138	N					56J20-L3	138	N					2	1
AA191W	4	1600	56J16-P5	138	N					56J20-K3	138	N					2	1
AA192R	4	1600	56J16-N6	138	N					56J20-M4	138	N					1	1
AA192W	4	1600	56J16-P6	138	N					56J20-L4	138	N					1	1
AA193	4	1600	56J16-S2	138	N					56J20-K2	138	N					2	2
AA194R	3	1700	56J16-D2	88	N					56TB2-G 3	138	N					1	1
AA194W	3	1700	56J16-D1	88	N					56TB2-H 3	138	N					1	1
AA195R	3	1700	56J16-D2	88	N					56TB2-G 2	138	N					2	3
AA195W	3	1700	56J16-C2	88	N					56TB2-H 2	138	N					1	2
AA196R	3	1700	56J16-D2	88	N					56TB2-G 1	138	N					3	1
AA196W	3	1700	56J16-C1	88	N					56TB2-H 1	138	N					1	1
AA197	1	1700		250		225	7				300		275	1				
AA197A	4	600	SHLD AA197	20	N					56J16-B1	88	N						2
AA197L			56J16-B1	88	N					56TB2-T 7	138	N					3	1
AA197R			56J16-A1	88	N					56TB2-U 6	138	N					1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR X G	SHEET 23

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR		INDIVIDUAL LENGTH	FROM							TO							W-W	
NUMBER	ITEM NO.	2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	FR	TO
AA197W			56J16-A2	88	N					56TB2-T 6	138	N					1	1
AA198R	4	1700	56J16-P1	138	N					56TB2-L 6	138	N					1	1
AA198W	4	1700	56J16-R1	138	N					56TB2-L 5	138	N					1	1
AA199R	3	1700	56J16-D4	88	N					56TB2-G 6	138	N					1	1
AA199W	3	1700	56J16-D3	88	N					56TB2-H 6	138	N					1	1
AA200R	3	1700	56J16-D4	88	N					56TB2-G 7	138	N					2	3
AA200W	3	1700	56J16-C4	88	N					56TB2-H 7	138	N					1	2
AA201R	3	1700	56J16-D4	88	N					56TB2-G 8	138	N					3	1
AA201W	3	1700	56J16-C3	88	N					56TB2-H 8	138	N					1	1
AA202	1	1700		250		225	7				300		275	1				
AA202A	4	600	SHLD AA202	20	N					56J16-B3	88	N						2
AA202L			56J16-B3	88	N					56TB2-X 6	138	N					3	1
AA202R			56J16-A3	88	N					56TB2-W 5	138	N					1	1
AA202W			56J16-A4	88	N					56TB2-X 5	138	N					1	1
AA203R	4	1700	56J16-P3	138	N					56TB2-K 3	138	N					1	1
AA203W	4	1700	56J16-R3	138	N					56TB2-L 3	138	N					1	1
AA204L	3	1700	56J16-C9	88	N					56TB2-R 8	138	N					1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR X G	SHEET 24

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR		INDIVIDUAL LENGTH	FROM							TO							W-W	
NUMBER	ITEM NO.	2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	FR	TO
AA204R	3	1700	56J16-C8	88	N					56TB2-N 7	138	N					1	1
AA204W	3	1700	56J16-B8	88	N					56TB2-N 8	138	N					1	1
AA205L	3	1700	56J16-B9	88	N					56TB2-T 8	138	N					1	1
AA205R	3	1700	56J16-A9	88	N					56TB2-U 8	138	N					1	1
AA205W	3	1700	56J16-A8	88	N					56TB2-U 7	138	N					1	1
AA206R	3	1700	56J16-D6	88	N					56TB2-R 1	138	N					1	1
AA206W	3	1700	56J16-D5	88	N					56TB2-N 1	138	N					1	1
AA207R	3	1700	56J16-D6	88	N					56TB2-R 2	138	N					2	3
AA207W	3	1700	56J16-C6	88	N					56TB2-N 2	138	N					1	2
AA208R	3	1700	56J16-C5	88	N					56TB2-N 3	138	N					1	1
AA208W	3	1700	56J16-D6	88	N					56TB2-R 3	138	N					3	2
AA209L	3	1700	56J16-F8	88	N					56TB2-X 4	138	N					1	1
AA209R	3	1700	56J16-D7	88	N					56TB2-W 3	138	N					1	1
AA209W	3	1700	56J16-F7	88	N					56TB2-W 4	138	N					1	1
AA210	4	1700	56J16-S1	138	N					56TB2-N 5	138	N					1	1
AA211	4	1700	56J16-T1	138	N					56TB2-R 5	138	N					1	1
AA212	4	1700	56J16-T2	138	N					56TB2-K 8	138	N					1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR X G	SHEET 25

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR		INDIVIDUAL LENGTH	FROM							TO							W-W	
NUMBER	ITEM NO.	2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC. 1	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION ITEM NO.	SPEC 1	NO.	FR	TO
AA213L	3	1700	56J16-F9	88	N					56TB2-X 2	138	N					1	1
AA213R	3	1700	56J16-D9	88	N					56TB2-W 2	138	N					1	1
AA213W	3	1700	56J16-D8	88	N					56TB2-X 3	138	N					1	1
AA214	1	1700		250		225	7				300		275	1				
AA214A	4	600	SHLD AA214	20	N					56J16-B5	88	N						2
AA214L			56J16-B5	88	N					56TB2-R 7	138	N					3	1
AA214R			56J16-A5	88	N					56TB2-N 6	138	N					1	1
AA214W			56J16-A6	88	N					56TB2-R 6	138	N					1	1
AA215R	4	1700	56J16-N2	138	N					56TB2-K 5	138	N					1	1
AA215W	4	1700	56J16-N1	138	N					56TB K 6	138	N					1	1
AA216	3	1700	56J16-F2	88	N					56TB2-W 1	138	N					1	1
AA217	3	1700	56J16-F4	88	N					56TB2-X 1	138	N					1	1
AA218	3	1700	56J16-F6	88	N					56TB2-S 1	138	N					1	1
AA219	3	1700	56J16-F5	88	N					56TB2-T 1	138	N					1	1
AA220	4	1900	56J16-L1	138	N					56J22-228	10	N		6			2	1
AA221	4	1700	56J16-M1	138	N					56TB2-R 4	138	N					1	1
AA222K	4	1700	56J16-R4	138	N					56TB2-H 5	138	N					1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR X G	SHEET 26

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T/N	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T/N	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA331L			56J19-B4	88	N			56TB3-H10	138	N			1	1
AA331R			56J19-B3	88	N			56TB3-H11	138	N			2	1
AA332R	4	1400	56J18-H1	138	N			56TB3-K11	138	N			1	1
AA332W	4	1400	56J18-G1	138	N			56TB3-K10	138	N			1	1
AA333	4	1400	56J18-R3	138	N			56TB3-K20	138	N			1	3
AA334R	3	1400	56J18-D6	88	N			56TB3-G13	138	N			1	1
AA334W	3	1400	56J18-C6	88	N			56TB3-G14	138	N			1	1
AA335R	3	1400	56J18-D7	88	N			56TB3-G12	138	N			1	1
AA335W	3	1400	56J18-C7	88	N			56TB3-G11	138	N			1	1
AA336R	3	1400	56J18-F7	88	N			56TB3-F12	138	N			1	1
AA336W	3	1400	56J18-F6	88	N			56TB3-F11	138	N			1	1
AA337	4	1400	56J18-R4	138	N			56TB3-B11	138	N			2	1
AA338R	3	1400	56J18-D4	88	N			56TB3-K 7	138	N			1	1
AA338W	3	1400	56J18-D5	88	N			56TB3-K 8	138	N			1	1
AA339	4	600	56J18-S5	138	N			56J18-T5	138	N			1	1
AA340R	4	1400	56J18-N1	138	N			56TB3-D 7	138	N			1	1
AA340W	4	1400	56J18-M1	138	N			56TB3-C 7	138	N			3	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~F~~ G	SHEET 39

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T/N	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T/N	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA341R	4	1400	56J18-N3	138	N			56TB3-D 8	138	N			1	1
AA341W	4	1400	56J18-M3	138	N			56TB3-C 8	138	N			3	1
AA342R	4	1400	56J18-N4	138	N			56TB3-B 7	138	N			1	1
AA342W	4	1400	56J18-M4	138	N			56TB3-B 8	138	N			3	1
AA343R	4	1400	56J18-N6	138	N			56TB3-D 9	138	N			1	1
AA343W	4	1400	56J18-M6	138	N			56TB3-D10	138	N			2	1
AA344R	4	1400	56J18-H3	138	N			56TB3-F 7	138	N			1	1
AA344W	4	1400	56J18-G3	138	N			56TB3-G 7	138	N			1	1
AA345R	4	1400	56J18-H2	138	N			56TB3-F 8	138	N			1	1
AA345W	4	1400	56J18-G2	138	N			56TB3-G 8	138	N			1	1
AA346	4	600	56J18-H2	138	N			56E 52	20	N	8		2	
AA347	4	600	56J18-H2	138	N			56E 53	20	N			3	
AA348	4	600	56J18-H3	138	N			56E 50	20	N	8		2	
AA349	4	600	56J18-H3	138	N			56E 51	20	N			3	
AA350	4	600	56J18-M1	138	N			56J18-P3	138	N			2	1
AA351	4	600	56J18-M1	138	N			56J18-M2	138	N			1	1
AA352	4	600	56J18-M2	138	N			56J18-M3	138	N			2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~F~~ G	SHEET 40

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T/N	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T/N	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA353	4	600	56J18-M3	138	N			56J18-M4	138	N			1	1
AA354	4	600	56J18-M4	138	N			56J18-M5	138	N			2	2
AA355	4	600	56J18-M5	138	N			56J18-M6	138	N			1	1
AA356	4	900	56J19-P3	138	N			56J20-G4	138	N			1	1
AA357	4	900	56J19-T1	138	N			56J20-M6	138	N			1	1
AA358R	4	1500	56J19-S2	138	N			56TB3-D17	138	N			1	1
AA358W	4	1500	56J19-S3	138	N			56TB3-D16	138	N			1	1
AA359R	4	1500	56J19-P1	138	N			56TB3-D18	138	N			1	1
AA359W	4	1500	56J19-R1	138	N			56TB3-F18	138	N			1	1
AA360R	4	1500	56J19-T2	138	N			56TB3-C17	138	N			1	1
AA360W	4	1500	56J19-T3	138	N			56TB3-C16	138	N			1	1
AA361R	4	1500	56J19-P2	138	N			56TB3-G17	138	N			1	1
AA361W	4	1500	56J19-R2	138	N			56TB3-F17	138	N			1	1
AA362	4	600	56J19-R5	138	N			56J19-S4	138	N			1	1
AA363	4	600	56J19-R6	138	N			56J19-T4	138	N			1	1
AA364	4	1500	56J19-S4	138	N			56TB3-K22	138	N			2	1
AA365	4	1500	56J19-T4	138	N			56TB3-L22	138	N			2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~F~~ G	SHEET 41

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T/N	FROM TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	2	T/N	TO TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA366	4	600	56J19-S5	138	N			56J19-S6	138	N			1	1
AA367	4	1500	56J19-T6	138	N			56TB3-L22	138	N			2	2
AA368	4	600	56J19-T5	138	N			56J19-T6	138	N			1	1
AA369	4	1500	56J19-S5	138	N			56TB3-K22	138	N			2	2
AA370R	3	1500	56J19-B1	88	N			56TB3-T17	138	N			1	1
AA370W	3	1500	56J19-A1	88	N			56TB3-T16	138	N			1	1
AA371R	3	1500	56J19-A2	88	N			56TB3-S16	138	N			1	1
AA371W	3	1500	56J19-A3	88	N			56TB3-S17	138	N			1	1
AA372R	3	1500	56J19-A8	88	N			56TB3-R16	138	N			1	1
AA372W	3	1500	56J19-A9	88	N			56TB3-R17	138	N			1	1
AA373R	3	1500	56J19-C9	88	N			56TB3-N17	138	N			1	1
AA373W	3	1500	56J19-B9	88	N			56TB3-N16	138	N			1	1
AA374R	3	1500	56J19-D2	88	N			56TB3-M17	138	N			1	1
AA374W	3	1500	56J19-D1	88	N			56TB3-M16	138	N			1	1
AA375R	3	1500	56J19-B5	88	N			56TB3-H17	138	N			1	1
AA375W	3	1500	56J19-A5	88	N			56TB3-H16	138	N			1	1
AA376	3	1500	56J19-C5	88	N			56TB3-S18	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~F~~ G	SHEET 42

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	FROM TIN	FROM TERMINATION SPEC. ITEM NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	TO TIN	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA377R	3	1500	56J19-B8	88N		56TB3-K17	138N		1	1
AA377W	3	1500	56J19-B7	88N		56TB3-K16	138N		1	1
AA378	3	1500	56J19-A7	88N		56TB3-R18	138N		1	1
AA379R	3	1500	56J19-C8	88N		56TB3-L16	138N		1	1
AA379W	3	1500	56J19-D8	88N		56TB3-L17	138N		1	1
AA380	3	1500	56J19-C7	88N		56TB3-T18	138N		1	1
AA381R	3	1500	56J19-F6	88N		56TB3-G16	138N		1	1
AA381W	3	1500	56J19-F5	88N		56TB3-F16	138N		1	1
AA382R	4	1500	56J19-G1	138N		56TB3-T13	138N		1	1
AA382W	4	1500	56J19-H1	138N		56TB3-T14	138N		1	1
AA383R	4	1500	56J19-G2	138N		56TB3-S14	138N		1	1
AA383W	4	1500	56J19-G3	138N		56TB3-S13	138N			1
AA384	3	1500	56J19-C3	88N		56TB3-N18	138N		1	1
AA385	3	1500	56J19-C4	88N		56TB3-M18	138N		1	1
AA386R	3	1500	56J19-F8	88N		56TB3-R14	138N		1	1
AA386W	3	1500	56J19-F9	88N		56TB3-R13	138N		1	1
AA387	4	1500	56J19-M6	138N		56TB3-G18	138N		1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~F~~ G	SHEET 43

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	FROM TIN	FROM TERMINATION SPEC. ITEM NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	TO TIN	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA388	4	1500	56J19-M5	138N		56TB3-K18	138N		1	1
AA389	4	1500	56J19-N5	138N		56TB3-L18	138N		1	1
AA390	4	1500	56J19-R4	138N		56TB3-K21	138N		3	2
AA391R	4	1500	56J19-L1	138N		56TB3-C 9	138N		1	1
AA391W	4	1500	56J19-K1	138N		56TB3-C10	138N		3	1
AA392R	4	1500	56J19-L3	138N		56TB3-B 9	138N		1	1
AA392W	4	1500	56J19-K3	138N		56TB3-B10	138N		3	1
AA393	4	1500	56J19-P5	138N		56TB3-K21	138N		3	3
AA394	4	600	56J19-P4	138N		56J19-P5	138N		1	1
AA396R	3	1500	56J19-D6	88N		56TB3-N13	138N		1	1
AA396W	3	1500	56J19-D5	88N		56TB3-N14	138N		1	1
AA397	4	600	56J19-K1	138N		56J19-R4	138N		2	1
AA398	4	600	56J19-K1	138N		56J19-K2	138N		1	1
AA399	4	600	56J19-K2	138N		56J19-K3	138N		2	2
AA400	4	600	56J19-K3	138N		56J19-K4	138N		1	1
AA401	4	600	56J19-K4	138N		56J19-K5	138N		2	2
AA402	4	600	56J19-K5	138N		56J19-K6	138N		1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~F~~ G	SHEET 44

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	FROM TIN	FROM TERMINATION SPEC. ITEM NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	TO TIN	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA403	4	1000	56J20-L5	138N		56J21- 37	10N	6	1	1
AA404	4	1700	56J20-L5	138N		56TB3-M22	138N		2	2
AA405	4	1700	56J20-M5	138N		56TB3-M21	138N		1	2
AA406	4	1700	56J20-N6	138N		56TB3-H20	138N		2	1
AA407	4	1700	56J20-N4	138N		56TB3-L21	138N		1	3
AA408	4	1700	56J20-N3	138N		56TB3-K22	138N		1	3
AA409R	4	2500	56J20-F6	138N		56TB2-H 4	138N		1	2
AA409W	4	2500	56J20-F5	138N		56TB2-G 4	138N		1	2
AA410R	4	1700	56J20-F6	138N		56TB3-B19	138N		2	1
AA410W	4	1700	56J20-F5	138N		56TB3-B18	138N		2	1
AA411	4	600	56J20-G5	138N		56J20-H5	138N		1	1
AA412R	4	1700	56J20-H6	138N		56TB3-C 3	138N		2	1
AA412W	4	1700	56J20-H5	138N		56TB3-D 2	138N		2	2
AA413	4	600	56J20-G6	138N		56J20-H6	138N		1	1
AA414	4	1700	56J20-A4	138N		56TB3-K19	138N		1	1
AA415	4	1700	56J20-B4	138N		56TB3-H19	138N		1	1
AA416	4	1700	56J20-A1	138N		56TB3-G19	138N		1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~F~~ G	SHEET 45

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	FROM TIN	FROM TERMINATION SPEC. ITEM NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET CIRCUIT POINT	TO TIN	TO TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA417	4	1700	56J20-A2	138N		56TB3-F19	138N		1	1
AA418	4	1700	56J20-B1	138N		56TB3-D19	138N		1	1
AA419R	4	1700	56J20-B3	138N		56TB3-N21	138N		1	1
AA419W	4	1700	56J20-A3	138N		56TB3-N20	138N		1	1
AA420	4	1700	56J20-K5	138N		56TB3-G21	138N		1	1
AA421	4	1700	56J20-K6	138N		56TB3-G22	138N		1	1
AA422	4	1700	56J20-H4	138N		56TB3-R20	138N		2	1
AA423	4	1000	56J20-H4	138N		56J21-234	10N	6	3	1
AA424	4	1700	56J20-K4	138N		56TB3-N19	138N		1	1
AA425	4	1700	56J20-C6	138N		56TB3-L19	138N		1	1
AA426	4	1700	56J20-D6	138N		56TB3-M19	138N		1	1
AA427R	4	1700	56J20-B5	138N		56TB3-T19	138N		1	1
AA427W	4	1700	56J20-C5	138N		56TB3-S19	138N		1	1
AA428	4	1700	56J20-N1	138N		56TB3-C20	138N		2	1
AA429	4	600	56J20-N1	138N		56J20-P1	138N		1	1
AA431	4	600	56J20-R1	138N		56J20-S1	138N		1	1
AA432	4	1700	56J20-S1	138N		56TB3-C21	138N		2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR ~~F~~ G	SHEET 46

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION		CUT WIRE OR SHIELD				TERMINATION			
NUMBER	ITEM NO.	2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	SPEC 1 ITEM NO.	NO.	FR	TO
AA433	4	1700	56J20-N2	138	N				56TB3-D20	138	N				2	1
AA434	4	600	56J20-N2	138	N				56J20-P2	138	N				1	1
AA436	4	600	56J20-R2	138	N				56J20-S2	138	N				1	1
AA437	4	1700	56J20-S2	138	N				56TB3-D21	138	N				2	1
AA438	4	600	56J20-L1	138	N				56J20-M1	138	N				2	1
AA439	4	600	56J20-L1	138	N				56J20-L2	138	N				1	1
AA440	4	600	56J20-L2	138	N				56J20-M2	138	N				2	1
AA441	4	1700	56J20-R3	138	N				56TB3-D22	138	N				2	1
AA442	4	600	56J20-R3	138	N				56J20-S3	138	N				1	1
AA443	4	1700	56J20-R4	138	N				56TB3-C22	138	N				2	1
AA444	4	600	56J20-R4	138	N				56J20-S4	138	N				1	1
AA445	4	1700	56J20-P3	138	N				56TB3-N22	138	N				2	1
AA446	4	1700	56J20-P5	138	N				56TB3-H21	138	N				2	1
AA447	4	600	56J20-P5	138	N				56J20-R5	138	N				1	1
AA448	4	600	56J20-R5	138	N				56J20-S5	138	N				2	1
AA449	4	1700	56J20-S5	138	N				56TB3-H21	138	N				2	2
AA450	4	1700	56J20-P6	138	N				56TB3-H22	138	N				2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR G
SHEET 47

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION		CUT WIRE OR SHIELD				TERMINATION			
NUMBER	ITEM NO.	2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	SPEC 1 ITEM NO.	NO.	FR	TO
AA451	4	600	56J20-P6	138	N				56J20-R6	138	N				1	1
AA452	4	600	56J20-R6	138	N				56J20-S6	138	N				2	1
AA453	4	1700	56J20-S6	138	N				56TB3-H22	138	N				2	2
AA454	4	1700	56J20-K1	138	N				56TB3-T20	138	N				2	2
AA455	4	1700	56J20-K1	138	N				56TB3-T21	138	N				3	3
AA456	4	1700	56J20-K2	138	N				56TB3-S21	138	N				3	2
AA457	4	1700	56J20-M6	138	N				56TB3-M20	138	N				2	3
AA458	4	600	56J20-G1	138	N				56J20-H1	138	N				1	1
AA459	4	600	56J20-H1	138	N				56J20-H2	138	N				2	1
AA460	4	2500	56J20-G1	138	N				56TB2-M 7	138	N				2	3
AA461	4	2500	56J20-H2	138	N				56TB2-M 1	138	N				2	3
AA462	4	1700	56J20-G4	138	N				56TB3-F22	138	N				2	2
AA463R	4	1700	56J20-D4	138	N				56TB3-S20	138	N				1	1
AA463W	4	1700	56J20-D5	138	N				56TB3-R19	138	N				1	1
AA464R	4	1700	56J20-A6	138	N				56TB3-L13	138	N				1	1
AA464W	4	1700	56J20-B6	138	N				56TB3-K13	138	N				1	1
AA465R	4	1700	56J20-H3	138	N				56TB3-L14	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR G
SHEET 48

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION		CUT WIRE OR SHIELD				TERMINATION			
NUMBER	ITEM NO.	2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	SPEC 1 ITEM NO.	NO.	FR	TO
AA465W	4	1700	56J20-G3	138	N				56TB3-K14	138	N				1	1
AA466	4	600	56TB3-H12	138	N				56TB3-R 3	138	N				1	1
AA467	5	2100		50		25	8			300		275	9			
AA467A	4	600	SHLD AA467	20	N				56E 46	20	N		8			
AA467L			56J21-126	10	N		6		56J15-M5	138	N				1	1
AA467R			56J21-125	10	N		6		56E 35	20	N				1	
AA468	5	2100		50		25	8			300		275	9			
AA468A	4	600	SHLD AA468	20	N				56E 46	20	N					
AA468L			56J21- 93	10	N		6		56J15-M6	138	N				1	1
AA468R			56J21- 92	10	N		6		56E 35	20	N				1	
AA469	5	2100		50		25	8			300		275	9			
AA469A	4	600	SHLD AA469	20	N				56E 46	20	N					
AA469L			56J21-195	10	N		6		56J15-L6	138	N				1	1
AA469R			56J21-194	10	N		6		56E 36	20	N				1	
AA470	5	2100		50		25	8			300		275	9			
AA470A	4	600	SHLD AA470	20	N				56E 46	20	N					
AA470L			56J21-161	10	N		6		56J15-K6	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR G
SHEET 49

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR			FROM						TO						W-W	
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD				TERMINATION		CUT WIRE OR SHIELD				TERMINATION			
NUMBER	ITEM NO.	2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	SPEC 1 ITEM NO.	NO.	FR	TO
AA470R			56J21-160	10	N		6		56E 36	20	N				1	
AA471	5	2100		50		25	8			300		275	9			
AA471A	4	600	SHLD AA471	20	N				56E 46	20	N					
AA471L			56J21- 95	10	N		6		56J15-K4	138	N				1	1
AA471R			56J21- 94	10	N		6		56E 37	20	N				1	
AA472	5	2100		50		25	8			300		275	9			
AA472A	4	600	SHLD AA472	20	N				56E 46	20	N					
AA472L			56J21-128	10	N		6		56J15-K5	138	N				1	1
AA472R			56J21-127	10	N		6		56E 37	20	N				1	
AA473	4	600	56J21- 23	10	N		6		56E 45	20	N		8		1	
AA474	4	600	56E 70	20	N		8		56E 47	20	N		8		1	
AA475	5	2100		50		25	8			250		225	9			
AA475A	4	600	SHLD AA475	20	N				56E 47	20	N					
AA475L			56J21- 24	10	N		6		56J15-B4	88	N				1	1
AA475R			56J21- 25	10	N		6		56E 38	20	N				1	
AA476	5	2100		50		25	8			250		225	9			
AA476A	4	600	SHLD AA476	20	N				56E 47	20	N					

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974
SIZE A
1014608
SCALE - NONE
REV LTR G
SHEET 50

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.	ω-ω FR	TO
AA476L			56J21- 27	10	N		6		56E 38	20	N				1	
AA476R			56J21- 26	10	N		6		56J15-C4	88	N				1	1
AA477	5	2100		50		25	8			250		225	9			
AA477A	4	600	SHLD AA477	20	N				56E 47	20	N					
AA477L			56J21-232	10	N		6		56J15-B6	88	N				1	1
AA477R			56J21-233	10	N		6		56E 40	20	N				1	
AA478	5	2100		50		25	8			250		225	9			
AA478A	4	600	SHLD AA478	20	N				56E 47	20	N					
AA478L			56J21-193	10	N		6		56E 40	20	N				1	
AA478R			56J21-192	10	N		6		56J15-C6	88	N				1	1
AA479	5	2100		50		25	8			250		225	9			
AA479A	4	600	SHLD AA479	20	N				56E 47	20	N					
AA479L			56J21- 56	10	N		6		56J15-B8	88	N				1	1
AA479R			56J21- 57	10	N		6		56E 42	20	N				1	
AA480	5	2100		50		25	8			250		225	9			
AA480A	4	600	SHLD AA480	20	N				56E 47	20	N					
AA480L			56J21- 59	10	N		6		56E 42	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR G | SHEET 51

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.	ω-ω FR	TO
AA480R			56J21- 58	10	N		6		56J15-C8	88	N				1	1
AA481	5	2100		50		25	9			250		225	8			
AA481B	4	600	56E 39	20	N				SHLD AA481	20	N					
AA481L			56J21-237	10	N		6		56J15-B5	88	N				1	1
AA481R			56J21-238	10	N		6		56E 39	20	N				1	
AA482	5	2100		50		25	9			250		225	8			
AA482B	4	600	56E 39	20	N				SHLD AA482	20	N					
AA482L			56J21-200	10	N		6		56E 39	20	N				1	
AA482R			56J21-199	10	N		6		56J15-C5	88	N				1	1
AA483	5	2100		50		25	9			250		225	8			
AA483B	4	600	56E 41	20	N				SHLD AA483	20	N					
AA483L			56J21-165	10	N		6		56J15-B7	88	N				1	1
AA483R			56J21-166	10	N		6		56E 41	20	N				1	
AA484	5	2100		50		25	9			250		225	8			
AA484B	4	600	56E 41	20	N				SHLD AA484	20	N					
AA484L			56J21- 98	10	N		6		56E 41	20	N				1	
AA484R			56J21- 97	10	N		6		56J15-C7	88	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR G | SHEET 52

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.	ω-ω FR	TO
AA485	5	2100		50		25	9			250		225	8			
AA485B	4	600	56E 43	20	N				SHLD AA485	20	N					
AA485L			56J21- 64	10	N		6		56J15-B9	88	N				1	1
AA485R			56J21- 65	10	N		6		56E 43	20	N				1	
AA486	5	2100		50		25	9			250		225	8			
AA486B	4	600	56E 43	20	N				SHLD AA486	20	N					
AA486L			56J21- 31	10	N		6		56E 43	20	N				1	
AA486R			56J21- 30	10	N		6		56J15-C9	88	N				1	1
AA487	5	2700		50		25	8			300		275	8			
AA487A	4	600	SHLD AA487	20	N				56E 57	20	N		8			
AA487B	4	600	56TB2-D 3	138	N				SHLD AA487	20	N				3	
AA487L			56J21-121	10	N		6		56TB2-D 2	138	N				1	2
AA487R			56J21-122	10	N		6		56TB2-F 3	138	N				1	1
AA488	5	2100		50		25	8			250		225	9			
AA488A	4	600	SHLD AA488	20	N				56E 57	20	N					
AA488L			56J21-188	10	N		6		56J15-A3	88	N				1	1
AA488R			56J21-189	10	N		6		56E 59	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR G | SHEET 53

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD	T I N	STRIP WIRE OR JACKET	TERMINATION SPEC ITEM NO.	NO.	ω-ω FR	TO
AA489	5	1900		50		25	8			250		225	9			
AA489A	4	600	SHLD AA489	20	N				56E 57	20	N					
AA489L			56J21-152	10	N		6		56J16-A7	88	N				1	1
AA489R			56J21-153	10	N		6		56E 60	20	N		7		1	
AA490	5	2700		50		25	9			300		275	8			
AA490B	4	600	56E 29	20	N				SHLD AA490	20	N					
AA490L			56J21-169	10	N		6		56J12-G1	138	N				1	1
AA490R			56J21-170	10	N		6		56E 29	20	N				1	
AA491	5	2700		50		25	9			300		275	8			
AA491B	4	600	56E 29	20	N				SHLD AA491	20	N					
AA491L			56J21-137	10	N		6		56E 29	20	N				1	
AA491R			56J21-136	10	N		6		56J12-G2	138	N				1	1
AA492	5	1400		50		25	9			300		275	8			
AA492B	4	600	56E 71	20	N				SHLD AA492	20	N					
AA492L			56J21-163	10	N		6		56J18-K2	138	N				1	1
AA492R			56J21-164	10	N		6		56E 52	20	N				1	
AA493	5	1400		50		25	9			300		275	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974 | SIZE A | 1014608
SCALE - NONE | REV LTR G | SHEET 54

MIL 2075 3-63 WIR-RO1

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE	TIN	STRIP JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE	TIN	STRIP JACKET	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA493B	4	600	56E 71	20	N				SHLD AA493	20	N					
AA493L			56J21-131	10	N		6		56E 52	20	N				1	
AA493R			56J21-130	10	N		6		56J18-L2	138	N				1	1
AA494	5	1400		50		25	8			300		275	9			
AA494A	4	600	SHLD AA494	20	N				56E 45	20	N					
AA494L			56J21-156	10	N		6		56J18-L1	138	N				1	2
AA494R			56J21-157	10	N		6		56E 53	20	N				1	
AA495	5	1400		50		25	8			300		275	9			
AA495A	4	600	SHLD AA495	20	N				56E 45	20	N					
AA495L			56J21-123	10	N		6		56J18-K1	138	N				1	2
AA495R			56J21-124	10	N		6		56E 53	20	N				1	
AA496	5	1400		50		25	9			300		275	8			
AA496B	4	600	56E 71	20	N				SHLD AA496	20	N					
AA496L			56J21-235	10	N		6		56J18-K3	138	N				1	1
AA496R			56J21-236	10	N		6		56E 50	20	N				1	
AA497	5	1400		50		25	9			300		275	8			
AA497B	4	600	56E 71	20	N		8		SHLD AA497	20	N					

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR G	SHEET 55

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE	TIN	STRIP JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE	TIN	STRIP JACKET	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA497L			56J21-198	10	N		6		56E 50	20	N				1	
AA497R			56J21-197	10	N		6		56J18-L3	138	N				1	1
AA498	5	1400		50		25	8			300		275	9			
AA498A			SHLD AA498	20	N				56E 45	20	N					
AA498L			56J21-230	10	N		6		56J18-L4	138	N				1	2
AA498R			56J21-231	10	N		6		56E 51	20	N				1	
AA499	5	1400		50		25	8			300		275	9			
AA499A	4	600	SHLD AA499	20	N				56E 45	20	N					
AA499L			56J21-190	10	N		6		56J18-K4	138	N				1	2
AA499R			56J21-191	10	N		6		56E 51	20	N				1	
AA500	5	1600		50		25	9			300		275	8			
AA500B	4	600	56E 27	20	N				SHLD AA500	20	N					
AA500L			56J21-104	10	N		6		56E 27	20	N				1	
AA500R			56J21-103	10	N		6		56J17-R3	138	N				1	2
AA501R	4	2500	56J21-133	10	N		6		56E 34	20	N				1	
AA501W	4	2500	56J21-132	10	N		6		56J13-N5	138	N				1	2
AA502R	4	2500	56J21-100	10	N		6		56E 34	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR G	SHEET 56

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE	TIN	STRIP JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE	TIN	STRIP JACKET	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA502W	4	2500	56J21- 99	10	N		6		56J13-N6	138	N				1	2
AA503	5	2900		50		25	9			300		275	8			
AA503B	4	600	56E 28	20	N				SHLD AA503	20	N					
AA503L			56J21-204	10	N		6		56E 28	20	N				1	
AA503R			56J21-203	10	N		6		56J11-L6	138	N				1	1
AA504	5	2900		50		25	9			300		275	8			
AA504B	4	600	56E 28	20	N				SHLD AA504	20	N					
AA504L			56J21-242	10	N		6		56E 28	20	N				1	
AA504R			56J21-241	10	N		6		56J11-M6	138	N				1	1
AA505	5	2700		50		25	9			300		275	8			
AA505B	4	600	56TB2-V 8	138	N				SHLD AA505	20	N				2	
AA505L			56J22-139	10	N		6		56TB2-U 8	138	N				1	2
AA505R			56J22-107	10	N		6		56TB2-U 7	138	N				1	2
AA506	5	2700		50		25	9			300		275	8			
AA506B	4	600	56TB2-M 8	138	N				SHLD AA506	20	N				2	
AA506L			56J22-141	10	N		6		56TB2-N 8	138	N				1	2
AA506R			56J22-142	10	N		6		56TB2-N 7	138	N				1	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR G	SHEET 57

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE	TIN	STRIP JACKET	TERMINATION SPEC. ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE	TIN	STRIP JACKET	TERMINATION SPEC ITEM NO.	NO.	W-W FR	W-W TO
AA507	5	1700		50		25	9			300		275	8			
AA507B	4	600	56TB3-H12	138	N				SHLD AA507	20	N				3	
AA507L			56J22-144	10	N		6		56TB3-C13	138	N				1	1
AA507R			56J22-111	10	N		6		56TB3-C14	138	N				1	1
AA508	5	1700		50		25	9			300		275	8			
AA508B	4	600	56TB3-H14	138	N				SHLD AA508	20	N				2	
AA508L			56J22-113	10	N		6		56TB3-N20	138	N				1	2
AA508R			56J22-114	10	N		6		56TB3-N21	138	N				1	2
AA509	5	1700		50		25	9			300		275	8			
AA509B	4	600	56TB3-H13	138	N				SHLD AA509	20	N				3	
AA509L			56J22-116	10	N		6		56TB3-D13	138	N				1	1
AA509R			56J22-148	10	N		6		56TB3-D14	138	N				1	1
AA510	5	1700		50		25	9			300		275	8			
AA510B	4	600	56TB3-H14	138	N				SHLD AA510	20	N				3	
AA510L			56J22-150	10	N		6		56TB3-F13	138	N				1	1
AA510R			56J22-151	10	N		6		56TB3-F14	138	N				1	1
AA511	4	600	56TB1-S 2	138	N				56TB1-T 2	138	N				2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO.	SIZE	
99974	A	1014608
SCALE - NONE	REV LTR G	SHEET 58

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET 2▷	FROM TIN	FROM CUT WIRE OR SHIELD 2▷	FROM TERMINATION SPEC. 1▷ ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET 2▷	TO TIN	TO CUT WIRE OR SHIELD 2▷	TO TERMINATION SPEC 1▷ ITEM NO.	TO NO.	W-W FR	W-W TO
AA512	4	600	56TB1-R 2	138	N				56TB1-S 2	138	N				1	1
AA513	4	600	56TB3-H12	138	N				56TB3-H13	138	N				2	2
AA514	4	600	56TB3-B15	138	N				56TB3-C15	138	N				1	3
AA515	4	600	56TB3-M20	138	N				56TB3-C18	138	N				1	1
AA517R	4	1700	56TB3-B19	138	N				56J22-120	10	N		6		2	1
AA517W	4	1700	56TB3-B18	138	N				56J22-153	10	N		6		2	1
AA518	4	1700	56TB3-F 4	138	N				56J22-190	10	N		6		1	1
AA521	4	1700	56TB3-L19	138	N				56J21- 62	10	N		6		2	1
AA522	4	1700	56TB3-N19	138	N				56J21- 63	10	N		6		2	1
AA525	4	1700	56TB3-M19	138	N				56J21- 96	10	N		6		2	1
AA526	4	1700	56TB3-D19	138	N				56J21-129	10	N		6		2	1
AA529	4	1700	56TB3-F19	138	N				56J21-162	10	N		6		2	1
AA530	4	1700	56TB3-G19	138	N				56J21-196	10	N		6		2	1
AA533	4	600	56TB3-L15	138	N				56TB3-M15	138	N				1	1
AA534	4	600	56TB3-M15	138	N				56TB3-N15	138	N				2	2
AA535	4	600	56TB3-N15	138	N				56TB3-R15	138	N				1	1
AA536	4	600	56TB3-S15	138	N				56TB3-T15	138	N				1	1

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR G	SHEET 59

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET 2▷	FROM TIN	FROM CUT WIRE OR SHIELD 2▷	FROM TERMINATION SPEC. 1▷ ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET 2▷	TO TIN	TO CUT WIRE OR SHIELD 2▷	TO TERMINATION SPEC 1▷ ITEM NO.	TO NO.	W-W FR	W-W TO
AA538	4	600	56TB3-G 9	138	N				56TB3-B15	138	N				2	2
AA539	4	600	56TB2-M 8	138	N				56TB2-M 7	138	N				1	1
AA540	4	600	56TB2-V 2	138	N				56TB2-V 3	138	N				1	1
AA541	4	600	56TB3-G 9	138	N				56TB3-H 9	138	N				1	1
AA542	4	600	56TB3-H 9	138	N				56TB3-K 9	138	N				2	2
AA543	4	600	56TB3-K 9	138	N				56TB3-L 9	138	N				1	1
AA544	4	600	56TB3-L 9	138	N				56TB3-M 9	138	N				2	2
AA545	4	600	56TB3-M 9	138	N				56TB3-N 9	138	N				1	1
AA546	4	600	56TB3-N 9	138	N				56TB3-R 9	138	N				2	2
AA547	4	600	56TB3-R 9	138	N				56TB3-S 9	138	N				1	1
AA548	4	600	56TB3-S 9	138	N				56TB3-T 9	138	N				2	2
AA549	4	600	56TB3-T 9	138	N				56TB3-T15	138	N				1	2
AA550	4	600	56TB3-G15	138	N				56TB3-H15	138	N				2	2
AA551	4	600	56TB3-H15	138	N				56TB3-K15	138	N				1	1
AA552	4	600	56TB3-K15	138	N				56TB3-L15	138	N				2	2
AA553	4	600	56TB3-R15	138	N				56TB3-S15	138	N				2	2
AA554	4	600	56TB3-H13	138	N				56TB3-H14	138	N				1	1

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR G	SHEET 60

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET 2▷	FROM TIN	FROM CUT WIRE OR SHIELD 2▷	FROM TERMINATION SPEC. 1▷ ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET 2▷	TO TIN	TO CUT WIRE OR SHIELD 2▷	TO TERMINATION SPEC 1▷ ITEM NO.	TO NO.	W-W FR	W-W TO
AA555	4	600	56TB2-K 4	138	N				56TB2-L 4	138	N				1	1
AA556	4	600	56TB2-L 2	138	N				56TB2-L 1	138	N				1	1
AA557	4	600	56TB2-K 2	138	N				56TB2-K 1	138	N				1	1
AA558	4	600	56TB3-M20	138	N				56TB3-C19	138	N				2	1
AA559	4	600	56TB3-T20	138	N				56TB3-T21	138	N				1	1
AA560	4	600	56TB3-S21	138	N				56TB3-T21	138	N				1	2
AA562	4	600	56J21- 53	10	N		6		56E 57	20	N				1	
AA563	4	600	56TB3-L21	138	N				56TB3-D15	138	N				1	3
AA566	4	600	56TB3-K21	138	N				56TB3-C15	138	N				1	1
AA568	4	600	56E 45	20	N				56E 46	20	N					
AA569	5	1700		300		275	7			250		225	11			
AA569A	4	600	SHLD AA569	20	N				56TB2-D 3	138	N					2
AA569L			56TB2-D 2	138	N				56J16-B7	88	N				3	1
AA569R			56TB2-F 3	138	N				56E 60	20	N				3	
AA571	5	1900		300		275	7			250		225	11			
AA571A	4	600	SHLD AA571	20	N				56TB2-S 3	138	N					2
AA571L			56TB2-N 3	138	N				56J17-A2	88	N				2	1

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR G	SHEET 61

MIL 2075 3-63 WIR-R01

WIRE LIST AA

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2▷	FROM CIRCUIT POINT	FROM STRIP WIRE OR JACKET 2▷	FROM TIN	FROM CUT WIRE OR SHIELD 2▷	FROM TERMINATION SPEC. 1▷ ITEM NO.	FROM NO.	TO CIRCUIT POINT	TO STRIP WIRE OR JACKET 2▷	TO TIN	TO CUT WIRE OR SHIELD 2▷	TO TERMINATION SPEC 1▷ ITEM NO.	TO NO.	W-W FR	W-W TO
AA571R			56TB2-R 3	138	N				56J17-B2	88	N				3	1
AA572	4	600	56TB1-D 7	138	N				56TB1-D 8	138	N				1	1
AA577	4	600	56TB2-D 7	138	N				56TB2-D 8	138	N				2	1
AA578	4	600	56TB2-S 2	138	N				56TB2-R 2	138	N				1	1
AA579	4	600	56TB2-F 7	138	N				56TB2-G 7	138	N				1	1
AA580	4	600	56TB2-F 2	138	N				56TB2-G 2	138	N				1	1
AA581	4	600	56TB2-M 1	138	N				56TB2-M 2	138	N				1	1
AA582	4	600	56TB2-M 2	138	N				56TB2-M 3	138	N				2	2
AA583	4	600	56TB2-M 3	138	N				56TB2-M 4	138	N				1	1
AA584	4	600	56TB2-M 4	138	N				56TB2-M 5	138	N				2	2
AA585	4	600	56TB2-M 5	138	N				56TB2-M 6	138	N				1	1
AA586	4	600	56TB2-M 6	138	N				56TB2-M 7	138	N				2	2
AA587	4	600	56TB1-D 8	138	N				56TB1-N 8	138	N					
AA588	4	600	56TB1-N 4	138	N				56TB1-S 8	138	N				1	1
AA589	4	1000	56TB1-N 4	138	N				56TB2-M 5	138	N				3	3
AA590	4	1000	56TB1-D 7	138	N				56TB2-V 2	138	N				2	2
AA591	4	1000	56TB1-S 3	138	N				56TB2-M 4	138	N				2	3

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER ES-686.

2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

CODE IDENT NO. 99974	SIZE A	1014608
SCALE - NONE	REV LTR G	SHEET 62

MIL 2075 3-63 WIR-R01

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA599	4	600	56TB2-V 6	138	N				56TB2-V 8	138	N				1	1
AA600	4	600	56TB1-S 8	138	N				56TB1-S 7	138	N				2	2
AA601	4	600	56TB1-S 7	138	N				56TB1-S 5	138	N				1	1
AA602	4	1000	56TB1-S 7	138	N				56TB2-D 8	138	N				3	2
AA603	4	600	56TB2-D 7	138	N				56TB2-D 6	138	N				1	1
AA604	4	600	56TB2-D 6	138	N				56TB2-D 5	138	N				2	2
AA605	4	600	56TB2-D 5	138	N				56TB2-D 4	138	N				1	1
AA606	4	600	56TB2-D 4	138	N				56TB2-F 4	138	N				2	1
AA607	4	600	56TB3-F22	138	N				56TB3-F21	138	N				1	1
AA608	4	1800	56TB2-D 4	138	N				56E 27	20	N				3	
AA609	4	600	56TB3-C15	138	N				56TB3-D15	138	N				2	2
AA610	4	900	56J11-N3	138	N				56J12-P4	138	N				1	1
AA611	4	600	56TB1-R 1	138	N				56TB1-S 1	138	N				1	1
AA612	4	600	56TB1-S 1	138	N				56TB1-T 1	138	N				2	1
AA613	4	600	56TB3-B20	138	N				56TB3-B21	138	N				1	1
AA614	4	600	56TB3-B21	138	N				56TB3-F21	138	N				2	2
AA615	4	600	56TB2-R 3	138	N				56TB2-S 3	138	N				1	1
AA616	4	900	56J18-R4	138	N				56J19-M4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE-NONE | REV LTR + | SHEET 61 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	INDIVIDUAL LENGTH ITEM NO.	2	FROM CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	TO
AA617	4		56J11-L4	138	N				56E 66	20	N		12		2	
AA618	4		56J11-L4	138	N				56E 67	20	N		12		3	
AA619	4		56TB3-B20	138	N				56E 68	20	N		12		2	
AA620	4		56TB3-B20	138	N				56E 69	20	N		12		3	
AA621	4	600	56TB2-T 2	138	N				56TB2-T 3	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE-NONE | REV LTR + | SHEET 62 OF 62

MIL 2085 - 4-63 WIR

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA303	4	900	56J18-P3	138	N				56J19-R4	138	N				2	2
AA304R	4	900	56J18-S6	138	N				56J19-N6	138	N				2	1
AA304W	4	900	56J18-T6	138	N				56J19-P6	138	N				2	1
AA305	4	900	56J18-S5	138	N				56J19-P5	138	N				2	2
AA306	4	900	56J18-R5	138	N				56J19-P3	138	N				2	2
AA307	2	1400		250		225	11			300		275	7			
AA307B	4	600	56TB3-R 9	138	N				SHLD AA307	20	N				3	
AA307L			56J18-C2	88	N				56TB3-T 8	138	N				1	1
AA307R			56J18-B2	88	N				56TB3-T 7	138	N				1	1
AA308	2	1400		250		225	11			300		275	7			
AA308B	4	600	56TB3-N 9	138	N				SHLD AA308	20	N				3	
AA308L			56J18-A1	88	N				56TB3-S 8	138	N				1	1
AA308R			56J18-B1	88	N				56TB3-S 7	138	N				1	1
AA309	2	1400		250		225	11			300		275	7			
AA309B	4	600	56TB3-T 9	138	N				SHLD AA309	20	N				3	
AA309L			56J18-A2	88	N				56TB3-T10	138	N				1	1
AA309R			56J18-A3	88	N				56TB3-T11	138	N				1	1
AA310	2	1400		250		225	11			300		275	7			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE REV LTR + SHEET 34 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA310B	4	600	56TB3-S 9	138	N				SHLD AA310	20	N				3	
AA310L			56J18-B3	88	N				56TB3-S10	138	N				1	1
AA310R			56J18-B4	88	N				56TB3-S11	138	N				1	1
AA311R	3	1400	56J18-D3	88	N				56TB3-R 7	138	N				1	1
AA311W	3	1400	56J18-D2	88	N				56TB3-R 8	138	N				1	1
AA312R	3	1400	56J18-C1	88	N				56TB3-R11	138	N				1	1
AA312W	3	1400	56J18-D1	88	N				56TB3-R10	138	N				1	1
AA313R	3	1400	56J18-A5	88	N				56TB3-N 7	138	N				1	1
AA313W	3	1400	56J18-A4	88	N				56TB3-N 8	138	N				1	1
AA314R	3	1400	56J18-C5	88	N				56TB3-N11	138	N				1	1
AA314W	3	1400	56J18-B5	88	N				56TB3-N10	138	N				1	1
AA315	2	1400		250		225	11			300		275	7			
AA315B	4	600	56TB3-M 9	138	N				SHLD AA315	20	N				3	
AA315L			56J18-A9	88	N				56TB3-M 8	138	N				1	1
AA315R			56J18-B9	88	N				56TB3-M 7	138	N				1	1
AA316	2	1400		250		225	11			300		275	7			
AA316B	4	600	56TB3-L 9	138	N				SHLD AA316	20	N				3	
AA316L			56J18-A8	88	N				56TB3-L 7	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE REV LTR + SHEET 35 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA291	4	600	56J17-S1	138	N				56J17-S2	138	N				1	1
AA292	4	1600	56J17-M3	138	N				56J22-206	10	N		6		3	1
AA293	4	1600	56J17-L3	138	N				56J22-243	10	N		6		1	1
AA294	4	600	56J17-T1	138	N				56J17-T2	138	N				1	1
AA295	4	1400	56J17-S3	138	N				56TB3-N 3	138	N				1	2
AA296	4	1400	56J17-S1	138	N				56TB3-N 3	138	N				2	3
AA297	4	1400	56J17-S4	138	N				56TB3-R 3	138	N				1	3
AA298	4	900	56J18-S1	138	N				56J19-T1	138	N				2	2
AA299R	3	900	56J18-F2	88	N				56J19-F4	88	N				1	1
AA299W	3	900	56J18-F1	88	N				56J19-D4	88	N				1	1
AA300R	3	900	56J18-C8	88	N				56J19-B2	88	N				1	1
AA300W	3	900	56J18-B8	88	N				56J19-C1	88	N				1	1
AA301R	3	900	56J18-D9	88	N				56J19-B3	88	N				1	1
AA301W	3	900	56J18-C9	88	N				56J19-A4	88	N				1	1
AA302K	4	900	56J18-G5	138	N				56J19-H6	138	N				1	1
AA302L	4	900	56J18-H5	138	N				56J19-H5	138	N				1	1
AA302R	4	900	56J18-H6	138	N				56J19-G5	138	N				1	1
AA302W	4	900	56J18-G6	138	N				56J19-G6	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE REV LTR + SHEET 33 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	CUT WIRE OR SHIELD STRIP WIRE OR JACKET 2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	CUT WIRE OR SHIELD STRIP WIRE OR JACKET	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA316R			56J18-A7	88	N				56TB3-L 8	138	N				1	1
AA317R	3	1400	56J18-B6	88	N				56TB3-L11	138	N				1	1
AA317W	3	1400	56J18-A6	88	N				56TB3-L10	138	N				1	1
AA318R	3	1400	56J18-F4	88	N				56TB3-K12	138	N				1	1
AA318W	3	1400	56J18-F3	88	N				56TB3-L12	138	N				1	1
AA319	4	1400	56J18-P1	138	N				56TB3-D12	138	N				1	1
AA320	4	1400	56J18-R1	138	N				56TB3-C12	138	N				1	1
AA321	4	1400	56J18-R2	138	N				56TB3-C11	138	N				1	1
AA322	4	1400	56J18-P2	138	N				56TB3-D11	138	N				1	1
AA323	4	600	56J18-S3	138	N				56J18-S4	138	N				1	1
AA324	4	600	56J18-T3	138	N				56J18-T4	138	N				1	1
AA325	4	1400	56J18-S3	138	N				56TB3-K20	138	N				2	1
AA326L	3	1400	56J18-F9	88	N				56TB3-M11	138	N				1	1
AA326R	3	1400	56J18-F8	88	N				56TB3-M12	138	N				1	1
AA326W	3	1400	56J18-D8	88	N				56TB3-M10	138	N				1	1
AA327	4	1400	56J18-T3	138	N				56TB3-K20	138	N				2	2
AA328L	4	1400	56J18-L6	138	N				56TB3-R12	138	N				1	1
AA328R	4	1400	56J18-L5	138	N				56TB3-S12	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE-NONE REV LTR + SHEET 36 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

REVISION STATUS OF SHEETS

SH	REV
50	+
51	+
52	+
53	+
54	+
55	+
56	+
57	+
58	+
59	+
60	+
61	+
62	+

REVISION

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

NASA DRAWING NO.
1014608
SHEET 2 OF 62

TDLN OY8P2

APPLICATION		REVISIONS			
NEXT ASSY	USED ON	SYM	DESCRIPTION	DATE	APPROVAL
1014606-011	1014606-011				

REV	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SHEET	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49
REV STATUS REV	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+			
OF SHEETS SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23			

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN

ACSP PN

DRAWN C. M. Kulp DATE 13 Nov 63
CHECKED C. Wilson 22 Nov 63
APPROVAL D. Bryta 22 Nov 63
APPROVAL [illegible] 22 Nov 63
for Stanley E. De...
NASA APPROVAL W. J. Blair 12-3-63
MIT APPROVAL [illegible] 12/2/63
CONTRACT NAS 9-497

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

WIRE LIST AA
AGE HARNESS & END CONNECTOR ASSY

CODE IDENT NO. | SIZE | 1014608 | REV —
SCALE — | SHEET 1 OF 62

PENNANT NOTE

GENERAL NOTES

1 SEE CONDUCTOR CHART PENNANT NOTE 1

2 SEE CONDUCTOR CHART PENNANT NOTE 2

3 INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

4 Y OR N IN TINNED COLUMN INDICATES YES OR NO.

5 LENGTHS SPECIFIED ARE FOR CONDUCTORS BEFORE ATTACHING TO AN ACCESSORY.

6 CONDUCTORS WITH THE SAME NUMBER ARE TWISTED TOGETHER.

7 LENGTHS SPECIFIED FOR TWISTED CONDUCTORS ARE FOR AFTER TWISTING.

8 TWISTED CONDUCTORS ARE TO BE TWISTED WITH A LAY NO GREATER THAN 15 TIMES NOR LESS THAN 10 TIMES THE DIAMETER OF THE TWISTED CONDUCTOR.

9 CONDUCTOR LENGTHS ARE FOR MANUFACTURING REF. ONLY.

10 NUMBERS IN WIRE-WRAP COLUMN INDICATE THE LEVEL OF TERMINATION. CONDUCTORS LISTED AS ----
LEVEL 1 TO BE WIRE-WRAPPED AT BASE OF CONTACT
LEVEL 2 TO FOLLOW LEVEL 1
LEVEL 3 TO FOLLOW LEVEL 2

11 VENDOR ITEM - SEE SPECIFICATION CONTROL DRAWING

PENNANT NOTE

GENERAL NOTES

12 THE SUFFIX LETTER OF A CONDUCTOR IDENTIFICATION NUMBER INDICATES CONDUCTOR SHIELDING, COLOR, OR MARKING.
A - FROM END SHIELD
B - TO END SHIELD
K - BLACK
L - BLUE
R - RED
W - WHITE

TOLERANCE CHART, UNLESS OTHERWISE SPECIFIED ---

APPLICABLE LENGTH FOR WIRE OR CABLE, STRIP WIRE, STRIP JACKET, CUT WIRE OR CUT SHIELD.	TOLERANCE				
	WIRE OR CABLE	STRIP WIRE	STRIP JACKET	CUT WIRE	CUT SHIELD
UNDER 1 INCH	+.06-.00	+.03-.00	+.06-.06	+.06-.06	+.06-.06
1 INCH TO 6 INCHES	+.50-.00	+.06-.00	+.25-.25	+.25-.25	+.25-.25
6 INCHES TO 6 FEET	+1.00-.00		+.50-.50	+.50-.50	+.50-.50
OVER 6 FEET	+2.00-.00				

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA336R	3	1400	56J18-F7	88	N			56TB3-F12	138	N			1	1
AA336W	3	1400	56J18-F6	88	N			56TB3-F11	138	N			1	1
AA337	4	1400	56J18-R4	138	N			56TB3-B11	138	N			2	1
AA338R	3	1400	56J18-D4	88	N			56TB3-K 7	138	N			1	1
AA338W	3	1400	56J18-D5	88	N			56TB3-K 8	138	N			1	1
AA339	4	600	56J18-S5	138	N			56J18-T5	138	N			1	1
AA340R	4	1400	56J18-N1	138	N			56TB3-D 7	138	N			1	1
AA340W	4	1400	56J18-M1	138	N			56TB3-C 7	138	N			3	1
AA341R	4	1400	56J18-N3	138	N			56TB3-D 8	138	N			1	1
AA341W	4	1400	56J18-M3	138	N			56TB3-C 8	138	N			3	1
AA342R	4	1400	56J18-N4	138	N			56TB3-B 7	138	N			1	1
AA342W	4	1400	56J18-M4	138	N			56TB3-B 8	138	N			3	1
AA343R	4	1400	56J18-N6	138	N			56TB3-D 9	138	N			1	1
AA343W	4	1400	56J18-M6	138	N			56TB3-D10	138	N			2	1
AA344R	4	1400	56J18-H3	138	N			56TB3-F 7	138	N			1	1
AA344W	4	1400	56J18-G3	138	N			56TB3-G 7	138	N			1	1
AA345R	4	1400	56J18-H2	138	N			56TB3-F 8	138	N			1	1
AA345W	4	1400	56J18-G2	138	N			56TB3-G 8	138	N			1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE - NONE REV LTR + SHEET 38 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA346	4	600	56J18-H2	138	N			56E 52	20	N		8	2	
AA347	4	600	56J18-H2	138	N			56E 53	20	N			3	
AA348	4	600	56J18-H3	138	N			56E 50	20	N		8	2	
AA349	4	600	56J18-H3	138	N			56E 51	20	N			3	
AA350	4	600	56J18-M1	138	N			56J18-P3	138	N			2	1
AA351	4	600	56J18-M1	138	N			56J18-M2	138	N			1	1
AA352	4	600	56J18-M2	138	N			56J18-M3	138	N			2	2
AA353	4	600	56J18-M3	138	N			56J18-M4	138	N			1	1
AA354	4	600	56J18-M4	138	N			56J18-M5	138	N			2	2
AA355	4	600	56J18-M5	138	N			56J18-M6	138	N			1	1
AA356	4	900	56J19-P3	138	N			56J20-G4	138	N			1	1
AA357	4	900	56J19-T1	138	N			56J20-M6	138	N			1	1
AA358R	4	1500	56J19-S2	138	N			56TB3-D17	138	N			1	1
AA358W	4	1500	56J19-S3	138	N			56TB3-D16	138	N			1	1
AA359R	4	1500	56J19-P1	138	N			56TB3-D18	138	N			1	1
AA359W	4	1500	56J19-R1	138	N			56TB3-F18	138	N			1	1
AA360R	4	1500	56J19-T2	138	N			56TB3-C17	138	N			1	1
AA360W	4	1500	56J19-T3	138	N			56TB3-C16	138	N			1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE - NONE REV LTR + SHEET 39 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA328W	4	1400	56J18-K6	138	N			56TB3-T12	138	N			1	1
AA329	2	1500		250		225	11		300		275	7		
AA329B	4	600	56TB3-H 9	138	N			SHLD AA329	20	N			3	
AA329L			56J19-C2	88	N			56TB3-H 8	138	N			1	1
AA329R			56J19-B2	88	N			56TB3-H 7	138	N			2	1
AA330R	3	1400	56J18-F2	88	N			56TB3-F10	138	N			2	1
AA330W	3	1400	56J18-F1	88	N			56TB3-G10	138	N			2	1
AA331	2	1500		250		225	11		300		275	7		
AA331B	4	600	56TB3-K 9	138	N			SHLD AA331	20	N			3	
AA331L			56J19-B4	88	N			56TB3-H10	138	N			1	1
AA331R			56J19-B3	88	N			56TB3-H11	138	N			2	1
AA332R	4	1400	56J18-H1	138	N			56TB3-K11	138	N			1	1
AA332W	4	1400	56J18-G1	138	N			56TB3-K10	138	N			1	1
AA333	4	1400	56J18-R3	138	N			56TB3-K20	138	N			1	3
AA334R	3	1400	56J18-D6	88	N			56TB3-G13	138	N			1	1
AA334W	3	1400	56J18-C6	88	N			56TB3-G14	138	N			1	1
AA335R	3	1400	56J18-D7	88	N			56TB3-G12	138	N			1	1
AA335W	3	1400	56J18-C7	88	N			56TB3-G11	138	N			1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE - NONE REV LTR + SHEET 37 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH	FROM CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC. ITEM NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET	TIN	CUT WIRE OR SHIELD	TERMINATION SPEC ITEM NO.	W-W FR	W-W TO
AA361R	4	1500	56J19-P2	138	N			56TB3-G17	138	N			1	1
AA361W	4	1500	56J19-R2	138	N			56TB3-F17	138	N			1	1
AA362	4	600	56J19-R5	138	N			56J19-S4	138	N			1	1
AA363	4	600	56J19-R6	138	N			56J19-T4	138	N			1	1
AA364	4	1500	56J19-S4	138	N			56TB3-K22	138	N			2	1
AA365	4	1500	56J19-T4	138	N			56TB3-L22	138	N			2	1
AA366	4	600	56J19-S5	138	N			56J19-S6	138	N			1	1
AA367	4	1500	56J19-T6	138	N			56TB3-L22	138	N			2	2
AA368	4	600	56J19-T5	138	N			56J19-T6	138	N			1	1
AA369	4	1500	56J19-S5	138	N			56TB3-K22	138	N			2	2
AA370R	3	1500	56J19-B1	88	N			56TB3-T17	138	N			1	1
AA370W	3	1500	56J19-A1	88	N			56TB3-T16	138	N			1	1
AA371R	3	1500	56J19-A2	88	N			56TB3-S16	138	N			1	1
AA371W	3	1500	56J19-A3	88	N			56TB3-S17	138	N			1	1
AA372R	3	1500	56J19-A8	88	N			56TB3-R16	138	N			1	1
AA372W	3	1500	56J19-A9	88	N			56TB3-R17	138	N			1	1
AA373R	3	1500	56J19-C9	88	N			56TB3-N17	138	N			1	1
AA373W	3	1500	56J19-B9	88	N			56TB3-N16	138	N			1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A 1014608

SCALE - NONE REV LTR + SHEET 40 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	▷2	TIN	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	▷2	TIN	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA 1	4	1600	56J11-S4	138	N			56J15-S6	138	N			3	2
AA 2	4	2800	56J11-S1	138	N			56J20-L1	138	N			2	3
AA 3	4	2800	56J11-S2	138	N			56J20-L2	138	N			2	3
AA 4	4	2800	56J11-S5	138	N			56J20-K2	138	N			2	1
AA 5R	4	900	56J11-N4	138	N			56J12-P3	138	N			1	1
AA 5W	4	900	56J11-N5	138	N			56J12-N3	138	N			1	1
AA 6	4	900	56J11-S4	138	N			56J12-S5	138	N			2	1
AA 7	4	900	56J11-L4	138	N			56J12-K3	138	N			1	1
AA 9R	4	900	56J11-L2	138	N			56J12-K2	138	N			1	1
AA 9W	4	900	56J11-L1	138	N			56J12-H2	138	N			1	1
AA 10K	4	900	56J11-B5	138	N			56J12-B2	138	N			1	1
AA 10L	4	900	56J11-A6	138	N			56J12-B1	138	N			1	1
AA 10R	4	900	56J11-A5	138	N			56J12-A2	138	N			1	1
AA 10W	4	900	56J11-B6	138	N			56J12-A1	138	N			1	1
AA 11R	3	2000	56J11-B3	138	N			56J17-B1	88	N			1	1
AA 11W	3	2000	56J11-C3	138	N			56J17-A1	88	N			1	1
AA 12L	4	2000	56J11-N2	138	N			56J17-R2	138	N			1	1
AA 12R	4	2000	56J11-N1	138	N			56J17-P2	138	N			1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR + SHEET 6 OF 62

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	▷2	TIN	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	▷2	TIN	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA 12W	4	2000	56J11-P1	138	N			56J17-N2	138	N			1	1
AA 13	4	2000	56J11-S3	138	N			56J17-R1	138	N			1	1
AA 14	4	1100	56J11-N6	138	N			56J13-P6	138	N			1	1
AA 15R	4	1700	56J11-B1	138	N			56TB2-G 2	138	N			1	2
AA 15W	4	1700	56J11-A1	138	N			56TB2-H 2	138	N			1	1
AA 16R	4	1400	56J11-C1	138	N			56TB1-C 5	138	N			1	1
AA 16W	4	1400	56J11-B1	138	N			56TB1-B 5	138	N			2	1
AA 17	4	600	56J11-R4	138	N			56J11-R5	138	N			2	2
AA 18	4	600	56J11-P4	138	N			56J11-R4	138	N			1	1
AA 19R	4	1700	56J11-B2	138	N			56TB2-G 7	138	N			1	2
AA 19W	4	1700	56J11-A2	138	N			56TB2-H 7	138	N			1	1
AA 20R	4	1400	56J11-C2	138	N			56TB1-A 5	138	N			1	1
AA 20W	4	1400	56J11-B2	138	N			56TB1-A 6	138	N			2	1
AA 21R	4	1700	56J11-B3	138	N			56TB2-R 2	138	N			2	2
AA 21W	4	1700	56J11-A3	138	N			56TB2-N 2	138	N			1	1
AA 22	4	600	56J11-P4	138	N			56J11-P5	138	N			2	1
AA 23K	4	1400	56J11-G1	138	N			56TB1-C 3	138	N			1	1
AA 23L	4	1400	56J11-H1	138	N			56TB1-B 4	138	N			1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR + SHEET 7 OF 62

LIST OF MATERIALS

PENNANT NOTE	ITEM	QTY	PART NO	DESCRIPTION
	1	1	1014608- 1	WIRE PER 1010708-1 SOLID 30AWG (THREE COND. TWISTED AND SHIELDED) 13 FT. 3.0 IN. TOTAL LENGTH
	2	1	1014608- 2	WIRE PER 1010708-2 SOLID 30AWG (TWO COND. TWISTED AND SHIELDED) 13 FT. 9.0 IN. TOTAL LENGTH
	3	1	1014608- 3	WIRE PER 1010708-4 SOLID 30AWG (SINGLE COND.) 186 FT. 2.0 IN. TOTAL LENGTH
	4	1	1014608- 4	WIRE PER 1010708-5 SOLID 24AWG (SINGLE COND.) 615 FT. 0.0 IN. TOTAL LENGTH
	5	1	1014608- 5	WIRE PER 1010708-3 SOLID 24AWG (TWO COND. TWISTED AND SHIELDED) 83 FT. 3.0 IN. TOTAL LENGTH
11	6	153	1010464- 2	CONTACT, SOCKET
11	7	36	1010402- 1	SLEEVE, SOLDER
11	8	63	1010402- 2	SLEEVE, SOLDER
11	9	51	1010490-110	INSULATION-SLEEVING, ELEC.
11	10	9	1010490-112	INSULATION-SLEEVING, ELEC.
11	11	11	1010490-114	INSULATION-SLEEVING, ELEC.
	12	4	MS-25036-44	TERMINAL LUG

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR + SHEET 5 OF 62

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	▷2	TIN	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	▷2	TIN	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA 23R	4	1400	56J11-F1	138	N			56TB1-C 4	138	N			1	1
AA 23W	4	1400	56J11-G2	138	N			56TB1-B 3	138	N			2	1
AA 24	4	600	56J11-G2	138	N			56J11-P6	138	N			1	1
AA 25	4	600	56J11-S4	138	N			56J11-S5	138	N			1	1
AA 26	4	600	56J11-P6	138	N			56J11-R6	138	N			2	2
AA 27	4	1400	56J11-N6	138	N			56TB1-D 5	138	N			2	1
AA 28K	4	1400	56J11-L2	138	N			56TB1-C 2	138	N			2	2
AA 28L	4	1400	56J11-M2	138	N			56TB1-C 2	138	N			1	1
AA 28R	4	1400	56J11-M1	138	N			56TB1-D 2	138	N			1	1
AA 28W	4	1400	56J11-L1	138	N			56TB1-D 2	138	N			2	2
AA 29K	4	1400	56J11-B5	138	N			56TB1-B 7	138	N			2	2
AA 29L	4	1400	56J11-A6	138	N			56TB1-A 8	138	N			2	1
AA 29R	4	1400	56J11-A5	138	N			56TB1-A 7	138	N			2	1
AA 29W	4	1400	56J11-B6	138	N			56TB1-B 8	138	N			2	2
AA 30R	4	1400	56J11-D6	138	N			56TB1-D 3	138	N			1	1
AA 30W	4	1400	56J11-D5	138	N			56TB1-D 4	138	N			1	1
AA 31	4	600	56J11-R5	138	N			56J11-R6	138	N			1	1
AA 32R	4	1400	56J11-F6	138	N			56TB1-A 4	138	N			1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR + SHEET 8 OF 62

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	TO TERMINATION SPEC 1 ITEM NO.	TO NO.	W-W FR	W-W TO
AA385	3	1500	56J19-C4	88	N			56TB3-M18	138	N			1	1
AA386R	3	1500	56J19-F8	88	N			56TB3-R14	138	N			1	1
AA386W	3	1500	56J19-F9	88	N			56TB3-R13	138	N			1	1
AA387	4	1500	56J19-M6	138	N			56TB3-G18	138	N			1	1
AA388	4	1500	56J19-M5	138	N			56TB3-K18	138	N			1	1
AA389	4	1500	56J19-N5	138	N			56TB3-L18	138	N			1	1
AA390	4	1500	56J19-R4	138	N			56TB3-K21	138	N			3	2
AA391R	4	1500	56J19-L1	138	N			56TB3-C 9	138	N			1	1
AA391W	4	1500	56J19-K1	138	N			56TB3-C10	138	N			3	1
AA392R	4	1500	56J19-L3	138	N			56TB3-B 9	138	N			1	1
AA392W	4	1500	56J19-K3	138	N			56TB3-B10	138	N			3	1
AA393	4	1500	56J19-P5	138	N			56TB3-K21	138	N			3	3
AA394	4	600	56J19-P4	138	N			56J19-P5	138	N			1	1
AA396R	3	1500	56J19-D6	88	N			56TB3-N13	138	N			1	1
AA396W	3	1500	56J19-D5	88	N			56TB3-N14	138	N			1	1
AA397	4	600	56J19-K1	138	N			56J19-R4	138	N			2	1
AA398	4	600	56J19-K1	138	N			56J19-K2	138	N			1	1
AA399	4	600	56J19-K2	138	N			56J19-K3	138	N			2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE - NONE | REV LTR + | SHEET 42 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	TO TERMINATION SPEC 1 ITEM NO.	TO NO.	W-W FR	W-W TO
AA400	4	600	56J19-K3	138	N			56J19-K4	138	N			1	1
AA401	4	600	56J19-K4	138	N			56J19-K5	138	N			2	2
AA402	4	600	56J19-K5	138	N			56J19-K6	138	N			1	1
AA403	4	1000	56J20-L5	138	N			56J21- 37	10	N	6		1	1
AA404	4	1700	56J20-L5	138	N			56TB3-M22	138	N			2	2
AA405	4	1700	56J20-M5	138	N			56TB3-M21	138	N			1	2
AA406	4	1700	56J20-N6	138	N			56TB3-H20	138	N			2	1
AA407	4	1700	56J20-N4	138	N			56TB3-L21	138	N			1	3
AA408	4	1700	56J20-N3	138	N			56TB3-K22	138	N			1	3
AA409R	4	2500	56J20-F6	138	N			56TB2-H 4	138	N			1	2
AA409W	4	2500	56J20-F5	138	N			56TB2-G 4	138	N			1	2
AA410R	4	1700	56J20-F6	138	N			56TB3-R21	138	N			2	1
AA410W	4	1700	56J20-F5	138	N			56TB3-R22	138	N			2	1
AA411	4	600	56J20-G5	138	N			56J20-H5	138	N			1	1
AA412R	4	1700	56J20-H6	138	N			56TB3-C 3	138	N			2	1
AA412W	4	1700	56J20-H5	138	N			56TB3-D 2	138	N			2	2
AA413	4	600	56J20-G6	138	N			56J20-H6	138	N			1	1
AA414	4	1700	56J20-A4	138	N			56TB3-K19	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE - NONE | REV LTR + | SHEET 43 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	TO TERMINATION SPEC 1 ITEM NO.	TO NO.	W-W FR	W-W TO
AA374R	3	1500	56J19-D2	88	N			56TE[illegible]-M17	138	N			1	1
AA374W	3	1500	56J19-D1	88	N			56TB3-M16	138	N			1	1
AA375R	3	1500	56J19-B5	88	N			56TB3-H17	138	N			1	1
AA375W	3	1500	56J19-A5	88	N			56TB3-H16	138	N			1	1
AA376	3	1500	56J19-C5	88	N			56TB3-S18	138	N			1	1
AA377R	3	1500	56J19-B8	88	N			56TB3-K17	138	N			1	1
AA377W	3	1500	56J19-B7	88	N			56TB3-K16	138	N			1	1
AA378	3	1500	56J19-A7	88	N			56TB3-R18	138	N			1	1
AA379R	3	1500	56J19-C8	88	N			56TB3-L16	138	N			1	1
AA379W	3	1500	56J19-D8	88	N			56TB3-L17	138	N			1	1
AA380	3	1500	56J19-C7	88	N			56TB3-T18	138	N			1	1
AA381R	3	1500	56J19-F6	88	N			56TB3-G16	138	N			1	1
AA381W	3	1500	56J19-F5	88	N			56TB3-F16	138	N			1	1
AA382R	4	1500	56J19-G1	138	N			56TB3-T13	138	N			1	1
AA382W	4	1500	56J19-H1	138	N			56TB3-T14	138	N			1	1
AA383R	4	1500	56J19-G2	138	N			56TB3-S14	138	N			1	1
AA383W	4	1500	56J19-G3	138	N			56TB3-S13	138	N			1	1
AA384	3	1500	56J19-C3	88	N			56TB3-N18	138	N			1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE - NONE | REV LTR + | SHEET 41 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	FROM TERMINATION SPEC. 1 ITEM NO.	FROM NO.	TO CIRCUIT POINT	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET 2	TIN	TO TERMINATION SPEC 1 ITEM NO.	TO NO.	W-W FR	W-W TO
AA415	4	1700	56J20-B4	138	N			56TB3-H19	138	N			1	1
AA416	4	1700	56J20-A1	138	N			56TB3-G19	138	N			1	1
AA417	4	170[illegible]	[illegible]J20-A2	138	N			56TB3-F19	138	N			1	1
AA418	4	1700	56J20-B1	138	N			56TB3-D19	138	N			1	1
AA419R	4	1700	56J20-B3	138	N			56TB3-N21	138	N			1	1
AA419W	4	1700	56J20-A3	138	N			56TB3-N20	138	N			1	1
AA420	4	1700	56J20-K5	138	N			56TB3-G21	138	N			1	1
AA421	4	1700	56J20-K6	138	N			56TB3-G22	138	N			1	1
AA422	4	1700	56J20-H4	138	N			56TB3-R20	138	N			2	1
AA423	4	1000	56J20-H4	138	N			56J21-234	10	N	6		3	1
AA424	4	1700	56J20-K4	138	N			56TB3-N19	138	N			1	1
AA425	4	1700	56J20-C6	138	N			56TB3-L19	138	N			1	1
AA426	4	1700	56J20-D6	138	N			56TB3-M19	138	N			1	1
AA427R	4	1700	56J20-B5	138	N			56TB3-T19	138	N			1	1
AA427W	4	1700	56J20-C5	138	N			56TB3-S19	138	N			1	1
AA428	4	1700	56J20-N1	138	N			56TB3-C20	138	N			2	1
AA429	4	600	56J20-N1	138	N			56J20-P1	138	N			1	1
AA430	4	600	56J20-P1	138	N			56J20-R1	138	N			2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE - NONE | REV LTR + | SHEET 44 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA 48R	4	1400	56J12-K2	138	N				56J15-R4	138	N				2	1
AA 48W	4	1400	56J12-H2	138	N				56J15-S4	138	N				2	1
AA 49R	4	1400	56J12-P3	138	N				56J15-P5	138	N				2	2
AA 49W	4	1400	56J12-N3	138	N				56J15-P6	138	N				2	2
AA 50R	4	1400	56J12-P5	138	N				56J15-N5	138	N				1	1
AA 50W	4	1400	56J12-N5	138	N				56J15-N6	138	N				2	1
AA 51	4	2600	56J12-S6	138	N				56J20-N5	138	N				1	2
AA 52R	4	2600	56J12-K4	138	N				56J20-G6	138	N				1	2
AA 52W	4	2600	56J12-H4	138	N				56J20-G5	138	N				2	2
AA 53	4	2600	56J12-G4	138	N				56J20-L6	138	N				1	1
AA 54	4	2600	56J12-S1	138	N				56J20-M1	138	N				2	3
AA 55	4	2600	56J12-S2	138	N				56J20-M2	138	N				2	3
AA 56	4	1600	56J12-H5	138	N				56J16-M2	138	N				1	1
AA 57	4	1600	56J12-H6	138	N				56J16-M3	138	N				1	1
AA 58	4	1600	56J12-G6	138	N				56J16-N3	138	N				1	1
AA 59	4	1600	56J12-G5	138	N				56J16-R2	138	N				2	1
AA 60L	4	1100	56J12-P1	138	N				56TB1-H 3	138	N				2	1
AA 60R	4	1100	56J12-R1	138	N				56TB1-H 2	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A 1014608
SCALE-NONE REV LTR + SHEET 10 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA 60W	4	1100	56J12-P2	138	N				56TB1-G 2	138	N				1	1
AA 61	4	600	56J12-N1	138	N				56J12-P1	138	N				1	1
AA 62	4	600	56J12-H4	138	N				56J12-N2	138	N				1	1
AA 63R	4	1100	56J12-N6	138	N				56TB1-G 7	138	N				2	1
AA 63W	4	1100	56J12-P6	138	N				56TB1-H 7	138	N				2	1
AA 64R	4	1100	56J12-P5	138	N				56TB1-G 4	138	N				2	1
AA 64W	4	1100	56J12-N4	138	N				56TB1-H 4	138	N				2	1
AA 65	4	600	56J12-N4	138	N				56J12-N5	138	N				1	1
AA 66	4	2400	56J12-R6	138	N				56TB3-L20	138	N				1	1
AA 67	4	600	56J12-F1	138	N				56E 31	20	N		7		2	
AA 68	4	600	56J12-F1	138	N				56J12-F2	138	N				1	1
AA 69	4	600	56J12-F2	138	N				56E 29	20	N		8		2	
AA 70	5	2800		300		275	8			50		25	9			
AA 70A	4	600	SHLD AA 70	20	N				56J12-H1	138	N					2
AA 70L			56J12-K1	138	N				56J21- 70	10	N		6		1	1
AA 70R			56J12-H1	138	N				56J21- 71	10	N		6		1	1
AA 71	4	600	56J12-G5	138	N				56J12-R5	138	N				1	1
AA 72	4	900	56J12-K3	138	N				56J13-C6	138	N				2	2

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A 1014608
SCALE-NONE REV LTR + SHEET 11 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA 32W	4	1400	56J11-G6	138	N				56TB1-[illegible] 3	138	N				1	1
AA 33	4	600	56J11-R6	138	N				56J11-S6	138	N				3	1
AA 34R	4	1400	56J11-H6	138	N				56TB1-A 2	138	N				1	1
AA 34W	4	1400	56J11-H5	138	N				56TB1-B 2	138	N				1	1
AA 35	4	1400	56J11-L3	138	N				56TB1-D 6	138	N				1	1
AA 36	4	600	56J11-M5	138	N				56E 28	20	N		8		2	
AA 37	4	600	56J11-M5	138	N				56J11-P3	138	N				1	1
AA 38	4	600	56J11-P2	138	N				56J11-R3	138	N				1	1
AA 39	4	600	56J11-P3	138	N				56J11-R3	138	N				2	2
AA 40	4	600	56J11-S1	138	N				56J11-S2	138	N				1	1
AA 41	4	600	56J11-R1	138	N				56J11-R2	138	N				1	1
AA 42R	4	1400	56J11-G3	138	N				56TB1-B 6	138	N				1	1
AA 42W	4	1400	56J11-F3	138	N				56TB1-C 6	138	N				1	1
AA 43	4	1700	56J11-R3	138	N				56TB2-M 1	138	N				3	2
AA 44	4	1700	56J11-R1	138	N				56TB2-M 2	138	N				2	3
AA 45	4	1700	56J11-R2	138	N				56TB2-M 3	138	N				2	3
AA 46	4	1400	56J11-P6	138	N				56TB1-S 3	138	N				3	3
AA 47	4	1100	56J12-B6	138	N				56J14-H6	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A 1014608
SCALE-NONE REV LTR + SHEET 9 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	TIN	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA 73L	4	1100	56J12-K6	138	N				56J14-R2	138	N				1	2
AA 73R	4	1100	56J12-L6	138	N				56J14-S2	138	N				1	2
AA 73W	4	1100	56J12-M6	138	N				56J14-S3	138	N				1	1
AA 74	4	2700	56J12-G3	138	N				56J22-244	10	N		6		1	1
AA 75	4	900	56J12-A5	138	N				56J13-D2	138	N				1	1
AA 76	4	900	56J12-A6	138	N				56J13-F2	138	N				1	1
AA 77	4	600	56J12-B5	138	N				56E 34	20	N		7		1	
AA 78	4	1100	56J12-M3	138	N				56TB1-H 5	138	N				1	1
AA 79	4	1100	56J12-M4	138	N				56TB1-G 5	138	N				1	1
AA 80	4	1100	56J12-M1	138	N				56TB1-H 6	138	N				2	1
AA 81	4	2700	56J12-M1	138	N				56J21- 36	10	N		6		1	1
AA 82	4	2400	56J12-L1	138	N				56TB3-M22	138	N				1	1
AA 83	4	1100	56J12-L2	138	N				56TB1-H 8	138	N				1	1
AA 84R	4	2700	56J12-F6	138	N				56J21- 29	10	N		6		1	1
AA 84W	4	2700	56J12-D6	138	N				56J21- 28	10	N		6		1	1
AA 85R	4	2700	56J12-F5	138	N				56J21-159	10	N		6		1	1
AA 85W	4	2700	56J12-D5	138	N				56J21-158	10	N		6		1	1
AA 86R	4	2700	56J12-F4	138	N				56J21- 61	10	N		6		1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A 1014608
SCALE-NONE REV LTR + SHEET 12 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA449	4	1700	56J20-S5	138	N				56TB3-H21	138	N				2	2
AA450	4	1700	56J20-P6	138	N				56TB3-H22	138	N				2	1
AA451	4	600	56J20-P6	138	N				56J20-R6	138	N				1	1
AA452	4	600	56J20-R6	138	N				56J20-S6	138	N				2	1
AA453	4	1700	56J20-S6	138	N				56TB3-H22	138	N				2	2
AA454	4	1700	56J20-K1	138	N				56TB3-T20	138	N				2	2
AA455	4	1700	56J20-K1	138	N				56TB3-T21	138	N				3	3
AA456	4	1700	56J20-K2	138	N				56TB3-S21	138	N				3	2
AA457	4	1700	56J20-M6	138	N				56TB3-M20	138	N				2	3
AA458	4	600	56J20-G1	138	N				56J20-H1	138	N				1	1
AA459	4	600	56J20-H1	138	N				56J20-H2	138	N				2	1
AA460	4	2500	56J20-G1	138	N				56TB2-M 7	138	N				2	3
AA461	4	2500	56J20-H2	138	N				56TB2-M 1	138	N				2	3
AA462	4	1700	56J20-G4	138	N				56TB3-F22	138	N				2	2
AA463R	4	1700	56J20-D4	138	N				56TB3-S20	138	N				1	1
AA463W	4	1700	56J20-D5	138	N				56TB3-R19	138	N				1	1
AA464R	4	1700	56J20-A6	138	N				56TB3-L13	138	N				1	1
AA464W	4	1700	56J20-B6	138	N				56TB3-K13	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608
SCALE-NONE	REV LTR +	SHEET 46 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA465R	4	1700	56J20-H3	138	N				56TB3-L14	138	N				1	1
AA465W	4	1700	56J20-G3	138	N				56TB3-K14	138	N				1	1
AA466	4	600	56TB3-H12	138	N				56TB3-R 3	138	N				1	1
AA467	5	2100		50		25	8			300		275	9			
AA467A	4	600	SHLD AA467	20	N				56E 46	20	N		8			
AA467L			56J21-126	10	N		6		56J15-M5	138	N				1	1
AA467R			56J21-125	10	N		6		56E 35	20	N				1	
AA468	5	2100		50		25	8			300		275	9			
AA468A	4	600	SHLD AA468	20	N				56E 46	20	N					
AA468L			56J21- 93	10	N		6		56J15-M6	138	N				1	1
AA468R			56J21- 92	10	N		6		56E 35	20	N				1	
AA469	5	2100		50		25	8			300		275	9			
AA469A	4	600	SHLD AA469	20	N				56E 46	20	N					
AA469L			56J21-195	10	N		6		56J15-L6	138	N				1	1
AA469R			56J21-194	10	N		6		56E 36	20	N				1	
AA470	5	2100		50		25	8			300		275	9			
AA470A	4	600	SHLD AA470	20	N				56E 46	20	N					
AA470L			56J21-161	10	N		6		56J15-K6	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608
SCALE-NONE	REV LTR +	SHEET 47 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA431	4	600	56J20-R1	138	N				56J20-S1	138	N				1	1
AA432	4	1700	56J20-S1	138	N				56TB3-C21	138	N				2	1
AA433	4	1700	56J20-N2	138	N				56TB3-D20	138	N				2	1
AA434	4	600	56J20-N2	138	N				56J20-P2	138	N				1	1
AA435	4	600	56J20-P2	138	N				56J20-R2	138	N				2	2
AA436	4	600	56J20-R2	138	N				56J20-S2	138	N				1	1
AA437	4	1700	56J20-S2	138	N				56TB3-D21	138	N				2	1
AA438	4	600	56J20-L1	138	N				56J20-M1	138	N				2	1
AA439	4	600	56J20-L1	138	N				56J20-L2	138	N				1	1
AA440	4	600	56J20-L2	138	N				56J20-M2	138	N				2	1
AA441	4	1700	56J20-R3	138	N				56TB3-D22	138	N				2	1
AA442	4	600	56J20-R3	138	N				56J20-S3	138	N				1	1
AA443	4	1700	56J20-R4	138	N				56TB3-C22	138	N				2	1
AA444	4	600	56J20-R4	138	N				56J20-S4	138	N				1	1
AA445	4	1700	56J20-P3	138	N				56TB3-N22	138	N				2	1
AA446	4	1700	56J20-P5	138	N				56TB3-H21	138	N				2	1
AA447	4	600	56J20-P5	138	N				56J20-R5	138	N				1	1
AA448	4	600	56J20-R5	138	N				56J20-S5	138	N				2	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608
SCALE-NONE	REV LTR +	SHEET 45 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	STRIP WIRE OR JACKET ▷2	T I N	CUT WIRE OR SHIELD ▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA470R			56J21-160	10	N		6		56E 36	20	N				1	
AA471	5	2100		50		25	8			300		275	9			
AA471A	4	600	SHLD AA471	20	N				56E 46	20	N					
AA471L			56J21- 95	10	N		6		56J15-K4	138	N				1	1
AA471R			56J21- 94	10	N		6		56E 37	20	N				1	
AA472	5	2100		50		25	8			300		275	9			
AA472A	4	600	SHLD AA472	20	N				56E 46	20	N					
AA472L			56J21-128	10	N		6		56J15-K5	138	N				1	1
AA472R			56J21-127	10	N		6		56E 37	20	N				1	
AA473	4	600	56J21- 23	10	N		6		56E 45	20	N		8		1	
AA474	4	600	56J21- 22	10	N		6		56E 47	20	N		8		1	
AA475	5	2100		50		25	8			250		225	9			
AA475A	4	600	SHLD AA475	20	N				56E 47	20	N					
AA475L			56J21- 24	10	N		6		56J15-B4	88	N				1	1
AA475R			56J21- 25	10	N		6		56E 38	20	N				1	
AA476	5	2100		50		25	8			250		225	9			
AA476A	4	600	SHLD AA476	20	N				56E 47	20	N					
AA476L			56J21- 27	10	N		6		56E 38	20	N				1	

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS	SIZE A	1014608
SCALE-NONE	REV LTR +	SHEET 48 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA100	4	1100	56J12-R4	138	N				56TB1-N 8	138	N				3	2
AA101	4	900	56J13-N5	138	N				56J14-H3	138	N				1	1
AA102	4	900	56J13-N6	138	N				56J14-K3	138	N				1	1
AA103	4	900	56J13-H6	138	N				56J14-G1	138	N				1	1
AA104	4	900	56J13-A6	138	N				56J14-A6	138	N				1	1
AA105R	4	900	56J13-L6	138	N				56J14-K1	138	N				1	1
AA105W	4	900	56J13-K6	138	N				56J14-H1	138	N				1	1
AA106	4	900	56J13-C6	138	N				56J14-H5	138	N				1	1
AA107	4	900	56J13-S6	138	N				56J14-S6	138	N				1	1
AA108	4	900	56J13-R6	138	N				56J14-R6	138	N				1	1
AA109R	4	900	56J13-R2	138	N				56J14-R1	138	N				1	1
AA109W	4	900	56J13-S2	138	N				56J14-S1	138	N				1	1
AA110R	4	900	56J13-R3	138	N				56J14-R5	138	N				2	1
AA110W	4	900	56J13-S3	138	N				56J14-S5	138	N				2	1
AA111R	4	900	56J13-R4	138	N				56J14-R4	138	N				1	1
AA111W	4	900	56J13-S4	138	N				56J14-S4	138	N				1	1
AA112R	4	900	56J13-R1	138	N				56J14-R2	138	N				1	1
AA112W	4	900	56J13-S1	138	N				56J14-S2	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE - NONE | REV LTR + | SHEET 14 OF 62

MIL 2085 - 4-63 WIR

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA113	4	900	56J13-P6	138	N				56J14-P6	138	N				2	1
AA114	4	1100	56J13-D1	138	N				56J15-L4	138	N				1	1
AA115	4	1100	56J13-F1	138	N				56J15-M4	138	N				1	1
AA116	4	1100	56J13-D3	138	N				56J15-L3	138	N				1	1
AA117	4	1100	56J13-F3	138	N				56J15-M3	138	N				1	1
AA118R	4	1400	56J13-B1	138	N				56TB1-M 6	138	N				1	1
AA118W	4	1400	56J13-A1	138	N				56TB1-M 7	138	N				1	1
AA119	1	1400		300		275	10			300		275	7			
AA119B	4	600	56TB1-N 5	138	N				SHLD AA119	20	N				1	
AA119L			56J13-L1	138	N				56TB1-L 5	138	N				1	1
AA119R			56J13-H1	138	N				56TB1-M 5	138	N				1	1
AA119W			56J13-K1	138	N				56TB1-L 6	138	N				1	1
AA120	4	1400	56J13-D2	138	N				56TB1-L 2	138	N				2	1
AA121R	4	1400	56J13-B3	138	N				56TB1-N 2	138	N				1	1
AA121W	4	1400	56J13-A3	138	N				56TB1-M 3	138	N				1	1
AA122	1	1400		300		275	10			300		275	7			
AA122B	4	600	56TB1-N 4	138	N				SHLD AA122	20	N				2	
AA122L			56J13-N3	138	N				56TB1-M 4	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE - NONE | REV LTR + | SHEET 15 OF 62

MIL 2085 - 4-63 WIR

GJG

WIRE LIST AA

1014608

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA 86W	4	2700	56J12-D4	138	N				56J21- 60	10	N		6		1	1
AA 87	4	600	56J12-S1	138	N				56J12-S3	138	N				1	1
AA 88	4	600	56J12-S2	138	N				56J12-S4	138	N				1	1
AA 89	4	600	56J12-R2	138	N				56J12-R3	138	N				1	1
AA 90	4	600	56J12-R3	138	N				56J12-R4	138	N				2	1
AA 91	4	600	56J12-R4	138	N				56E 31	20	N				2	
AA 92	5	1800		300		275	9			300		275	8			
AA 92B	4		56E 27	20	N		7		SHLD AA 92	20	N					
AA 92L			56J12-P4	138	N				56J17-R3	138	N				2	1
AA 92R			56J12-P4	138	N				56J17-R3	138	N				3	3
AA 94R	4	1800	56J12-N6	138	N				56J17-N3	138	N				1	1
AA 94W	4	1800	56J12-P6	138	N				56J17-P3	138	N				1	1
AA 95R	4	900	56J12-L5	138	N				56J13-R3	138	N				1	1
AA 95W	4	900	56J12-M5	138	N				56J13-S3	138	N				1	1
AA 96	4	900	56J12-R5	138	N				56J13-R6	138	N				2	2
AA 97	4	1800	56J12-F3	138	N				56J17-M3	138	N				1	1
AA 98	4	1100	56J12-R5	138	N				56TB1-S 6	138	N				3	2
AA 99	4	1100	56J12-R2	138	N				56TB1-N 5	138	N				2	2

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE - NONE | REV LTR + | SHEET 13 OF 62

MIL 2085 - 4-63 WIR

GJG

WIRE LIST AA

+ 1014608

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CUT WIRE OR SHIELD STRIP WIRE OR JACKET CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA122R			56J13-L3	138	N				56TB1-L 4	138	N				1	1
AA122W			56J13-M3	138	N				56TB1-L 3	138	N				1	1
AA123	4	1400	56J13-F2	138	N				56TB1-M 2	138	N				2	1
AA124	1	1400		300		275	10			300		275	7			
AA124B	4	600	56TB1-N 8	138	N				SHLD AA124	20	N				1	
AA124L			56J13-G6	138	N				56TB1-L 7	138	N				1	1
AA124R			56J13-D6	138	N				56TB1-M 8	138	N				1	1
AA124W			56J13-F6	138	N				56TB1-L 8	138	N				1	1
AA125	4	600	56J13-R6	138	N				56E 34	20	N				3	
AA126R	4	1600	56J14-A2	138	N				56TB1-T 4	138	N				1	1
AA126W	4	1600	56J14-A1	138	N				56TB1-T 5	138	N				1	1
AA127	1	1600		300		275	10			300		275	7			
AA127B	4	600	56TB1-S 3	138	N				SHLD AA127	20	N				1	
AA127L			56J14-P2	138	N				56TB1-U 3	138	N				1	1
AA127R			56J14-P1	138	N				56TB1-U 4	138	N				1	1
AA127W			56J14-P3	138	N				56TB1-T 3	138	N				1	1
AA128	4	1600	56J14-H6	138	N				56TB1-T 7	138	N				2	1
AA129R	4	2300	56J14-D1	138	N				56J21- 67	10	N		6		1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER

▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SIZE A

1014608

SCALE - NONE | REV LTR + | SHEET 16 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA481B	4	600	56E 39	20	N				SHLD AA481	20	N					
AA481L			56J21-237	10	N		6		56J15-B5	88	N				1	1
AA481R			56J21-238	10	N		6		56E 39	20	N				1	
AA482	5	2100		50		25	9			250		225	8			
AA482B	4	600	56E 39	20	N				SHLD AA482	20	N					
AA482L			56J21-200	10	N		6		56E 39	20	N				1	
AA482R			56J21-199	10	N		6		56J15-C5	88	N				1	1
AA483	5	2100		50		25	9			250		225	8			
AA483B	4	600	56E 41	20	N				SHLD AA483	20	N					
AA483L			56J21-165	10	N		6		56J15-B7	88	N				1	1
AA483R			56J21-166	10	N		6		56E 41	20	N				1	
AA484	5	2100		50		25	9			250		225	8			
AA484B	4	600	56E 41	20	N				SHLD AA484	20	N					
AA484L			56J21- 98	10	N		6		56E 41	20	N				1	
AA484R			56J21- 97	10	N		6		56J15-C7	88	N				1	1
AA485	5	2100		50		25	9			250		225	8			
AA485B	4	600	56E 43	20	N				SHLD AA485	20	N					
AA485L			56J21- 64	10	N		6		56J15-B9	88	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR + SHEET 50 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA485R			56J21- 65	10	N		6		56E 43	20	N				1	
AA486	5	2100		50		25	9			250		225	8			
AA486B	4	600	56E 43	20	N				SHLD AA486	20	N					
AA486L			56J21- 31	10	N		6		56E 43	20	N				1	
AA486R			56J21- 30	10	N		6		56J15-C9	88	N				1	1
AA487	5	2700		50		25	8			300		275	9			
AA487A	4	600	SHLD AA487	20	N				56E 57	20	N		8			
AA487L			56J21-121	10	N		6		56TB2-D 2	138	N				1	2
AA487R			56J21-122	10	N		6		56TB2-F 3	138	N				1	1
AA488	5	2100		50		25	8			250		225	9			
AA488A	4	600	SHLD AA488	20	N				56E 57	20	N					
AA488L			56J21-188	10	N		6		56J15-A3	88	N				1	1
AA488R			56J21-189	10	N		6		56E 59	20	N				1	
AA489	5	1900		50		25	8			250		225	9			
AA489A	4	600	SHLD AA489	20	N				56E 57	20	N					
AA489L			56J21-152	10	N		6		56J16-A7	88	N				1	1
AA489R			56J21-153	10	N		6		56E 60	20	N		7		1	
AA490	5	2700		50		25	9			300		275	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED
SPACECRAFT
CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR + SHEET 51 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA476R			56J21- 26	10	N		6		56J15-C4	88	N				1	1
AA477	5	2100		50		25	8			250		225	9			
AA477A	4	600	SHLD AA477	20	N				56E 47	20	N					
AA477L			56J21-232	10	N		6		56J15-B6	88	N				1	1
AA477R			56J21-233	10	N		6		56E 40	20	N				1	
AA478	5	2100		50		25	8			250		225	9			
AA478A	4	600	SHLD AA478	20	N				56E 47	20	N					
AA478L			56J21-193	10	N		6		56E 40	20	N				1	
AA478R			56J21-192	10	N		6		56J15-C6	88	N				1	1
AA479	5	2100		50		25	8			250		225	9			
AA479A	4	600	SHLD AA479	20	N				56E 47	20	N					
AA479L			56J21- 56	10	N		6		56J15-B8	88	N				1	1
AA479R			56J21- 57	10	N		6		56E 42	20	N				1	
AA480	5	2100		50		25	8			250		225	9			
AA480A	4	600	SHLD AA480	20	N				56E 47	20	N					
AA480L			56J21- 59	10	N		6		56E 42	20	N				1	
AA480R			56J21- 58	10	N		6		56J15-C8	88	N				1	1
AA481	5	2100		50		25	9			250		225	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SPACECRAFT
CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR + SHEET 49 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA490B	4	600	56E 29	20	N				SHLD AA490	20	N					
AA490L			56J21-169	10	N		6		56J12-G1	138	N				1	1
AA490R			56J21-170	10	N		6		56E 29	20	N				1	
AA491	5	2700		50		25	9			300		275	8			
AA491B	4	600	56E 29	20	N				SHLD AA491	20	N					
AA491L			56J21-137	10	N		6		56E 29	20	N				1	
AA491R			56J21-136	10	N		6		56J12-G2	138	N				1	1
AA492	5	1400		50		25	9			300		275	8			
AA492B	4	600	56E 52	20	N				SHLD AA492	20	N					
AA492L			56J21-163	10	N		6		56J18-K2	138	N				1	1
AA492R			56J21-164	10	N		6		56E 52	20	N				1	
AA493	5	1400		50		25	9			300		275	8			
AA493B	4	600	56E 52	20	N				SHLD AA493	20	N					
AA493L			56J21-131	10	N		6		56E 52	20	N				1	
AA493R			56J21-130	10	N		6		56J18-L2	138	N				1	1
AA494	5	1400		50		25	8			300		275	9			
AA494A	4	600	SHLD AA494	20	N				56E 45	20	N					
AA494L			56J21-156	10	N		6		56J18-L1	138	N				1	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR + SHEET 52 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA136L			56J14-M6	138	N				56TB1-U 8	138	N				1	1
AA136R			56J14-L6	138	N				56TB1-T 8	138	N				1	1
AA136W			56J14-N6	138	N				56TB1-U 7	138	N				1	1
AA137	4	600	56J14-R6	138	N				56E 33	20	N				3	
AA138	4	900	56J14-H3	138	N				56J15-L1	138	N				2	1
AA139	4	900	56J14-C5	138	N				56J15-N4	138	N				1	1
AA140	4	900	56J14-C6	138	N				56J15-P4	138	N				1	1
AA141	4	900	56J14-C3	138	N				56J15-N3	138	N				1	1
AA142	4	900	56J14-C4	138	N				56J15-P3	138	N				1	1
AA143	4	900	56J14-C1	138	N				56J15-N2	138	N				1	1
AA144	4	900	56J14-C2	138	N				56J15-P2	138	N				1	1
AA145	4	900	56J14-H4	138	N				56J15-M1	138	N				1	1
AA146	4	900	56J14-K3	138	N				56J15-N1	138	N				2	1
AA147	4	900	56J14-K4	138	N				56J15-P1	138	N				1	1
AA148	4	900	56J14-F6	138	N				56J15-L2	138	N				1	1
AA149	4	900	56J14-G6	138	N				56J15-M2	138	N				1	1
AA150R	4	900	56J14-R1	138	N				56J15-R5	138	N				2	2
AA150W	4	900	56J14-S1	138	N				56J15-S5	138	N				2	2

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE - NONE | REV LTR + | SHEET 18 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA151	4	900	56J14-H5	138	N				56J15-K3	138	N				2	2
AA152	4	900	56J14-S6	138	N				56J15-S2	138	N				2	1
AA153	4	900	56J14-R6	138	N				56J15-R2	138	N				2	1
AA154R	4	1400	56J14-R4	138	N				56J17-S5	138	N				2	1
AA154W	4	1400	56J14-S4	138	N				56J17-T5	138	N				2	1
AA155K	3	1800	56J15-B2	88	N				56TB1-B 7	138	N				1	1
AA155L	3	1800	56J15-B1	88	N				56TB1-C 7	138	N				1	1
AA155R	3	1800	56J15-A2	88	N				56TB1-B 8	138	N				1	1
AA155W	3	1800	56J15-A1	88	N				56TB1-C 8	138	N				1	1
AA156	4	1500	56J15-R1	138	N				56TB2-C 2	138	N				1	1
AA157R	4	2100	56J15-R2	138	N				56J21-101	10	N		6		2	1
AA157W	4	2100	56J15-P1	138	N				56J21-102	10	N		6		2	1
AA158	4	600	56J15-L5	138	N				56E 35	20	N		7		1	
AA159	4	600	56J15-L5	138	N				56E 36	20	N		7		2	
AA160	4	600	56J15-L5	138	N				56E 37	20	N		7		3	
AA161L	3	1500	56J15-D1	88	N				56TB2-C 5	138	N				1	1
AA161R	3	1500	56J15-C1	88	N				56TB2-A 5	138	N				1	1
AA161W	3	1500	56J15-C2	88	N				56TB2-B 5	138	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE - NONE | REV LTR + | SHEET 19 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA129W	4	2300	56E 33	20	N		8		56J21- 66	10	N		6			1
AA130R	4	2300	56E 33	20	N				56J21- 32	10	N		6			1
AA130W	4	2300	56J14-D2	138	N				56J21- 33	10	N		6		1	1
AA131R	4	2300	56J14-D3	138	N				56J21-240	10	N		6		1	1
AA131W	4	2300	56E 33	20	N				56J21-239	10	N		6			1
AA132R	4	2300	56J14-D4	138	N				56J21-202	10	N		6		1	1
AA132W	4	2300	56E 33	20	N				56J21-201	10	N		6			1
AA133	1	1600		300		275	10			300		275	7			
AA133B	4	600	56TB1-S 6	138	N				SHLD AA133	20	N				1	
AA133L			56J14-M2	138	N				56TB1-U 6	138	N				1	1
AA133R			56J14-M1	138	N				56TB1-T 6	138	N				1	1
AA133W			56J14-M3	138	N				56TB1-U 5	138	N				1	1
AA134R	4	2300	56E 33	20	N				56J21-167	10	N		6			1
AA134W	4	2300	56J14-D5	138	N				56J21-168	10	N		6		1	1
AA135R	4	2300	56J14-D6	138	N				56J21-135	10	N		6		1	1
AA135W	4	2300	56E 33	20	N				56J21-134	10	N		6			1
AA136	1	1600		300		275	10			300		275	7			
AA136B	4	600	56TB1-S 8	138	N				SHLD AA136	20	N				3	

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE - NONE | REV LTR + | SHEET 17 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA162L	3	1500	56J15-F2	88	N				56TB2-C 6	138	N				1	1
AA162R	3	1500	56J15-D2	88	N				56TB2-A 6	138	N				1	1
AA162W	3	1500	56J15-F1	88	N				56TB2-B 6	138	N				1	1
AA163L	3	1500	56J15-C3	88	N				56TB2-C 4	138	N				1	1
AA163R	3	1500	56J15-D3	88	N				56TB2-A 4	138	N				1	1
AA163W	3	1500	56J15-D4	88	N				56TB2-B 4	138	N				1	1
AA164	3	600	56J15-A5	88	N				56E 38	20	N		7		2	
AA165	3	600	56J15-A7	88	N				56E 40	20	N		7		3	
AA166	3	600	56J15-A9	88	N				56E 42	20	N		7		3	
AA167	3	600	56J15-A5	88	N				56E 39	20	N		8		3	
AA168	3	600	56J15-A7	88	N				56E 41	20	N		8		2	
AA169	3	600	56J15-A9	88	N				56E 43	20	N		8		2	
AA170	4	1500	56J15-H4	138	N				56TB2-C 1	138	N				2	1
AA171L	3	1500	56J15-F7	88	N				56TB2-C 8	138	N				1	1
AA171R	3	1500	56J15-D7	88	N				56TB2-B 8	138	N				1	1
AA171W	3	1500	56J15-D8	88	N				56TB2-A 8	138	N				1	1
AA172L	3	1500	56J15-D9	88	N				56TB2-C 7	138	N				1	1
AA172R	3	1500	56J15-F9	88	N				56TB2-B 7	138	N				1	1

1> THE STD CONDUCTOR TERMINATION FIGURES ARE PER

2> DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608

SCALE - NONE | REV LTR + | SHEET 20 OF 62

MIL 2085 - 4-63 WIR

INCHES 0 1 2 PHOTOGRAPHIC SCALE ONLY

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA184	4	900	56J15-H4	138	N				56J16-L1	138	N				1	1
AA185R	4	900	56J15-P5	138	N				56J16-S3	138	N				1	1
AA185W	4	900	56J15-P6	138	N				56J16-S4	138	N				1	1
AA186	4	900	56J15-S6	138	N				56J16-S2	138	N				1	1
AA187	4	900	56J15-K3	138	N				56J16-N4	138	N				1	1
AA188R	4	1100	56J15-R5	138	N				56J17-L4	138	N				1	1
AA188W	4	1100	56J15-S5	138	N				56J17-L5	138	N				1	1
AA189	4	1600	56J16-S5	138	N				56J20-N5	138	N				1	1
AA190	4	1600	56J16-S6	138	N				56J20-N6	138	N				1	1
AA191R	4	1600	56J16-N5	138	N				56J20-L3	138	N				2	1
AA191W	4	1600	56J16-P5	138	N				56J20-K3	138	N				2	1
AA192R	4	1600	56J16-N6	138	N				56J20-M4	138	N				1	1
AA192W	4	1600	56J16-P6	138	N				56J20-L4	138	N				1	1
AA193	4	1600	56J16-S2	138	N				56J20-K2	138	N				2	2
AA194R	3	1700	56J16-D2	88	N				56TB2-G 3	138	N				1	1
AA194W	3	1700	56J16-D1	88	N				56TB2-H 3	138	N				1	1
AA195R	3	1700	56J16-D2	88	N				56TB2-G 2	138	N				2	3
AA195W	3	1700	56J16-C2	88	N				56TB2-H 2	138	N				1	2

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR +

MIL 2085 - 4-63 WIR

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA196R	3	1700	56J16-D2	88	N				56TB2-G 1	138	N				3	1
AA196W	3	1700	56J16-C1	88	N				56TB2-H 1	138	N				1	1
AA197	1	1700		250		225	7			300		275	10			
AA197A	4	600	SHLD AA197	20	N				56J16-B1	88	N					2
AA197L			56J16-B1	88	N				56TB2-T 7	138	N				3	1
AA197R			56J16-A1	88	N				56TB2-U 6	138	N				1	1
AA197W			56J16-A2	88	N				56TB2-T 6	138	N				1	1
AA198R	4	1700	56J16-P1	138	N				56TB2-L 6	138	N				1	1
AA198W	4	1700	56J16-R1	138	N				56TB2-L 5	138	N				1	1
AA199R	3	1700	56J16-D4	88	N				56TB2-G 6	138	N				1	1
AA199W	3	1700	56J16-D3	88	N				56TB2-H 6	138	N				1	1
AA200R	3	1700	56J16-D4	88	N				56TB2-G 7	138	N				2	3
AA200W	3	1700	56J16-C4	88	N				56TB2-H 7	138	N				1	2
AA201R	3	1700	56J16-D4	88	N				56TB2-G 8	138	N				3	1
AA201W	3	1700	56J16-C3	88	N				56TB2-H 8	138	N				1	1
AA202	1	1700		250		225	7			300		275	10			
AA202A	4	600	SHLD AA202	20	N				56J16-B3	88	N					2
AA202L			56J16-B3	88	N				56TB2-X 6	138	N				3	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR +

MIL 2085 - 4-63 WIR

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA172W	3	1500	56J15-F8	88	N				56TB2-A 7	138	N				1	1
AA173	4	1500	56J15-S1	138	N				56TB2-B 2	138	N				2	1
AA174	4	1500	56J15-S3	138	N				56TB2-B 1	138	N				1	1
AA175	4	2100	56J15-S3	138	N				56J22-227	10	N		6		2	1
AA176	2	1500		250		225	11			300		275	7			
AA176B	4	600	56TB2-D 3	138	N				SHLD AA176	20	N				1	
AA176L			56J15-B3	88	N				56TB2-D 2	138	N				1	1
AA176R			56E 59	20	N		7		56TB2-F 3	138	N					2
AA177	4	1500	56J15-R6	138	N				56TB2-D 1	138	N				1	1
AA178	4	1800	56J15-H5	138	N				56J20-H4	138	N				1	1
AA179	4	1800	56J15-S2	138	N				56J20-K1	138	N				2	1
AA180R	3	900	56J15-A4	88	N				56J16-B2	88	N				1	1
AA180W	3	900	56J15-A5	88	N				56J16-B1	88	N				1	1
AA181R	3	900	56J15-A6	88	N				56J16-B4	88	N				1	1
AA181W	3	900	56J15-A7	88	N				56J16-B3	88	N				1	1
AA182R	3	900	56J15-A8	88	N				56J16-B6	88	N				1	1
AA182W	3	900	56J15-A9	88	N				56J16-B5	88	N				1	1
AA183	4	900	56J15-S1	138	N				56J16-L2	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR +

MIL 2085 - 4-63 WIR

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH ▷2	FROM CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	TO CIRCUIT POINT	▷2	TIN	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	W-W FR	W-W TO
AA202R			56J16-A3	88	N				56TB2-W 5	138	N				1	1
AA202W			56J16-A4	88	N				56TB2-X 5	138	N				1	1
AA203R	4	1700	56J16-P3	138	N				56TB2-K 3	138	N				1	1
AA203W	4	1700	56J16-R3	138	N				56TB2-L 3	138	N				1	1
AA204L	3	1700	56J16-C9	88	N				56TB2-R 8	138	N				1	1
AA204R	3	1700	56J16-C8	88	N				56TB2-N 7	138	N				1	1
AA204W	3	1700	56J16-B8	88	N				56TB2-N 8	138	N				1	1
AA205L	3	1700	56J16-B9	88	N				56TB2-T 8	138	N				1	1
AA205R	3	1700	56J16-A9	88	N				56TB2-U 8	138	N				1	1
AA205W	3	1700	56J16-A8	88	N				56TB2-U 7	138	N				1	1
AA206R	3	1700	56J16-D6	88	N				56TB2-R 1	138	N				1	1
AA206W	3	1700	56J16-D5	88	N				56TB2-N 1	138	N				1	1
AA207R	3	1700	56J16-D6	88	N				56TB2-R 2	138	N				2	3
AA207W	3	1700	56J16-C6	88	N				56TB2-N 2	138	N				1	2
AA208R	3	1700	56J16-C5	88	N				56TB2-N 3	138	N				1	1
AA208W	3	1700	56J16-D6	88	N				56TB2-R 3	138	N				3	2
AA209L	3	1700	56J16-F8	88	N				56TB2-X 4	138	N				1	1
AA209R	3	1700	56J16-D7	88	N				56TB2-W 3	138	N				1	1

▷1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
▷2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE REV LTR +

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

CONDUCTOR			FROM						TO						W-W -	
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD / STRIP WIRE OR JACKET				TERMINATION SPEC. 1		CUT WIRE OR SHIELD / STRIP WIRE OR JACKET				TERMINATION SPEC 1			
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA499A	4	600	SHLD AA499	20	N				56E 45	20	N					
AA499L			56J21-190	10	N		6		56J18-K4	138	N				1	2
AA499R			56J21-191	10	N		6		56E 51	20	N				1	
AA500	5	1600		50		25	9			300		275	8			
AA500B	4	600	56E 27	20	N				SHLD AA500	20	N					
AA500L			56J21-104	10	N		6		56E 27	20	N				1	
AA500R			56J21-103	10	N		6		56J17-R3	138	N				1	2
AA501R	4	2500	56J21-133	10	N		6		56E 34	20	N				1	
AA501W	4	2500	56J21-132	10	N		6		56J13-N5	138	N				1	2
AA502R	4	2500	56J21-100	10	N		6		56E 34	20	N				1	
AA502W	4	2500	56J21- 99	10	N		6		56J13-N6	138	N				1	2
AA503	5	2900		50		25	9			300		275	8			
AA503B	4	600	56E 28	20	N				SHLD AA503	20	N					
AA503L			56J21-204	10	N		6		56E 28	20	N				1	
AA503R			56J21-203	10	N		6		56J11-L6	138	N				1	1
AA504	5	2900		50		25	9			300		275	8			
AA504B	4	600	56E 28	20	N				SHLD AA504	20	N					
AA504L			56J21-242	10	N		6		56E 28	20	N				1	

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE-NONE | REV LTR + | SHEET 54 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W -	
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD / STRIP WIRE OR JACKET				TERMINATION SPEC. 1		CUT WIRE OR SHIELD / STRIP WIRE OR JACKET				TERMINATION SPEC 1			
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA504R			56J21-241	10	N		6		56J11-M6	138	N				1	1
AA505	5	2700		50		25	9			300		275	8			
AA505B	4	600	56TB2-V 8	138	N				SHLD AA505	20	N				2	
AA505L			56J22-139	10	N		6		56TB2-U 8	138	N				1	2
AA505R			56J22-107	10	N		6		56TB2-U 7	138	N				1	2
AA506	5	2700		50		25	9			300		275	8			
AA506B	4	600	56TB2-M 8	138	N				SHLD AA506	20	N				2	
AA506L			56J22-141	10	N		6		56TB2-N 8	138	N				1	2
AA506R			56J22-142	10	N		6		56TB2-N 7	138	N				1	2
AA507	5	1700		50		25	9			300		275	8			
AA507B	4	600	56TB3-H12	138	N				SHLD AA507	20	N				3	
AA507L			56J22-144	10	N		6		56TB3-C13	138	N				1	1
AA507R			56J22-111	10	N		6		56TB3-C14	138	N				1	1
AA508	5	1700		50		25	9			300		275	8			
AA508B	4	600	56TB3-H14	138	N				SHLD AA508	20	N				2	
AA508L			56J22-113	10	N		6		56TB3-N20	138	N				1	2
AA508R			56J22-114	10	N		6		56TB3-N21	138	N				1	2
AA509	5	1700		50		25	9			300		275	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE-NONE | REV LTR + | SHEET 55 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W -	
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD / STRIP WIRE OR JACKET				TERMINATION SPEC. 1		CUT WIRE OR SHIELD / STRIP WIRE OR JACKET				TERMINATION SPEC 1			
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA494R			56J21-157	10	N		6		56E 53	20	N				1	
AA495	5	1400		50		25	8			300		275	9			
AA495A	4	600	SHLD AA495	20	N				56E 45	20	N					
AA495L			56J21-123	10	N		6		56J18-K1	138	N				1	2
AA495R			56J21-124	10	N		6		56E 53	20	N				1	
AA496	5	1400		50		25	9			300		275	8			
AA496B	4	600	56E 50	20	N				SHLD AA496	20	N					
AA496L			56J21-235	10	N		6		56J18-K3	138	N				1	1
AA496R			56J21-236	10	N		6		56E 50	20	N				1	
AA497	5	1400		50		25	9			300		275	8			
AA497B	4	600	56E 50	20	N				SHLD AA497	20	N					
AA497L			56J21-198	10	N		6		56E 50	20	N				1	
AA497R			56J21-197	10	N		6		56J18-L3	138	N				1	1
AA498	5	1400		50		25	8			300		275	9			
AA498A			SHLD AA498	20	N				56E 45	20	N					
AA498L			56J21-230	10	N		6		56J18-L4	138	N				1	2
AA498R			56J21-231	10	N		6		56E 51	20	N				1	
AA499	5	1400		50		25	8			300		275	9			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE-NONE | REV LTR + | SHEET 53 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W -	
INDIVIDUAL LENGTH			CUT WIRE OR SHIELD / STRIP WIRE OR JACKET				TERMINATION SPEC. 1		CUT WIRE OR SHIELD / STRIP WIRE OR JACKET				TERMINATION SPEC 1			
NUMBER	ITEM NO.	2	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	CIRCUIT POINT	2	TIN	2	ITEM NO.	NO.	FR	TO
AA509B	4	600	56TB3-H13	138	N				SHLD AA509	20	N				3	
AA509L			56J22-116	10	N		6		56TB3-D13	138	N				1	1
AA509R			56J22-148	10	N		6		56TB3-D14	138	N				1	1
AA510	5	1700		50		25	9			300		275	8			
AA510B	4	600	56TB3-H14	138	N				SHLD AA510	20	N				3	
AA510L			56J22-150	10	N		6		56TB3-F13	138	N				1	1
AA510R			56J22-151	10	N		6		56TB3-F14	138	N				1	1
AA511	4	600	56TB1-S 2	138	N				56TB1-T 2	138	N				2	1
AA512	4	600	56TB1-R 2	138	N				56TB1-S 2	138	N				1	1
AA513	4	600	56TB3-H12	138	N				56TB3-H13	138	N				2	2
AA514	4	600	56TB3-B15	138	N				56TB3-D15	138	N				1	1
AA515	4	600	56TB3-M20	138	N				56TB3-C18	138	N				1	1
AA517R	4	1700	56TB3-R21	138	N				56J22-120	10	N		6		2	1
AA517W	4	1700	56TB3-R22	138	N				56J22-153	10	N		6		2	1
AA518	4	1700	56TB3-F 4	138	N				56J22-150	10	N		6		1	1
AA519	4	1700	56TB3-G21	138	N				56J21- 1	10	N		6		2	1
AA520	4	1700	56TB3-G20	138	N				56J21- 2	10	N		6		1	1
AA521	4	1700	56TB3-L19	138	N				56J21- 62	10	N		6		2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER HOUSTON, TEXAS | SIZE A | 1014608
SCALE-NONE | REV LTR + | SHEET 56 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA220	4	1900	56J16-L1	138	N				56J22-228	10	N		6		2	1
AA221	4	1700	56J16-M1	138	N				56TB2-R 4	138	N				1	1
AA222K	4	1700	56J16-R4	138	N				56TB2-H 5	138	N				1	1
AA222L	4	1700	56J16-S3	138	N				56TB2-H 4	138	N				2	1
AA222R	4	1700	56J16-S4	138	N				56TB2-G 4	138	N				2	1
AA222W	4	1700	56J16-P4	138	N				56TB2-G 5	138	N				1	1
AA223	4	1700	56J16-P2	138	N				56TB2-K 4	138	N				1	2
AA224R	4	1700	56J16-N5	138	N				56TB2-L 1	138	N				3	2
AA224W	4	1700	56J16-P5	138	N				56TB2-K 1	138	N				3	2
AA225R	4	1700	56J16-N6	138	N				56TB2-T 2	138	N				2	2
AA225W	4	1700	56J16-P6	138	N				56TB2-U 3	138	N				2	1
AA226	5	1900		300		275	8			50		25	9			
AA226A			SHLD AA226	20	N				56E 30	20	N		7			
AA226L			56J16-L3	138	N				56J21- 35	10	N		6		1	1
AA226R			56J16-L4	138	N				56J21- 34	10	N		6		2	1
AA227	5	1900		300		275	8			50		25	9			
AA227A			SHLD AA227	20	N				56E 30	20	N					
AA227L			56J16-L3	138	N				56J21- 68	10	N		6		2	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SCALE-NONE REV LTR + SHEET 26 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA227R			56J16-M4	138	N				56J21- 69	10	N		6		2	1
AA228	4	1500	56J16-R5	138	N				56TB3-L20	138	N				1	2
AA229	4	1500	56J16-R6	138	N				56TB3-L20	138	N				1	3
AA230L	4	1700	56J16-G2	138	N				56TB2-W 7	138	N				1	1
AA230R	4	1700	56J16-H1	138	N				56TB2-X 7	138	N				1	1
AA230W	4	1700	56J16-G1	138	N				56TB2-W 6	138	N				1	1
AA231L	4	1700	56J16-G4	138	N				56TB2-U 4	138	N				1	1
AA231R	4	1700	56J16-H3	138	N				56TB2-T 5	138	N				1	1
AA231W	4	1700	56J16-G3	138	N				56TB2-U 5	138	N				1	1
AA232	1	1800		300		275	7			300		275	7			
AA232A	4	600	SHLD AA232	20	N				56E 30	20	N					
AA232B	4	600	56E 31	20	N				SHLD AA232	20	N					
AA232L			56J16-L4	138	N				56J12-D1	138	N				1	1
AA232R			56J16-M4	138	N				56J12-D2	138	N				1	1
AA232W			56J16-L3	138	N				56E 31	20	N				3	
AA233R	4	1100	56J16-N5	138	N				56J18-S6	138	N				1	1
AA233W	4	1100	56J16-P5	138	N				56J18-T6	138	N				1	1
AA234	4	900	56J16-N4	138	N				56J17-L6	138	N				2	2

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SIZE A
1014608
SCALE-NONE REV LTR + SHEET 27 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA209W	3	1700	56J16-F7	88	N				56TB2-W 4	138	N				1	1
AA210	4	1700	56J16-S1	138	N				56TB2-N 5	138	N				1	1
AA211	4	1700	56J16-T1	138	N				56TB2-R 5	138	N				1	1
AA212	4	1700	56J16-T2	138	N				56TB2-K 8	138	N				1	1
AA213L	3	1700	56J16-F9	88	N				56TB2-X 2	138	N				1	1
AA213R	3	1700	56J16-D9	88	N				56TB2-W 2	138	N				1	1
AA213W	3	1700	56J16-D8	88	N				56TB2-X 3	138	N				1	1
AA214	1	1700		250		225	7			300		275	10			
AA214A	4	600	SHLD AA214	20	N				56J16-B5	88	N					2
AA214L			56J16-B5	88	N				56TB2-R 7	138	N				3	1
AA214R			56J16-A5	88	N				56TB2-N 6	138	N				1	1
AA214W			56J16-A6	88	N				56TB2-R 6	138	N				1	1
AA215R	4	1700	56J16-N2	138	N				56TB2-K 5	138	N				1	1
AA215W	4	1700	56J16-N1	138	N				56TB2-K 6	138	N				1	1
AA216	3	1700	56J16-F2	88	N				56TB2-W 1	138	N				1	1
AA217	3	1700	56J16-F4	88	N				56TB2-X 1	138	N				1	1
AA218	3	1700	56J16-F6	88	N				56TB2-S 1	138	N				1	1
AA219	3	1700	56J16-F5	88	N				56TB2-T 1	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SCALE-NONE REV LTR + SHEET 25 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	FROM CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC. 1 ITEM NO.	NO.	TO CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	2	TIN	2	TERMINATION SPEC 1 ITEM NO.	NO.	W-W FR	W-W TO
AA235	4	1400	56J17-P6	138	N				56TB3-F 3	138	N				1	1
AA236	4	1400	56J17-T4	138	N				56J20-M1	138	N				1	2
AA237	4	1400	56J17-T3	138	N				56J20-M2	138	N				1	2
AA238	4	1400	56J17-T1	138	N				56J20-P3	138	N				2	1
AA239	4	1400	56J17-T2	138	N				56J20-P4	138	N				2	1
AA240	4	900	56J17-T6	138	N				56J18-S1	138	N				1	1
AA241	4	900	56J17-L6	138	N				56J18-R5	138	N				1	1
AA242L	4	900	56J17-K4	138	N				56J18-K1	138	N				1	1
AA242R	4	900	56J17-G4	138	N				56J18-L1	138	N				1	1
AA242W	4	600	56J17-H4	138	N				56E 53	20	N		7		1	
AA243L	4	900	56J17-K6	138	N				56J18-K4	138	N				1	1
AA243R	4	900	56J17-G6	138	N				56J18-L4	138	N				1	1
AA243W	4	600	56J17-H6	138	N				56E 51	20	N		7		1	
AA244	5	1600		250		225	9			50		25	8			
AA244B	4	600	56J22- 41	10	N		6		SHLD AA244	20	N				1	
AA244L			56J17-A4	88	N				56J22- 3	10	N		6		1	1
AA244R			56J17-B4	88	N				56J22- 4	10	N		6		1	1
AA245	5	1600		250		225	9			50		25	8			

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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MIL 2085 - 4-63 WIR

INCHES
0 1 2
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CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA256	3	1400	56J17-D7	88	N				56TB3-M 4	138	N				1	1
AA257	3	1400	56J17-F7	88	N				56TB3-C 1	138	N				1	1
AA258K	4	1400	56J17-N6	138	N				56TB3-G 1	138	N				1	1
AA258L	4	1400	56J17-N5	138	N				56TB3-G 2	138	N				1	1
AA258R	4	1400	56J17-M6	138	N				56TB3-H 1	138	N				1	1
AA258W	4	1400	56J17-M5	138	N				56TB3-H 2	138	N				1	1
AA259	4	1400	56J17-H1	138	N				56TB3-K 2	138	N				1	1
AA260	4	1400	56J17-H2	138	N				56TB3-K 1	138	N				1	1
AA261	4	1400	56J17-G1	138	N				56TB3-K 5	138	N				1	1
→AA262	4	1400	56J17-G2	138	N				56TB3-H 5	138	N				1	1
AA263	4	1400	56J17-L1	138	N				56TB3-L 5	138	N				1	1
AA264	4	1400	56J17-M1	138	N				56TB3-D 1	138	N				1	1
AA265	5	1400		300		275	9			300		275	8			
AA265B	4	600	56TB3-R 3	138	N				SHLD AA265	20	N				2	
AA265L			56J17-M4	138	N				56TB3-N 1	138	N				1	1
AA265R			56J17-N4	138	N				56TB3-N 2	138	N				1	1
AA266	3	1400	56J17-C5	88	N				56TB3-K 3	138	N				1	1
AA267	3	1400	56J17-B6	88	N				56TB3-L 4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SCALE-NONE
REV LTR +
SHEET 30 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA268	3	1400	56J17-B5	88	N				56TB3-L 3	138	N				1	1
AA269	3	1400	56J17-D5	88	N				56TB3-M 1	138	N				1	1
AA270	5	1400		300		275	9			300		275	8			
AA270B	4	600	56TB3-N 3	138	N				SHLD AA270	20	N				1	
AA270L			56J17-N1	138	N				56TB3-N 4	138	N				1	1
AA270R			56J17-P1	138	N				56TB3-N 5	138	N				1	1
AA271	3	1400	56J17-F6	88	N				56TB3-C 4	138	N				1	1
AA272	3	1400	56J17-F5	88	N				56TB3-D 4	138	N				1	1
AA273	3	1400	56J17-F4	88	N				56TB3-C 5	138	N				1	1
→AA274	3	1400	56J17-F3	88	N				56TB3-D 5	138	N				1	1
AA275	4	1400	56J17-P5	138	N				56TB3-D 3	138	N				1	1
AA276	3	1400	56J17-C6	88	N				56TB3-H 4	138	N				1	1
AA277	4	1400	56J17-M2	138	N				56TB3-G 5	138	N				1	1
AA278	4	1400	56J17-M3	138	N				56TB3-F 1	138	N				2	1
AA280	4	1400	56J17-R5	138	N				56TB3-M21	138	N				1	1
AA281L	3	1400	56J17-A8	88	N				56TB3-T 2	138	N				1	1
AA281R	3	1400	56J17-A7	88	N				56TB3-T 3	138	N				1	1
AA281W	3	1400	56J17-A6	88	N				56TB3-T 4	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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SIZE A
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SCALE-NONE
REV LTR +
SHEET 31 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA245B	4	600	56J22- 5	10	N		6		SHLD AA245	20	N				1	
AA245L			56J17-C4	88	N				56J22- 6	10	N		6		1	1
AA245R			56J17-D4	88	N				56J22- 43	10	N		6		1	1
AA246	5	1600		225		250	9			50		25	8			
AA246B	4	600	56J22- 8	10	N		6		SHLD AA246	20	N				1	
AA246L			56J17-C3	88	N				56J22- 45	10	N		6		1	1
AA246R			56J17-D3	88	N				56J22- 46	10	N		6		1	1
AA247R	3	1400	56J17-D2	88	N				56TB3-R 4	138	N				1	1
AA247W	3	1400	56J17-D3	88	N				56TB3-R 5	138	N				2	1
→AA248	4	1400	56J17-S2	138	N				56TB3-S 2	138	N				2	3
AA249	3	1400	56J17-F8	88	N				56TB3-L 2	138	N				1	1
AA250R	4	1400	56J17-P4	138	N				56TB3-C 2	138	N				1	1
AA250W	4	1400	56J17-R4	138	N				56TB3-D 2	138	N				1	1
AA251	3	1400	56J17-D8	88	N				56TB3-M 2	138	N				1	1
AA252	3	1400	56J17-B7	88	N				56TB3-H 3	138	N				1	1
AA253	3	1400	56J17-B8	88	N				56TB3-G 3	138	N				1	1
AA254	3	1400	56J17-C7	88	N				56TB3-G 4	138	N				1	1
AA255	3	1400	56J17-D6	88	N				56TB3-M 5	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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REV LTR +
SHEET 29 OF 62

MIL 2085 - 4-63 WIR

CONDUCTOR			FROM						TO						W-W -	
NUMBER	ITEM NO.	INDIVIDUAL LENGTH 2	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC. 1 ITEM NO.	NO.	CIRCUIT POINT	STRIP WIRE OR JACKET 2	TIN	CUT WIRE OR SHIELD 2	TERMINATION SPEC 1 ITEM NO.	NO.	FR	TO
AA282	4	1400	56J17-R6	138	N				56TB3-L21	138	N				2	2
AA283	4	600	56J17-R6	138	N				56J17-S6	138	N				1	1
AA284L	3	1400	56J17-F9	88	N				56TB3-S 4	138	N				1	1
AA284R	3	1400	56J17-D9	88	N				56TB3-S 5	138	N				1	1
AA284W	3	1400	56J17-C9	88	N				56TB3-T 5	138	N				1	1
AA285	3	1400	56J17-A9	88	N				56TB3-M 3	138	N				1	1
AA286	3	1400	56J17-B9	88	N				56TB3-K 4	138	N				1	1
AA287	5	1600		250		225	9			50		25	8			
AA287B	4	600	56J22- 2	10	N		6		SHLD AA287	20	N				1	
→AA287L			56J17-A3	88	N				56J22- 1	10	N		6		1	1
AA287R			56J17-B3	88	N				56J22- 39	10	N		6		1	1
AA288	5	1600		250		225	9			50		25	8			
AA288B	4	600	56J22- 11	10	N		6		SHLD AA288	20	N				1	
AA288L			56J17-D1	88	N				56J22- 48	10	N		6		1	1
AA288R			56J17-C1	88	N				56J22- 10	10	N		6		1	1
AA289R	3	1400	56J17-C2	88	N				56TB3-R 2	138	N				1	1
AA289W	3	1400	56J17-C1	88	N				56TB3-R 1	138	N				2	1
AA290	3	1400	56J17-C8	88	N				56TB3-L 1	138	N				1	1

1 THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2 DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
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SIZE A
1014608
SCALE-NONE
REV LTR +
SHEET 32 OF 62

MIL 2085 - 4-63 WIR

INCHES
0 1 2
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GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH NUMBER	ITEM NO.	▷2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA540	4	600	56TB2-V 2	138	N				56TB2-V 3	138	N				1	1
AA541	4	600	56TB3-G 9	138	N				56TB3-H 9	138	N				1	1
AA542	4	600	56TB3-H 9	138	N				56TB3-K 9	138	N				2	2
AA543	4	600	56TB3-K 9	138	N				56TB3-L 9	138	N				1	1
AA544	4	600	56TB3-L 9	138	N				56TB3-M 9	138	N				2	2
AA545	4	600	56TB3-M 9	138	N				56TB3-N 9	138	N				1	1
AA546	4	600	56TB3-N 9	138	N				56TB3-R 9	138	N				2	2
AA547	4	600	56TB3-R 9	138	N				56TB3-S 9	138	N				1	1
AA548	4	600	56TB3-S 9	138	N				56TB3-T 9	138	N				2	2
AA549	4	600	56TB3-T 9	138	N				56TB3-G15	138	N				1	1
AA550	4	600	56TB3-G15	138	N				56TB3-H15	138	N				2	2
AA551	4	600	56TB3-H15	138	N				56TB3-K15	138	N				1	1
AA552	4	600	56TB3-K15	138	N				56TB3-L15	138	N				2	2
AA553	4	600	56TB3-R15	138	N				56TB3-S15	138	N				2	2
AA554	4	600	56TB3-H13	138	N				56TB3-H14	138	N				1	1
AA555	4	600	56TB2-K 4	138	N				56TB2-L 4	138	N				1	1
AA556	4	600	56TB2-L 2	138	N				56TB2-L 1	138	N				1	1
AA557	4	600	56TB2-K 2	138	N				56TB2-K 1	138	N				1	1

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

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HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR +
SHEET 58 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH NUMBER	ITEM NO.	▷2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA558	4	600	56TB3-M20	138	N				56TB3-C19	138	N				2	1
AA559	4	600	56TB3-T20	138	N				56TB3-T21	138	N				1	1
AA560	4	600	56TB3-S21	138	N				56TB3-T21	138	N				1	2
AA561	4	2400	56E 57	20	N				56TB2-D 3	138	N					3
AA562	4	600	56J21- 53	10	N		6		56E 57	20	N				1	
AA563	4	600	56TB3-L21	138	N				56TB3-D15	138	N				1	3
AA566	4	600	56TB3-K21	138	N				56TB3-C15	138	N				1	1
AA568	4	600	56E 45	20	N				56E 46	20	N					
AA569	2	1700		300		275	7			250		225	11			
AA569A	4	600	SHLD AA569	20	N				56TB2-D 3	138	N					2
AA569L			56TB2-D 2	138	N				56J16-B7	88	N				3	1
AA569R			56TB2-F 3	138	N				56E 60	20	N				3	
AA571	2	1900		300		275	7			250		225	11			
AA571A	4	600	SHLD AA571	20	N				56TB2-S 3	138	N					2
AA571L			56TB2-N 3	138	N				56J17-A2	88	N				2	1
AA571R			56TB2-R 3	138	N				56J17-B2	88	N				3	1
AA572	4	600	56TB1-D 7	138	N				56TB1-D 8	138	N				1	1
AA577	4	600	56TB2-D 7	138	N				56TB2-D 8	138	N				2	1

1▷ THE STD CONDUCTOR TERMINATION FIGURES ARE PER
2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR +
SHEET 59 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH NUMBER	ITEM NO.	▷2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA522	4	1700	56TB3-N19	138	N				56J21- 63	10	N		6		2	1
AA523	4	1700	56TB3-G21	138	N				56J21- 73	10	N		6		3	1
AA524	4	1700	56TB3-G20	138	N				56J21- 74	10	N		6		2	1
AA525	4	1700	56TB3-M19	138	N				56J21- 96	10	N		6		2	1
AA526	4	1700	56TB3-D19	138	N				56J21-129	10	N		6		2	1
AA527	4	1700	56TB3-G22	138	N				56J21-139	10	N		6		2	1
AA528	4	1700	56TB3-F20	138	N				56J21-140	10	N		6		1	1
AA529	4	1700	56TB3-F19	138	N				56J21-162	10	N		6		2	1
AA530	4	1700	56TB3-G19	138	N				56J21-196	10	N		6		2	1
AA531	4	1700	56TB3-G22	138	N				56J21-207	10	N		6		3	1
AA532	4	1700	56TB3-F20	138	N				56J21-208	10	N		6		2	1
AA533	4	600	56TB3-L15	138	N				56TB3-M15	138	N				1	1
AA534	4	600	56TB3-M15	138	N				56TB3-N15	138	N				2	2
AA535	4	600	56TB3-N15	138	N				56TB3-R15	138	N				1	1
AA536	4	600	56TB3-S15	138	N				56TB3-T15	138	N				1	1
AA537	4	600	56TB3-T15	138	N				56TB3-B15	138	N				2	3
AA538	4	600	56TB3-G 9	138	N				56TB3-B15	138	N				2	2
AA539	4	600	56TB2-M 8	138	N				56TB2-M 7	138	N				1	1

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MANNED SPACECRAFT CENTER
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1014608
SCALE-NONE
REV LTR +
SHEET 57 OF 62

MIL 2085 - 4-63 WIR

GJG WIRE LIST AA + 1014608

CONDUCTOR			FROM						TO						W-W	-
INDIVIDUAL LENGTH NUMBER	ITEM NO.	▷2	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC. ▷1 ITEM NO.	NO.	CUT WIRE OR SHIELD / STRIP WIRE OR JACKET / CIRCUIT POINT	▷2	T I N	▷2	TERMINATION SPEC ▷1 ITEM NO.	NO.	FR	TO
AA578	4	600	56TB2-S 2	138	N				56TB2-R 2	138	N				1	1
AA579	4	600	56TB2-F 7	138	N				56TB2-G 7	138	N				1	1
AA580	4	600	56TB2-F 2	138	N				56TB2-G 2	138	N				1	1
AA581	4	600	56TB2-M 1	138	N				56TB2-M 2	138	N				1	1
AA582	4	600	56TB2-M 2	138	N				56TB2-M 3	138	N				2	2
AA583	4	600	56TB2-M 3	138	N				56TB2-M 4	138	N				1	1
AA584	4	600	56TB2-M 4	138	N				56TB2-M 5	138	N				2	2
AA585	4	600	56TB2-M 5	138	N				56TB2-M 6	138	N				1	1
AA586	4	600	56TB2-M 6	138	N				56TB2-M 7	138	N				2	2
AA588	4	600	56TB1-N 4	138	N				56TB1-S 8	138	N				1	1
AA589	4	1000	56TB1-N 4	138	N				56TB2-M 5	138	N				3	3
AA590	4	1000	56TB1-D 7	138	N				56TB2-V 2	138	N				2	2
AA591	4	1000	56TB1-S 3	138	N				56TB2-M 4	138	N				2	3
AA592	4	2200	56TB2-M 6	138	N				56TB3-S 2	138	N				3	1
AA594	4	2200	56TB3-S 2	138	N				56TB2-V 3	138	N				2	3
AA596	4	600	56TB2-V 3	138	N				56TB2-V 4	138	N				2	2
AA597	4	600	56TB2-V 4	138	N				56TB2-V 5	138	N				1	1
AA598	4	600	56TB2-V 5	138	N				56TB2-V 6	138	N				2	2

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2▷ DIMENSIONS ARE IN INCHES AND TWO PLACE DECIMALS.

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS
SIZE A
1014608
SCALE-NONE
REV LTR +
SHEET 60 OF 62

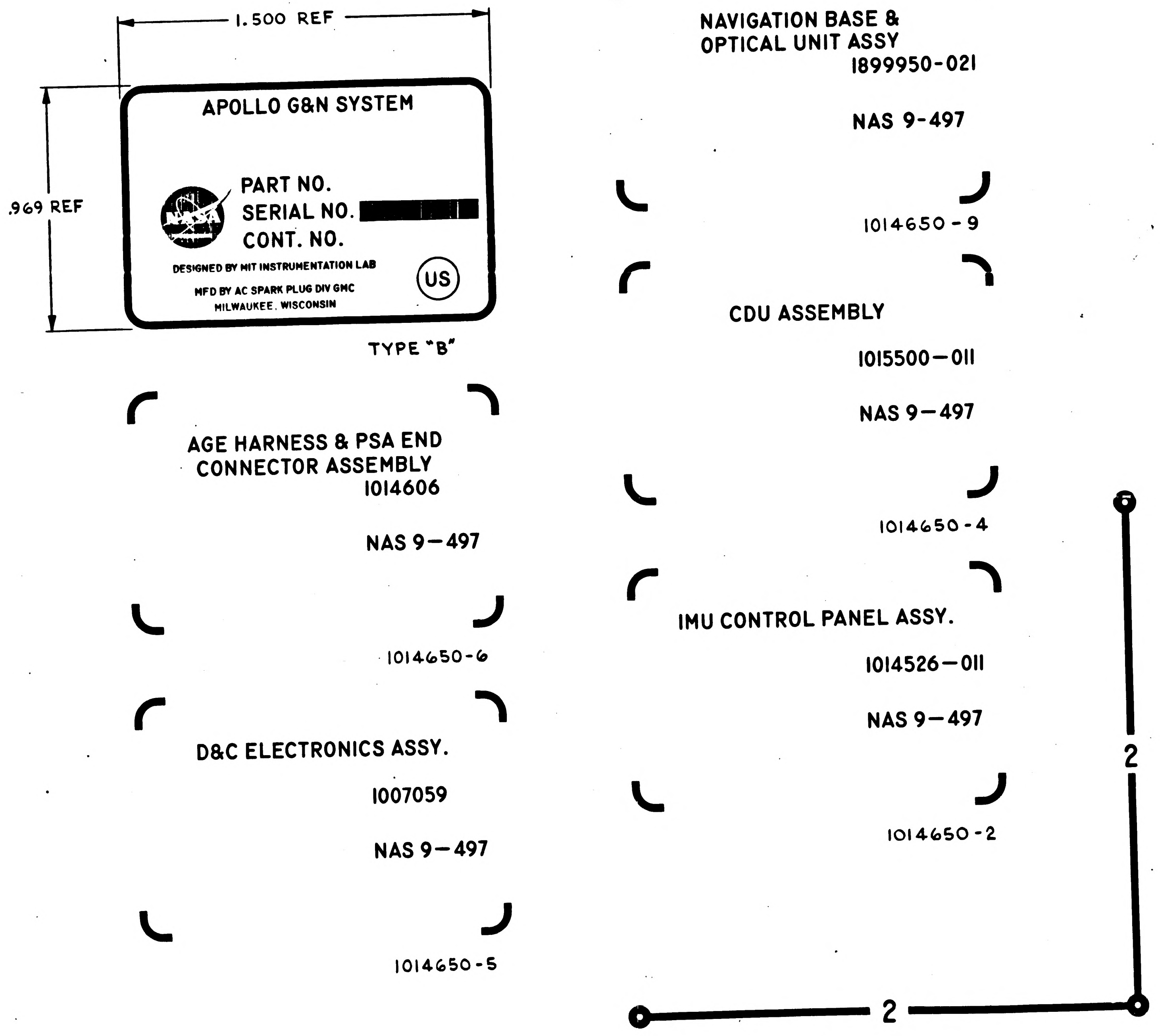
MIL 2085 - 4-63 WIR

INCHES
0 1 2
PHOTOGRAPHIC SCALE ONLY

E 1014650 2

REVISIONS TDRR 34778

SYM	ZONE	DESCRIPTION	CHG NO	DATE	APPD
(M) A		SEE SHEET 1 FOR REVISION STATUS		4 NOV. 63	
D		REVISED PER TDR NO. 10996		3 AUG 64	
E		REPLACED WITH CHANGE BY REV. F PER TDRR 14621		4 NOV 64	W.E.



1.500 REF
.969 REF
APOLLO G&N SYSTEM
PART NO.
SERIAL NO.
CONT. NO.
DESIGNED BY MIT INSTRUMENTATION LAB
MFD BY AC SPARK PLUG DIV GMC
MILWAUKEE, WISCONSIN
US
TYPE "B"
AGE HARNESS & PSA END CONNECTOR ASSEMBLY
1014606
NAS 9—497
1014650-6
D&C ELECTRONICS ASSY.
1007059
NAS 9—497
1014650-5
NAVIGATION BASE & OPTICAL UNIT ASSY
1899950-021
NAS 9-497
1014650-9
CDU ASSEMBLY
1015500—011
NAS 9—497
1014650-4
IMU CONTROL PANEL ASSY.
1014526—011
NAS 9—497
1014650-2
2
2

Ⓔ REPLACED WITH CHANGE BY REV F

NOTES:

1. THE ORIGINAL OF THIS DRAWING OR ANY REPRODUCTION THEREOF SHALL BE MADE BY A METHOD OR PROCESS WHICH WILL INSURE DIMENSIONAL STABILITY AS AN ACCURATE TEMPLATE TO BE USED TO PRODUCE IDENTIFICATION PLATE 1014650 TYPE "B" SHEET 1.

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING
MATERIAL —
CONTRACT NAS 9-497

AC SPARK PLUG DIVISION, GMC
MILWAUKEE, WISCONSIN
ACSP PN
DRAWN 29 OCT 63
CHECKED DATE 29 OCT 63
APPROVAL 29 OCT 63
APPROVAL 29 Oct 63
NASA APPROVAL
MIT APPROVAL

MANNED
SPACECRAFT CENTER
HOUSTON, TEXAS

PLATE, IDENTIFICATION
PHOTOGRAPHIC MASTER

CODE IDENT NO.
SIZE D
1014650
SCALE 4:1
SHEET 3 OF 3